Building Digital Literary Geographies: Modelling and Prototyping as Modes of Inquiry

by

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B.A., American University of Beirut, 2013
M.A., American University of Beirut, 2015

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Supervisory Committee

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Abstract

The mode of carrying out literary spatial studies—or literary geography—has largely shifted to embrace digital methods and tools, culminating in the field of geospatial humanities. This shift has affected the scope of research questions that scholars can ask and answer using digital methods. Although there many continuities between non-digital and digital spatial studies, there are some fundamental points of departure in the critical processes that are involved in carrying out geospatial humanities research, including data modelling, prototyping, and multidisciplinary collaboration, that demand a revisit of the ways that knowledge production and analysis are carried out in the humanities. First there is thinking about how data models, prototypes, and digital projects embed within themselves spatial methodologies and spatial theory that form the foundation of humanities-oriented spatial inquiry. In addition, collaborating across multidisciplinary groups involves working toward shared project goals, while ideally ensuring that individual team members are drawing benefit from the collaborative research experience. Another factor has to do with creating rich and accurate data models that can capture the complexity of their subject of inquiry for meaningful humanities research.

This dissertation addresses each of the aforementioned challenges through practical applications, by focusing not only on the literary contributions of geospatial humanities, but also engaging the critical processes involved in this form of digital research. By designing and co-creating three geospatial prototypes, TopoText, TopoText 2.0, and A Map of *Paradise Lost*, my goal is to demonstrate how digital objects can embody spatial theory and methodologies, and to portray how traditional literary studies approaches such as close reading and literary interpretation can be combined with digital methods that enable interactivity and mixed-media

visualizations for an immersed literary geography analysis. The first two chapters translate a literary theory and method of analysis, geocriticism, into a digital prototype and iteratively improve on it to demonstrate the type of research made possible through a digital geocritical interpretation. In that part of the dissertation, I also address the challenges involved in translating a literary framework into a digital environment, such as designing under constraint, and discuss what is lost in translation alongside what is gained (McCarty 2008). Chapter three demonstrates how technological advances enable scholars to build community-university partnerships that can contribute to humanities scholarship while also making research findings publicly available. In particular, the chapter argues that scholars can draw on Volunteered Geographical Information to create rich cultural gazetteers that can inform spatial humanities research. The final two chapters demonstrate how a geospatial prototype that is fueled by rich data and embeds other types of media can inform literary interpretation and help make arguments. By focusing on the process of building A Map of *Paradise Lost*—a geospatial humanities text-to-map project that visualizes the locatable places in John Milton's *Paradise Lost*—the closing chapter addresses the question "why map literature?" and demonstrates how the process of research prototyping is in itself a form of knowledge production.

Since the methods and technologies that inform geospatial humanities research are rapidly evolving, this dissertation adopts a portfolio model and consists of five released and one forthcoming publications, as well as three published prototypes. Together, they form a digital dissertation, meaning that the digital component comprises a significant part of the intellectual work of the dissertation. Reflecting the collaborative nature of digital humanities research, some articles were co-authored and all three prototypes were co-developed. In all components of this

dissertation, I took on the leading role in the publication and prototype development, which is detailed at the beginning of every chapter.

Keywords: geospatial humanities, literary geography, prototyping, data modelling, multidisciplinary collaboration, digital humanities, early modern studies, *Paradise Lost*.

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Introduction

i.i Introduction Overview

The study of literary space and place is increasingly carried out using digital methods and tools. Shifting to a digital mode is changing the scale, as well as the kind of research questions and methodologies that humanists employ by taking advantage of the digital medium's processing power and speed. This research area, referred to in this dissertation as geospatial humanities, is largely taking place within the field of digital humanities, and involves the linking of places and research materials in search of meaningful patterns and their visualization on interactive maps. With the changing face of spatial studies in literature, the methods and materials that inform research and how it is carried out are also expanding from largely siloed work on individual or small collections of texts to include forms of collaborative research that often involve data modelling and prototyping to build projects that engage individual texts as well as large corpora of works.

Although there are many continuities between traditional modes of literary spatial studies and geospatial humanities, there are also several additional challenging factors that are associated with the latter that demand scholarly attention. First, there is thinking about how data models, prototypes, and digital projects embed within themselves spatial methodologies and spatial theory that form the foundation of humanities-oriented spatial inquiry. In addition, collaborating across multidisciplinary groups involves working toward shared project goals, while ideally ensuring that individual team members are drawing benefit from the collaborative research experience. Another factor has to do with creating rich and accurate datasets that can capture the complexity of their subject of inquiry for meaningful humanities research. Unlike traditional humanities inquiry about space that primarily expresses itself through writing,

geospatial humanities research is carried out by doing: collecting and modelling data, building prototypes, and visualizing maps. Current research in geospatial humanities focuses largely on the literary findings of geospatial projects, whereas less research focuses on what spatial literary analysis in a digital environment involves and how new modes of carrying out research affect knowledge production and interpretation.

Therefore, this dissertation addresses each of the aforementioned challenges through practical applications, by focusing not only on the literary contributions of geospatial humanities, but also engaging the critical processes involved in this form of digital research. These processes—data modelling, prototyping, and multidisciplinary collaboration—demand a revisit of the ways that knowledge production and analysis are carried out in the humanities. By co-creating three geospatial prototypes, TopoText, TopoText 2.0, and A Map of *Paradise Lost*, this dissertation encompasses the breadth and depth of geospatial humanities, from project conception and theoretical frameworks for spatial inquiry, to data modelling primary materials and process modelling through prototyping. This dissertation also investigates the continuities between traditional forms of humanities research and digital ones by adopting Tim Machan's (1991) Lower and Higher Criticisms that refer to the two modes of literary scholarship. Lower Criticism involves the creation of contextualizing information that provides the foundation for Higher Criticism, which involves literary theory and interpretation; the latter in turn sets the parameters for the former to take place in. Although the methodologies and formats of humanities scholarship have evolved, current research still operates on this cyclical relationship between the two modes of literary scholarship. Examining how Lower and Higher Criticisms can be implemented and interpreted in digital mediums in order to offer new scholarly insights is one of the primary goals of this dissertation. More specifically, this dissertation involves looking at

how digital objects can implement spatial theory and methodologies, and how literary studies approaches such as close reading and literary interpretation can be combined with digital ones such as interactivity, speed, and visualization for spatial literary analysis. Chapters one and two focus specifically on translating a spatial theoretical and methodological framework, geocriticism, into a digital environment, and analyze the research potential, as well as the limitations that a digital geocritical rendering offers. Chapter three examines how rich data for geospatial humanities research can be co-produced through community-university partnerships with a focus on the contribution of literary spatial information to cultural gazetteers by readers using user-friendly devices. Chapters four and five explicitly address the question "why map literature?" by looking at the particular contributions of a geospatial humanities project to literary studies and digital humanities. They demonstrate how a prototype that is fueled by rich data can visualize close readings of texts and make literary arguments.

As a field, geospatial humanities emerged after the spatial turn was adopted by humanities disciplines, and Geographical Information Systems (GIS) and web mapping technologies became more accessible and user-friendly. In order to address the challenges and potential of geospatial humanities for literary studies and digital humanities scholarship, this introduction first examines the technologies that support it, as well as the development of relevant spatial thought, theory, and methodologies (see sections i.i.ii, i.i.iii). In addition, the introduction provides the historical context pertinent to the development of geospatial humanities and defines key terminologies employed in this dissertation in sections i.i.i, i.i.ii, and i.i.iii. The final part of the introduction, section i.i.iv, details the foundational concepts and arguments that drive the rest of the dissertation. Each chapter is accompanied by a conceptual framework that

details the arguments and methodologies employed in that particular chapter and how they relate to the overarching argument.

i.i.i Geographical Information Systems and Web Mapping

Many stakeholders have been involved in the rapid advancement of GIS over the last few decades to make it the ubiquitous technology we can access at our fingertips today. GIS can be broadly defined as a "technological field that incorporates geographical features with tabular data in order to map, analyze, and assess real-world problems" (Dempsey 2019). The history of computational GIS can be traced back to the 1960s when several projects were simultaneously attempting to create a GIS application, perhaps most notable among them the Canada Geographic Information System (CGIS), developed by Roger Tomlinson and an IBM team (Goodchild 2018, 1). This project was initiated by the national and provincial governments of Canada that were conducting a geospatial analysis of the nation's land, includes its uses, conservation, and natural resource management, in order to determine the quality of the land and how it can be better utilized (Goodchild 2018, 2). CGIS relied on slow, simplistic computing environments whose input was provided on punched cards or teletype technology and lacked mass storage, instead using mainframes that employed magnetic tape, with data exchange occurring by shipping these tapes (2). In the decades since these early iterations, GIS technology has advanced drastically. Perhaps the most substantial contributions have been by the US military-industrial complex, an extensive effort that involved government, military, academic, and commercial participation. Together, they pulled resources from photography, satellite programs, and geomapping that still constitute the elements of GIS today (Kaplan 2006, 695). According to Kaplan, in the US, GIS became the "primary model of data collection, sorting, and

storage in use for over thirty years, and the practice of so-called target marketing, a geographically based form of classifying neighborhoods through subsets of demographic information" (694). GIS then was one of the technologies that paved the way for targeted marketing; it also fueled the development of GPS technology for precision in missile guidance (699), giving certain countries military advantages. Since the 60's, universities have also been making strides in the development of GIS technology. In addition to geographers, archaeologists have also made significant contributions to GIS advancements for use in landscape surveys and excavations (Wheatley and Gillings 2002). These developments laid the foundation for the dynamic, integrative digital mapping available today.

With the advancement of the Internet and its move to Web 2.0, another significant development in geospatial efforts was taking place, known as the geospatial web or Geoweb. Traced back to Charles Herring's 1994 work "An Architecture of Cyberspace: Spatialization of the Internet" from the U.S. Army Construction Engineering Research Laboratory for the US Department of Defense (Papadimitriou 2010), the Geoweb can be broadly understood as the organization of spatial data on the Internet. This shift to the Internet, or more specifically, the World Wide Web (WWW), has ushered in similar movements that can be broadly categorized as web mapping that draw on GIS and GPS technologies, and rely on the connection of places with geographical information to be geovisualized—or visualized on a map—in an online environment. Web mapping technologies allow to trace real-time movement on dynamic maps and have made digital mapping significantly more accessible and user-friendly, thereby contributing to the boom of geospatial data and interactive digital maps found on the Internet today. Another contribution of web mapping is the pairing of geospatial data with various forms of media such as text, image, and video; this allows users to create layered, interactive,

multimedia maps, as well as draw on algorithms and rely on data storage to provide an enhanced user experience. Together, these technologies allow users to navigate a neighborhood, detect traffic, trace a flight across the Atlantic, and even track election results in certain countries. Since the spring of 2020, people worldwide have been referring to interactive digital maps such as the Johns Hopkins Centre for Systems Science and Engineering's COVID-19 Dashboard to trace the spread of the Coronavirus Disease (COVID-19).

i.i.ii The Spatial Turn and Maps

Geospatial humanities was preceded by the spatial turn, an intellectual movement in cultural and literary studies, and scholarship more broadly, from which the field derives core spatial theory and methodologies. This section outlines the major historical events that led to the spatial turn that can be traced to the twentieth century. However, the spatial turn does not mark the beginning of the preoccupation of humans with maps and spatial thinking, which have accompanied us for thousands of years, and far predate the invention of the alphabet. Together, this section sheds light on key moments in the development of spatial thought over millennia that can help contextualize the place of geospatial humanities today.

The spatial turn was a culmination of several historical factors. Drawing on Bertrand Westphal's (2011) work, Robert Tally (2013, 12) explains how prevalent Western thought about the progression of humans toward enlightenment in the beginning of the twentieth century was hard to justify in the wake of the massive destructions in the aftermath of WWII (Westphal 2011, 14). This increased scepticism marked a departure from a pre-war history-focused narrative that, according to Soja, was in fact veiling the underlying fragmented spatial realities (Soja 1989, 4). In addition, the war and post-war era witnessed massive displacements of soldiers, exiles,

refugees, and immigrants, made easier with the advancement of transportation technology, which necessarily brought space to the forefront of discourse and made geographical differences ever more visible (Tally 2013, 13). Concurrently, the politics of space was underscored through decolonial efforts, continuing ideological clashes in small communities, as well as the rise of globalization, thereby emphasizing situatedness in space, borders, and civil rights (13-14). The post-war era was followed by several responses that attempted to make sense of the aforementioned challenges, one of which is known as postmodernism that called into question the truths that were considered infallible, and questioned the very quest of attaining truth itself. The movement drew on several influences, including Frederick Nietzsche's tradition of anti-foundationalism and radical scepticism, as well as the works Michel Foucault, Gilles Deleuze, Jacques Derrida, and Jean Francois Lyotard that call into question our place in the world (15). Extending this emerging school of thought into the field of geography and related disciplines are David Harvey, Edward Soja, and John Brian Harley who make more explicit the role of spatiality in the postmodern age and the break away from grand narratives (Jameson 1991, 418; Tally 2013, 15-16). Therefore, according to Tally, "the spatial turn in modern and postmodern literary and criticism is an acknowledgement of the degree to which matters of space, place, and mapping have been underrepresented in the critical literature of the past" (16). The spatial turn was followed by an explosion of spatial theory that calls into question how we see and interpret our world, and an increased application of that lens to study the past. Tally summarizes the spatial turn by characterizing it as "a turn towards the world itself, towards an understanding of our lives as situated in a mobile array of social and spatial relations that, in one way of another, need to be mapped" (16-17). The spatial turn of course does not mark the beginning of the critical awareness of space, nor the first time it played a central role in literary and cultural

studies, since space, in one way or another, has always affected our worldview. As put by Tally, the spatial turn "is best understood as a re-emergence of spatiality in critical thought, for the history of perceptions of space and time from the early modern era to the present reveals a waxing and waning of spatial pre-eminence" (17). To further situate spatial thought and practice today, some definitions and a brief look at the role of maps and cartography in human history is in order.

Defining maps is far from a straightforward practice that also puts into perspective other forms of communication. J.B. Harley (1987) claims that maps are the oldest form of communication and serve as "mediators between an inner mental world and an outer physical world" (1). According to Øyvind Eide (2015), Harley's take on maps consciously expands on more formal definitions that entail the representation of geographical features (15). Maps can range from literal definitions to broader and more abstract ones. These definitions are captured by the Cambridge English Dictionary (CED) that describes maps as: "a drawing of the earth's surface, or part of that surface, showing the shape and position of different countries, political borders, natural features such as rivers and mountains, and artificial features such as roads and buildings"; a more inclusive definition as "a drawing that gives you a particular type of information about a particular area"; and perhaps the broadest definition as "a very simple drawing that shows a direction of travel between one place and another" (CED "Map"). Another significant definition of maps is "something that shows the position of stars in the sky or the features on the surface of planets" (CED "Map"), which refers to constellation maps that are some of the oldest surviving maps. One example is an ivory tablet that was dated 32,500 years, identified by Michael Rappenglueck as a depiction of the constellation of Orion. Based on the notches carved on it, Rappenglueck concluded that it was potentially used as a pregnancy chart

and was meant to estimate a woman's delivery date (Whitehouse 2003). Rappenglueck (1997) has also claimed that the prehistoric paintings of animals in the "Salle des Taureaux" in the cave of Lascaux were painted on top of a group of spots that could be a representation of the Pleiades open cluster of stars. Although eight carbon fourteen datings had been made by the time the article was published in 1997, the exact date of the paintings is still unknown and ranges between 30,000 to 10,000 years, possibly painted around 15,300 BC according to Rappenglueck's calculations (221)

In addition to the depiction of celestial constellations, throughout history, maps have served innumerable purposes for essential human activities. One of the earliest known non-celestial map representations dates to as early as 25000 B.C., located in Pavlov, modern Czech Republic, and depicts landscape map-like representations of mountains, valleys, and rivers, carved on a mammoth tusk (Wolodtschenko and Forner 2007). Several other prehistoric maps are found in parts of modern-day Spain and Turkey (Brahic and Choi 2009; Meece 2006). According to Frederick Kilgour (1998), one of the earliest known maps to be represented in what he claims to be an early form of a book, defined as "a storehouse of human knowledge intended for dissemination in the form of an artifact that is portable—or at least transportable— and that contains arrangements of signs that convey information" (3), in this case a clay tablet, is a depiction of a Sumerian estate, dated to the last quarter of the third millennium (15). The first known urban map, according to Kilgour, is of the Mesopotamian city of Nippur, dating to about 1500 B.C. (15). Kilgour argues that maps were the first nonverbal forms of "writing," and that the depictions of maps were, in fact, "the first major innovation in the book after the invention of writing" (15). We can trace constellation maps and simple maps that show how to get from point A to point B to prehistoric times; however, since the development of the book, we have been

able to see how maps have been depicted and how they evolved by tracing their representation in different mediums from early clay tablets to printed works and now on our digital screens. Although the temporal difference between the earliest known maps and the earliest written languages such as cuneiform script created in Mesopotamia 3500-3000 B.C. is truly astonishing (6), it is unsurprising that maps precede the written language by so much. Taken for their most basic and primary purpose, maps are abstract representations of space that help us navigate our place in the world. Oral languages predate maps but are not always sufficient in navigating space, hence the alternative mediums for representing space, earthly and cosmographic. Additionally, reading maps is far easier than reading language, according to anthropologist Edmund Leach, who states that "the making and reading of two dimensional maps is almost universal among mankind whereas the reading and writing of linear scripts is a special accomplishment associated with a high level of social and technical sophistication" (1976, 51). Maps can be expanded even broader to include indigenous ways of knowing and wayfinding, as well as to metaphorical references such as cognitive mapping; these require a separate address and are not included in this dissertation. Instead, the working definition of maps that this dissertation adopts builds on the one proposed by Eide (2015, 15):

> A map is a document on a flat, curved, or 2 ½ dimensional[1] surface showing the distribution of physical, geographical and other features, with each point in the representation corresponding to an actual geographical position according to a system. The map includes texts to disambiguate the whole map as well as parts of it. The features represented on the map have a certain permanence, and they are represented independent of any particular geometrical point of view.

[1] 2.5 dimensional maps may contain additional information such as height, increased granularity, and other features.

Just as the mediums in which maps have been depicted have evolved, so have maps themselves. For example, Isidore's Etymologiae, published in the first half of the seventh century, depicts the first medieval Christian T-O map that started that tradition. The map illustrates the known inhabited continents, where Europe and Africa appear at the bottom of the circle and Asia appears on the top as the birthplace of Christ and the site of the Garden of Eden. According to John Gilles, this map depicts the etymological root for cartographic "orientation," where Europe is oriented toward Jerusalem, which is in the East or "oriens" in relation to it, in this T-O tradition appearing on top as the moral compass toward which the world is literally orienteering (Gilles 1994, 62). In the medieval Islamic tradition, maps were turned upside down altogether, with a Southern orientation appearing at the top of the map and Northern at the bottom, as depicted in Ibn Hawqal's tenth-century map of the world. In the medieval and early Renaissance cartographic traditions, sea monsters appeared on maps to signify places about which little is known or that have not been explored yet (Van Duzer 2013). In short, there were many cartographic traditions across different cultures and religions, as well as leaps in cartography throughout the centuries. Perhaps one of the most influential developments in cartography is the development of modern cartography that put in motion a series of events that shaped the course of human history. This tradition can be traced to Gerardus Mercator's 1569 "Nova et aucta orbis terrae descriptio ad usum navigantium emendate accomodata," translated from Renaissance Latin as "New and augmented description of the Earth corrected for use in navigation," which denoted the development of the Mercator projection and subsequent shift to modern cartography. The innovation was in his use of rhumb lines in a way that represent sailing courses of constant bearing mapped onto a plane map in straight lines, making true angles with the meridians (Gaspar and Leitão 2014, 1). Mercator himself explains the motivation for this development in

Legend 3 of his 1569 map, where he states that the goal of the map is "to spread on a plane the surface of the sphere in such a way that the positions of places shall correspond on all sides with each other, both in so far as true direction and distance are concerned and as correct longitudes and latitudes," (n.p.) where he also exposes the shortcomings of other projections of his time. This improved and accurate navigation system had serious colonial and imperial ramifications and fueled the "Age of Discovery," which in turn resulted in more detailed maps of previously unknown places for Europeans, thereby diminishing sea monsters in cartography and replacing them with newly mapped and colonized lands across the globe.

The sixteenth century was marked by the explosion of maps. According to Richard W. Unger (2010), in 1400 few Europeans used maps, in the 1500 they were rare objects, by 1600 they became objects of everyday life used by many professions (2). This popularization of maps was largely propagated by the Dutch who published maps freely instead of keeping them secret as had hitherto been the norm, also encouraging other countries to join in disseminating maps throughout Europe for commercial and other purposes. This in turn ushered in the development of local and national maps using improved cartographic systems. In England, for example, the second half of the sixteenth century witnessed the development of a new spatial consciousness that was brought about by the more accurate and detailed atlases of England such as those published by John Speed, as well as the publication of chorographies engaging in the systematic description and mapping of regions and their peoples, including William Camden's *Britannia*, as well as Michael Drayton's *Poly-Olbion*. These publications made a deep impression on theatre and literature of the time such as William Shakespeare and Edmund Spenser's works. All these developments, Richard Helgerson argues, led to the development of a new spatial consciousness and idea of nationhood in England (*Forms of Nationhood* 1992). Chapters four and five of the

dissertation engage with the advancements in early modern spatial thought and their impact on literature in more depth.

i.i.iii The Shift to Geospatial Humanities

The spatial turn gradually made its way into humanities discourse, becoming especially visible in the 1990s. Humanities scholarship at that time became actively engaged in applying a spatial lens to current and past research, and points especially to sixteenth- and seventeenth-century literature for its reflection on the development of a new spatial consciousness (Dunn 2019, 5). This point about the importance of spatial representation in the early modern period will be apparent in chapters three (see 3.2.5 and 3.2.6), four, and five of this work. Providing the context for geospatial humanities, this section explores the interplay between literature and space, and offers key terminology that is employed in the rest of the dissertation. In addition, this section offers examples of digital mapping projects and illustrates the slippery terminology employed in the still nascent field of geospatial humanities.

Literature and geography have long been bound, both in authors' and readers' imaginations, as well as in literary studies. One way to look at this is from the perspective of topophilia. Yi-Fu Tuan (1990) describes topophilia as the "affective bond between people and place or setting" (4); while it is "not the strongest of human emotions," a place that elicits topophilia for a person can "become the carrier of emotionally charged events or perceived as a symbol" (93), ranging from aesthetic pleasure from viewing a landscape to the memories that a home can evoke. According to Gaston Bachelard, places that we feel a connection to or love for, such as our childhood home, occupy a poetic space in our imagination that he also terms topophilia, which refers to the "sorts of space that may be grasped, that may be defended against

adverse forces, the space we love" (1994, xxxv). Bachelard and Tuan's conception of topophilia implies a corporeal element, not unlike the way it was intended in its original meaning when "topophilia" was first coined by W. H. Auden in his introduction to Betjeman's poems *Slick but not Streamlined* in 1947. Auden writes that "nature holds no charms for the average topophil because it is lacking in history" (11), saying that topophilia "will flourish chiefly in the cities where it is possible to walk" (12), a statement reminiscent of Charles Baudelaire's flâneur or casual stroller to the city, but here meaning one that develops a sense of love for specific places. A topophil, according to Auden, would be more likely to say something like "Bury my heart at the corner of West 4th and 6th Avenue" than at some abstracted or never visited place (12). In chapter three of this dissertation, I expand the concept of topophilia to also include fictional places, and contend that literary topophilia and love for fictional places hold a strong presence in readers' imagination. Establishing this connection leads to my primary argument in that chapter that is predicated on the abundancy of open geodata harnessed today through volunteered geographical information (VGI) contributed by people through their mobile phones and other accessible technology. I argue that literary topophilia in readers can be wielded to contribute information about real and fictional places to create rich cultural gazetteers—or spatial indexes—through VGI that can be used for humanities research, since there is scarcely detailed information about literary places that would be useful for humanities research in reusable digital formats today. VGI technologies can be prototyped to be accessible and user-friendly through community-university partnerships and efforts.

Almost any work of literature opens with the description of a setting, some of which become places of literary topophilia in the readers' imagination. Literary topophilia can be evoked by literary works that describe "real" places such as James Joyce's Dublin, Charles

Dickens' London, as well as imaginary ones, such as J. K. Rowling's Hogwarts, J.R.R. Tolkein's Middle Earth, or Jane Austen's Pemberley. Looking at works such as *The Dictionary of Imaginary Places* by Alberto Manguel and Gianni Guadalupi (1999)—a 755-page book that describes thousands of places of literary topophilia—elucidates the strength through which literature is able to conjure places and evoke emotional responses to them that are no less potent than the corporeal ones describes by Tuan and Bachelard. Markedly, these places of literary topophilia are often conjured through reader responses and exist outside of literary studies, although they generate interest for scholars as well. David Cooper, Christopher Donaldson, and Patricia Murrieta-Flores (2016) point to a collection of works titled *Literary Geography* published by William Sharp in the 1903 and 1904 issues of *Pall Mall* magazine that study literary geographies of novels that layer fictional places over real ones in works by Charlotte Brontë, Charles Dickens, George Eliot, William Thackery, and others. Sharp's research also hones in on specific places that have come to occupy readers' literary imagination, such as the English lakes and the river Thames. His research is published with several maps as early investigations of "literary cartographic endeavours" (8). From a literary studies perspective, how can literature and mapping be disconnected, when, as Ricardo Padron puts it, the very process of writing is in itself an act of mapping, where the texts themselves can be considered a form of a map (2007, 258-259)? This dissertation is concerned with the relationship between texts and maps, expressed in maps created from literature to address broad-scope literary questions and deeper, more focused engagements with literary space within the field of geospatial humanities.

Geospatial humanities refers to the application of GIS and other quantitative technologies to the humanistic study of cultural and social patterns in past and present settings (Frank 2016). Another common name for the field is spatial humanities, introduced by David J. Bodenhamer,

John Corrigan, Trevor M. Harris in their foundational work *Spatial Humanities: GIS and the Future of Humanities Scholarship* in 2010. At the same time, though perhaps less commonly used than geospatial humanities, Jen Jack Gieseking (2018) describes the use of GIS in the study of spatial humanities questions within the field of digital humanities as DH GIS (614). The field is sometimes encompassed in the broader term GeoHumanities, an interdisciplinary area of study between the fields of geography and arts and humanities that involves the GIS spectrum of geography, but also extends beyond that to include spatial theory, politics, and practice (GeoHumanities Forum n.d.). GeoHumanities is also the name of the Alliance of Digital Humanities Organizations' (ADHO) Special Interest Group (SIG), which describes itself specifically as a digital humanities approach to spatial and placial perspectives; while these are often GIS-based, they can extend beyond that to other modes of spatial representation and inquiry (GeoHumanities SIG n.d.). For the purpose of this dissertation, I refer to the scholarship herein as geospatial humanities research. This slippery terminology points to a still nascent and rapidly developing field and applies to other core terminology in geospatial humanities and literary spatial studies more broadly. For example, Barbara Piatti (2016) draws on historical works by Sharp (1904) and Robert Siegfried Nagel (1907) to define literary geography, which constitutes the geographical analysis of literary works of the late nineteenth and early twentieth centuries (89), often focused on how literature engages with real places. Literary cartography, she states, is a subfield of literary geography that is concerned with the practice of mapping works of literature (89), thus while "literary geography is a field of study, literary cartography is one of the cardinal interpretive practices of that field" (89). At the same time, Tally's approach to these two terminologies takes a different angle. For Tally (2013, 45), there are two spatialities at work in literature: literary cartography and literary geography. Literary cartography refers to the

world that the author creates. Tally draws a parallel between an author and a mapmaker, stating that like a mapmaker, an author "must survey territory, determining which features of a given landscape to include, to emphasize, or to diminish" (45), including decisions about the landscape, the setting (urban versus country), and all its details and how they wish to represent them. Literary geography, according to Tally, refers to the world that is accessed by the reader, specifically one who is conscious about the spatiality of a text, how it changes over time, and how it affects literature. A literary geographer, then, is concerned with the geographical analysis of a literary work. In this work, I employ Tally's definitions of literary cartography and literary geography, which are expanded in chapter one. Together, the dissertation adopts a literary geography approach to study the spatiality of literary works that can be found in chapters one, four, and five.

Two more terminologies crucial to any literary geography are space and place. For this dissertation, I adopt Tuan's (1979) definition of place, which "incarnates the experiences and aspirations of a people. Place is not only a fact to be explained in the broader frame of space, but also a reality to be clarified and understood from the perspectives of the people who have given it meaning" (387). Tim Cresswell (2015) also highlights the role of context in defining place, which according to him is "how we make the world meaningful and the way we experience the world. Place, at a basic level, is space invested with meaning in the context of power. This process of investing space with meaning happens across the globe at all scales and has been done throughout human history" (19). Investing space with meaning, then, becomes place. According to Tuan (1977), space is a more abstract concept than place; he states that "What begins as undifferentiated space becomes place as we get to know it better and endow it with value" (6). The differentiation between space and place is crucial to geospatial humanities research, because

in order to create meaningful maps and visualizations that can help advance scholarship, or support or refute an argument, maps need to point to more than just a list of places, and need to have contextualizing information to bestow spaces on a map with meaning to make them places of significance.

Geospatial humanities largely involves the geovisualization—or geographic visualization—of literary texts and other cultural materials in a geodata format on an interactive map interface. Geodata at its most basic refers to place names and their geographical coordinates. These coordinates are typically found in digital spatial gazetteers, which can also be thought of as spatial indexes (Mostern and Johnson 2008, 1091). The question then becomes, what can we infer from geovisualizing cultural data? How can we "read" a map? According to Eide, "[t]he map as a document, with its potential for an indefinite number of different reading orders, thus gains all possible views of a certain kind by the radical sacrifice of the richness of any one view, whereas the text gains the richness of a particular view at a particular time by the radical sacrifice of all other possible views" (146). Some digital mapping approaches can take the form of narratives or storylines that can be followed linearly in a rich web mapping context that also supports the inclusion of various media forms. However, more commonly, geospatial humanities projects prioritize a birds-eye view of the map that can be explored or searched in any way at the expense of following a particular predetermined view. Whichever route a geovisualization takes, in order to carry meaning, places that appear on digital maps ought to be accompanied with data that contextualizes them. A point on a map that simply indicates "this is Paris" usually does not mean much and is often insufficient for humanities-based geospatial analysis. Geospatial humanities, then, is invested in creating map visualizations that, as much as possible, attempt to

communicate place rather than space, although the interpretation of "place" in a digital medium varies from one project to the other.

Text-to-map conversions are perhaps one of the most widespread categories of geospatial humanities; they are carried out at the scale of a single work or an entire corpus to geovisualize places in a text on a digital map, often in search of patterns to advance, support, or refute research arguments. The various computational methods employed for text-to-map conversion are the principal concern of this dissertation, for which I designed and co-created several prototypes that put into practice the three primary methods for creating a map from a text: automatic (see chapter one), semi-automatic (see chapter two), and manual (see chapters four and five). First, it can be illustrative to take a look at a few selected geospatial humanities projects in order to demonstrate how they engage with, interpret, and geovisualize maps that are derived from texts. In these examples, I draw on the language provided by the project creators themselves, wherein the slippery terminologies in the field become powerfully apparent. The first example is Authorial London, a "literary geography web application" launched by Stanford University Libraries' Center for Interdisciplinary Digital Research. The project aims to facilitate exploration of place in literature by allowing users to navigate the project corpus through biographical, literary, and geographical perspectives, namely by displaying, mapping, and filtering 193 works by 47 authors who lived in and wrote about London between the fourteenth and twentieth centuries. On the map, three layers are immediately apparent: places that are important for authors who lived in or passed through London in yellow, and places of significance for the characters in their works, visualized in red. Orange represents places that were significant for both authors and their characters. Users can compare different authors: for example, Virginia Woolf's London in her life and writing, versus a foreigner's experience of

London, such as Mark Twain. Through the overlaid historical maps, project creators show a more authentic representation of London that corresponds to the time in which various works were published. Other features include categorizing the language associated with neighborhoods (i.e. what all authors wrote about a certain neighborhood) or all the passages in which a place such as White Chapel or Russell Square is mentioned. According to creators, with Authorial London, users can see the contrasts and continuities across literary traditions written or set in London.

Another project is Novel City Maps, a "text-to-map" project by Jan-Erik Stange that explores new ways of visually representing the construction of fictional and geographical space in literature. Notably, Stange uses what he refers to as a "poetic map" as the map base for Berlin that displays the contours of the areas of Berlin not unlike a subway map instead of an actual GIS visualization of the city. This project demonstrates how geospatial humanities work is not always tied to a GIS map base to communicate a sense of space and place. There are three popular Berlin novels to choose from—*Berlin Alexanderplatz* (1929) by Alfred Döblin, *Alone in Berlin* (1947) by Hans Fallada, and *Berlin Blues* (2004) by Sven Regener—that communicate a distinct view of Berlin at different historical periods. According to Stange, the prototype offers a poetic view of the city that makes a leap in visualization techniques in that it identifies the parts of the text in which place names appear, including their frequency and proximity to each other through vertical and horizontal lines, as well as the passages they appear in, all displayed linearly as they would appear in a book. When a user selects the arrow feature, the visualization becomes animated and morphs from a page-like linear display into a map of Berlin. The places that were displayed on the lines in the first visualization relocate to the corresponding location on the map, illuminating that area of Berlin. By hovering over a place on the map, the passage in which it is

mentioned in the novel appears on the screen. Text and map are directly connected and lend themselves to spatial literary analysis according to author, time, and narration, in the broad context of the many radical social, economic, and political changes and developments the city has been subjected to in the last century. For example, in the map of *Berlin Blues*, two small islands appear in the west Berlin neighborhoods Charlottenburg and Kreuzberg where most of the plot takes place. Since the story is set in the the 1980's when the Berlin Wall was still up, the eastern part is practically nonexistent on this map, not only from actual reach but also in the author's spatial imagination.

The final example and one that is closest to the prototype I created for chapters four and five is the Mapping Dante: A Study of Places in the Commedia project, described as an experiment in "geo-criticism and literary mapping" developed in the Price Lab for Digital Humanities at the University of Pennsylvania. Mapping Dante is a project that studies Dante's geographical imagination in the *Divine Comedy*. Project creators argue that the construction of fictional places is just one aspect of Dante's geographical imagination. The path through Inferno, Purgatory, and Paradise is full of precise references to actual terrestrial places. Since Hell, Purgatory, and Paradise themselves cannot be incorporated into modern cartography like they would be on prehistoric maps, the creators argue that the study of real place references are worth exploring on their own merit, therefore the interactive maps geovisualize places such as cities, town, regions, mountains, rivers, lakes, and seas that Dante refers to in the *Divine Comedy*. In chapters four and five, I similarly contend that there is much to learn about John Milton's spatial project by focusing on the terrestrial places in *Paradise Lost* and present a project that geovisualizes the epic poem on a multilayered digital map.

The aforementioned geospatial humanities projects allow scholars to trace the movement of authors and characters, explore their significance by referring back to the texts, and search for meaningful patterns in literary works. Although the three examples represent a small sample of the hundreds of projects that exist today, they demonstrate three key elements that can be applied, in various combinations, to almost all geospatial humanities projects: geospatial projects are fueled by *data*, they are *prototyped*, often through *collaborative efforts*. Publications on geospatial projects primarily focus on humanities research questions that a geospatial approach helps clarify; however, digital spatial research is a fairly new practice and scholarly discourse has yet to focus on the type of knowledge created by conducting spatial analysis through its means. At the core of this type of spatial analysis are data modelling, prototyping, and collaborating—significant and critical research processes that sit at the heart of this dissertation and form the backbone of the field of geospatial humanities.

i.i.iv Criticism, Modelling, and Prototyping

Today's data economy fuels our understanding of our world, the universe, the past, and is used to speculate about our future. Data are also the building blocks of most digital humanities research projects, including those in geospatial humanities. However, data does not exist in nature and needs to be "collected," "entered," "stored," "processed," "mined," and "interpreted," which constitutes one of the most laborious, time-consuming, and expensive tasks of building a digital project (Gitelman and Jackson 2013, 3). Although data is considered a fairly contemporary concept, in fact the word "data" started being used in the English language in the seventeenth century and is "tightly linked to the development of modern concepts of knowledge and argumentation" (Rosenberg 2013, 15). According to Rosenberg, the word "data" is the plural

of the Latin *datum*, meaning to give or given (18). The word was naturalized in English in the eighteenth century, when it began to occupy a meaning that "was most commonly used to refer to facts in evidence determined by experiment, experience, or collection," and therefore acquired a meaning that is linked to information, often in numerical form (33). Although the nineteenth century saw some latency in the use of "data," employed more commonly in specialized contexts rather than in general culture (34), it is not till the twentieth century that the term becomes ubiquitous and acquires its contemporary meaning of "that which is given prior to an argument" (36), meaning that "[a]s a consequence, the meaning of data must always shift with argumentative strategy and context—and with the history of both" (36). Whereas the eighteenth century meaning of data refers to the result of an investigation or argument, the contemporary meaning holds data as the premise of it.

While these definitions construe the etymology of "data" and its applications in the English language, they of course do not denote the origins of data collection. Widespread practices such as censuses can be thought of as forms of data collection, of which the earliest is estimated to date back to 3800 BCE in the Babylonian Empire and involve counting livestock and food storage (Thorvaldsen 2017). In fact, data collection and interpretation far predate the invention of the printing press, computing, and the Internet, even if they occurred under different names. What have drastically evolved are the methods through which these data gathering practices have been taking place, which have progressed alongside leaps in technology for centuries.

Literary studies relies on methods such as close reading, analysis, and interpretation, and is concerned with applying theoretical lenses and finding textual evidence to support or refute claims. At a glance, it may seem like the shift to embrace digital methods has replaced these

approaches with data collection, visualization, and analysis. However, in what follows, I draw on literature to demonstrate how at the core, the two modes of carrying out literary research are actually quite similar. In his foundational work, Tim Machan (1991) differentiates between two critical categories in literary studies: Lower Criticism and Higher Criticism. Lower Criticism refers to the establishment of contexts, whether literary, social, or cultural, which incorporate biography, bibliography, and textual studies (4). According to Machan, Lower Criticism is considered "as the more factual or 'scientific': it provides numerical, analytical, and categorical information which is used to define historical realities—that which was said, or written, or done" (4). Higher Criticism, on the other hand, refers to literary interpretation or literary theory (4). The two are inevitably interrelated, since Lower Criticism provides the information that feeds Higher Criticism, and from which it can draw interpretations. Machan describes this relationship as "without the traditional Lower Criticism's construction of texts, for instance, there can be no focus for the theorizing of the Higher Criticism, just as without the traditional Higher Criticism's interpretation of texts there can be no contexts within which the Lower Criticism can identify facts" (7).

Machan's categories readily apply to the type of work taking place in digital humanities today. The modern meaning of data is "information, especially facts or numbers, collected to be examined and considered and used to help decision-making, or information in an electronic form that can be stored and used by a computer" (Cambridge English Dictionary). In the context of literary studies that adopts digital humanities approaches, data in the form of enriched datasets that fuel digital humanities projects is a form of Lower Criticism that Higher Criticism draws on for interpretation. Lower Criticism, according to Machan, provides information to define historical realities, which "of course, may be refined or even redefined, but that they are

realities—of texts or lives—is the hermeneutic essence of the Lower Criticism as it is commonly practiced and more commonly perceived" (4). Like data, Lower Criticism is meant to provide factual, objective, and neutral information. This objectivity is, of course, called into question, bearing on increasing research that points to the deceptive quality of modern conceptions of objectivity. For Machan, the perspective of a discipline shapes the discipline, and the observer "always has an influence on the nature of what is being observed" (6). This also applies to the earlier definition of data as objective, where Gitelman and Jackson (2013) remind us that "[w]hen we put our own critical perspectives into historical perspective, we quickly find that there is no stance detached from history, which is to say there is no persistently objective view" (4). What counts as Lower Criticism and Higher Criticism is constantly in flux, and criticism of course depends on the type of evidence it analyzes and vice versa. Machan encourages scholars to keep an open mind about the forms that they can take, "Since interpretive codes determine the nature of the evidence to be interpreted, more inclusive codes, which define the evidence more broadly and which are self-conscious about the ways in which they shape the evidence, would thus seem to be desirable" (14). Although the form and format of Lower Criticism has shifted from traditional print works to datasets, there is a continuity between the practices of literary studies and digital humanities, with the goal still being to combine Lower and Higher Criticism for the literary interpretation of primary materials through evidence-based approaches. In 2002, Ray Siemens put Machan and John B. Smith into a productive dialogue and drew parallels between Machan's Higher and Lower Criticisms and Smith's computing applications for literary studies (2002, 259). These computing applications can be divided into two categories based on their outcomes, one being "in which the computer was used to produce through textual manipulation conventional aids for future research (dictionaries, concordances, etc.)," and the

second being "those in which the computer was used in the actual analysis of specific works of literature (thematic analyses, stylistic studies, etc.)" (Smith 1978, 13). Therefore, Machan's Lower and Higher Criticisms point to a larger set of literary studies practices that are readily translated into digital approaches. The three prototypes that I engage in this dissertation—TopoText, TopoText 2.0, and A Map of *Paradise Lost*, bring together Lower Criticism and Higher Criticism through data modelling and prototyping within the framework of select spatial theories and methodologies that are applied to literary works. Modelling and prototyping have both been employed in the digital humanities as a means of knowledge production and method for investigating research questions, not unlike scholarly writing; in what follows, these processes and their relationship to each other are explained to provide a solid foundation for the chapters to follow, especially chapters one, two, and five. In *Humanities Computing* (2005), Willard McCarty defines modelling as "*the heuristic process of constructing and manipulating models*; a 'model' I take to be either *a representation of something for purposes of study*, or *a design for realizing something new*" (24; emphasis original). Drawing on Clifford Geertz's (1973) work, McCarty elaborates on the distinction between the two types of modelling by differentiating "between a denotative 'model *of*', such as a grammar describing the features of a language, and an exemplary 'model *for*', such as an architectural plan" (24; emphasis original). Another helpful distinction between the two is offered by Harvey Quamen (2012), who describes a 'model of' being for representation and a 'model for' being for design (n.p.).

Modelling functions differently from writing as a tool for scholarly investigation because of its ability for rapid manipulation. McCarty emphasizes this distinction by stating that since models are so easy to tinker with, it creates an ongoing engagement with the object of study, which can in turn undermine the authority of the resulting product unlike writing that can be

completed and published in its final form (2008, 254). Indeed, this contrast between print and digital is widely felt in the digital humanities world. Patrick Sahle (2016) emphasizes this contrast when differentiating between digital and print editions, explaining that the digital medium undermines the authoritative, final reading of a work since it can be published iteratively rather than finally as a print edition, and in theory can always be a changing document. According to Sahle, this affects the status of a digital edition, which can be seen as "a process rather than a product" (n.p.). Section 5.3.3 in chapter five delves into the differences between print and digital editions, and argues that the fluidity of the digital medium allows to amalgamate several literary genres and produce hybrid digital objects. By looking at A Map of *Paradise Lost*, a text-to-map project that geovisualizes terrestrial locations in Milton's *Paradise Lost* alongside passages from the text and editorial context, it proposes a new genre for this type of work that could be categorized as a geo-edition of a literary text. In addition, looking at digital editions as processes rather than products creates a rhetorical shift in knowledge "away from the monumental toward the conversational" (McCarty 2008, 258). For McCarty, models are less important than modelling; he states that "the word '*computing' is a participle*—a verbal adjective that turns things into algorithmic performances" (2008, 254-55). The switch to the participle emphasizes the role of process in digital humanities research and involves a shift in the way we approach knowledge production altogether, a way of thinking that forms the basis of this dissertation that largely focuses on the processes involved in building geospatial projects, including modelling, prototyping, and collaborating.

Modelling falls into three main categories: analytical, synthetic, and improvisational. According to McCarty (2008), analytical modelling is imitative; synthetic modelling is using tools to investigate, compare, or experiment with objects of study; and improvisational modelling

works with what is given to fill blanks or the move toward the unknown (256-57). The type of modelling that is most relevant to this dissertation is synthetic modelling, which involves "Strong factual or factoidal constraints [that] govern what the user (or, more accurately, usermaker) can do, but mechanisms for conjectural play embed standard ways of reasoning from the given to the doorstep of argument. Progress here hinges on tools for bridging, on-the-fly, manipulatory possibilities to software options" (256). This category includes databases, archives, historical reconstructions in AR and VR, and tools that allow to manipulate materials and encourage the move from an idea, or hunch, to an argument. One of the primary differences between modelling and writing is that the rapid manipulation of research materials in digital environments has converted the role of the audience from "end-users" to "end-makers" (255), especially when it comes to synthetic modelling where end-makers employ a tool or digital method to manipulate objects and interpret results.

Although the distinctions between the types of modelling are helpful for research purposes, they are also often blurry. It can be especially difficult to differentiate between synthetic and imaginative modelling because we cannot always predict what the modelling process yields, since it facilitates "computational ability to implement the conjectural, that is, to construct possible worlds and explore them" (McCarty 2008, 259). This imaginative capacity evokes Jerome McGann's call for scholars "to imagine what we don't know" through practical experimentation (1997, n.p.). McGann demonstrates how this imaginative work can be carried out in a research environment through a series of performative applications to images in the Rosetti Archive whereby he applies deformances to the color palette of images in the archive to learn whether they yield any significant observations. The logic of this approach is that, if it were known what the design process would yield, then what would be the purpose of creating it in the

first place? Secondly, it makes clear the shortcomings of the design, which opens the stage for iterative prototyping in order to address the shortcomings of the first version. McGann refers to the latter as "the praxis of theory," namely, "the process of imagining what you know, testing it, scaling it up, modifying it, and then re-imagining it; and then the process of repeating that process in an indefinite series of iterations" (n.p.). Ruecker (2015) also highlights the iterative nature of prototypes and their significant potential for interpretation (5). Predicting the result of such a performative approach is difficult; it could yield nothing. However, it could also enable possibilities beyond that, such as facilitating new research questions. What if this type of experimentation not only allows to ask new questions, but also to answer them, and in answering them, provide new insights? In doing so, imagining beyond imagination can contribute to the discipline by allowing to ask and answer new questions, and providing a framework that moves beyond the original parameters of inquiry. This sentiment is echoed by McGann (1997), who talks about the critical opportunities that can be gained from experimentations such as deformances. He states "I have no idea what its outcome will be. Perhaps it will give us some new views of the intellectual organization or stylistic conventions of Symbolist art, perhaps not. Perhaps it will suggest other critical moves that might be facilitated by computerization" (n.p.). In some cases, it can facilitate Higher Criticism.

Useful distinctions are also made between various types of prototypes in the digital humanities, although like with modelling, the differences between them can be blurry. Ruecker (2015) provides a taxonomy for prototypes based on their intention: experimental, production-driven, and provocative. The prototypes addressed in this dissertation can be most productively categorized as experimental, created primarily "to address a research question, typically by deliberately embodying some aspect of the problem so that it lends itself to closer inspection,

understanding, and in some cases, testing" (Ruecker 2015, 2). In this sense, experimental prototypes are meant as a way of "thinking about a question — much as writing is a way of thinking about questions in literary studies" (3). While experimental prototypes are in a different category from product-driven ones that are intended to be used, the line between them is blurry. This is apparent in all three prototypes described in this dissertation, which were not primarily designed with the intention of being used. However, since both iterations of TopoText have functioning features that are beneficial for research to a broad audience and are published in open source, they have been and continue to be applied in research and pedagogical settings, while serving their primary function of thinking about and embodying research problems.

Another practice that can be placed alongside modelling and prototyping is critical making. According to Matt Ratto (2011), critical making "signals a desire to theoretically and pragmatically connect two modes of engagement with the world that are often held separate—critical thinking, typically understood as conceptually and linguistically based, and physical 'making,' goal-based material work" (253). Critical making then, like modelling and prototyping, is used "to provide the means for conceptual exploration" (253) through material fabrication. Therefore, modelling, experimental prototyping, and critical making can be placed alongside each other as practices through which theories, concepts, or problems can be explored and studied. They all emphasize process, but each of them has a different stopping point and means of realizing its goal. Drawing on the definitions provided earlier, then, models are used for the purposes of investigating, comparing, or experimenting with objects of study, either by creating representations of or designs for that object. The models themselves do not have to be functional, and can be used as ways of expanding knowledge about an object of study. Experimental prototypes are also meant to study or address research questions "by deliberately

embodying some aspect of the problem so that it lends itself to closer inspection, understanding, and in some cases, testing" (Ruecker 2015, 2). The act of "embodying" an aspect of a problem is where prototyping conceptually departs from modelling, in that a prototype can be thought of as a manifestation of a model, with an emphasis on process and functionality, one that is achieved through building or prototyping that often takes place in multidisciplinary groups. Although the resulting experimental prototype does not necessarily need to be completely polished or fully functional (that category is reserved for product-driven prototypes), it should have some operational functions that grant a better understanding of the object of study. Critical making shares similar initial stages with both processes; it is also a model that is meant to expand our knowledge about an object of study or be used for conceptual exploration through a process-driven approach. Ratto describes the initial stages of critical making as "the review of relevant literature and compilation of useful concepts and theories" that can be "metaphorically 'mapped' to material prototypes, and explored through fabrication" (253). The sequence here is not unlike that of prototyping, in that it moves from a concept or object of study to an execution through making; Ratto describes this stage as "groups of scholars, students, and/or stakeholders jointly design and build technical prototypes" (253). Where critical making departs from prototyping is that the critical making prototypes are necessarily fabricated, material, real-world objects, whereas experimental prototypes can remain in a digital format as software or other forms digital objects. In both experimental prototyping and critical making, the emphasis is on the shared process of creating an object as a means to some other end rather than the object serving as an end in itself. However, a distinction that is worth mentioning is that the products of critical making "are not intended to be displayed and to speak for themselves" and can only be fully understood when taking into account the entire critical making process (253). That said, some

prototypes can stand as contributions to knowledge in themselves by embodying the theoretical framework or object of study that they advance, so much so that Galey and Ruecker argue that they ought to be peer reviewed in their own right and provide criteria for this in "How a Prototype Argues" (2010) that is detailed in chapter one.

Together, this dissertation draws on modelling and prototyping to engage with the theoretical and methodological frameworks that it studies in a multidisciplinary context, including geocriticism (see chapters one and two), community-driven cultural gazetteers (see chapter three), and text-to-map geovisualizations (see chapters one, two, four and five), among others. Instead of exploring these frameworks in writing alone, the dissertation also studies them through the process of building or prototyping, thereby manifesting the theoretical and methodological in the digital objects themselves. Another way of understanding the functions of modelling and prototyping is through the methodological commons, an intellectual and disciplinary map of the digital humanities (then called humanities computing) proposed by McCarty and Harold Short (2006), an example of which is depicted in Figure 6. One interpretation of the methodological commons is offered by Anderson, Blanke, and Dunn (2010), who explain the commons as clouds of disciplinary knowledge from within and without the humanities with which arts and humanities scholars engage to carry out digital humanities scholarship. Drawing on McCarty and Short, they explain how in the methodological commons, mutual shaping takes place between different disciplines, the materials that inform interpretation and analysis, the methods and tools that are applied to these materials, as well as the epistemological approaches that allow to understand the different elements of the commons and how they interact with each other. Together, authors argue that the methodological commons is "the space where interventions occur in the practices of knowledge creation that have the

potential to provide new insights, and to lead to new [ ]research practices" (3782-83). Siemens (2016) focuses this interpretation of modelling and prototyping by stating that the two core practices of digital humanists are "data and data structures modelling core materials," and "tools modelling formal methods" which sit at the centre of the methodological commons around which disciplinary groups and practices converge (n.p.). According to Siemens, this multidisciplinary interaction is based around "modeled data derived from analog and other sources, and modeled process which we prototype in tools that enact our analytical and other methods on that data" (n.p.). In addition to modelling and prototyping, chapter two of this dissertation explicitly addresses what a multidisciplinary convergence around these shared practices involves. The chapter argues that in order for a multidisciplinary collaboration to be beneficial for all team members, they ought to have shared research objectives, while making contributions to their individual fields. Arriving at these shared practices of modelling and prototyping involves actively working toward a shared understanding of the goals, methodologies, and terminologies involved. Complicating this further, chapter five engages a geospatial prototype that includes an open-source social annotation function of the dataset that informs the project, which moves it beyond the confines of a methodological commons that typically entails a controlled group of collaborators and opens up the application of the digital object to new materials and contexts, thereby potentially yielding findings beyond what we can imagine.

This dissertation captures the multidisciplinary collaborative convergence of teams that engage in data modelling of literary texts and process modelling of spatial methodologies for geospatial humanities research. The first prototype is TopoText, an open source digital mapping tool that automatically creates maps from texts and collocates places and words. Meant as a macro-reading approach to mapping, it converts texts into maps that can be geovisualized to

trace patterns and make spatial arguments; the embedded concordance tool with a function that allows to search by place facilitates the move between close reading of the text and distant 'reading' of the map. TopoText 2.0 is the second iteration that, in addition to the features in the first version, also carries out semi-automatic data creation that facilitates human correction of mismatched data. This iteration also serves as an open geodata generator that allows for the dataset to be exported and reused on other platforms. The final prototype, A Map of *Paradise Lost*, is a deep dive into the literary geography of John Milton's *Paradise Lost* and can be thought of as a geo-edition that visualizes a close reading of the epic poem to trace whether and how Milton creates a moral geography. The project is an example of a manual data creation approach and also serves as an exploratory tool to study the rich spatial project of *Paradise Lost*.

The shift to the digital medium in literary spatial analysis has necessitated a shift in the type and format of information that Lower Criticism supplies to fuel research endeavours, from print information such as textual criticism, indexes, biographies, and bibliographies, to data and datasets. Engaging this shift are three interventions—TopoText, TopoText 2.0, and A Map of *Paradise Lost*—experimental prototypes manifest in models that combine Lower Criticism by executing the three primary modes of data creation (automatic, semi-automatic, and manual), and Higher Criticism by drawing on theoretical frameworks, to situate and expand them. In doing so, the aim of each prototype is threefold: to embody an aspect of a particular theoretical framework through experimental prototyping in order to study, understand, and test it. Another aim is to enable spatial data modelling of literary works that end-makers can manipulate to facilitate richer literary spatial analysis and interpretation, or Higher Criticism. Finally, the prototypes aim to engage what we do not know through iterative performative applications or the praxis of theory that deform texts into maps and datasets, and yield results beyond what we can accurately

predict, which in turn could facilitate new scholarly insights and set new directions for our research fields.

i.ii A Portfolio Dissertation Model: The Humanities Dissertation in the 21st Century[2]

i.ii.i Introduction

An integral part of humanities disciplines, doctoral programs are designed to reflect the scholarly landscape and prepare candidates for the type of work they will be expected to carry out upon graduation. The dissertation—the *sine qua non* of the humanities doctoral program—is intended to produce scholarship that emulates the values of academia. Today, the humanities dissertation primarily follows the monograph model that culminates five or more single-authored chapters, ideally to be submitted as a book proposal in the subsequent stages of an academic career. The format of the dissertation has largely withstood the changes in the scholarly landscape over the past few decades and the ever more robust integration of digital scholarship into the doctoral dissertation and training. While the monograph dissertation model is still effective for preparing graduate students for an academic career trajectory, it less readily applies to doctoral work that includes digital components, primarily because the workflow required for a monograph dissertation does not integrate neatly with the fast-paced, collaborative, interactive nature of the type of digital intellectual work in which graduate students are increasingly engaged.

Despite the change in the medium and methods for carrying out scholarship, a majority of English departments today still default to the monograph model. This necessarily raises the

[2] This section reprints, with minor revisions, the following article: Randa El Khatib, "The Digital Dissertation and the Humanities Today." In Digital Doctorates [essay cluster] by Randa El Khatib, Reese Alexandra Irwin, Caroline Winter, and Michelle Levy, *Digital Studies/Le champ numérique* 11, no 1 (April 2021), n.p., http://doi.org/10.16995/dscn.380.

following questions: are the expectations of graduate students entering the academic profession and engaging with digital intellectual work today still the same as they were of graduate students a decade, two, and even three ago? Should their training and dissertation follow the same format as those graduate students engaged in non-digital work? What does the monograph prove about its author? What academic values ought to be emulated in the dissertation's format? And finally — when the pace, scope, and type of research that the digital medium facilitates have changed from those in the pre-digital age, as well as the very means and methodologies that underlie them, does it still make sense to default to the pre-digital dissertation model?

Reflecting on the structure and goals of the doctoral dissertation as a dynamic form of knowledge production and means of scholarly communication that is representative of its scholarly landscape ought to be an essential and iterative practice of the academy, and their results iteratively implemented as we move forward. In this article, I describe what the digital dissertation is and how it can reflect the type of environments that digital humanists are already engaged in—ones that value collaboration, access, and dynamicity. Drawing on the portfolio dissertation more common in the sciences and social sciences, I discuss how this model has been adapted for my doctoral dissertation carried out in the English Department at the University of Victoria (UVic). To be clear, this article does not argue against the monograph model, which has been and continues to be successful for many graduate students who engage in digital work or other work—rather, it prompts us to consider alternative models that can be more formally implemented alongside the monograph model instead of emphatically defaulting to a one size fits all monograph dissertation.

i.ii.ii Digital Humanities Values

The turn of the decade marked a substantial debate about what digital humanities (DH) is, carried out by scholars such as Burdick et al. (2012), Kirschenbaum (2012), and Rockwell (2011), among others. Rather than reopening the definition debate about DH, one way of discerning what the DH scholarly landscape looks like today is to identify what some its defining qualities, or values, are across its many branches, highlighted by scholars including Risam (2014), Robertson (2016), and many others; these are 1) DH is collaborative: reflecting its interdisciplinary nature, most DH work is carried out collaboratively. In doing so, DH is challenging the concept of the siloed researcher and values social, interdisciplinary, collaborative scholarship. 2) DH is open: DH largely values the "open" movement, most regularly expressed through the dissemination of open access and open source resources. A considerable number of DH journals, websites, projects, and tools are available under Creative Commons and other open licenses, and many tools are published in open source. 3) DH is dynamic: DH is a fast-paced field that involves experimenting with novel forms of scholarly research and communication. The type, scope, and format of research are quickly evolving with the ever-changing methodologies, tools, and platforms. These prevailing qualities or values of DH point to a different research workflow from non-DH knowledge production processes that happen on the ground and encourage a revisit of the current dissertation model.

With the emergence of DH and new forms of digital scholarly communication, formal scholarly bodies in the humanities are starting to recognize alternative dissertation formats. For example, the Modern Language Association's (MLA) former president Russell Berman has called to reform doctoral education, detailed in Huffpost's "Reforming Doctoral Study: Shaping a Better Future for Humanities Ph.Ds" (Starkman 2013); MLA Commons' Literary Studies in the

Digital Age: An Evolving Anthology has also published an article by Jojo Karlin (2019) titled "Our Digital Literary Legacy: Producing and Preserving Digital Dissertations in English" that makes a case for digital dissertations. The American Historical Association's (AHA) guidelines for "Professional Evaluation of Digital Projects in History" and MLA's "Guidelines for Evaluating Work in Digital Humanities and Digital Media" both recognize digital work as part of the academic conversation and robust scholarly output. In Celeste Sharpe's interview with AHA Today, AHA's newsletter, Kritika Agarwal refers to Sharpe's dissertation "A History Dissertation Goes Digital" (2017) as exemplary scholarship in the field—a piece that reflects a positive reception of digital scholarship by AHA. Other similar examples exist, but they are far from the norm.

In a digital dissertation, the digital component comprises a significant part of the intellectual work of the dissertation—it informs its argument either through the theoretical framework, methodology, or some other significant aspect integral to the original contribution that the dissertation makes. A dissertation that simply has a digital component for the purpose of visualizing or elaborating part of its content is not a 'digital dissertation.' Digital dissertations do not adhere to any specific format; some combine the monograph model with a digital project and put them in conversation with each other, while others adopt digital intellectual work more fully. Around the mid-2010's mark, digital dissertations started gaining some traction, with DH becoming more widely practiced. An example of a successful digital dissertation is Amanda Visconti's, "How Can You Love a Work If You Don't Know It?: Critical Code and Design Towards Participatory Digital Editions," (2015) carried out at the University of Maryland. This dissertation is in the form of a whitepaper that reports on the process of building and the findings of her platform "Infinite Ulysses" (Visconti 2014), an open access, participatory, social digital

edition of James Joyce's Ulysses, where members of the public were invited to highlight, annotate, and tag different parts of the work, together meant to serve as an experiment in a community reading of Ulysses. Another example is Erin Glass's open dissertation or #SocialDiss from CUNY titled "Software of the Oppressed: Reprogramming the Invisible Discipline" (2017). This work is written in an open access platform that invited members of the public to give feedback on the different components of Glass's dissertation, after which that feedback was drawn into the revision process. Perhaps not surprisingly, the two examples involve a social element, and at the time of development, were open access, interactive, expanding platforms—reflecting the qualities of DH research identified earlier.

i.ii.iii The Portfolio Dissertation Model and Program Requirements

Non-monograph-style dissertations are still more common outside of the humanities. In a study by Bonnie Fong (2017) on the predominant format of dissertations in roughly ten departments in each of the sciences (chemistry departments), social sciences (political sciences) and humanities (English departments), Fong found that although the sciences still accepted monograph-style dissertations, they seemed to prefer portfolio dissertations—namely dissertations made up of multiple articles that are published in reputable journals in the field. Notably, multi-authored articles were admissible. In the social sciences, portfolio dissertations are also widely acceptable, but single-authored works are preferred, since they reflect the predominant trend of publication in the field. Finally, Fong observed that traditional monographs are still the mainstream format in the humanities, and, whereas accompanying digital components are starting to become accepted in some universities in recent years, departments encourage students to hold off on publishing their research until after completion. Despite the small sample used for the study, it does

commend the wider acceptance of the portfolio dissertation model in the sciences and social sciences than in the humanities.

Most universities will have different program requirements for the dissertation. Portfolio dissertations are admissible at UVic; in fact, the university does not specify the format for the dissertation, and rather states that it "must embody original work and constitute a significant contribution to knowledge" and "[m]aterial embodied in the dissertation should, in the opinion of scholars in the field, merit publication" (UVic 2019). The guidelines do not specify that publication must take place after defense, but rather that "the dissertation may include materials already published by the candidate, whether alone or in conjunction with others." Published, multi-authored works are accepted as part of a dissertation, but multi-authored publications must be accompanied with "a description of the student's contribution to the research and the student's role in each publication must be provided." This document typically outlines the exact role of the graduate student in the publication(s) and is approved by all co-authors before the defense date. However, the program requirements make it clear that the student is responsible for the entire content of the dissertation at the oral defense, including "portions of co-authored papers which comprise the dissertation." What is reinforced in this model is that rigorous academic standards concerning the dissertation's contribution to the field and quality of work are upheld and are measured by whether they "merit publication"; in the case of pre-published works then, they *demonstrate* that they merit publication.

i.ii.iv Building Digital Literary Geographies: Modelling and Prototyping as Modes of Inquiry

Modelled after a portfolio dissertation, my dissertation comprises six peer reviewed articles or book chapters that have been published or are currently awaiting publication. Publication venues

are directed at audiences interested in DH, early modern studies, scholarly communication, or a combination of the three. The dissertation proper draws all the materials together through a theoretical framework, argument, and connecting pieces between each part, that, together, meet the length and criteria of a dissertation according to the aforementioned UVic requirements for a doctoral dissertation, where the overarching argument "[is] the intellectual and conceptual glue that holds the (port)folio together" (Walker 1998, 94). The dissertation is also accompanied by three prototypes that I describe below. In what follows, I give an overview of my dissertation, explain why I chose the portfolio dissertation format, and provide more pragmatic details about the process of writing a portfolio dissertation and the role of my committee.

"Building Digital Literary Geographies: Modelling and Prototyping as Modes of Inquiry" is my digital dissertation that approaches the full scope of geospatial humanities, a subfield of DH that marries literary spatial analysis and GIS technology. While many existing geospatial humanities projects exist, they primarily focus on the literary, spatial aspects of the research. My dissertation acknowledges that geospatial humanities projects are rarely solely literature and location focused: they often involve building and running software in collaborative, multidisciplinary environments. Together, my dissertation asks "why map literary texts?" in each aspect of this multidisciplinary endeavour and explores this question by building various prototypes to visualize literary space at a distant, large scale level and at a closer, multilayered, rich level. By drawing on geospatial methodologies, software prototyping, and early modern literature, the dissertation essentially argues for the validity of prototyping as a research methodology for scholarly inquiry into literary spatial representation, as well as for developing enhanced models for interdisciplinary collaboration and data visualization.

The dissertation itself consists of three main, interrelated components. The first focuses on geospatial humanities and literature, explores how rendering elements of a research framework such as geocriticism—a term introduced by Westphal (2011) that refers to a multifocal, geocentered approach to analyzing literary space—into concrete functionalities of a digital tool can help study the literary space of a text and explore the affordances and limitations of the research approach itself (here referring to geocriticism). The prototype we built—TopoText—is a response to Westphal and Tally's speculation that geocritical research will necessarily involve collaborative work using digital means in order to analyze corpora of texts organized around spatial criteria (Tally 2013, 143). This part of the dissertation draws on my role as the project lead and manager of two software prototypes—TopoText (2015) and TopoText 2.0 (2016)—that were developed through an interdisciplinary collaboration with the Computer Science department at the American University of Beirut (AUB). Available in open source on GitHub, these tools perform "text to map" conversion; users can simply upload a text, and TopoText automatically extracts all the place names that are mentioned in the text and visualizes them on a map. TopoText also supports word-place collocation that allows users to trace most frequent topics in selected passages or across the entire text. For example, a user can explore what the most frequent words collocated with Vancouver are in a text. They can also select a part of speech to collocate with a place, such as the most frequent nouns or verbs collocated with Vancouver. This type of collocation can help track themes and patterns of words related to place names across an author's career or by multiple authors in a specific year, for instance. The second version (TopoText 2.0) has some additional features; the prototype allows users to export the geoparsed data (geoparsing refers to identifying place names in a text and linking them to their geographic coordinates) produced from the text-to-map conversion and reuse it on other

platforms. It also provides an option to correct mismatched geographical points; for example, if the geoparsing linked Vancouver with the city in British Columbia, Canada, but in fact the author intended Vancouver, Washington in the US, the user can easily correct this information in the dataset. This version of TopoText also allows for the inclusion of text annotations in the dataset that can be visualized on the map. Together, the second prototype is a more accurate mapping tool and an open geodata provider. In this part of the dissertation, I address the questions: how can a geospatial prototype integrate the elements of a research approach, such as geocritcism, to analyze spatial representation in texts? What are the affordances and limitations of automatic and semi-automatic geoparsing techniques? And: how can a literary map advance our understanding of the spatial project of an author? As open source tools, TopoText and TopoText 2.0 have been applied in multiple DH classes and workshops, including the Digital Humanities Summer Institute, the European Summer University in Digital Humanities, and term-long DH courses at AUB. A study using TopoText 2.0 was also implemented in Thomas Baur's (University of Cologne) double major Bachelor thesis in Information Processing and Geography, titled "The Use of Geographic Information Systems in the Humanities (Spatial Humanities). Problems and Limitations of GIS: A Research Experiment with TopoText 2.0." (2018), which led to Baur's current MA project to start developing a plan for a third, web-based iteration of TopoText (2020).

The second component has to do with research prototyping, and addresses collaborative prototyping in the humanities and across the disciplines. In this section, I explore what it means to build prototypes for humanities research, how prototyping can serve as a method for exploring research questions, and what multidisciplinary collaboration with software developers and computer scientists entails. Some questions I address are: what forged vocabularies do

collaborators coming from different fields need to share in order to effectively communicate? How do we ensure that collaborators coming from different disciplines are making contributions to their field while still sharing overarching project goals?

Rather than taking a broad-scope text-to-map approach like TopoText, the final component offers a deep dive into the spatiality of a single text—John Milton's *Paradise Lost*. Written in the seventeenth century, a time that witnessed many leaps in cartography, Milton draws on texts, but also on maps in order to build his intricate spatial project. A Map of *Paradise Lost*, co-created with Marcel Schaeben from the University of Cologne, is an exploratory map, or geo-edition, that offers a visual entry point into the complex and multitemporal terrestrial space of John Milton's epic poem. The project is an interactive digital map that includes locatable place-name references, the passage in which a place name appears, editorial context that explains the significance of a place, and an experimental visualization of a close reading (in this case, to test the hypothesis that Milton gives 'moral' connotations to places in *Paradise Lost*, such as associating places around the Mediterranean basin occupied by the Ottoman Empire with pagan worshipers and those mentioned in the Bible with holy deities or muses), all against a backdrop of the historical and biblical maps that inspired Milton's spatial imagination when writing *Paradise Lost*. In this part of the dissertation, I address the questions: what can a digital geo-edition tell us about a literary work? How can mapping a literary text advance our knowledge of the text and how does it contribute to DH scholarship? How can prototyping in collaborative teams enhance models for interdisciplinary collaboration? And: how can we productively merge GIS-based scholarly inquiry and early modern spatial thought?

One of the defining features of the digital is that its infrastructure, methods, and tools are rapidly evolving; many digital resources become outdated, are superseded with more advanced

methodologies, make leaps, or take falls. Digital work makes its biggest impact when shared, engaged with, integrated, and built-upon in a timely manner. Taking the monograph route in this case would require writing a book-length work and creating all three prototypes before searching for a publication venue for the research—whether in the form of a monograph or a series of articles. This delay in publishing research that is engaging with the rapidly developing GIS methodologies and their application in the humanities will risk missing the metaphorical train, and render the work meant for timely scholarly contribution obsolete, or at best, substandard. At the same time, publishing research and projects as they are conceptualized and carried out allows others to engage with the materials and provide feedback. This is especially useful in research prototyping work, which is based on iterative development, where new versions build more advanced prototypes based on previous ones, such as in the case of TopoText 2.0 that builds on TopoText. Another option for still producing this type of work would be to write a monograph dissertation, while at the same time building prototypes and publishing separate articles about them, since prototypes do not yet stand as contributions to knowledge in themselves, despite efforts by scholars such as Alan Galey and Stan Rucker (2010) and others. Although this route is possible, it is an unnecessarily labour-intensive model that does not fit within the timeline of a doctoral program, which involves other elements such as coursework, comprehensive exams, teaching, participating in conferences, holding research assistantships, publishing, and preparing for the job market, to name a few.

By publishing the dissertation as I go, my dissertation committee, comprised of Ray Siemens (UVic English; academic advisor), Stephen Ross (UVic English), Jonathan Bengtson (UVic Libraries), and David Wrisley (NYU Abu Dhabi Arts & Humanities) take on a similar role to peer reviewers of an article or book chapter. Each piece that is submitted for publication

is also submitted to the dissertation committee that provides feedback on the work. When revising the work, I integrate the feedback of reviewers and committee members, and turn it around until I receive approval for publication from both parties. This has been a successful approach for me since my committee is involved in the entirety of the process; the feedback I receive along the way helps shape each article and build a stronger foundation for the work to follow. This approach also means that once an article has moved into the copyediting phase, my committee has signed off on it and I can work on integrating that piece into the larger overarching framework of the dissertation. In each publication, the prototype and content inform each other and, together, attempt to expand our understanding of the various processes involved in building geospatial humanities projects and the type of knowledge they produce.

In addition to researching and writing, my dissertation involves international interdisciplinary collaborations with multiple research groups and scholars with whom we built the aforementioned prototypes. This is reflected in the dissertation proper, where some of the articles are co-authored to reflect the team that was involved in building the prototype and contributing to the related publication; in these cases, I appear as first author to reflect my role as project manager and lead author, alongside my collaborators. All publications (except for one book chapter) are available in open access, and the prototypes are shared in open source, inviting others to engage with our research. The skills developed from this dissertation overlap with those produced from the monograph dissertation in that both are concerned with producing quality research that provides new insights into the fields it relates to, which is communicated through scholarly publications. However, the digital dissertation also simulates the real-life settings digital humanists often find themselves working in, namely in interdisciplinary, collaborative

environments that involve developing a digital component, such as a methodology, prototype, platform, or edition, most likely to be shared as an open access or open source project.

i.ii.v Conclusion

Many arguments are made about the importance of training humanities graduate students to work in collaborative teams and acquire digital skills in order to prepare them for alt- and non-academic jobs that many may end up pursuing. However, this type of training is also necessary to prepare students for academic work that is already happening in the humanities: increasingly more projects require multidisciplinary teams to carry out research and produce public-facing platforms that showcase research findings. This article does not argue that the monograph dissertation model ought to be abandoned, nor that DH research cannot be communicated through a monograph. On the contrary, countless excellent examples of monograph dissertations and books on DH exist and continue to be published every day. Instead, this article argues that rather than defaulting to the monograph dissertation model, other means of knowledge production and academic workflows that are already happening in the field ought to be recognized and offered as an option for graduate students. One of these models is the digital dissertation that can take many different forms, where the digital aspect is integral to the scholarly contribution of the work. My interpretation of the digital dissertation takes on the portfolio model—a series of published articles and prototypes developed with multidisciplinary teams. The dissertation is not just a 'portfolio' of related works but is developed with an overarching argument across each of its components and is reflective of the environment in which it evolved, which is collaborative, open, and dynamic. Although this publication is meant to showcase just one take on the digital dissertation, it also demonstrates that alternative forms to

the monograph model exist, and that there can be a more direct continuation between the work that many graduate students are engaged in and the type of scholarship they are expected to produce.

Chapter One: Collocating Places and Words with TopoText

1.1 Conceptual Framework

The first chapter engages TopoText, an open-source experimental prototype that carries out automatic text-to-map conversions and word-place collocations. TopoText combines Lower and Higher Criticisms to embody an aspect of a theoretical framework to study it. More specifically, TopoText is a digital rendering of geocriticism, a method of literary analysis and literary theory that studies geographic space, carried out through a set of critical practices (Westphal 2011). Geocriticism, then, is both the framework that informs the prototype—its Higher Criticism—through which literary texts are interpreted by the prototype, and the theoretical framework that the prototype embodies in order to "lend[ ] itself to closer inspection, understanding, and in some cases, testing" (Ruecker 2015, 2). At the same time, TopoText carries out Lower Criticism through automatic geodata creation from inputted texts and their collocation with words from which spatial interpretations can be drawn. These two processes are interrelated and co-dependent for meaning making, brought together in the digital object of the prototype itself.

Drawing on the overarching argument of the dissertation provided in the introduction, the goal of this chapter and prototype is threefold: to translate a geocritical framework into concrete digital functionalities through the process of prototyping and reflect on the type of knowledge that is produced through this proof-of-concept, hands-on experimentation. The second is to facilitate geodata creation and text-to-map conversions that would enable end-makers to carry out their own literary geography on texts of their choosing. In the chapter, I apply a literary geography approach to select nineteenth-century English literary texts in order to demonstrate the type of literary analysis that TopoText facilitates and its shortcomings. This brings me to the third goal of this chapter, which puts into practice McGann's (1997) praxis of theory (n.p.)

where, based on the teams' reflections on how TopoText embodies the goals we had originally set, concrete points of improvement are identified and prototyped into the second iteration that the chapter concludes with and that is the main topic of chapter two. Together, the prototype is gauged on how it captures and embodies Higher Criticism—geocriticism in this case—and the effectiveness of the data model by looking at how TopoText creates data and taking into consideration factors such as accuracy of matched geodata, access to the dataset, and the type of literary analysis it facilitates.

This chapter argues that a geocritical methodology can be process modelled into a digital object that carries out a multifocal and geocentred approach. Doing this automatically results in a macro-reading equivalent with maps, namely that the speed and scope through which texts are converted to maps allows for corpora of texts to be quickly converted and geovisualized, and for places to be collocated with words. Analyzing word-place collocations can point to patterns that can be extrapolated and searched more in-depth by referring to the text. In turn, I argue that automatic data creation and text-to-map conversions are not yet advanced enough to create meaningful and accurate maps with rich data that can help support or refute humanities research questions. To do so would require a combination of mapping and close reading, which is why TopoText has an embedded concordance tool that can be searched by places mentioned in a text. Converting a geocritical methodology into a digital process involves designing under constraint, which necessarily means that not all the complexities of a theory or methodology can be captured. At the same time, it means that through the speed of automation, the scope of works that can be analyzed drastically increases. Finally, I argue that for prototypes that involve data creation in the humanities, access to those datasets is necessary in order to enrich, correct, and expand them before they can be considered reliable Lower Criticism materials that can inform

humanities research. Using digital tools to help with the data creation process in ways that are reliable and allow for the dataset to be corrected and enriched is a first step in making datasets resources that can inform literary interpretation or Higher Criticism. Therefore, the chapter concludes by ushering a shift away from black-boxed tools toward accessible, semi-automated data creation tools that allow for human corrections and contributions to the dataset.

Building an experimental prototype from a method of literary analysis and literary theory—for geocriticism is both—involves identifying what components of that approach will be converted into the digital object in order to be studied. Moving from the conceptual to the concrete evokes McCarty's (2008) deliberations on how switching into a programming environment "involves a trade-off between what the medium can do and what we can envision doing" (254), a process that McCarty draws from William Wulf's (2000) concept of "design under constraint" (254; Wulf 2000, n.p.). These constraints require working through the defining components of geocriticism to identify which ones can be prototyped into TopoText. Geocriticism's three theoretical underpinnings are spatiotemporality, transgressivity, and referentiality. The two main elements of a geocritical approach are geocentrality and multifocality.

In his call for a spatiotemporal geocritical approach in which space and time share a common plan (52), Westphal (2011) insists that such research would necessarily have to be interdisciplinary, stating that one field alone would not be equipped to analyze both time and space (30-31). Geospatial humanities projects are by definition interdisciplinary, since at the most basic they combine humanities approaches with digital representation. However, displaying both space and time on a digital map presents a major challenge for the field. Some geospatial projects tackle the issue of representing space and time by including a timeline on a map, such as

The Atlas of Early Printing. Others attempt to capture some temporal element by using historical maps to convey a historical period, including Authorial London, as well as A Map of *Paradise Lost* detailed in chapters four and five. Spatiotemporality could be satisfied through an interdisciplinary approach that brings together literature and geography according to Westphal, who cites Franco Moretti's *Atlas of the European Novel* (1997) as one such example. The third prototype, A Map of *Paradise Lost*, is fueled by a rich dataset that also visualizes the literary context in which a place name is mentioned, its significance to the epic poem—whether poetic, historical, biblical—as well as several other elements that all layer places with meaning that moves that project closer to one that embeds spatiotemporality within the prototype itself. For TopoText, an automatic text-to-map converter and word-place collocator, a spatiotemporal element is harder to satisfy within the prototype itself. However, a spatiotemporal approach can be carried out if TopoText is applied to texts and accompanied with a historiographical analysis not unlike that provided in Moretti's work (1997).

Transgressivity for Westphal can only be understood alongside heterogeneity of space. He draws on Henri Lefebvre's (1991) *Production of Space* to explain this concept, who states that "[j]ust as white light, though uniform in appearance may be broken down into a spectrum, space likewise decomposes when subjected to analysis; in the case of space, however, the knowledge to be derived from analysis extends to the recognition of conflicts internal to what on the surface appears homogenous and coherent" (Lefebvre 54; Westphal 38). Heterogeneous and socially open space, according to Westphal (2011), is imposed by transgressivity, which signifies movement, crossing of boundary lines (42), and dynamic representations of space (46). Transgressivity then, "imposes heterogeneity, along with polychrony (the combination of different temporalities) and polytopy (the composition of different spatialities). Polytopy is space

understood in its plurality" (43). All postmodern formulations of space, according to Westphal, are characterized by heterogeneity (46), making the task of geocriticism "to map possible worlds, to create plural and paradoxical maps, because it embraces space in its mobile heterogeneity" (73). In many ways, this is what the increased accessibility of GIS and Geoweb technologies have made possible. Chapter three demonstrates how digital mapping technologies are being applied for social justice purposes to rewrite oppressive histories, redraw borders, and retell local narratives. Visualizing multiplicity on a single digital or analog map, however, poses a challenge that is addressed in the opening of Mark Monmonier's book (1991) wherein he states that "[n]ot only is it easy to lie with maps, it's essential. To portray meaningful relationships for a complex, three-dimensional world on a flat sheet of paper or a video screen, a map must distort reality…There's no escape from the cartographic paradox: to present a useful and truthful picture, an accurate map must tell white lies" (1). Although digital mapping technologies can be used to create countless maps that can demonstrate the heterogeneity of places in multiple ways using a variety of mixed-method approaches, a single map cannot hold too many representations of space if it wants to be readable, let alone meaningful.

Referentiality explores the mimetic relationship of fiction to the real world. Here, Westphal draws on several theorists to illustrate the evolving discourse in spatial theory with respect to representation, and the relationship between real and fictional space. Representation involves the "translation of a source into a derivative—the source is sometimes the "real" (the world), and the derivative is "fictional" (the mental image, the simulacrum)," which sustains comparison since it connects two or more instances (75). Furthermore, Westphal turns to Lefebvre's (1991) triad spatial model that categorizes space according to three modalities of representation: perceived space, conceived space, and lived space. Westphal defines perceived

space as a concrete practice of space that is the most straightforward “in that people manage to walk down the street without bumping into walls” (2011, 76). The others are more elusive; conceived space “is a place for the practices of social and political power; in essence, it is these spaces that are designed to manipulate those who exist within them" (Lefebvre 1991, 222), which is the space for urban planners and mapmakers. Lived space, perhaps the most elusive and ambiguous, refers to a space of subjectivity and human experiences (Watkins 2005), of people’s sense-making, imagination, and feeling—that is, their local knowledge—of the organisational space as they encounter it” (Zhang 2006, 221) to which Westphal (2011, 76) prescribes cultural views of space and works of artistic creation.

Representation of place in fictional works in the context of referentiality can be categorized in several ways. Westphal draws on Jean Roudaut (1990), whose conceptualization of poetic work invites a passage from real to imaginary space; poetic work then gives birth or being by naming and describing places (Westphal 2011, 84). Westphal quotes Roudaut directly to support this point, who argues that “the real city, [ ] is a crossroads of discourse. Thus, it is a theater of memory. It is through language that we must restore it, reinvent it.” (Roudaut 1990, 166)—a practice that Westphal argues has been taking place since the dawn of time, beginning with practices such as storytelling and more recently, literature (2011, 84). One way of categorizing fictional places is drawn from Earl Miner’s (1990) distinctions of common place, which has no reference to the real world at all; proper place, which refers to an existing location; and improper place, which refers to a known place that is metaphorical, citing examples such as heaven and hell (Westphal 2011, 101). Another model of categorization is drawn from Lennard Davis’ (1987) three types of fictional places, divided according to actual place, such as Victoria BC; fictitious place, such as Jane Austen’s Pemberley, and renamed place, such as “F. Scott

Fitzgerald's East Egg or West Egg (fictional names for real places in Long Island, New York)" (Westphal 2011, 101). The literary geography that TopoText supports is between Miner's proper place and Davis' actual place, since other categorizations of space escape the confines of GIS and Geoweb representation, although they become increasingly more relevant in chapters four and five. Referentiality in the context of this dissertation evokes a comparison not just between real and fictional places, but also their representation on a digital map.

Building on the theoretical foundations described above, Westphal identifies the central components of a geocritical methodology: multifocality and geocentrality. According to Westphal, geocriticism is an interdisciplinary spatial methodology and theoretical framework that approaches the study of place in texts from a multifocal and geocentred perspective to gain a better understanding of it, whether that place is real or fictional (2011, 114). By "multifocal," Westphal argues that a place ought to be studied from more than one perspective or dimension, or through its representation across different genres such as literary texts, newspapers, historical texts, and travel brochures. A "geocentred" perspective means studying a place from numerous subjective perspectives where the place is the central topic of inquiry in order to gain a richer literary or historical comprehension of it, rather than approaching the inquiry through a more traditional egocentric perspective where the person or character are the subject (Westphal 2011, 111). In the final stretch of his book, Westphal speculates about the future of geocriticism, arguing that geocritical research will necessarily be digital and collaborative to carry out a truly multifocal research that can look at tens, hundreds, maybe even thousands of works. Taking up Westphal's speculation about the future of geocriticism, TopoText translates a geocritical methodology into a digital prototype built to carry out a multifocal and geocentral approach through concrete digital functionalities.

TopoText carries out a functionality that is at the heart of most geospatial humanities projects: transforming texts into GIS-readable data that can be visualized on a map interface, also known as text-to-map conversion. To do this, the text has to be geoparsed, a term that refers to identifying and extracting unambiguous place names in a text and matching them with their corresponding geographical coordinates in order to geovisualize them. This stage is perhaps the most tedious, time-consuming, but crucial ones in creating maps from texts: it is what builds the foundation for all the work to follow. Geoparsing extracts places that are usually found in unstructured data, meaning that the information does not exist in a data model or structure that is organized according to any predefined categories, but rather appears in free form such as a text file. As mentioned in the introduction, GIS technologies operate using tabular data, meaning that data needs to be structured in rows and columns. For geographical datasets to be visualized on a GIS platform, it must include at least two columns: geographical information about a place, typically expressed using the decimal system, specifically the longitude and latitude of place, usually accompanied at least one more column for the place name itself. Geoparsing can take different forms, ranging from automatic, semi-automatic, to manual, carried out using different types of approaches, from automatic tools for geoparsing like TopoText, to data creation using hand-held devices, annotation tools, geoparsing in coding environments, and others. In this chapter, I pursue automatic geoparsing through TopoText, which identifies places in a text, matches them with their geographical coordinates, and places them on a map; the technologies that it draws on to do this are detailed in the chapter.

Text-to-map conversions invite several modes of interpretation. Shifting from one media form to another—in this case from a textual to a visual map-base form—involves the process of transmediation (Eide 2015, 146). In addition, geovisualization of a text involves the critical

interpretive act of deformance. According to Lisa Samuels and Jerome McGann (1999), deforming a text can facilitate the development of knowledge and result in novel readings since the text is morphed and studied in new ways. In this context, the act of deformance involves moving from a linear, text-based medium to non-linear, map-based visualizations. What is at play in transmediating a text into a map is also converting literary cartography—the world created by the author—into literary geography, where readers can reimagine and rebuild the original world created by the author in new ways. According to Tally, literary geography morphs the reader into "a kind of geographer who actively interprets the literary map in such a way as to present new, hitherto unforeseen mappings" (Tally 2012, 79). With the process of geovisualization, actual new maps are created in earnest that can facilitate literary interpretation. Therefore, through the process of mapping a literary text, the literary cartography of the author is deformed in order to create a critical interpretation of a novel's spatiality through the lens of literary geography.

In order to understand the context for TopoText, in what follows I situate the prototype alongside other methodologies and tools that carry out text-to-map conversation with corpus linguistics for word-place collocations and put them into conversation with each other. Geographical Textual Analysis (GTA) broadly refers to a macro-reading approach that applies Natural Language Processing (NLP), corpus linguistics, and GIS techniques for the spatial analysis of large corpora of texts (Murrieta-Flores et al, 2015; Gregory et al. 2019). The main idea behind GTA is that through the combination of mapping and text analysis at the macro-level, some general patterns can be identified that warrant a closer look at the text in order to explain them (Gregory et al. 2019). GTA applications have been applied to study the spatiality in the Registrar-General's Reports (Gregory et al. 2015; Murrieta-Flores et al. 2015). One of these

approaches is encapsulated by Patricia Murrieta-Flores et al. (2015) in the Geographic Collocates Tool (GCT). At the time of writing this section, I located the GCT code in open source on GitHub, but I was unable to launch the interface itself to test the tool. Based on the descriptions of Murrieta-Flores et al. (2015), however, some overlaps and differences between GCT and TopoText can be deduced. GCT employs NLP and corpus linguistics in order to search the proximity of place names to themes or keywords. The tool reads a corpus of texts with places that have already been annotated with XML tags (either automatically or manually) that can be searched for up to six words or topics and converts this into a GIS-readable file—meaning that it carries out the act of geocoding by linking places to their geographical coordinates—and calculates the textual proximity of those places to the words or topics searched for (6-7). In their study, Murrieta-Flores et al. are specifically interested in the proximity of place names to diseases. The proximity, like in TopoText, is determined by the user, such as selecting five words to the side of each word. Ultimately, the word-place collocations in GCT are searched for the proximity of places to the key words such as the names of diseases in order to detect if they are interconnected. GCT and TopoText were created around the same time and carry out similar functions in that they identify and map place names and collocate them with certain words. There are some differences, however. GCT requires users to add text in which places have already been tagged, which involves a whole additional step, and perhaps one of the more difficult ones to carry out. TopoText, on the other hand, geoparses the whole text automatically using the Stanford NER tagger that then links unambiguous place names with corresponding geographical coordinates, which makes it more user friendly. In another study, Miguel Won, Murrieta-Flores, and Bruno Martins (2018) evaluate NER tools for their accuracy in identifying place names in historical corpora and find that the Stanford NER tagger consistently outscores other NER tools

such as the Edinburgh Geoparser and the NER-Tagger. What TopoText gains in speed through automatic geoparsing, GCT may gain in accuracy if the places are manually marked up, at the cost of labour and time involved in such an endeavour. The latter manual approach is carried out in chapters four and five.

GCT performs collocations and more in-depth forms of corpus linguistics through a variety of in-built text analysis tools, whereas TopoText identifies place names and generates word-place collocations that help identify trends and themes which can be faceted according to parts-of-speech using the Stanford POS Tagger. Another difference between the two is that GCT is subject-centred whereas TopoText is geocentred. This means that in the former, the focus is on keywords and whether place names are mentioned in proximity to specific word clusters, whereas the latter adopts a geocentred approach where places are first identified, and subjects are searched by whether they collocate or trend in relation to those places. Collocations can be searched either in proximity to a specific place in a passage or that place across the entire novel (e.g. most frequent nouns used in proximity to "London" in a single paragraph of Charles Dickens' (1838) *Oliver Twist*, or across the entire novel). Both tools are concerned with identifying and interpreting patterns, which require consulting the text to explain them.

This oscillation between macro- and micro-readings to conduct a literary geography points to one of the major challenges of geospatial humanities: while quantitative approaches are helpful for identifying spatial patterns in texts, they are unable to explain the significance of these patterns. Hastings, Gregory, and Atkinson (2015) address this issue by proposing a methodology called Place-based Reading (PCR) that can be used in conjunction with quantitative approaches in order to contextualize the data (129). They carry out this methodology by using a "detailed list of place-names and an evolving range of keywords…to identify relevant articles

from a very large corpus of newspapers, [which] allowed us to shed some light on the different patterns of mortality decline" (138). PCR is useful for identifying patterns in large corpora; in the context of TopoText, a prototype that performs most optimally at the scale of an individual work at a time, another approach is modelled. Namely, TopoText employs corpus analysis through an in-built concordance tool that allows users to search the text by place names to carry out micro-readings of the text alongside word-place collocations and the maps themselves. By moving between the two modes of reading, micro- and macro-reading, TopoText facilitates text-to-map conversion, collocation analysis for the identification of patterns, and close reading techniques in the concordance tool. Therefore, it models another mode of carrying out GTA, while also offering a different interpretation of PCR, all carried out within the same environment. The prototype was designed with accessibility and usability in mind; it is published in open source on GitHub and can be used by entry-level digital literary geographers.

Several other tools also create GIS readable data from texts. Two are already detailed in the chapter: Geocode by Awesome Table and Edinburgh Geoparser. The former is an add-on in Google Sheets that carries out geocoding in a user-friendly environment; like GCT, it does not identify places in unstructured text. Edinburgh Geoparser is a sophisticated geoparsing tool that requires a steeper learning curve but yields more accurate results. Another tool is Text Map Text (2018) created by Bill Pascoe, Jack Newley, and Dan Price. Text Map Text is a tool that geoparses places in plain and marked up texts, and draws connections between places and texts. The primary difference between TopoText and Text Map Text is that the latter is web-based, while TopoText is standalone. TopoText allows for end-makers to upload their own texts, whereas Text Map Text currently only works with their sample texts. The developers have shared statistics reporting the success of the parsing, sitting at around a 50% success rate for the

works they have tested themselves (Text Map Text 2018). The low success rate is not surprising because the geoparsing is carried out automatically, a problem that is addressed below and at length in the chapter itself.

TopoText was prototyped at a time when scholars were interested in creating automatic ways of carrying out text-to-map conversions. In addition to carrying out this conversion, TopoText is an experimental prototype that explicitly embodies a geocritical approach in a digital medium in order to better understand and test it, thereby combining Higher Criticism, which is geocriticism itself, and Lower Criticism, by creating the data that fuels the maps and creates word-place collocations which inform the geocritical interpretation. Geocriticism is realized through a multifocal and geocentred approach that is demonstrated through an application of TopoText to literary works in the chapter itself. A digital geocriticism, then, allows end-makers to create their own maps and collocations in a matter of minutes, facilitating a literary geography in a far quicker way than reading would permit, giving it the advantage of scope and speed. Current data creation techniques, however, not just in geospatial humanities, but in digital humanities more broadly, are not yet advanced enough to automatically create meaningful, rich datasets, and require the consultation of primary texts and other materials to build deeper arguments and connections, or the creation of rich datasets through manual and semi-automated approaches.

In addition, measuring whether the resulting prototype embodies what it was originally set out to do proves a difficult, if not impossible task, since there is no theory that can reliably tell us if that embodiment was successful, a situation that McCarty (2008, 254) refers to as "software crisis" in which he believes that we still find ourselves. Drawing on McCarty (2008), then, much is indeed lost in translation, and the complexity of geocriticism was stripped to the

core of aspects of a geocritical approach that were translated into functionalities, whereas the theoretical foundations of geocriticism, including spatiotemporailty, transgressivity, and referentiality were much more difficult to reduce to a digital functionality and embed within the prototype itself. Together, these findings make TopoText an exploratory prototype that can be easily used to search for patterns and themes related to places through macro-reading approaches, but less suitable for a more in-depth, meaningful visualization on a map itself where the map embodies an argument. Another shortcoming is in the data modelling structure, which is black boxed. Since TopoText employs an automatic method for geoparsing, it can often result in mismatches due to a place name referring to more than one location, the inability to identify a place name or mistaking peoples' names for places, and other reasons detailed in the chapter. Because the data cannot be accessed, it is impossible to find and correct mismatches, making this version of TopoText a suitable entry-level prototype for exploring the literary geography of texts rather than one that can perform rigorous academic scholarship by itself, not unlike Pascoe et al.'s observations about Text Map Text. Building on Rucker's (2015) idea of iterative prototyping as a way of learning and improving on the digital object, and McGann's (1997) praxis of theory, the next chapter details the second iteration of TopoText that revisits and corrects the model that informs TopoText to create datasets that can be accessed, corrected, and exported to be used on other GIS and Geoweb platforms.

1.2 Collocating Places and Words with TopoText[3]

1.2.1 Introduction

The software prototype presented in this article—TopoText[4]—is an attempt at translating an interdisciplinary spatial methodology, geocriticism, into concrete digital functionalities through critical interpretation processes. By transmediating[5] spatial content expressed in textual form into GIS-based visualizations in the form of digital maps, the digital artifact functions as a prism through which the text can be deformed in order to give rise to novel interpretations.[6] At the same time, a second transmediation occurs by translating literary cartographies created by authors into visual literary geographies created by readers through a combination of text analysis, natural language processing, and digital mapping. Within the framework of prototyping as theory, the findings of TopoText are meant to carry out geocriticism's central aim: to facilitate a deeper engagement with the spatiality of a text through a placial focus.[7] This article details the prototyping process of TopoText, provides examples of how it can be applied to the study of literary space, and reports on how some functionalities were enhanced in the second version—TopoText 2.0.

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[3] This section reprints the following article: Randa El Khatib, "Collocating Places and Words with TopoText," in *Social Knowledge Creation in the Humanities 2*, ed. Aaron Mauro (Toronto: Iter Press and Arizona Center for Medieval and Renaissance Studies, forthcoming).

[4] The collaboration on TopoText (https://github.com/rkhatib/topotext) was initiated at the American University of Beirut (AUB) by David Wrisley (English Department), Wassim El-Hajj, and Shady Elbassuoni (Computer Science Department). The prototype was designed by Randa El Khatib and coded by Julia El Zini, with Bilal Abi Farraj, Houda Nasser, Shadia Barada, and Yasmin Kadah in Mohammad Jaber's Software Engineering class.

[5] The process of shifting from one medium to another. On transmediation, see Eide 2015, 146.

[6] On deformance, see Samuels and McGann 1999.

[7] See Hardy 2000, 85.

1.2.2 Geocriticism

Geocriticism—a term first coined by Bertrand Westphal (2011)—is an interdisciplinary approach to the study of literature that includes a spatial or geographical dimension. A geocritical approach adopts a multifocal and geocentred perspective to explore the significance of a place, whether real or fictional (Westphal 2011, 114). That place can therefore be viewed from more than one dimension or perspective, or as represented in a variety of genres such as travel brochures, historical texts, newspapers, or literary works. Geocriticism combines numerous subjective representations of a central placial focus in order to gain a richer historical or literary comprehension of the place in question. By doing so, the methodology encourages a geocentric focus on the place of scholarly inquiry rather than a more traditional egocentric approach that prioritizes the subject (the person or character) in the text (Westphal 2011, 111).

Elaborating on the conceptual difference between space and place is Yi-Fu Tuan, who argues that place not only signifies a unit of location within the larger frame of space, but also "a reality to be clarified and understood from the perspectives of the people who have given it meaning" (Tuan 1979, 387). By extending the focus beyond the name of the place to the different meanings given to it through textual narratives, the digital geocritical methodology outlined in this paper accommodates both placial and spatial explorations.

TopoText draws inspiration from Westphal, who argues that a multifocal approach would require working with many texts simultaneously—meaning that a branch of geocritical research would necessarily be both digital and collaborative. Building on this notion, TopoText explores the broader concept of geocriticism through a collaborative prototyping process, and embodies concrete elements of the methodology in its functionalities. Engaging with georiticism is also Robert Tally, who argues that there are two kinds of spatialities in a literary work—literary

cartography and literary geography. He explains literary cartography by drawing a parallel between the act of writing and the act of mapping: “Like the mapmaker, the writer must survey territory, determining which features of a given landscape to include, to emphasize, or to diminish” (Tally 2012, 45). From this perspective, writers act as mapmakers in creating a fictional world of their choosing, selecting what elements of that world they want to represent in their writing. Literary geography is what is at play at the receiving end of the spectrum. It refers to the reader who focuses on the spatiality of a text by being conscious of how spatial configurations change over time and how this affects literature, keeping in mind that space is a formation of history, “and the history of spatial formation often overlaps with the history of narrative forms” (Tally 2012, 80). While literary geography offers a way to explore texts from a spatial perspective, digital mapping probes the forms it can take and offers a visual entry point through a cartographic medium.

1.2.3 Theoretical Framework

The concept of prototyping employed in this article conceives of a digital prototype as a theory and of prototyping as a thought experiment to advance our understanding of a scholarly topic. Stephen Ramsay and Geoffrey Rockwell explain “theory” from a humanities perspective as that which “promises deeper understanding of something already given, like historical events of a literary work. To say that software is a theory is to say that digital works convey knowledge the way a theory does, in this more general sense” (Ramsay and Rockwell 2012, 77). The authors draw a parallel between the process of prototyping and the act of writing, arguing that the decisive feature classifying scholarship as such is whether the work proves to be a worthwhile or insightful intervention in the field rather than the particular medium in which it is presented,

which has traditionally been expressed in textual form. A similar perspective on prototyping in the digital humanities is proposed by Alan Galey and Stan Ruecker, who lay the foundation for a more formal acknowledgement of prototypes as original contributions to knowledge in themselves. They propose various criteria by which to peer review a prototype, singling out that, like effective academic writing, it ought to be "contestable, defensible, and substantive," and elaborate on how each of these applies within a prototyping framework (Galey and Ruecker 2010, 412).[8] The process of designing a digital artifact, according to the authors, could simultaneously be used for critical interpretation.

Digital prototypes can, more generally, offer novel frameworks for interpreting works. A second way of conceiving of digital artifacts as theories, according to Ramsay and Rockwell, is by approaching them as "hermeneutical instruments through which we can interpret other phenomena. Digital artifacts, like tools, could then be considered as 'telescopes for the mind' that show us something in a new light" (Ramsay and Rockwell 2012, 79). Drawing on Christian Bök's interpretation of Alfred Jarry's concept of pataphysics, Ramsey describes pataphysics as "the apotheosis of perspectivism—a mode, not of inquiry, but of being, which refuses to see the relativity of perspective as a barrier to knowledge" (Ramsay 2011, 21). He continues building on Bök's work, specifically Bök's interpretation of Paul Feyerabend's anarchic science—"that, however obsolete or indiscrete any theory might at first appear, every theory has the potential to improve knowledge in some way" (as cited in Bök 2002, 25). This notion rests on the premise of the article: that digital research prototypes can function as thought experiments that advance knowledge, not unlike scholarly writing.

[8] Terminology adopted from Booth, Colomb, and Williams 2008, on the components of a good thesis.

The aforementioned framework also suggests that prototypes can serve as a way of altering the form of a work in order to look at it from different angles, evoking Lisa Samuels and Jerome McGann's notion of deformance (1999).[9] Deformance facilitates a critical interpretive act and can give rise to novel meanings that may have remained unseen in the original form of the text. Switching to a GIS-based interpretation of literary spatiality is an attempt to play on this uncanny representation of literary place in order to create novel forms of knowledge production and interpretation. In literary geography, "the critical reader becomes a kind of geographer who actively interprets the literary map in such a way as to present new, hitherto unforeseen mappings" (Tally 2012, 79). Actually mapping these literary places is its own manifestation of literary geography that reconstructs the literary cartography of the author in an altered, or deformed, manner.

1.2.4 TopoText

TopoText was created through collaboration between the English and Computer Science departments at the American University of Beirut (AUB) in an undergraduate Software Engineering course. The collaboration was initiated as a pedagogical experiment in order to facilitate communication between humanities and computer science students, and to provide opportunities for student-led digital humanities tool development that would have immediate practical application in the field. The development of TopoText was carried out by providing several teams of four or five students with identical lists of potential functionalities of a geoparsing and text analysis software prototype. Based on this information and some guidance,

[9] See Travis 2016 for a description of the application of deformance in a mapping context.

each team developed their own version of the prototype, after which the most utile in terms of functionality and research potential was selected for application in a literary context.

The software prototype was built by remixing features of open-source tools. After inputting a text in plain text (.txt) format, TopoText matches all unambiguous place names with geographical coordinates and displays them on a map interface using the Stanford Named Entity Recognition (NER) Tagger. Matching is carried out using the Google Maps Platform and placed onto a Google Maps Engine basemap. Coordinated with the map are text analysis and concordance tools that display the context in which the place names occur and allow manipulation of the content for analysis (see Figure 1). Manipulation of text is carried out by collocating place-name occurrences and words that appear around them using Wordle (Feinberg 2014). Users can specify the number of words to collocate around a place name, and can categorize them according to part of speech with the embedded Stanford Part-of-Speech (POS) Tagger, which extracts nouns, verbs, adjectives, or adverbs. These collocations can be localized to the specific passage in which the place name appears, or generated across the entire text by counting the most frequent word collocations around a selected place name.

The target users for this tool are researchers conducting a geospatial analysis of a work and exploring topics that occur around specific place names in or across texts. No technical background is required for using TopoText, nor does it require a steep learning curve; it was purposely designed to provide a quick and easy entry point from which to conduct a spatial analysis that could help guide further spatial investigations. In addition, users can upload any type of plain text in English, French, German, or Spanish; this option facilitates a multifocal approach and makes potential applications of the tool available to different disciplines.

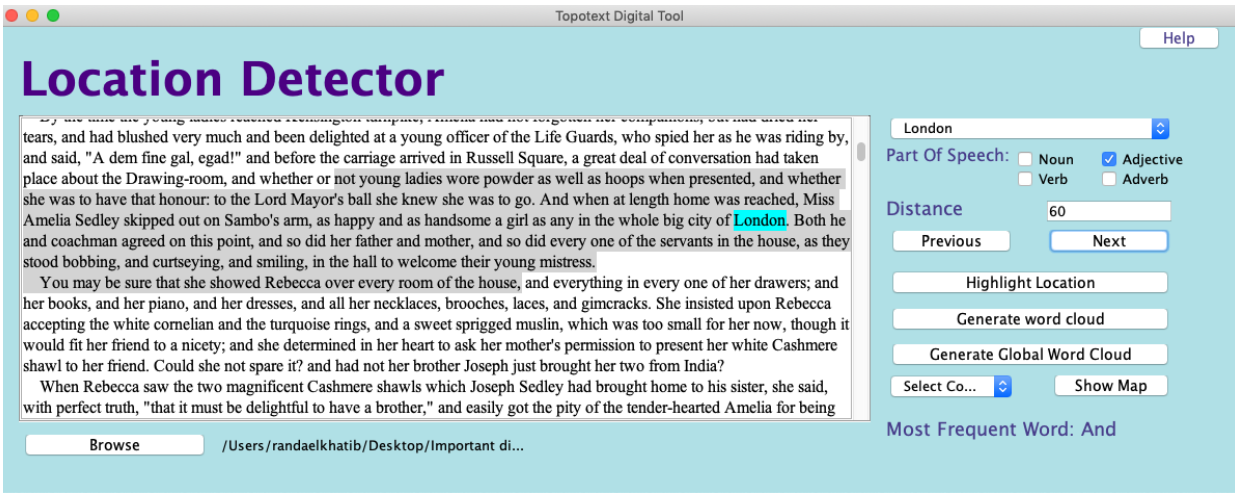


Figure 1 TopoText interface

Simply put, the prototype allows users to locate patterns and trends in relation to places and to trace how they evolve over time. Resulting maps provide a more concrete understanding of the spatial scope of the work, which is often far more encompassing than close reading might suggest. For example, Figure 3 is an automatically generated map of William Thackeray's Vanity Fair that counts hundreds of place-name mentions in the novel, the full span of which is difficult to hold in the mind's eye. Tracing place name occurrences helps facilitate research questions—where specific clusters of place names are found, for example, and what causes interest in that area at a specific time or with a certain author. The scope of the map can be navigated from one of fine granularity (such as a specific neighbourhood) to a province or country, and all the way to an entire world map. By adjusting the scope of the text analysis component, users can dissect the entire text or zone into specific passages. In TopoText, the unit of analysis is the word; computational methods collocate words (either by all the words in a text, words grouped by parts of speech, or most frequent words) in relation to place name occurrences in a text.

A straightforward application of TopoText, by way of example, would be an investigation of Charles Dickens's portrayal of London throughout his writing career, and whether or how his description of the city changed as his career advanced. There are multiple ways to approach this—either by going on a case-by-case basis by running each novel through TopoText, or by comparing his descriptions of London in his early career with those of later works. If a curious word-place collocation appears, the user can switch to the concordance tool in order to do a close reading of a passage to further advance or contradict an argument or observation.

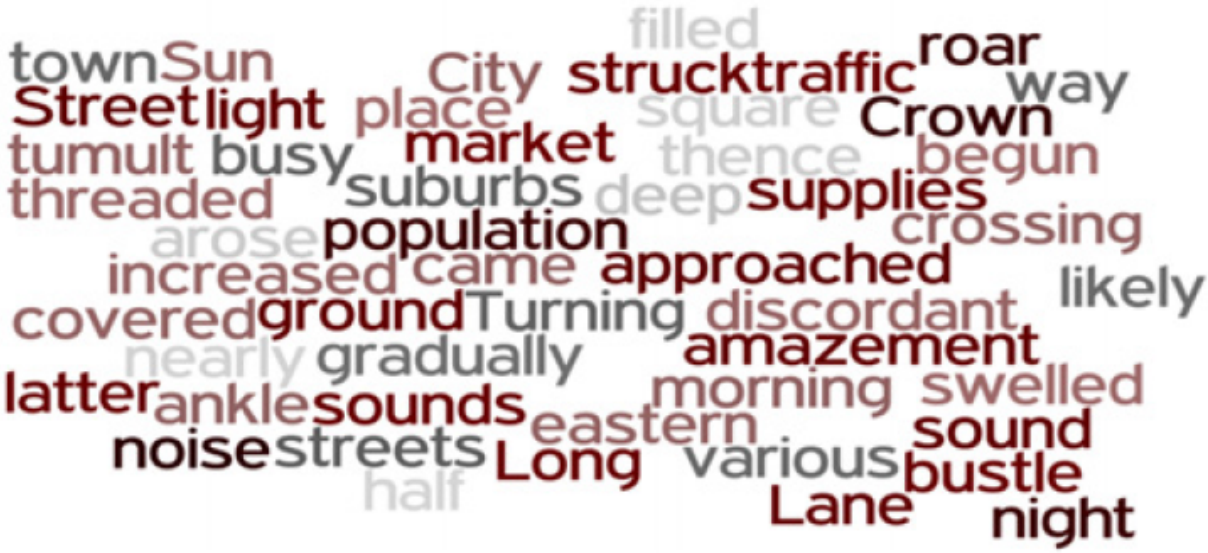


Figure 2 Word-place collocations surrounding "London" in a selection from Charles Dickens's Oliver Twist

A text analysis of Dickens's Oliver Twist (1838) will illustrate the latter method. In this novel, many collocations reflect the theme of industrialization and population increase, such as *traffic*, *increased*, *population*, *busy*, *street*, *bustle*, *sound*, *roar*, *tumult*, *noise*, and *discordant* (see Figure 2). By tracing the rest of Dickens's novels using this method, it becomes evident that this topic

remains a backdrop in most of his urban fiction. Nearly thirty years later, in his final completed work *Our Mutual Friend* (1865), Dickens repeats this topic, evident in multiple word-place collocations related to urbanization. By switching to the concordance tool and going through relevant collocations related to the topic, one quickly finds an episode in which the wealthy Mr. Podsnap and a "meek" stranger argue over the reason for the "destitution and neglect" in London. Mr. Podsnap settles his side of the argument by saying: "You know what the population of London is, I suppose" (168). While the backdrop of urbanization in a nineteenth-century London-based novel is a straightforward observation, this method can geared towards a more specific research inquiry that is multifocal and geocentered. Let us take another example. According to Pat Hudson (2014), "the acceleration of proletarianisation, urbanization, technological and organizational change in both culture and industry may well have enhanced the formation of classes during the industrial revolution" (202), which became evident in the growing socio-economical split between East and West London. Hudson's idea is further reinforced by Lyn H. Lofland (1985), who argues that the segregation of the classes and strong associations of socioeconomic status with location resulted in people becoming evaluated by where they are encountered rather than by how they look or interact with others. This segregation is often reflected in Victorian urban novels. For example, Arthur Morrison, in the opening paragraph of *The Tales of Mean Streets* (1894), writes about the East End:

> This street is in the East End. There is no need to say in the East End of what… It is down through Cornhill and out beyond Leadenhall Street and Aldgate Pump, one will say: a shocking place, where he once went with a curate; an evil plexus of slums that hide human creeping things, where filthy men and women live on penn'orths of gin, where

> collars and clean shirts are decencies unknown, where every citizen wears a black eye, and none ever combs his hair. (1)

Using TopoText, we can trace the most frequent word-place collocations with East End and West End London in a small corpus of Victorian novels to see if word-place collocations generally associated with each hold across works based in London. The novels used in this study are: Ella Hepworth *Dixon's The Story of a Modern Woman* (1895); Charles Dickens's *David Copperfield* (1850), *Little Dorrit* (1857), *A Tale of Two Cities* (1859), and *Great Expectations* (1861); Oscar Wilde's *The Picture of Dorian Gray* (1891); Robert Louis Stevenson's *The Strange Case of Dr. Jekyll and Mr. Hyde* (1903); George Gissing's *New Grub Street* (1891) and *Nether World* (1903); Marie Corelli's *The Soul of Lilith, Vol. 1.*(1892), Israel Zangwill's *Children of the Ghetto* (1895); Vernon Lee's (pseudonym of Violet Paget) *Vanitas* (1892); Arthur Morrison's *Tales of Mean Streets* (1895) and *To London Town* (1899); and Arthur Conan Doyle's *The Study in Scarlet* (1904) and *The Sign of Four* (1904).

First, by running the novels through TopoText, we can identify some of the most popular places associated with each region. In the corpus, these places for the East End are: Whitechapel, Aldgate, Wapping, Mile End, Poplar, Limehouse, Bow, Bromley-by-Bow, Stepney, Shadwel, Cornhill, Leadenhall Street, Tottenham Court Road, and Dean Street. The main places associated with West London in this corpus are: St. Mary Axe, Harbour Lane, Strand, Piccadilly Circus, Oxford Street, Regent Street, Piccadilly, St. James's Park, Old Street, Whitecross Street, Barbican, Long Lane, Smithfield, Bartholomew's Hospital, Thames Embankment, Waterloo Bridge and the Temple Pier. Word-place collocations for each of these places almost instantly associates the East End with negative connotations, such as crime, dirt, drunkenness, or more extreme forms of intoxication. One would expect that the literary representation of this

dichotomy would sharply juxtapose the poverty of the East with the wealth of the West. What the result of the collocations in this corpus point to, however, is that the wealth of the West is more subtly expressed than the poverty of the East, and that themes more closely associated with the East End such as crime and poverty, also appear in West End settings, albeit more rarely than in its counterpart. The main collocations with places in the West End are related to cleanliness, reputation, education, and wandering through the city. These quick results can serve as an entry point into a more robust spatial analysis of Victorian urban fiction.

By using TopoText, researchers can quickly filter through spatial analysis and move between word-place collocations and the concordance tool to identify what works or passages are suitable for closer investigation. This contextualization helps transform points on a map into points of inquiry by providing different narratives and collocations associated with them.

1.2.5 Geocoding Challenges

Some noteworthy challenges in the prototyping phase arose mainly from the inherent limitations associated with both automation and close reading. In other words, there was a compromise that had to be made in favour of either speed or accuracy. Automatic geocoding—the process of connecting a location with its corresponding geographical coordinates—bypasses what is considered to be one of the most tedious aspects of digital mapping, or any large data-driven research for that matter: namely, the gathering and assembling of data for accuracy and for readability by digital tools. Automatic parsing methods, however, introduce a set of limitations, especially in terms of accuracy. At present, most automatic geocoding methods do not disambiguate between a place name that corresponds to more than one geographical location and the chosen location itself; the point that actually appears on the map is determined by an invisible

ad hoc algorithm that can be incorrect. These types of limitations are often inherent in black box tools.

Figure 3—a visualization of a map of William Thackeray's *Vanity Fair* automatically generated by TopoText—illustrates this difficulty. Although the majority of the matching is accurate, some of the points are misplaced, such as those that appear in Australia and New Zealand but are actually locations in England with the same names. A majority of place names actually refer to more than one location, which makes complete accuracy in automatic matching hard to achieve. Most current geocoding techniques, moreover, do not handle spelling variations well, and can locate and map place names only by their standardized spellings. This limits automatic digital mapping to more contemporary texts or texts with modernized spelling, typically from the nineteenth century onward, with a higher level of accuracy in regions with rich GIS data.

Figure 3 A world map of William Thackeray's Vanity Fair automatically generated by TopoText

Some open access tools that carry out automatic geocoding are the UCLA Web Geocoder and the Google Sheets add-on Geocode by Awesome Table. The former is a tool that geocodes addresses in the United States and the United Kingdom, as well as locality-level entries from other countries; however, it is not meant for geocoding city or country names, which is more common for spatial inquiry. Geocode by Awesome Table is an easy-to-use add-on in Google Sheets that automatically geocodes place names or addresses. While it is a quick and easy fix, it is not meant to be used with a large spreadsheet since it has a daily limit (1,000 lines unless upgraded) and the geocoding happens on a line-by-line basis; users can follow the process as the geo-coordinates appear, one after the other, in the spreadsheet. Like TopoText, both of these tools are black boxed, making it unclear how the matching process is actually taking place. Additionally, both require structured data (i.e., the place names must already be extracted), whereas TopoText goes through the whole geoparsing process—locating and extracting place names, then linking them to geographical coordinates. This limits the scholarly application of the two other tools for those working with unstructured or historical text.

One robust system that carries out the entire geoparsing process is the Edinburgh Geoparser. This open-source tool automatically identifies place names, and is linked to a number of gazetteers such as GeoNames and Unlock to disambiguate references and to provide a list of potential locations that a place name could be referring to (such as London, England; London, Ontario; London, Ohio, and so on). Results can be demonstrated on a Google Map, as with TopoText. Transparent geocoding was also a goal for TopoText, and has been realized in the second version. Although Edinburgh Geoparser has more powerful computational strength than TopoText, it also has a much steeper learning curve, and is thereby geared towards a different audience.

1.2.6 TopoText 2.0

After reflecting on how TopoText 1.0 carried out this particular interpretation of geocriticism, and on how to address the aforementioned limitations, the team designed a second iteration.[10] In particular, we considered how to open the automatic geocoding and text analysis processes to correct mismatched points, and to include unstructured text that further contextualizes places beyond word-place collocations and the concordance tool. While the first iteration focused on rendering geocritical terms into computational tasks, the second version opens the black box for more accuracy and for human intervention. Switching between the concordance and word-place collocations supported multiple approaches to reading the text; however, neither of them are open or interactive in a way that supports human input.

TopoText 2.0 supports collaborative knowledge production by allowing researchers to continuously populate the data sets with new entries in the form of annotations that appear directly on the map interface. All maps and the data set can be exported, shared, and explored offline. Additionally, Topotext 2.0 has a "human-in-the-loop" option that allows researchers to participate in the post-matching phase of the geocoding process by correcting potential mismatches; this "correction" is made by updating the generated list of alternative locations that share the same place name (see Figure 4). Including the human-in-the loop functionality significantly improves on TopoText 1.0, as well as Web Geocoder and Geocode by Awesome Table, since the user, rather than the machine, is in control of the matching process. In its geocoding process, TopoText 2.0 more closely resembles the Edinburgh Geoparser in that it

[10] The design of TopoText 2.0 (https://github.com/rkhatib/topotext/tree/v2) was led by Randa El Khatib (University of Victoria) and coded by Julia El Zini (AUB). Team members include David Wrisley (New York University of Abu Dhabi), Mohamad Jaber (AUB), and Shady Elbassuoni (AUB).

provides a list of alternative locations. However, the second iteration follows the objective of the first—to be accessible to scholars with no technical background.

	A	B	C	D	E	F
1	Location Name	Country	X	Y	Weight	Annotation
2	Turin	Italy	45.07049	7.68682	3	Moryson reache
3	Turin	Canada	49.96674	-112.51852	3	Moryson reache
4	Turin	United States	33.32651	-84.63576	3	Moryson reache
5	Ceres	Argentina	-29.881	-61.94504	1	While travelling
6	Ceres	Italy	45.31336	7.38961	1	While travelling
7	Ceres	Australia	-38.16667	144.26667	1	While travelling
8	Ceres	South Africa	-33.36889	19.31095	1	While travelling
9	Ceres	Brazil	-15.2735	-49.64455	1	While travelling
10	Ceres	United Kingdom	56.29382	-2.97357	1	While travelling
11	Ceres	United States	37.59493	-120.95771	1	While travelling
12	Ceres	East Timor	-8.75361	125.23389	1	While travelling
13	Ceres	Cuba	22.88722	-81.19889	1	While travelling
14	Ceres	Philippines	14.62667	121.11777	1	While travelling

Figure 4 The TopoText 2.0 CSV output has a "human-in-the-loop" option to correct mismatched entries by moving the accurate location and its geocoordinates to the top of its place-name entry

Aiming to cover a wider scholarly scope, the API was switched from Google, which primarily deals with modern place names, to GeoNames, one of the largest open gazetteers, which includes historical place names and alternative place name spellings. By doing so, TopoText facilitates spatial analysis of text that appears in less standard language, such as pre-modern or early modern texts, translated texts, or texts that refer to places by their alternative place name spellings. It also counts the number of times a place name is mentioned (under the "weight" category in Figure 4) and renders the size of the entry on the map to correspond to its weight ratio. Finally, TopoText 2.0 allows users to export the geoparsed data, along with the annotations and other relevant information, into a separate CSV file that can be reused on other platforms.

1.2.7 Conclusion

Both versions of TopoText are prototypes created for the interpretation of texts through a geocritical framework, one that is multifocal and geocentred; they support plain text input and provide context through world-place collocations, direct context in the concordance tool, and explanatory annotations displayed directly on the map interface. Designed for wide application, TopoText enables work to be carried out in multiple languages and supports the geoparsing of historical texts, all with no technical knowledge required. The prototype generates a customizable digital literary geography from texts, and, in accordance with Westphal's prediction, this interpretation of geocriticism is both digital and collaborative.

TopoText is a form of critical inquiry into modes of spatial representation and meaning formation through deformance and pataphysical criticism. The prototype ultimately attempts to reconstruct geocriticism in digital terms, in which design-related decisions are made through critical interpretive acts. As Ramsay (2011, 31) states: "The computer revolutionizes, not because it proposes an alternative to the basic hermeneutical procedure, but because it reimagines that procedure at new scales, with new speeds, and among new sets of conditions. It is for this reason that one can even dare to imagine such procedures taking hold in a field like literary criticism." Digital mapping through software prototypes is one way of manifesting a visual literary geography that can advance spatial explorations and enhance our experience of the literary text.

Chapter Two: Prototyping Across the Disciplines

2.1 Contributions to the Project

For this project and publication, I undertook a variety of tasks, including:

- lead author of the article, including conceptualization, drafting, and revisions, working closely with David Joseph Wrisley and consulting with the computer scientists on the team: Shady Elbassuoni, Mohamad Jaber, and Julia El Zini.
- lead project designer of TopoText 2.0. Applied the first prototype, TopoText, to a variety of literary works to study the functionalities and limitations of the project. Searched for alternative services that can be used to replace core functionalities. Consulted with David Joseph Wrisley and Julia El Zini to finalize the new features for this prototype.
- project manager of TopoText 2.0. After consultation, Julia El Zini took on the role of software developer and I of project manager, and the two of us worked on developing the tool. We consulted with the rest of the team as appropriate.
- drafted and published description and instructions on TopoText 2.0's Github page.

2.2 Conceptual Framework

Chapter two examines iterative experimental prototyping, multidisciplinary collaboration, and data modelling in the context of TopoText 2.0. Based on the application of a digital geocritical manifestation in the form of TopoText described in the first chapter, and the process of identifying the strengths and shortcomings of the prototype, this second iteration is a result of what McGann (1997) refers to as praxis of theory. This concept refers to reimagining the process after testing the digital tool and modifying it again through iterative prototyping (n.p.). Iterative prototyping, Ruecker (2015) argues, is an expected part of the process that contributes to new

interpretive possibilities. In the context of TopoText, the previous chapter looked at automatic geoparsing processes for text-to-map conversion and word-place collocations and their implications for Lower and Higher Criticism. The findings pointed to how automatic text-to-map conversion provides an entry point into exploring the literary geography of a text that facilitates a macro-reading approach to help identify patterns for further exploration. However, the shortcomings of this methodology involve some inaccuracies in geoparsing due to several challenges such as place names referring to more than one location, where the black-boxed design of TopoText does not allow to access the dataset to correct or enrich the data. Chapter two engages with the praxis of theory or proof of concept software prototyping of geocriticism that modifies the first iteration for improved accuracy in geoparsing, and also shifts to more open-access and open-source services rather than relying on for-profit freemiums by switching from Google API to GeoNames and from Google Maps to the open-source JavaScript library Leaflet. Prototyping this second iteration is studied within the context of multidisciplinary collaborations and the implications of co-developing software across the disciplines.

Specifically, the chapter explores what it means to co-develop software in multidisciplinary scholarly teams that are structured around collaborations rather than service-based models, ultimately meaning that the collaborators have to work toward shared project goals while still contributing to their individual disciplinary fields. To do this involves sharing a common understanding of the process and purpose of the collaboration, where central methodologies such as prototyping can assume more than one interpretation and meaning for collaborators with different training and disciplinary backgrounds. In order to develop cross-disciplinary understanding and consensus around terminology, methodology, purpose, and research outcomes within multidisciplinary teams, this chapter argues for the adoption of shared

vocabulary and project goals that can be articulated around formal guidelines. The team draws on the International Organization for Standardization and the International Electrotechnical Commission (ISO/IEC) 25010:2011 standard in the software engineering domain, a standard that may not be immediately aligned with digital humanities principles, but provides a solid starting point for forging shared understanding within a multidisciplinary research collaboratory.

Another argument the chapter proposes is that semi-automatic data modelling with a human-in-the-loop functionality and ability to export the dataset creates a solid foundation for enriching datasets that could fuel humanities discourse and count as Lower Criticism material in the field of literary studies. While TopoText 2.0's data modelling structure remains on a macro-level rather than automatically creating enriched place name extraction in the dataset to move them from the category of "space" to "place," it can be thought of as a solid first step in the process. The data created with TopoText 2.0 can form the backbone of a geospatial humanities project by providing more accurate place names and their geographical coordinates, the number of times a place is mentioned in a text—also known as the "weight" of a place—and the ability to manipulate and add more data to the dataset. Therefore, it also has the potential for informing Higher Criticism. Figure 5 illustrates the system architecture of the second iteration of TopoText.

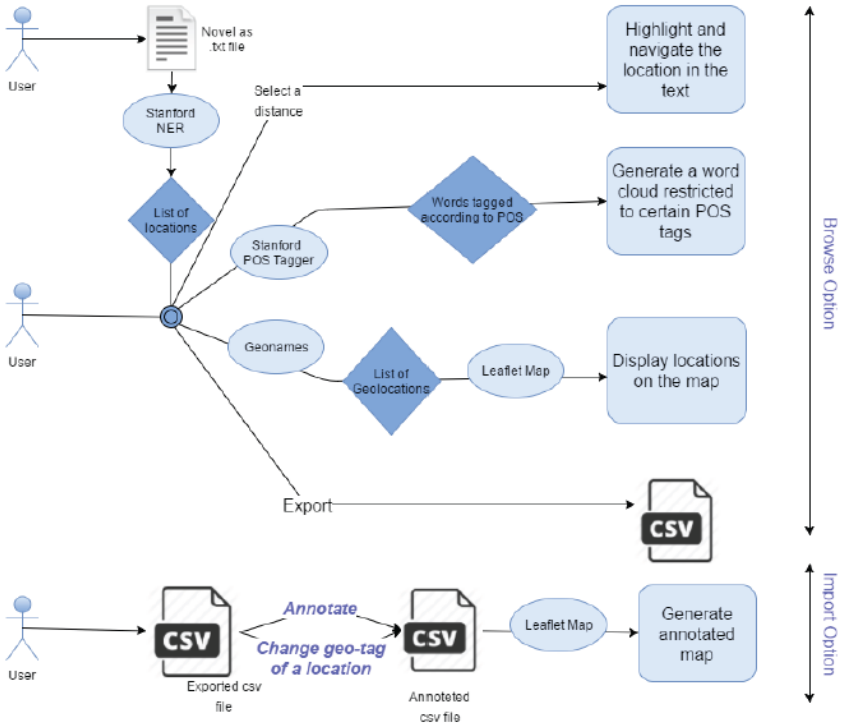


Figure 5 TopoText 2.0 System Architecture

A distinctive feature of digital humanities is how highly collaborative the field is not just internally, but with other disciplines as well. In our case, the collaboration can perhaps be best understood from the perspective of the methodological commons that describes the convergence between multidisciplinary groups around central practices of the community including "data and data structures modeling core materials, and tools modeling formal methods" (Siemens 2016, n.p.). The interaction occurs around "modeled data derived from analog and other sources, and modeled process which we prototype in tools that enact our analytical and other methods on that data" (Siemens 2016, n.p.). Figure 6 depicts an iterative view of the methodological commons by Harold Short and Willard McCarty, this specific version appearing in the 2006 HUMANIST discussion group that illustrates the convergence of disciplines and fields around formal methods (Siemens 2016, n.p.). TopoText aligns with the methodological commons since its team

converges around data modelling of geodata and process modelling of geocriticism across several iterations.

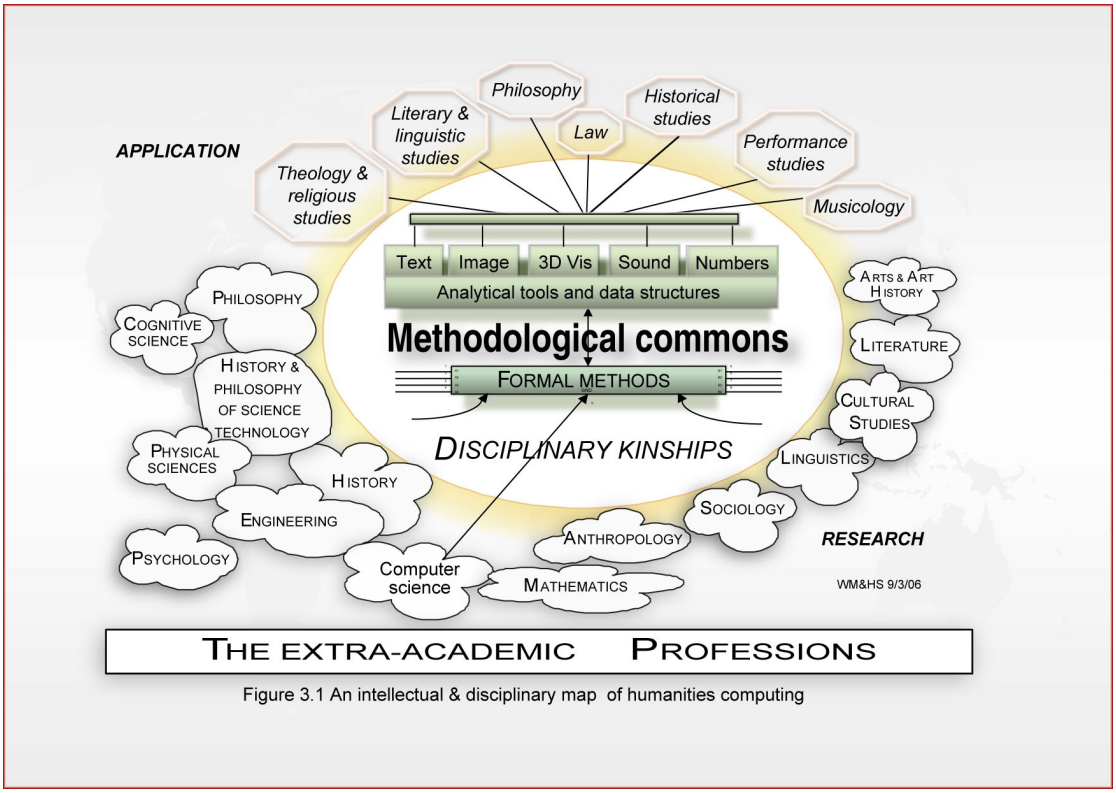


Figure 6 An intellectual and disciplinary map of humanities computing (Willard McCarty and Harold Short)

At the outset of the collaboration on TopoText 2.0, the team set three goals for the prototype: to improve on the first iteration and produce more accurate geodata through semi-automatic geoparsing; to serve as a geodata generator by creating datasets that can be enriched through annotations and make them accessible, exportable, and reusable on other platforms; and finally, to reflect on whether and how this improved iteration is able to embody a geocritical approach for the analysis of literary space and place. Building on the concept of the methodological commons, then, the team is involved in both modelling data by creating a geodata generator and modelling process through the development of the prototype that enacts a

geocritical methodology. Both processes are in line with the trends that Siemens anticipates emerging from these types of communities of practice, which are "increased data in digital format and increased access to large data in more standard and widely usable formats" (n.p.). This prototyping process also challenged the team to reflect on our collaboration model and to learn from and situate our collaborative approach alongside others based on literature on the topic.

Despite the centrality of collaboration in digital humanities research, there is little formal training or discourse on successful collaboration models. Instead, this knowledge is often gained through practice in the field and often follows one of two models: a faculty-oriented model or a collaboration model (Siemens and Siemens 2012). The former refers to a collaboration model in which the faculty member oversees the intellectual direction of the research, where other team members, including computer scientists and software developers in the context of a humanities project, are hired to carry out that vision. This is perhaps the most common form of collaboration in the humanities today and can manifest as a service-based model. On the other hand, the collaborative model brings together team members from different areas and at different stages of their careers as equal collaborators and contributors, therefore deciding on project goals and how they will be achieved is a team effort. Our research collaboratory follows the latter model, although in a more informal way; for example, there was no designated space for our team of five to carry out our work; in fact, the team was dispersed across several countries at the time of developing TopoText 2.0 and collaborated virtually. As such, the chapter draws on Bracken and Oughton (2006) to describe the collaboration as a form of third space that draws on team interests and expertise to work toward shared goals. This third space can also be thought of in the context of a methodological commons. Together, the team was involved in an active discovery of

disciplinary values with computer sciences and sought points of convergence with the humanities. This discovery involves terminology, process, goals, and research outcomes as mentioned earlier; however, it also involves considerations such as publication venues, authorship distribution, and methodology, among others (Siemens, Liu, and Smith 2014, 54).

When we first embarked on the prototyping process, the team was not fully aware of these disciplinary nuances. Rather, it is during the process of building and critical reflections on the prototyping process that we started reaching this shared understanding, which is reminiscent of some aspects of critical making. In the introduction, I compare prototyping as it is conceived in the digital humanities with Matt Ratto's definition of critical making. Although the two share similarities and even some overlaps, especially in the early stages, a major consideration that sets them apart becomes obvious when Ratto (2011) argues that objects created through critical making are not meant to speak for themselves and can only be understood when taken as part of the full critical making process, whereas software prototypes can undergo independent peer review and potentially stand as contributions to knowledge in themselves (Galey and Ruecker 2011). That said, an aspect of critical making that Ratto describes can be readily applied to our collaborative prototyping efforts, namely that "through the sharing of results and an ongoing critical analysis of materials, designs, constraints, and outcomes, participants in critical making exercises together perform a practice-based engagement with pragmatic and theoretical issues" (253). Indeed, this embedded value of critical reflection within the prototyping process allows to develop standards, guidelines, and enhanced collaboration models. Another insight from Ratto is that "Using a shared process of making as a common space for experimentation encourages the development of a collective frame while allowing disciplinary and epistemic differences to be

both highlighted and hopefully overcome" (2011, 253). In what follows, I briefly outline how the team arrived at building a collective frame between our disciplines.

Literature across different scholarly disciplines stresses the importance of building shared vocabularies for successful collaborations. For example, in the context of theatre production, Rob Roznowski and Kirk Domer (2009) stress the importance of defining central vocabulary and coming to shared understanding of what key words mean for everyone involved the collaboration. In fact, they argue that collaborators should always ask for a definition when any uncertainty or potential misunderstanding may occur. In the absence of this shared understanding, authors recommend creating a shared vocabulary to get to a collective meaning (7). Luca Trani et al. (2018) also highlight the importance of shared vocabularies in the context of Information-Powered Collaborations, a model authors propose for multidisciplinary teams whose work is organized around data and data exchange. In their study, Trani et al. argue for the need to create shared "core concepts" across teams from different disciplines and geographical areas to build and sustain multidisciplinary collaborations (421). A crucial aspect involved in creating core concepts are standard vocabularies (422) such as Dublin Core (423). In the case of our collaboration, the team first sought to come to a shared understanding of "prototyping" and then turned to the ISO/IEC 25010:2011 standard to explore whether any of the characteristics outlined by the standards help to create a mutual language and understanding that could potentially be used as a guideline for collaborative prototyping between digital humanists and computer scientists.

Coming into the collaboration, the team had two distinct perspectives on prototyping. The first is more in line with digital humanities and draws on Jon Saklofske's (2016) conception of prototyping as an assemblage of "*theoria* (or contemplation), *poiesis* (or making), and

praxis (or practice/action)" (n.p.). Therefore, contemplation and action are related and are, in fact, becoming materialized through the process of making, with all three culminating in the product of the engagement: the prototype itself. Another way to look at this is through the concept of process modelling (Siemens 2016) that embodies in itself the thinking and making through stepwise software that is both a process and a product, and can serve as both argument and theory, as is argued in the chapter. The second perspective on prototyping shared by some team members involves planning for scalability and sustainability, more closely aligned with Ruecker's (2015) product prototyping that involves creating a software that meets certain criteria of usability and functionality. These different viewpoints are not necessarily based within disciplinary boundaries, although that plays a factor; the primary departure, however, is between two competing goals that the team envisions for the prototype, one with experimentation in mind and the other with scalability and sustainability.

To fulfill the goal of having an equal collaboration rather than following a service-based model, in this chapter the team pursues the convergence of these two views through the ISO/IEC 25010:2011 standard. This standard for software development was proposed by one team member as a document from which we can borrow core concepts and begin to develop a shared understanding. Although not a perfect fit with discourse of value in the humanities, it provides a possible starting point for forging shared vocabularies within the research collaboratory. In particular, the chapter focuses on a subset of characteristics outlined by the standard and attempts to translate them into terms generative of further discussion in the digital humanities community.

2.3 Prototyping Across the Disciplines[11]

In various global contexts, researchers are coming together to imagine the environments that can host, sustain, and facilitate new forms of academic research and inquiry. Indeed, research infrastructures in the academy have evolved to include new spaces of exchange, data management, and computation. At their most virtual, such spaces for digital humanists include software, middleware, cloud computing, labs, makerspaces and the like. Indeed, we have entered an era of what has been called "Software Intensive Humanities (SIH)," where digital humanists not only use packaged software bundled in their institutional infrastructures, but they also embark on innovative tool creation as a form of generative, critical practice (Smithies 2017). In this article, we explore the idea of proof of concept software prototyping, stemming from a collaboration between researchers in the humanities and computer science, and we examine the issue of the value of collaboration across the disciplines. We have been attempting to model a process that could very well be popularized in coming years, even embedded within basic computational infrastructures for humanists the way that platforms such as Voyant Tools have democratized text analytics. That process is *creating a map from a text*.

2.3.1 Humanities and Computer Science Collaborations: Towards a Product or Prototype?

Digital humanities are a deeply social endeavor, one in which project results are shaped by the various actors involved, as well as by the mutual value drawn by them from the process. Those projects are not always carried out in the context of a shared lab. Cross-disciplinary collaborations also take place virtually, instead of within the confines of a single room,

[11] This section reprints the following article: Randa El Khatib, David Joseph Wrisley, Shady Elbassuoni, Mohamad Jaber, and Julia El Zini, "Prototyping Across the Disciplines," *Digital Studies/Le champ numérique* 8, no. 1 (January 2019): 1–20, http://doi.org/10.16995/dscn.282.

department, university, or even region. Collaboration, it can be argued, is a form of a third place, drawing on the theoretical interests and practical expertise of different kinds of disciplinary actors, taking place in and between their traditional working spaces, and importantly, growing out of the development of shared vocabularies for collaboration and an appreciation of the stakes of the research for others in our team (Bracken and Oughton 2006). Our experience stems from a collaboration initiated informally between a small group of researchers and students in departments of English and Computer Science, rather than within a formal research collaboratory, and at a moment where digital humanities had limited purchase within the home institution.

Whereas interdisciplinarity is an easily promoted ideal, building structures across the disciplines for successful, and sustainable, collaboration is more challenging to achieve (Bos, Zimmerman, Olson, et al. 2007). Collaboration is known to be difficult for a number of reasons: focus in some disciplines on individual work over research teams, lack of planning and project management skills, lack of infrastructure to facilitate the collaboration, new forms of accountability or communication required to carry projects to fruition, in addition to basic disciplinary difference (Siemens and Siemens 2012). In this article, we turn to another important challenge of collaboration unmentioned above: the ways we characterize the prototype resulting from interdisciplinary collaboration, or in oversimplified terms, the "finished product." Since the work of such software prototyping is iterative, experimental, and without a clear end in sight, the humanists on our team came to appreciate the process as passing through multiple stages of somewhat finished prototypes. A new version or prototype might improve performance or user experience compared with previous versions, but, in turn, eclipsing another part of its previous functionality. We propose to examine in this article how the computational task of text mapping,

that is, modelling and operationalizing a relationship between geographic entities and features of language, can be framed within a mutually beneficial language for a collaborative team. We do this by turning to some documentation from beyond the humanities—some might say far beyond the humanities—that, if reframed and generalized, might provide a starting point for forging common goals and vocabulary for interdisciplinary teams. This relies, however, on unpacking, and refining, the notion of the prototype for the specific case of software development within digital humanities.

2.3.2 Software Prototypes: Materializing Contemplative Knowledge

The word prototype appears in Renaissance English from a Latinized Greek word meaning a "first form," or a "primitive pattern." A software prototype, according to *A Dictionary of Computer Science*, can be defined as a "preliminary version of a software system in order to allow certain aspects of that system to be investigated … additionally (or alternatively) a prototype can be used to investigate particular problem areas or certain implications of alternative design or implementation decisions" (n.p.). Prototyping after the digital turn can also be seen as an assemblage of various modes of intellectual work: "theoria (or contemplation), poiesis (or making), and praxis (or practice/action)" (Saklofske 2016, n.p.). According to Saklofske, contemplation and action are related through the process of making, which can be seen as a materialization of contemplative knowledge both in, and through, engaged activity. Research on building in digital humanities has framed prototyping as an intertwined process of making and thinking, embodied together in the prototype "product;" examples of functional software prototypes, it has been argued, are a contribution to knowledge in themselves in as much as they suggest innovative methodologies (Galey and Ruecker 2010; Ruecker and

Rockwell 2010). We assert that a prototype is best understood in a similar light, as intertwined thinking and making, a process of modeling embodied in step-wise software versions (El Khatib forthcoming). In this sense, in Saklofske's terms, the prototype, which embodies the process and product, serves both as an argument and theory. In our case, what kinds of thinking across the disciplines led to our prototype?

Data creation is central to many of our research projects in digital humanities, and it is common knowledge how it can be very time-consuming and expensive. One common research task at the intersection of textual and spatial analysis consists in extracting geographical information from unstructured text and visualizing such data on map interfaces. It is a rather time-consuming process that has led researchers to want to automate the process. Another system that models the text mapping process is the "Edinburgh Geoparser" (Edinburgh Language Technology Group 2017). Practitioners in the spatial humanities have recourse to a growing body of code and critical literature, in addition to infrastructure in the form of gazetteers—digital lists of places against which entities extracted from texts can be matched. Convinced that the immediate linguistic context of geographic entities found in texts is illustrative of the ways that place is constructed by literature, the authors of this paper set out to operationalize this hypothesis by prototyping software named TopoText to carry out the task.

Creating a software prototype involves different skill sets in code, interface design, implementation, and testing; in short, it is a social process. The various iterations of TopoText, from basic conceptualization to implementation, involved different groups of students and faculty, and this meant that we confronted many disciplinary assumptions that went unmentioned. Furthermore, software prototypes, particularly of the kind one finds in digital humanities, are acts of open scholarship. They are placed in code sharing and versioning

environments for others to use, adapt, and refine. Of course, working within a digital humanities lab or on funded projects, one solution to software or coding needs is to contract developers to carry out discrete tasks. If digital humanities enter the research collaboratory, however, where they are face to face with others in computer science (or other disciplines), different dynamics come into play, in which divergent notions of both process and product emerge. Our experience made us very aware of the fact that within the single academic unit of computer science, we also find different forms of reflection and action that map onto the abovementioned axis of theoria, poeisis, and praxis. In other words, "there are many different computings" (McCarty 2005, 158). McCarty qualifies the domain of software "a locus of confounding" precisely because he argues, that "the more theoretical side of computer science meets the world through systems engineered to serve and interact with it" (McCarty 2005, 164). Our specific experience has made us see the urgency of thinking through the ways that research is validated from the perspective of different disciplines, as well as within the same disciplinary groupings of the academic unit. At stake here is the way that the common language we might use to describe software prototyping within research teams, and the ways we can take home our results to our different disciplinary homes.

2.3.3 Tensions of Reproducibility

Instead of relying on a service-based, developer-for-hire model of computing, what we call for here is an active discovery of how our disciplinary values and expectations as humanists converge or diverge with those working in different aspects of computing. Within the context of prototyping, we describe a hybrid mode of interdisciplinary academic collaboration set beyond the confines of a physical space (such as a laboratory) or grant-funded project; this collaboration was carried out in its beginning on the same campus, and then subsequently via virtual

communication between humanists and computer scientists working from different sites. The project was experimental, not only regarding the concepts employed, but also in the structure of the collaboration. To our knowledge, no such project had been attempted before between the two academic departments at our institution. In this light, looking back on several years of working together on the TopoText team, we wonder how this type of collaboration was able to pursue its experimental nature while there was no formal support, and likewise, what incentives kept team members pursuing the research project despite the lack of structure. Although they were not clearly articulated in this initial stage of collaboration, there were reasons that the prototyping process appealed to all members of the team. If we are to generalize from the experience, what might be some ways of constructing the frame of collaboration in mutually beneficial ways? How do we balance experimentation and rigor in software prototyping that can bring us closer to "next generation tools" (Siemens, 2016, n.p.)? How can humanists understand what colleagues in computing think is a valuable result in a research project? Some common guidelines would be useful for aligning future collaboration.

Multidisciplinary collaboration models take into account disciplinary characteristics and differences. Major considerations in disciplinary difference include defining research problems and choice of critical vocabulary, designing methodology, asserting authorship, choosing publications venues, assigning rewards and recognition, as well as inter-researcher communication (Siemens, Liu, and Smith 2014, 54). Two models for collaboration in an academic setting are *faculty-oriented research projects* where lead faculty members make decisions on behalf of the entire team and lead the intellectual direction of the project, and *collaboration* that approaches team members as equals, where all members intellectually contribute to the project. The multidisciplinary humanities-computer science team discussed in

this paper fits better into the latter, where the students continue to be as invested in its intellectual direction as faculty members. Additionally, it is further from the service-based approached that is more commonly associated with faculty-oriented research projects; here, team members are invested in creating shared research foci, vocabularies, and methodologies.

As would be expected in a new collaboration, when we began building TopoText, the computer science team came to the project with another set of implicit values. Although we worked quite closely together, it is not fair to say that at the beginning of the collaboration, we were completely aware of the other side's workflows or standards of success. One of the members of the team from computer science pointed to systems and software development quality standards, the 2011 International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC), also known as ISO/IEC 25010:2011, a part of the Systems and Software Quality Requirements and Evaluation (SQuaRE), as standards that his field follows when developing software and that informs the pedagogy of software engineering. At first, such a profession-specific document seemed to alienate us, and yet it contained some interesting wisdom; had we not made a conscious effort to "exploit the benefits of diversity" of our project team, we would perhaps have missed this way that his research community articulates project goals (Siemens, Cunningham, Duff, and Warwick 2010, n.p.). Negotiating between the more open-ended, experimental nature of prototyping and the ISO/IEC 25010:2011, indeed involved balancing novelty and conceptual innovation with functional suitability and accuracy. As a standard, it generally challenges the theoretical boundaries of the prototype, while maintaining a level of robustness of the methodologies of the software product. One of the ideas the humanities members of the team had, as we continued to theorize the emerging prototype, was how easy it is for our collaborator's labor and professional expertise to disappear behind the

accuracy of the code. In other words, as the software prototype began to embody the qualities of a purposeful, running tool, it was easy to neglect the design decisions and testing that brought the tool into functional existence.

It is important to note that another contributor from the computer science team asserted that he does not rigidly follow such standards as the ISO since the research projects he directs do not have the specific goal of an end-product software system. The divide, if there can be said actually to be one, in our humanities-computer science collaboration was not so much across departmental lines, but rather between two competing goals, one of experimental modeling without any particular futurity for the prototype in mind, and another that sought to make strategic choices in step-wise implementation planning for scalability and sustainability. We might formulate this insight as a question: for whom does a prototype have an afterlife? The software engineering part of the team described this method of developing code into software as a "spiral," incorporating feedback between developmental phases that allow for modification and improvement. That is to say, new phases are begun before predecessor phases are complete. It would seem, therefore, that unbeknownst to us, the tension in the dual meaning of the notion of the "prototype," signifying both the singular, abstract "original" form and the mold or pattern from which subsequent copies can be developed, was playing itself out in the daily business of our collaboration. The analogy here could be extended to the tension between a "pure" thought experiment, and an experiment with the notion of reproducibility built in to its execution. Reproducibility is key to non-proprietary, open software development these days, as well as to standards of reliability and transparency in certain circles in the digital humanities community, as the use of environments such as GitHub, R Markdown source documents or Jupyter notebooks would seem to attest (Kluyver, Ragan-Kelly, Perez, et al. 2016). The principle of reproducibility

also serves historiographic ends, as a way "of thinking-through the history and possibilities of computer-assisted text analysis" (Rockwell and Sinclair 2016). On our TopoText team, there were multiple perspectives on what needed to be done to bring about the software prototype as a public, shareable object: one that conceived the prototype as a kind of *essai*, and another that was conceptualizing the prototype as a structure in ways that it could be expanded on later. Whereas in digital humanities we might speak of operationalizing a concept, that is, translating a theoretical concept into a finite, computable experiment, others aim to move beyond experimental thinking with a computer to build a tool guided by best practices of software development so that it can be shared, distributed and further elaborated. Again, we are reminded of the "rich plurality of concerns" included within computing (Edwards, Jackson, Chalmers, et al. 2013). Let us push forward to explore, then, the differences and commonalities between such social experiments in digital humanities software prototyping and the abovementioned ISO/IEC 25010:2011 standard.

2.3.4 Forging Vocabularies of Collaboration: From Standards to Guidelines

We are not suggesting that all digital humanities projects or collaboratories should aim for standardized implementation. Far from it. Instead, it is worth examining to what extent the details of the ISO/IEC 25010:2011 *standard* for software development might be translated into *guidelines* for software prototyping. Could delving into these standards be helpful for defining a mutually comprehensible language for some of the guidelines of the research collaboratory? Are there aspects of them that all sides of a collaboratory can share? Are there other aspects that are simply too commercially oriented to take root in the open source ethos espoused by digital humanities? Are there ways that the ISO/IEC 25010:2011 standard might be used to draft some

more general guidelines, or even rethought to be useful to the informal, interdisciplinary encounter such as ours? Could such guidelines be scaled from the informal collaboration to the more formalized research collaboratory? We believe that the documentation contains some material for mutual understanding and deserves closer analysis.

Central to multidisciplinary collaboration is developing understanding between disciplines, which can be forged through an understanding of field-specific language and the contexts in which it is being used. L. J. Bracken and E. A. Oughton (2006) identify three main aspects of language that are involved in attaining such an understanding: dialectics, metaphor, and articulation. Dialectics refers to the difference between the everyday use of a word and its expert use, as well as the different meanings that are assigned to the same words by different disciplines. Metaphor, or 'heuristic metaphor,' refers to expressions that push a conceptual understanding by systematically extending an analogy (Klamer and Leonard 1994). A metaphor assumes that those involved in the conversation share the same context before making a conceptual correlation. The final aspect is articulation, which refers to the process of deconstructing one's disciplinary knowledge in conjunction with the disciplines of collaborators in an attempt to identify the building blocks and employ them towards developing a common understanding. According to Thierry Ramadier (2004), "articulation is what enables us to seek coherence within paradoxes, and not unity" (432). This idea of seeking coherence within paradoxes rather than attempting to reconcile disciplinary differences is what drives us to engage with the language of ISO/IEC 25010:2011. All three aforementioned aspects of language play a crucial role in developing a disciplinary understanding as articulated through these standards. Dialectics is crucial since some of the words used in the standards are familiar either in everyday life (such as "trust" or "comfort") or a humanities context (such as "effectiveness"), but are

actually used in a more specialized context in software development. We employ a metaphor in our explanation of the "modularity" characteristic below by drawing an analogy to a wrapper in order to explain how the characteristic functions. Our approach to the language of ISO/IEC 25010:2011 focuses on developing an understanding between its characteristics and humanities concepts rather attempting to reconcile the two.

The above standards related to quality control in software development—originally published in 2011 and reviewed and confirmed in 2017, remain in vigor at the moment of the writing of this article. Although software developers aspire to them, and they are taught as guidelines in computer science programs, like all other standards, more work needs to be done to assess to what extent they are effective or even observed. At first take, adapting guidelines for product-driven industry into the humanities may seem counterintuitive, or even meet with resistance; however, let us not forget that adopting—and reinterpreting—the languages of the different strands of computing runs deep in digital humanities. Practitioners have been both adopting and adapting standards since some of its earliest days. Take, for example, the Text Encoding Initiative, which initially adopted Standard Generalized Markup Language (SGML) as an expression of its metadata, and was then succeeded by Extensible Markup Language (XML) that is still being used today. By adopting robust guidelines for markup of structural and conceptual features of humanities data, the TEI community laid one of the foundations of digital scholarship today. Whereas the TEI community has created "guidelines" out of what are XML standards, would it not be possible to do the same with software prototyping out of the ISO/IEC 25010:2011 document?

As we mentioned above, our first foray into collaborative software prototyping, TopoText 1.0, was made in an undergraduate software engineering course offered at the

American University of Beirut (Lebanon). It might be fair to say that the initial impulse for the collaboration—automating a process of mapping toponyms found in texts and conducting some basic textual analysis around them—was a case study through which undergraduates were exposed to industry-defined standards for high-quality software. This does not mean that such standards were scrupulously followed in the ensuing code, nor that TopoText went through all the series of tests for professional software development, but rather that they were the ideal to which the computing team referred in building the software core. After being exposed to this process model, the humanists on the project team were stirred to explore how such standards were not only product-centered aims, but also how they enriched the conceptualization of code-based work. This led us to ask the question: are standards a conceptual apparatus sitting at the human interface of digital humanists and developers without ever being acknowledged as such?

In the "waterfall model" of software development followed by our colleague in computing, an initial phase deals with the translation of concepts into processes and the articulation of specifications. This phase is followed by one focused on design, consisting of a modular decomposition of the steps of the core process. In these first two phases, the humanists worked closely with the computer scientists to articulate a common vision of the conceptual model. In the implementation phase that followed, this was less the case. In the ensuing testing and validation phases, the humanists stepped back in to confirm to what extent the desired processes were successfully implemented. These phases reinforce the social element of software development, in which "tests of strength" of the project's functionality and usability are carried out. Indeed, the testing phase attempts to compare the "symbolic level of the literate programmer with the machinic requirement of compilation and execution of the software" (Berry 2011, 68).

One of the basic tensions inherent in our process-oriented collaborative model was the language used to describe the resultant system. The digital humanists on the team called the first version of the validated system a prototype, by which we meant an initial step that exposed some of the shortcomings of the text mapping process, whereas the software engineering approach characterized the system as a product. For some on the research team, the partial operationalization of a concept was at stake, a full of implementation of which may never be possible, whereas from the software development angle it consisted of an entire "life cycle" from the taking of specifications to the delivery of a workable system. We can conclude from this difference in perspective that the cycles of labor in prototyping, or perhaps just in research where software development is especially involved, from planning, implementation to validation, are conceived of very differently across disciplines. In retrospect, working together necessitated an understanding of our mutual notions of such phases of labor in research.

In the ISO/IEC 25010:2011 standards documentation, the reader is struck by the language of engineering, functionalism and quality control, a far cry from what most humanists, even digital humanists, deal with every day. The 2011 document in question provides guidelines of what it calls characteristics and sub-characteristics for quality software development. The relevant sections of the document are contained in section 4, Terms and Definitions. Section 4.1 outlines "quality in use" characteristics and sub-characteristics, that is to say, traits of a piece of software that deal with the user experience. Section 4.2 outlines "product quality" characteristics and sub-characteristics, in other words, elements related to how the objectives set out in the design process phase are met by the software prototype. Both of these domains, the role and experience of the non-expert user, and the optimal performance of the tool, were issues of perpetual conversation and debate in our collaboration.

The principles set out in the ISO/IEC 25010:2011 document are not all applicable to the specific case of software development engaged in by the authors of this paper; for example, the principle of *freedom from risk* touches on forms of risk management that do not come into play with our text mapping tool. Likewise, the principles of *physical comfort* and *security* do not seem immediately relevant, since TopoText creates no particular physical stress and works with open source gazetteers and plain text source material. The risk of compromising the confidentiality or integrity of its users is very low to nil. The same might not be true of other software prototyping endeavors with geo-locating devices or wearable computing that collect data about users or create other physical stress. These notions notwithstanding, the characteristics and sub-characteristics of sections 4.1 and 4.2, both user-centered and function-centered, contain quite a few pertinent concepts worthy of our both attention and contextualization within current conversations in digital humanities. It is with them that we believe bridges of dialogue could be built. Space does not allow us to cover every single one of the themes evoked by the ISO/IEC 25010:2011. Here, we will limit ourselves to a brief discussion of a few of them that are most relevant to our experience within the framework of designing TopoText.

By linking various functionalities together and automating a process, some of the more rigid standards were satisfactorily met in the software prototype; without them, the prototype would not exhibit (in terms of the ISO/IEC 25010:2011) functional completeness, that is, the extent to which the software functions matched the outlined objectives. For example, the first version of TopoText aimed to map locations from texts using the Google Map API, and also to carry out what Bubenhofer has called “geo-collocation” [Geokollokationen], making spatial association of features with natural language (Bubenhofer 2014, 45–59). This approach encountered problems with erroneous spatial data. In the case of nineteenth-century novels about

London, the errors were most often mismatched with other places in the Anglophone world with locations named after the geographies of London. Although this version met the sufficient standards to carry out its functions, it left little space for effectiveness/accuracy. We did not know that we would discover something about the qualities of the data we were using—historical literary texts and a contemporary gazetteer—as well as about the processes were attempting to model. There is a growing literature on "failure" in digital humanities and the possibility of a "failure that works," leaving open the possibility of "uncovering and correcting your mistakes to be an essential part of the creative process, rather than something reserved for hindsight" (Mlynaryk 2016). It is not immediately clear if the software development world would adopt the "working failure" as part of its standard, but the notion does seem to be found lurking within Section 4.2 of the ISO/IEC 25010:2011 about product quality, in as much as *functional completeness* of a software prototype, may be satisfied, but *functional accuracy* or *appropriateness* may not.

2.3.5 Affinities Between Software Prototyping and Digital Humanities

Building on the first instance of collaboration, as well as on a functioning skeleton of the first prototype, in the second version of TopoText, we sought to integrate human judgment into the geocoding process. We changed the reference gazetteer to GeoNames and implemented a basic interface by which a list of potential matching places was produced, a function similar to the Edinburgh Geoparser's capacity to disambiguate with respect to a gazetteer. TopoText adds the function of allowing the user to rank, in an act of close reading, the best match. We also added what the layperson might call functionalities to TopoText, aspects of which are also defined by the ISO/IEC 25010:2011, a selection of the characteristics that the first iteration failed to

achieve. These include *modularity, reusability* and *maintainability; compatibility, interoperability,* and *coexistence; functional correctness*, and, from the "quality in use" section, *trust*.

Modularity insists that the implementation of the prototype should be well documented and should be based on wrappers to ensure the feasibility of future enhancement, such as replacing used technologies or integrating different libraries. Moreover, the model should be separated from the view (i.e., from ways of displaying the model) in order to support different types of interfaces for data consumers. Essentially, this quality has to do with separating the content from the form. Being an open data generator, TopoText generates a comma-separated values (CSV) file of the geographic entities included in each text matched with lat-long coordinates, which can then be exported, allowing *reusability* in other environments. It also generates the maps and word clouds of most frequent words in collocation with particular places, although in a separate browser window. Taken from this angle, the development process has aimed to keep the prototype separate from its form. Although this principle has not translated to a seamless, non-expert user experience with the tool, the notion of open data generation overlaps with the standard of *modularity*. The software engineering focus on the tool adopted an "agile scrum" approach with respect to the various functions; new functions can be added—that is, specific theoretical interventions can be operationalized—under their *modularity* and their consistency with the overall process framework. More work can be done in the case of TopoText with documenting its own interwoven process of design and theory to ensure replicability. After all, a prototype must exhibit *maintainability*, that is, it should always contain the seed of its own improvement.

Reusability is one of the key motivating factors for version 2.0 of TopoText. The question of *reusability* finds its most immediate expression in the tool's function allowing for data import and export of the tool's geo-coded data in a plain, CSV format; in other words, all data generated by TopoText is reusable in other GIS-based platforms. This sub-characteristic closely relates to *compatibility*, which houses the two subcategories of *interoperability* and *coexistence*. Both versions of TopoText were created through a deep remix of existing tools and libraries that are interoperable; in the *theoria* stages of the second iteration, the outside data source that TopoText draws upon was revisited and replaced in order to situate it within the realm of open data further; we switched from Google Maps Engine and Map API to Leaflet (an open source JavaScript library for interactive maps) and GeoNames (an open gazetteer published with a liberal Creative Commons license). As we mentioned before, sometimes a new version of a prototype might improve specific functions at the risk of outperforming previous functions. In fact, future versions of TopoText need to upgrade the visualization of its textual analysis to match the improved level of the geocoding. In sum, *interoperability* was taken into account from the beginning and in a way that would allow us to shuffle the coexisting tools as the prototyping process continued. Nonetheless, a working prototype exhibiting *modularity* exists. It remains a work in progress with its different parts changing incrementally.

Functional correctness refers to the degree to which the prototype "provides the correct results with the needed degree of precision" (See ISO/IEC 25010:2011, section 4.2.1.2. System and Software Quality Models. n.d. https://www.iso.org/ standard/35733.html). As we mentioned above, the move away from automatic geocoding toward a semi-automatic, human-in-the-loop process of disambiguation of data not only allowed for more accurate matching of place name with spatial coordinates, but it enacted one of the more interesting human-centered aspects of the

ISO/IEC 25010:2011, namely *trust*. Reincorporating human close reading, that is, human judgement about location, obviously slows down the data creation process, but it also serves as a way to peek into the "black box;" this semi-automated approach is meant to mediate between the advantages of automatic parsing, namely speed and scope, and the painstakingly slow process of manual geocoding.

2.3.6 Conclusion

Much is made of the interdisciplinary encounters in the digital humanities lab, in particular, the inclusion of other academic voices from outside the humanities, and yet much more needs to be theorized about the languages of collaborative work, especially if we imagine reaching far beyond the humanities for potential collaborators. Such collaborative work necessarily means venturing into disciplinary conventions and idioms that appear foreign and even alienating. Navigating such radically different discourses is tantamount to analyzing, and even deconstructing, the "boundary-work" of disciplinary construction (Klein 2006, 265–283). We might call it a form of digital humanities translanguaging, moving beyond established academic language systems, in order to draw upon complex semiotic resources for enacting our transdisciplinary research. The examples of the International Organization for Standardization (ISO) document have provided us with some starting points for a dialogue with other disciplines, in what might just be an opportunity to infuse lessons learned from critical digital humanities into a software development model. Experimental prototypes such as TopoText implement any number of important design decisions that are based upon theoretical positions, for example, about the value of the human in semi-automated computational processes. Although notebooks have not been built for TopoText, as Rockwell and Sinclair suggest, it is perhaps a valuable next

step as they document for others how theoretical positions become instantiated in code and then developed towards software. For a third iteration, we plan to continue thinking through the terminology of the standards explored in this article, and about how to continue prototyping across disciplines in a meaningful way, seeking points of interest or overlap between what might appear to be divergent research goals. One of the foci will be on the *usability* and *operability* of the prototype, characteristics which refer to the attributes that make software easy to use and control, in particular for non-expert users. This effort will focus on existing functionalities but will address interface design aesthetics, that, incidentally, are also covered in the standards. Software is meant for something more than an end in itself. Software developers work on innovating their methods in order to fine tune practical applications. Instead of viewing the standards as a technical and limiting framework, or as a strictly industry-based, product-driven set of rules alien to the type of work carried out in digital humanities, let us continue to think of ways that the standards might be drawn upon as resources to shape critically informed guidelines that will enable next-generation software. The standards can, and should, be approached critically, conceived of as a core part of the prototyping process that allows for future flexibility, given changing project goals or project team members, rather than serving as an ideal to which all products conform.

Chapter Three: Laying the Foundation for Community-Driven, Open Cultural Gazetteers

3.1 Conceptual Framework

The third chapter is concerned with forms of modelling data and modelling process that are more commonly practiced outside the humanities and explores their potential for aiding humanities scholars in creating rich datasets that can inform geospatial research. Up to this point, the dissertation has primarily focused on modelling data using core materials in the form of text to carry out text-to-map conversions; however, a contemporary view of geospatial humanities would be incomplete without looking at VGI and participatory mapping practices. The first two chapters of the dissertation focus on prototypes that carry out automatic and semi-automatic geoparsing. They conclude that TopoText and TopoText 2.0 provide a solid entry-point into building datasets for geospatial humanities research, and that word-place collocations allow for a macro-reading approach to study the literary geography of texts that can be combined with close reading practices for a more in-depth study. This is because the data created from geoparsing and some weighing of places is not in itself sufficient for an in-depth spatial analysis, and creating rich or layered data is a time-consuming and expensive task. Therefore, this chapter argues that drawing on VGI practices can help create rich cultural gazetteers for real and fictional places in a format that can be useful for humanities scholarship. Doing so would pave the way for collaborative efforts in creating datasets that can stand as Lower Criticism materials in themselves to inform literary interpretation, as well as support community-engaged scholarship. The overview and chapter are meant to provide some context for VGI and how it is currently being used as a tool for social justice, as well as to explain why members of the general or of specific publics may become involved in VGI efforts for literary studies. The concept of cultural gazetteers is based on early modern English chorographical and travelogue traditions that

meticulously record geographical, anthropological, ecological, historical, and other relevant information about places in order to create a narrative of nationhood in England and an understanding of foreign countries at a time when secular travel had started to become more common. Drawing on these early modern chorographical traditions and on current examples of cultural gazetteers, the chapter explores how rich datasets can be modelled. Together, the chapter concludes that more process modelling and data modelling are required in this area to benefit from the potential of VGI for creating community-driven cultural gazetteers for geospatial humanities research.

Over the last several decades, VGI has become more common and informs many projects and open access services that supply free geodata today. VGI was first coined by Michael Goodchild, who defines it as

> "…the widespread engagement of large numbers of private citizens, often with little in the way of formal qualifications, in the creation of geographic information, a function that for centuries has been reserved to official agencies. They are largely untrained and their actions are almost always voluntary, and the results may or may not be accurate. But, collectively, they represent a dramatic innovation that will certainly have profound impacts on geographic information systems (GIS) and more generally on the discipline of geography and its relationship to the general public." (2007 n.p.).

Goodchild's predictions were accurate: ranging from data gathered by enthusiast mappers to citizen scientists and scholars, VGI is widely available on the web today and is used for far-reaching purposes, some of which are described in this chapter. VGI is created is through handheld devices that geotag information, as well as through other types of devices and directly through apps and platforms that support the input of geographical information.

Current GIS and GeoWeb technologies have revolutionized our engagement with the world through an essential principle: for the first time with such ease and at such a scale, non-experts and members of the public have access to and control over the narratives that maps tell and can create their own spatial data. Historically, maps have served innumerable purposes, ranging from physical representation of space for essential human activities to the depiction of celestial constellations. Apart from their direct purpose of wayfinding and navigating the world, maps have also served as tools of oppression. Modern cartography is directly connected to colonial expansion, colonialism, and imperialism (Stone 1988). Throughout this history, maps have been passed from the top down, thereby also erasing customary boundaries, traditional place names, and other indigenous and local knowledge over time. The development of accessible GIS technologies and the increased participation of volunteers and citizen scholars in geographical knowledge production, such as through VGI and community-based or participatory mapping, supply social justice-oriented projects that help counter, rewrite, or at least portray parallel histories and narratives to the dominating ones passed from the top down.

The last few decades have seen a surge in using open technology and open knowledge as a means for social justice and cyberactivism. Communities that comprise virtual public spheres involved in activism and social movements are plentiful and continue to expand. These movements demand a revisit of the established discourse and practices that they respond to or counter. For example, movements such as Stop the War Coalition in Britain have been mobilizing crowds to demonstrate against wars taking place across the world, with early campaigns against the Afghanistan and Iraq war, and more recently, against the Saudi Arabia-Yemen conflict and ensuing famine. Exploring the roots of activist movements, Kate Milberry (2006) makes a connection between tech activism and the Free Software Movement (FSM)

ethos. Politicizing technology, according to Milberry, can either have liberating or oppressing ramifications. One way the former ethos is expressed is by creating technology that reflects the values of these communities, such as transparency, accessibility, and decentralization. In doing so, FSM and tech activist practices are not only aimed at moving closer to global justice, but also at furthering the open-source ethos. The uptake of social justice-oriented values in the digital humanities has also been ever-increasing; in 2012 Elizabeth Losh quoted Cathy Davidson's blog post "Drinking the HASTAC Kool-Aid" (posted on June 16, 2009):

> It's not only "digital humanities"...but it is "humanities" in the even more traditional sense of concern for the deep issues of humanity and society…issues of equity and ethics and humanity, issues of what it means to be human…, issues of learning and history and introspection, issues of culture, multiculturalism, community, communication, and interaction. (n.p.)

In doing so, Losh situates the humanities and the digital humanities with respect to other as discursive publics who are invested in reorienting the relationship of knowledge to power, such as FSM and hacker culture (Kelty 2008), as well as tech activist movements (Milberry 2006). Losh also addresses the core disciplinary investment in and concern about society in a way that speaks to humanities disciplinary values. More recently, Lauren Klein and Matthew Gold echo this rhetoric in their introduction to the 2016 *Debates in the Digital Humanities* by highlighting the "markedly political bent" of digital humanities, particularly in a US context, which has become even more apparent in the 2019 volume, stating that digital humanities can play a role in bringing new voices and ideas to the forefront, as well as making apparent injustices and addressing societal changes. This trend can be seen more widely across academia and in the development of community-university partnerships through crowdsourcing, citizen scholarship,

and other models invested in projects that extend knowledge on topics of social concern, historically and presently. Markedly, the orientation of academia and society at large toward social justice came precisely at the point where technology could support it.

One term used to describe some of the work carried out by non-expert users for personal or community aims, but not encompassing of all VGI projects, is neogeography. An example is the Montreal community-built Queering the Map project that allows users to anonymously geolocate moments of queer memory in the physical spaces that they occurred in through memory tags, with the goal to enrich the global collective memory of queerness.
Another example is the LEO Network, a VGI platform launched by the Alaska Native Tribal Health Consortium (ANTHC) after Arctic communities started experiencing significant impacts from climate change. The platform has extended its scope to track climate change across the whole world. Specifically, it allows people to share knowledge about unusual animal, environment, and weather events and helps connect them to topical experts with the goal of tracking and understanding connections between climate change, environmental impacts, and health.

VGI can also be expressed through participatory and community-based mapping, which refers to a plethora of techniques and practices by communities that employ modern geospatial tools and approaches to record an aspect of their local area. The type of information produced by participatory mapping often communicates knowledge that is not found in formal maps or spatial repositories. Participatory mapping includes a wide range of practices; for example, places that lack high-quality geodata can supply it by collaborating on producing geographical information locally. Additionally, communities can enrich maps by creating layers that communicate aspects of local culture and society, such as places of customary land boundaries, historically significant

places, and sacred places. University of Victoria's Ethnographic Mapping Lab engages in several community-based projects using GIS to study occupancy mapping and traditional land use in indigenous communities. One project that employs participatory mapping is the Stz'uminus Storied Places Digital Atlas research project led by Amy Becker and Dr. Brian Thom in which Elders share knowledge about the Stz'uminus territory through a youth-involved initiative. That knowledge is converted into an interactive digital atlas with video stories plotted onto the interface, created to mobilize traditional knowledge about the territory. The interactive atlas will be made available for the Stz'uminus First Nation, and later to the public pending on the Stz'uminus Nation's review and approval ("Ethnographic Mapping Lab").

Community-based mapping through participatory mapping, VGI, and community-university partnerships have been aimed at providing useful information for local and global communities in a way that allows for a more multifaceted worldview and historical record, evoking Westphal's concepts of transgressivity, heterogeneity of space, and plurality of space addressed in chapter one. They also demonstrate alternative ways of modelling data beyond texts, many of which are modelled on real-life locational information, multimedia, and other sources. What they demonstrate is a use of geospatial technologies and VGI in order to create large amounts of data that is targeted at a particular problem or topic to produce knowledge about it, thereby countering commercialization of geodata and its gatekeeping by commercial entities.

Shifting back to geospatial humanities, this chapter explores the potential of VGI to contribute to humanities knowledge by modelling rich datasets that can be useful for research. The question is, how can VGI be harnessed in a way that emulates humanities disciplinary values, and how can those models be implemented? The VGI context provided in the previous

paragraphs points to how the technology is available and citizen scholars are already contributing to projects that they find worthwhile. Humanities projects often address meaningful historical or literary problems and nuances that have real-world value or captivate peoples' imaginations—a concept I return to in the chapter in the context of literary topophilia. An example is the LitLong project that maps over 600 books set in Edinburgh in which users can create their own paths through places that evoke literary topophilia. Creating geodata from gazetteers, as demonstrated in the two TopoText iterations, can provide a solid foundation for building datasets, but for the identified spaces to become places, they need to acquire meaning (Tuan 1979). Therefore, the datasets need to be enriched to become a form of Lower Criticism that can supply knowledge and interpretation. Contemporary digital spatial gazetteers from which geodata is derived today are primarily scientific and hold information such as elevation, population, and other details not often used in humanities research. Instead, this chapter argues that through community effort, we can build open cultural gazetteers that support a more in-depth representation of places such as their historical context and literary significance. In order to model cultural gazetteers, the chapter itself looks to early modern traditions engaged in the description of places, such as chorographies and travelogues. Notably, these traditions reached their peak at the same time as the spatial boom and shift to modern cartography occurred in the mid-sixteenth century, marking an increased interest not only in spatial information, but in contextualizing, understanding, and learning about places.

The cultural gazetteers addressed in this chapter are inspired by early modern chorographical traditions. In the sixteenth and seventeenth century, chorographical traditions were also referred to as "surveys" or "descriptions"—words that also describe the actions of authors who were surveying or describing places (Helgerson 1992, 131). The distinguishing

feature of this genre is its concern with place, as opposed to chronologies that are concerned with time. Although the two are not mutually exclusive, since many chronologies are concerned with the description of places and chorographies often provide historical accounts of places they describe, chorographies are primarily structured around places in a county, region, or other geographical area. Helgerson describes chorographies as "repositories for proper names" with "discursive descriptions" in which hundreds, and even thousands of other names from ancient to modern places can be found (133). A straightforward parallel, then, can be drawn between chorographies and gazetteers that, at their core, are repositories for proper names. However, as Mostern, Southall, and Berman (2016) argue, contemporary gazetteers lack information about places with uncertain location, historical place names, and contextualizing information about their historical, literary, or other significance, and are therefore not very useful for humanities research. Instead, they call for the creation of cultural gazetteers that include this contextualizing information and show variation over time. Information recorded in early modern chorographies includes descriptions of "places too small to be mapped; names of particular properties, buildings, and institutions; names of families and of individual people" (133)—which capture the type of information that Mostern, Southall, and Berman argue can help trace historical change and the significance of places. Chorographies also include other type of information such as religious, anthropological, agricultural, ecological, and other details that can animate a point on a map or enrich a spatial dataset. Through their descriptions, chorographies turn space into place. Below is an example from William Camden's chorography *Britannia*, where he describes the places he came across in Sussex:

> *Chichester, in British Caercei, in Saxon Cissan|ceaster, in Latin Cicestria, stands in a Plain farther inwards, upon the same arm of the sea with Boseham, a pretty large city,

> and wall'd about; built by Cissa the Saxon, the second King of this Province; taking also it's name from him. For Cissan-ceaster is nothing else but the City of Cissa, whose father Aella was the first Saxon that here erected a kingdom. Yet before the Norman conquest it was of little reputation, no|ted only for St. Peter's Monastery, and a little Nun|nery. But in the reign of William 1. (as appears by Domesday book) there were in it 100 Hagae, and it was in the hands of Earl Roger†; and there are in the said place 60 houses more than there were before: It paid 15 pound to the King, and 10 to the Earl. (170)

In the passage, Camden centres his descriptions around places and provides useful contextualizing information such as varying place names, a description of the place, a historical breakdown—even if anecdotal, and information about population and taxes. In a later description of a neighboring place, Camden even consults poetry and several historical sources to properly describe it. These excerpts from chorographies are unstructured and often the descriptions are not standardized, meaning that each entry is accompanied with a unique characterization. That said, chorographical entries offer numerous insights into the type of information that could be gathered about a place, which could be implemented into a data model that would organize cultural gazetteers into more human- and machine-readable formats.

The chapter points to some notable examples of cultural gazetteers such as the The Map of Early Modern London Gazetteer, Pelagios Commons, Pleiades, and Wikipedia. Since the writing of the chapter, the Digital Sixteenth Century Gazetteer of New Spain that contains historical places in Mexico has been published in a variety of formats. Additionally, Wikidata has taken off and now includes entries for place names with their descriptions standardized and organized to be reusable; however, it does not contain the wealth of descriptions and information that Wikipedia has, primarily stating facts such as population, capital city, names of politicians

and municipalities, and other details. In time, Wikidata will surely evolve into a rich community-driven cultural gazetteer as well. Current best practices in research data management also call for scholars to publish their datasets in open access so that they can be reusable by others. The hesitation of digital humanists to adopt this practice more fully ties into questions of labour and funding that goes into creating datasets. Nonetheless, some researchers still share their datasets on platforms such as the open-access repository Zenodo (2013). The chapter itself argues for creating more projects that would draw on VGI technologies to collect information about real and fictional places to create open, community-driven, cultural gazetteers. A combination of accessible VGI technologies and literary topophilia can help involve readers in this type of research, since literary space and place has always occupied a place in the readers' imagination. To encourage such community-university partnerships, more prototyping needs to take place to create tools, platforms, and apps that incentivize people to contribute to them, such as through storytelling, gamification, reward systems, and other means. These cultural gazetteers and the research produced from them would have to be openly available and meaningful to the publics that helped generate them.

3.2 Laying the Foundation for Community-Driven, Open Cultural Gazetteers[12]

3.2.1 Introduction

Geospatial humanities, a subfield of digital humanities that applies Geographical Information Systems (GIS) technologies to the humanistic study of spatiality in texts, relies heavily on information found in geographical databases for supplying the backbone for projects (Kallaher

[12] This section reprints the following article: Randa El Khatib, "Laying the Foundation for Community-Driven, Open Cultural Gazetteers," *KULA: Knowledge Creation, Dissemination, and Preservation Studies* 3, no. 1 (February 2019): n.p., http://doi.org/10.5334/kula.53.

and Gamble 2017). Currently, a majority of digital resources that supply geodata for humanities projects are spatial gazetteers which, in addition to place names and their geographical coordinates, conventionally provide information about the type of entity, population count, and elevation of a location. In some isolated cases, gazetteers contain additional information such as alternative place name spellings; although this type of information is useful for humanities research, especially for those working with historical material, existing methodologies for automatically extracting that information are not always straightforward. Concurrently, contemporary spatial repositories are overflowing with information from volunteered geodata, a phenomenon expedited by a combination of user-friendly technology for recording and uploading spatial information, and an increased participation of the public in data contribution. Information collected through these devices is often centered on cartographic exactitude and a detached representation of space, while lacking data that animates and contextualizes place name occurrences. In order to build cultural gazetteers that would inform humanities research, it is worthwhile to assimilate models from early modern chorographies using contemporary approaches to data collection.

3.2.2 Volunteered Geographical Information

Volunteered geographical information (VGI) is among the most widespread user-generated content of the last decade. Apps such as *Waze* (Waze 2006), a community-driven navigation app that aids drivers by supplying real-time information about traffic, roadblocks, and other road-related information uploaded by drivers, are plentiful and are used by millions daily. In this way, VGI makes up for unavailability of geographical data and counters restrictions imposed by commercial providers. An example is OpenStreetMap (OSM), a project driven by VGI aimed at

creating a free, editable map of the world. The platform supplies the infrastructure for a number of other projects, such as the open-source JavaScript library for interactive maps called *Leaflet* (Agafonkin 2017). Aggregated by millions of users and expanding daily, OSM contains geographical points of interest from users around the world. Two of OSM's primary hosts are University College London and Imperial College London, making it a noteworthy example of a technology-driven open knowledge initiative founded on collaboration between the university and members of the public. At the same time, VGI is increasingly being employed in the study of linguistic landscapes, a multidisciplinary area that draws on linguistics, sociology, geography, and anthropology (Ben-Rafael, Shohamy & Barni 2010), to study how '[t] he language of public road signs, advertising billboards, street names, place names, commercial shop signs, and public signs on government buildings combine to form the linguistic landscape of a given territory, region, or urban agglomeration' (Landry and Bourhis 1997, 25). These projects are increasingly relying on user-friendly apps to record and upload geographical information in real time.

3.2.3 Digital Gazetteers

Digital gazetteers are the knowledge bases that supply infrastructural data for geospatial humanities research (Mostern and Johnson 2008, 1091). Gazetteers are curated by global, transnational, and national web services that provide geographical information; some gazetteers also include VGI. For instance, *GeoNames*, one of the largest open source digital gazetteers, is compiled through a combination of web services and user correction and expansion. Some libraries in *GeoNames* are created entirely by members of the community and are exportable in a number of computer languages for reuse. *GeoNames* contains over nine million unique entries and five and a half million alternate place names, making it a valuable geographical database for

historical research. According to Gao et al. (2017), '[e]xisting GIS and spatial databases are mature in representing space, but limited in representing place' (173). Elaborating on the conceptual difference between space and place is Yi-Fu Tuan (1979), who argues that place not only signifies a unit of location within the larger frame of space, but also 'a reality to be clarified and understood from the perspectives of the people who have given it meaning' (387). Consequently, a place begins to emerge by extending the focus beyond the place name mention to the different meanings given to it through narratives. In 'On Historical Gazetteers,' Ruth Mostern, Humphrey Southall, and Lex Berman (2016) argue that humanities research often requires information about places, the locations of which have not been determined with certainty; how places and names have evolved over time; and descriptions of places that contextualize them. This type of information is not typically supported by conventional spatial gazetteers, which necessarily excludes an entire dimension of subjective or ambiguous spatial information that is so central to humanities research. As a response, the authors call for building cultural gazetteers that will move beyond the geographical description of a place to additionally provide information about its historical significance and identity. Bringing together contemporary methodologies, such as extracting information from gazetteers, relying on user-friendly apps, and building on volunteered geodata, can lay the foundation for open, community-based, cultural gazetteers that focus on a more in-depth representation of places.

3.2.4 Literary Topophilia and the Role of the Public

Apart from the technological support for transmitting geodata through mobile navigation devices, a crucial motivation for VGI and other forms of volunteered data appears to stem from a new form of social responsibility that has been expanding in the last decades of the digital age.

This phenomenon can be witnessed in the overwhelming amount of contributions to global knowledge on the Internet. But how can we channel this practice into motivating users to contribute information about places to enrich cultural gazetteers? In a sense, members of the public already are—and have always been—inquisitive about places of their literary topophilia. The term 'topophilia' is adopted from Yi-Fu Tuan's Topophilia: A Study of Environmental Perception, Attitudes, and Values (1972), and is also discussed at length by Gaston Bachelard in Poetics of Space. Topophilia is broadly described by Tuan (1972) as the 'affective bond between people and place or setting' (4); this general definition is adopted here to describe the love of places or settings in texts and fiction, broadly categorized as 'literary.' For Bachelard, topophilia occupies a more poetic space that can be applied to places we love and feel a connection to, such as the places where we grew up. Bachelard argues that spatial associations are so strong, in fact, that memory functions in a spatial rather than temporal dimension (1994); according to him, remembering a moment in the past first happens by remembering the setting, and then the time and context. Literary topophilia does not conform to the corporeal dimension outlined by Tuan and Bachelard and is more of an abstract association, although this form of topophilia is not necessarily perceived as less intimate or real. Entire volumes have been written on places of literary topophilia, such as The Dictionary of Imaginary Places by Alberto Manguel and Gianni Guadalupi (1999), a 755-page book that names and describes thousands of imaginary places. Places of literary topophilia are ironically separate from academia and are often supplied by popular or public culture. Some examples of places that have culturally induced literary topophilia are J.K. Rowling's Hogwarts, J.R.R. Tolkien's Middle Earth, Arthur Conan Doyle's Baker Street, Charles Dickens' London, James Joyce's Dublin, and Jane Austen's Pemberley, among many others. These fictional places occupy such a significant part of our imagination that

some of them have been commercially recreated in the real world, such as the Shire in New Zealand, or The Wizarding World of Harry Potter chain in several countries. Places that figure in texts, whether they are entirely fictional or not, can and have become places of literary topophilia.

3.2.5 Contemporary Cultural Gazetteers

Cultural spatial gazetteers first appeared in print form; with the advent of the digital age, researchers have been experimenting with ways to collect, store, present, and reuse data in their digital counterparts. Some of these projects have been successfully carried out in the humanities, such as *Pelagios Commons*, *Pleiades* (Bagnall et al. 2016), and 'The *MoEML* Gazetteer of Early Modern London' (Jenstad and McLean- Fiander n.d.). *Pelagios Commons* is an infrastructure and community for linking open geodata. It provides the platform and tools for researchers to semi-automatically annotate place name occurrences in texts using a tool called *Recogito*, and to link them internally and externally to other works. This platform supports the multilayering of information in a user-friendly interface; for example, it records the type of place, its source, languages in which it appears, a timeline for when it was mentioned, and other useful place-specific information. *Pelagios Commons* draws its geodata from gazetteers such as *Pleiades* (Bagnall et al. 2016) and *GeoNames*. *Pleiades* (Bagnall et al. 2016) is an open, community-built gazetteer that includes information about ancient places, is navigable by individual users, and supplies geodata for computational extraction. 'The *MoEML* Gazetteer of Early Modern London' is the first digital gazetteer for place names in early modern London, circa 1550–1650, with categories comprising Variant Toponym, Authority Name, @xml:id, Agas Map Reference, Other Variant Names and Spellings, and Location Type. The aforementioned resources are notable

examples of community-driven platforms and gazetteers that provide valuable information and enable research questions; currently, all three are necessarily limited to specific time periods based on their disciplinary foci.

An alternative example of a community-driven open cultural gazetteer is *Wikipedia* (Wikipedia, The Free Encyclopedia 2001), one of the most comprehensive single resources for spatial data—that includes real and fictional places and covers an indefinite span of time. *Wikipedia* is linked to *GeoHack*, a gazetteer that provides geographical data in multiple formats and includes corresponding maps. The primary advantage of *Wikipedia* as a community-driven cultural gazetteer is that it supplies extensive notes about places, counting place name spellings, place significance, historical context, change over time, and other contextual information that users contribute. Such discursive information can help identify a given geographical entity, which is especially useful when working with historical texts—not least because many place names correspond to locations that are not determined with certainty and because it is not always clear what location a place name is referring to. In these cases, instead of suspending ambiguous geographical entries altogether, as most spatial repositories would, *Wikipedia* retains this data and editors often provide a map pointing to the general area where the place might have been located. Retaining this information adds an entire dimension of data that enables robust research over cherry-picking available geographical entries. It is *Wikipedia*'s less rigid structure that supports the capacity for continuously enriching entries that gives it the opportunity to augment. However, this open structure is precisely its drawback when attempting to automatically extract data from *Wikipedia* for large projects: namely that categories vary from page to page rather than adhering to a standardized format. This configuration makes *Wikipedia* a valuable resource for conducting research on historical places, and less useful for automatic extraction that relies on

standardized categories. Attempts are being made by the Wikimedia Foundation to address this issue. *Wikidata* (Wikidata 2012) is a collaboratively edited knowledge base published under a Creative Commons license that is intended to supply open data for Wikipedia and other Wikimedia Foundation Projects, as well as for anyone who wants to use their structured information. However, Wikidata is still at too early a stage (with respect to *Wikipedia*) to rely on for geodata.

3.2.6 Revisiting Early Modern Chorographical Traditions

Enriched gazetteers align more closely with the model set out by earlier humanities traditions in works that focus on recording and describing places. Mostern, Southall, and Berman (2016) provide an overview of the history of these traditions and trace their collapse to the nineteenth century. This geographically-oriented genre was pioneered by early modern writers roughly around the sixteenth century, at a time that was marked with a heightened attention towards spatiality, which is palpably evident in the abundance of published atlases, chorographies, and travelogues. One example of this genre is William Camden's *Britannia*, first published in 1586 (Camden 1633) and followed by numerous editions. *Britannia* is the first chorographical survey describing the islands of Great Britain and Ireland in which Camden traces the historical roots of the Silures, Brigantes, Scots, Saxons, and Normans in an attempt to tie Britain to its antiquity and to portray how they were unified through the same language and land. Consider Britannia's entry on Dobuni; Camden writes:

> The part, that lyeth more West beyond Severne, (which the Silures in old time possessed) along the revier Vaga or Wye, that parteth England and Wales, was wholy bespred with thicketall woods: we call it at this day, Deane-forrest: The Latin writers some name it of

> the Danes Danice Sylva the Danes wood, others with Girald, the Wood of Danubia. But I would thinke…it was called Deane, for Arden. Which term both Gauls and Britains in ancient times may seeme to have used for a wood. (1833, 358)

In this entry, Camden provides information about places, alternative place names and place name spellings, the possible origins of their names, and how they were called by different communities. Additionally, he explains that numerous crimes used to occur in those woods and that '[f]or the reigne of Henry the sixt… there were lawes made by authority of the Parliament, for to restraine them. But since that Mines of Iron were heere found out, those thicke woods began to wax thin little by little' (1833, 358). This passage contains historically significant information about natural resources and deforestation in that area, which gives readers an idea about what the landscape looked like before the unearthing of natural resources began and under whose reign it occurred. Camden's entry captures a more localized and specific representation of a place through its narrative style. *Britannia* and many other chorographies and itineraries of the time focus on topographical features, while simultaneously recording anthropological information. Instead of implying that all the information listed in Camden's Dobuni entry needs to be included in cultural gazetteers, the example is meant to show that cultural gazetteers were fairly common and that we can learn a great deal about modelling current digital cultural gazetteers by exploring that tradition.

3.2.7 Conclusion

Projects that rely on VGI for building gazetteers exist. We need to decide which models work best for geospatial humanities research, and what type of information should be included in cultural gazetteers. For example, should we model gazetteers based on *Wikipedia*? If so, do we

keep contributing to *Wikipedia*, since it has accumulated a tremendous amount of information already, and focus our energies on making it more reliable for data extraction and manipulation instead? *Pelagios Commons*, *Pleiades*, and 'The *MoEML* Gazetteer of Early Modern London' provide strong models as well; the next steps would involve deciding on how to augment contextual information about places and aggregate them for a wider disciplinary span. Building on the notion of literary topophilia, how can volunteers harness mapping platforms to actively participate in data generation in an engaging way, such as through gamification or connecting to existing platforms? At this point, we need more experimental prototyping to develop engaging ways to contribute volunteered data to repositories; we also need to consider sustainable ways to house this information on a single open-source platform. Whichever path the development of these cultural gazetteers takes, they will not be limited to real places, but will also accommodate imaginary places of literary topophilia.

Chapter Four: Mapping the Moralized Geography of *Paradise Lost*

4.1 Contributions to the Project

For this project and publication, I undertook a variety of tasks, including:

- lead author of the article, including conceptualization, drafting, and revisions. David Currell joined as a co-author after the initial peer review stage and collaborated with me on the publication after that point.
- sole creator of the dataset that informs the project.
- lead project designer and manager of A Map of the Moral Geography of *Paradise Lost* (the prototype), working with Marcel Schaeben who took on the role of software developer on implementation.

4.2 Conceptual Framework

In the first two chapters, I discuss the modelling of data and modelling of process to create datasets that convert texts into maps, and study how the two geospatial prototypes can combine Lower and Higher Criticisms for a literary geography analysis. Both prototypes embody automatic and semi-automatic modes of data modelling that perform large-scale, macro-reading approaches that quickly convert texts into maps with some word collocations in search of patterns, and return to the text for evidence to support or refute arguments. In doing so, chapter two also proposes one solution to a challenging issue in geospatial research: correcting mismatched data through a "human in the loop" functionality that marries the speed of automation with accuracy through assisted manual corrections. Together, TopoText and TopoText 2.0 manifest an interpretation of a digital geocritical approach in a way that facilitates the study of multiple works from a geocentral perspective. Chapter three is concerned ways in

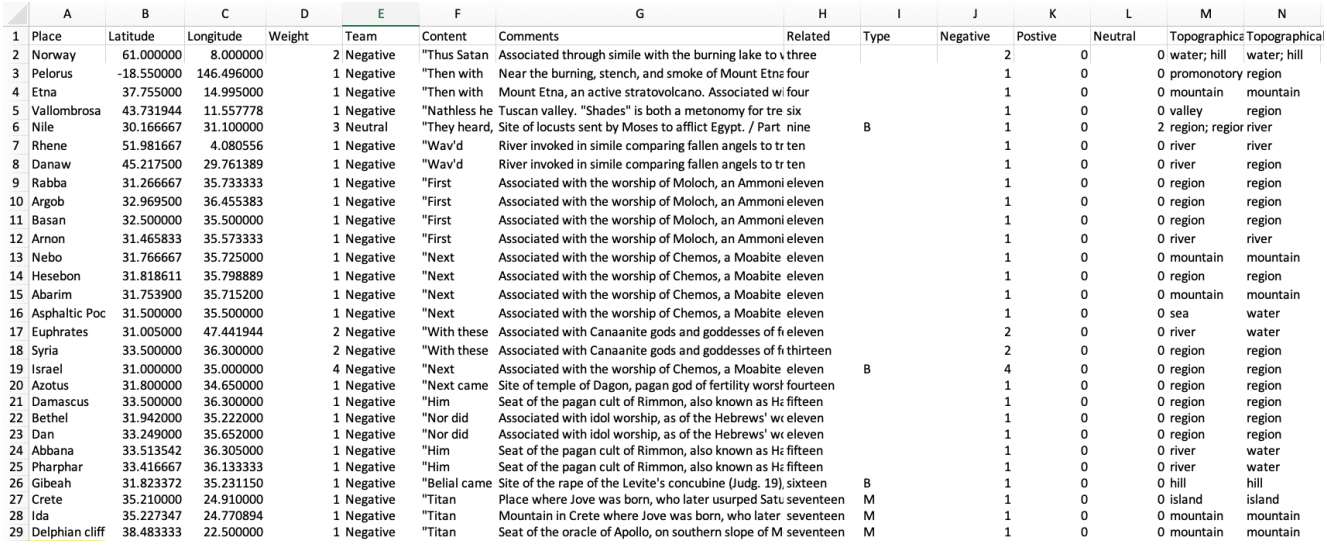
which humanities scholars can model rich datasets through community-engaged efforts such as VGI to build cultural gazetteers that can inform geospatial humanities inquiries. The final two chapters offer a deep dive into the literary geography of a single work through a manual data creation approach to build rich datasets that can be used for literary interpretation. Namely, they focus on A Moral Geography of *Paradise Lost*, a project that was later renamed to A Map of *Paradise Lost* detailed in the final chapter. Although A Map of *Paradise Lost* enhances and expands certain features of the initial project, this dissertation does not treat them as separate iterations because they have similar core aims, whereas the differences between the aims, methods, and outputs TopoText and TopoText 2.0 are substantial enough to treat them as separate prototypes.

In effect, this project argues that geospatial prototypes can serve as contributions to knowledge in themselves and that traditional literary studies methodologies such as close reading in search of evidence to support or refute an argument can be visualized to invite new modes of literary interpretation. In addition, this chapter demonstrates how mixed-media projects that draw on materials beyond the primary text, such as images, maps, and editorial notes can manifest in rich, immersive humanities projects. In particular, the prototype creates a rich map of the terrestrial locations in John Milton's *Paradise Lost* that geovisualizes a critical close reading and serves as an exploratory tool to engage more deeply with the spatiality of the epic poem. The chapter also argues that manual data gathering approaches that layer data with meaning can generate datasets from which literary interpretation can be drawn directly. This is demonstrated by building a rich dataset to test the hypothesis that Milton assigns moral categories to place names at use for poetic effect or for perpetuating the valences assigned to places by his

contemporaries writing at a time of heightened attention toward space and place in seventeenth-century England.

This chapter analyzes the multitemporal richness of Milton's geographical imaginary that spans biblical, classical, and early modern registers by mapping places in *Paradise Lost* and interpreting Milton's geographical allusions. The result of this endeavor is a navigable, multilayered, interactive map that can be used to explore various dimensions of *Paradise Lost*. Through a geovisualization of the epic poem, the chapter traces the hypothesis that Milton's geography is moralized: that place names are associated with moral valences informed by Milton's contemporary culture, as well as biblical and classical allusions. In doing so, it represents the moralized, historicized space of the epic poem through a layered depiction of the Mediterranean basin and the Holy Land, and in the chapter interprets the visualizations of these territories by drawing on the cultural context of Milton's period.

Paradise Lost is a retelling of Genesis in the form of an epic poem written in blank verse first published in 1667 in 10 books, and again in 1674 in 12 books, rearranged by Milton himself. In this work, Milton uses ancient geographical naming for poetic weight, with modern place names and references to cutting-edge land surveying practices and navigational maps that are up to date with the year of the poem's publication. The latter point is especially noteworthy since Milton had been blind for well over a decade when *Paradise Lost* was published, therefore his references to the rapidly evolving cartographic and geographical landscape of the seventeenth century points to his continued preoccupation with those areas.



	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Place	Latitude	Longitude	Weight	Team	Content	Comments	Related	Type	Negative	Postive	Neutral	Topographica	Topographical
2	Norway	61.000000	8.000000	2	Negative	"Thus Satan	Associated through simile with the burning lake to v	three		2	0	0	water; hill	water; hill
3	Pelorus	-18.550000	146.496000	1	Negative	"Then with	Near the burning, stench, and smoke of Mount Etna	four		1	0	0	promonotory	region
4	Etna	37.755000	14.995000	1	Negative	"Then with	Mount Etna, an active stratovolcano. Associated wi	four		1	0	0	mountain	mountain
5	Vallombrosa	43.731944	11.557778	1	Negative	"Nathless he	Tuscan valley. "Shades" is both a metonomy for tre	six		1	0	0	valley	region
6	Nile	30.166667	31.100000	3	Neutral	"They heard,	Site of locusts sent by Moses to afflict Egypt. / Part	nine	B	1	0	2	region; regior	river
7	Rhene	51.981667	4.080556	1	Negative	"Wav'd	River invoked in simile comparing fallen angels to tr	ten		1	0	0	river	river
8	Danaw	45.217500	29.761389	1	Negative	"Wav'd	River invoked in simile comparing fallen angels to tr	ten		1	0	0	river	region
9	Rabba	31.266667	35.733333	1	Negative	"First	Associated with the worship of Moloch, an Ammoni	eleven		1	0	0	region	region
10	Argob	32.969500	36.455383	1	Negative	"First	Associated with the worship of Moloch, an Ammoni	eleven		1	0	0	region	region
11	Basan	32.500000	35.500000	1	Negative	"First	Associated with the worship of Moloch, an Ammoni	eleven		1	0	0	region	region
12	Arnon	31.465833	35.573333	1	Negative	"First	Associated with the worship of Moloch, an Ammoni	eleven		1	0	0	river	river
13	Nebo	31.766667	35.725000	1	Negative	"Next	Associated with the worship of Chemos, a Moabite	eleven		1	0	0	mountain	mountain
14	Hesebon	31.818611	35.798889	1	Negative	"Next	Associated with the worship of Chemos, a Moabite	eleven		1	0	0	region	region
15	Abarim	31.753900	35.715200	1	Negative	"Next	Associated with the worship of Chemos, a Moabite	eleven		1	0	0	mountain	mountain
16	Asphaltic Poc	31.500000	35.500000	1	Negative	"Next	Associated with the worship of Chemos, a Moabite	eleven		1	0	0	sea	water
17	Euphrates	31.005000	47.441944	2	Negative	"With these	Associated with Canaanite gods and goddesses of fi	eleven		2	0	0	river	water
18	Syria	33.500000	36.300000	2	Negative	"With these	Associated with Canaanite gods and goddesses of fi	thirteen		2	0	0	region	region
19	Israel	31.000000	35.000000	4	Negative	"Next	Associated with the worship of Chemos, a Moabite	eleven	B	4	0	0	region	region
20	Azotus	31.800000	34.650000	1	Negative	"Next came	Site of temple of Dagon, pagan god of fertility worsl	fourteen		1	0	0	region	region
21	Damascus	33.500000	36.300000	1	Negative	"Him	Seat of the pagan cult of Rimmon, also known as Ha	fifteen		1	0	0	region	region
22	Bethel	31.942000	35.222000	1	Negative	"Nor did	Associated with idol worship, as of the Hebrews' wo	eleven		1	0	0	region	region
23	Dan	33.249000	35.652000	1	Negative	"Nor did	Associated with idol worship, as of the Hebrews' wo	eleven		1	0	0	region	region
24	Abbana	33.513542	36.305000	1	Negative	"Him	Seat of the pagan cult of Rimmon, also known as Ha	fifteen		1	0	0	river	water
25	Pharphar	33.416667	36.133333	1	Negative	"Him	Seat of the pagan cult of Rimmon, also known as Ha	fifteen		1	0	0	river	water
26	Gibeah	31.823372	35.231150	1	Negative	"Belial came	Site of the rape of the Levite's concubine (Judg. 19),	sixteen	B	1	0	0	hill	hill
27	Crete	35.210000	24.910000	1	Negative	"Titan	Place where Jove was born, who later usurped Satu	seventeen	M	1	0	0	island	island
28	Ida	35.227347	24.770894	1	Negative	"Titan	Mountain in Crete where Jove was born, who later	seventeen	M	1	0	0	mountain	mountain
29	Delphian cliff	38.483333	22.500000	1	Negative	"Titan	Seat of the oracle of Apollo, on southern slope of M	seventeen	M	1	0	0	mountain	mountain

Figure 7 A snapshot of the dataset that supplies A Map of the Moral Geography of Paradise Lost

In this chapter, the cyclical relationship between Machan's Lower and Higher Criticisms is most evident. I manually created the dataset for this project (see Figure 7) by reading *Paradise Lost*, identifying the place names mentioned in the epic poem, and searching for their geocoordinates on digital spatial gazetteers. The task of manually geoparsing place names in *Paradise Lost* was especially challenging since the most recent place names in the epic poem refer to places mentioned in the seventeenth century, while in fact most are far older than that, dating back to biblical and premodern times. This makes geocoding place names a difficult task due to the lack of cultural gazetteers that record historical place names and provide their geographical coordinates—a gap in knowledge countered by projects such as Pleaides, Wikipedia, and Pelagios Commons. In general, the older the place name reference, the more difficult it is geocode and visualize it on a map. To build the dataset, I referred to several gazetteers to help geocode place names in the epic poem, the most useful of which was Wikipedia since it draws on several geodata providers and includes contextualizing information to verify the accuracy of the match.

Another difficulty that places in *Paradise Lost* entail is in their categorization. Earl Miner's (1990) distinctions in chapter one help categorize place name references in *Paradise Lost* according to common place (no reference to the real world at all); proper place (refers to an existing location), and improper place (refers to a known place that is metaphorical, such as heaven and hell). There is an abundance of all three types of places in the spatial project of *Paradise Lost*, and discerning between them, especially between common and proper places, can be difficult since the lack of records about them may either point to how ancient they are or mean that they are altogether fictional. Consequently, terrestrial locations mentioned in *Paradise Lost* for which a historical and spatial record remains have been geocoded and appear on the map, whereas places such as Hell, Heaven, Chaos, and Eldorado are outside of the scope of the project. In addition to geoparsing the places in *Paradise Lost*, I also manually geoparsed all the places in Genesis to carry out a comparative study between the literary geographies of both texts, which proved to be an even more challenging task since the references are premodern and the line between common and proper places is also blurry. Altogether, I was only able to find nine overlapping place name references between Genesis and the 150 geocoded places in *Paradise Lost*, pointing to a much wider spatial scope of the latter that extends to other parts of the bible and outside sources.

Moral valence in *Paradise Lost* is tracked in the "Teams" column in the dataset, which is where place names start acquiring meaning through layers. That there is some connection between moral valence and places becomes immediately apparent when reading the poem through a literary geography lens. One example from Book I is where Satan is introducing the other fallen angels in Pandemonium:

Him follow'd Rimmon, whose delightful Seat

> Was fair Damascus, on the fertil Banks
> Of Abbana and Pharphar, lucid streams.
> He also against the house of God was bold:
> A Leper once he lost and gain'd a King,
> Ahaz his sottish Conquerour, whom he drew
> Gods Altar to disparage and displace
> For one of Syrian mode, whereon to burn
> His odious off'rings, and adore the Gods
> Whom he had vanquisht. (4.67-76)

Milton paints an image of Rimmon as an enemy of the house of God based in Damascus, with territories extending to Abbana and Pharphar, all of which are tied to pagan worship. Through multiple examples in this chapter and chapter five, I argue that Milton's geography is moralized, and that the moral sentiments are either derived from Milton's own culture through works that were published by his contemporaries, or from biblical and classical sources that he was exposed to in his schooling and upbringing. In fact, the morality of a place in *Paradise Lost* is often directly derived from one of these sources, pointing to a broader trend of contextualization of place names at use in the seventeenth century—a tradition that had succeeded chorographies, but was still very much embedded in the practice of surveying and describing places. This is demonstrated by Robert Cawley (1951) who identifies the works that had the strongest influence on Milton's spatial consciousness, such as Peter Heylyn's *Cosmographie in Four Books* (1652; 1670) George Sandys' *A Relation of a Journey* (1610) and Thomas Fuller's *Pisgah-Sight of Palestine* (1662), among others that are studied more closely in chapter five.

Moral valence is assigned according to positive, negative, and neutral categorizations, based on the type of reference. A parallel can be drawn between assigning moral valence in this project and sentiment analysis, which refers to an NLP approach used in the digital humanities and many other scholarly and non-scholarly environments to assign negative, positive, or neutral sentiments to text based on either pre-existing or customized classifications applied to core lexicons (Moreno-Ortiz 2017). Although sentiment analysis can help automate the process of assigning moral categories to places in works of literature, the approach is difficult to carry out with accuracy in the context of *Paradise Lost*, which requires a close study of the text and secondary materials in order to determine the moral valence that Milton assigns the place name. This is why in the dataset, I have included two additional categories to help contextualize the assigned moral sentiment: passage and editorial notes. The former refers to the actual passage in which a place name appears in the epic poem; if a place is mentioned more than once, each passage is extracted and moral valence assigned on an individual basis. On the map, the separate moral valences assigned to each place can be viewed through pie charts that portray the nuance in the categorization of places by Milton. The editorial notes appear as comments on the map and draw on the critical commentary on places by scholars across different editions of *Paradise Lost*, detailed in the chapter. The editorial notes are meant to explain the significance of a place, such as Etna, corresponding to "Mount Etna, an active stratovolcano. Associated with the ground on which fallen angels stand in Hell" or Pharphar corresponding to "Seat of the pagan cult of Rimmon, also known as Hadad, the god of weather"—both colored with a negative moral valence.

Since places in *Paradise Lost* are often mentioned in clusters that are associated with the same moral valence, these clusters are also reflected on the map. For example, Nebo, Hesebon,

and Abarim are all associated with the worship of Chemos, a Moabite pagan god. These places, however, are grouped under the larger cluster related to pagan worship that colors many of the places associated with the fallen angels described in Book I. These broader categories are easier to search, and the accompanying passages and notes are meant to help differentiate them from each other. Of the two remaining categories in the dataset, one reflects the topography of the place, such as mountain or river, and the other identifies the type of reference the place name makes where known, such as biblical or mythical. Taken together, then, each place name in *Paradise Lost* is thoroughly research, contextualized, categorized, linked to other places, and visualized in easily readable and explorable ways. The way that the dataset is structured provides the evidence to support the argument that *Paradise Lost*'s geography is moralized, and also provides enough layers to serve as an exploratory map beyond that. My argument, then, is that rich spatial datasets can in themselves contain information that can be visualized to facilitate a literary geography study and literary interpretation, thereby connecting Machan's Lower and Higher Criticism in a full circle in the prototype.

Chapters four and five also contribute to the way that spatiality in *Paradise Lost* is studied by expanding the scope of materials from texts to also include maps. This expansion is drawn from Morgan Ng's analysis in "Milton's Maps" (2013) and taken a step further by the prototype in which the biblical map that influenced *Paradise Lost* is actually visualized and layered with data. According to Ng, in the second half of the sixteenth century, biblical text and image underwent a startling revolution that largely obliterated earlier modes of exegetical representation. In Henry VIII's 1539 Great Bible, the paratext appears as two scenes from Genesis portraying Adam and Eve in Eden, which was superseded by the Geneva Bible (1560) two decades later that replaces the paratext with a representation of paradise from a bird's eye

cartographic perspective (429-430). The publication of the 1610 Geneva Bible map adds on another 41 cities to the two postlapsarian cities of the 1560 version, places that Ng observes are derived from Ptolemy's *Geographia* and underpinned by Ptolemaic coordinates (430). The chapter itself is concerned with the publication of the King James Bible (1612/13), Milton's family bible map that consolidates all the information that was previously divided out into several maps in the Geneva bible into a single map, spanning events from the Old Testament to the New (430). Between the time of Elizabeth's reign and the publication of *Paradise Lost*, about two million printed bibles were sold in England, making it no wonder that Ng (428) claims that a seventeenth-century audience would have instantly recognized the view of *Paradise Lost*'s terrestrial world as analogous to a biblical map, where Satan perched, from a bird's eye view, observes:

> Over Mount Sion, and, though that were large,
> Over the Promis'd Land to God so dear,
> By which, to visit oft those happy Tribes,
> On high behests his Angels to and fro
> Pass'd frequent, and his eye with choice regard
> From Paneas the fount of Jordans flood
> To Beersaba, where the Holy Land
> Borders on Ægypt and th' Arabian shoare
>
> (*Paradise Lost* 3.530-537, quoted from Ng 2013, 428)

The passage communicates a top-down, detached form of navigation, as if Satan were looking down at a map. Ng argues that the effect produced from this view of biblical events unfolding on one single, flat plain in *Paradise Lost*'s Book I is that the angels are at once anonymous until a

later stage in history based on the stories that Satan associates with each devil, while at the same time being called forth by Satan as if they already occupy a postlapsarian universe (434). Therefore, Ng argues that Milton built the spatial project of *Paradise Lost* on the existing biblical cartographic tradition that reached its peak in the King James Bible, on which other geographies of classical antiquity and of his contemporary world are layered. This argument informs A Map of the Moral Geography of *Paradise Lost*, a project that offers visual access to the world that permeated Milton's spatial consciousness. This worldview is built on the concept that Ng refers to as geographical continuity, a prevalent early modern view of historical sequence where biblical and historical events are seen as progressing on a linear spectrum. This view sheds light on the moralization of places by Milton, since many biblical places and places of classical antiquity that are of significance to a seventeenth century Christian reader were occupied by the Ottoman Empire at the time, a connection through which Milton assigns many of his negative moral valences associated with pagan worship. On the map, this layer is represented by a second historical map by John Speed (1626) that depicts the Turkish Empire, reflecting Ng's perspective on Milton's view of geographical continuity as "sedimentary history" (433).

Scholarly examples in chapters four and five demonstrate that the connection between references to places and moral valence exists in Milton studies, dispersed across many works. What this project does is draw them together and visualize this critical framework on a map. In turn, the map exemplifies the depth of these valences across the epic poem, their connections, and exceptions in the multitude of places that are difficult to hold in the mind's eye. Namely, it creates an evidence-based visual argument that confirms that Milton's geography is moralized, and that this moral valence is drawn from multiple textual and visual references. It also provides an accessible and usable map for end-makers to explore the spatial project of *Paradise Lost* that

hitherto has not been visualized in such detail or on a multilayered, dynamic digital map interface.

4.3 Mapping the Moralized Geography of *Paradise Lost*[13]

4.3.1 Introduction

John Milton's *Paradise Lost* creates an extraordinarily rich and complex sense of space. The epic takes place on a cosmic scale, and scholarly understanding of Milton's cosmological imagination in relation to the scientific, theological, and literary cultures of his age continues to grow.[14] Milton moralizes cosmic space in explicit, although not necessarily straightforward, ways. Heaven is the space of moral perfection, Hell of the definitively reprobate. Earth is the site of fall and redemption and the messy history in between, while Chaos is the subject of ongoing scholarly argument—is it good, bad, or even dangerous to know? In an intervention on the status of Milton's Chaos, John Leonard expresses dissatisfaction with the way critics have applied a moral lexicon: "I am unhappy with the words 'good' and 'evil' as they are used in this debate. They frame the argument in narrow moral terms."[15] This chapter seeks productively to redeploy a polarity between positive and negative moral valences that can inform not a totalized view of *Paradise Lost* 's cosmological space, but a provisional picture of its terrestrial space. The hypothesis is that Milton's geography is in fact moralized: that place names are associated with moral sentiments, created by Milton's poetry or imported from Milton's culture, that inform readers' understandings of the epic and of the space of human history that it encompasses.

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[13] This section reprints the following article: Randa El Khatib and David Currell, "Mapping the Moralized Geography of *Paradise Lost*," in *Digital Milton*, ed. David Currell and Islam Issa (Cham: Palgrave Macmillan, 2018), 129-152, https://doi.org/10.1007/978-3-319-90478-8_6.

[14] See, for example, John Leonard, Faithful Labourers: A Reception History of *Paradise Lost*, 1667–1970, 2 vols. (Oxford: Oxford University Press, 2013), 705–819; and Dennis Danielson, *Paradise Lost* and the Cosmological Revolution (Cambridge: Cambridge University Press, 2014).

[15] John Leonard, "Milton, Lucretius, and 'the Void Profound of Unessential Night," in Living Texts: Interpreting Milton, ed. Kristin A. Pruitt and Charles W. Durham (Selinsgrove, PA: Susquehanna University Press, 2000), 198–217 (198–99). Leonard immediately follows this remark with a qualification: "To some extent this is unavoidable, given Milton's allegorical personification of Chaos" (199). The presence of moral agents is an important factor in the moralization of space; this will also hold of Milton's Earth.

This chapter describes an experimental application of Geographical Information Systems (GIS) to the text of *Paradise Lost* in order to explore this hypothesis. It offers a discursive critical presentation of an online visualization project within the disciplinary ambit of the geospatial humanities, a sub-field of digital humanities that uses GIS to study the spatial forms of human society and culture.[16] We turn to *Paradise Lost* via GIS as part of a broader spatial turn in the contemporary humanities.[17] All of the unambiguous place names in *Paradise Lost* that designate or are associated with sites from the Bible, classical antiquity, and later history down to Milton's time were geocoded and cartographically marked on a specially constructed digital map. The map is further equipped with tools that facilitate visualization in accordance with a criterion of moral valence, while letting users anchor the place names in the poetic contexts in which they appear.

Do the myriad geographical references in *Paradise Lost* simply mark earthly differences insignificant to the spirit, and push its characters and readers to transcend this terrestrial geography? Such a perspective is implicit in Ayesha Ramachandran's conclusion that Milton's epic "signals the abandonment of speculative philosophy for the stern discipline of ethical choice through symbolic internalizations of the world."[18] Patrick Fadely and Feisal G. Mohamed assert even more strongly the superficiality of Milton's geographical references, suggesting that Milton points up their insignificance: "much as he seems anxious to show his familiarity with developments in geography and astronomy," the references "are presented as irrelevant to

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[16] The digital project is accessible online at Randa El Khatib and Marcel Schaeben, "A Map of the Moralized Geography of *Paradise Lost*" (2018), <rkhatib.github.io/paradise-lost>. Accessed March 11, 2018.
[17] For an accessible introduction to the field, see Jo Guldi, "What Is the Spatial Turn?" Spatial Humanities: A Project of the Institute for Enabling Geospatial Scholarship (2011), <spatial.scholarslab.org/spatial-turn>. Accessed 5 January 2018.
[18] Ayesha Ramachandran, The Worldmakers: Global Imagining in Early Modern Europe (Chicago: University of Chicago Press, 2015), 220.

humanity's spiritual life."[19] Michael's final speech to Adam appears to confirm the substitution of a psychic for a terrestrial sense of paradise as the ultimate moral lesson:

> …only add
> Deeds to thy knowledge answerable, add faith,
> Add virtue, patience, temperance, add love,
> By name to come called charity, the soul
> Of all the rest: then wilt thou not be loath
> To leave this Paradise, but shalt possess
> A paradise within thee, happier far.[20]

While transcendence of space may be its final aim, the poem's extraordinary verbal evocation of the collective human effort to name and to map the terrestrial surface matters precisely because it informs a composite world picture full of moral inflections. As "patience" requires time, "deeds" call for space, and if *Paradise Lost* does direct readers' moral energies away from cosmological speculation, it does not draw the curtain on the stages of history. "The world was all before them, where to choose / Their place of rest" (12.646–47): as Chris Barrett emphasizes, the poem ends precisely with a movement into terrestrial space, guided by choice—to Milton, the cardinal moral action.[21] The spatial world lies open to be mapped, but also to be navigated by a moral compass.

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[19] Patrick Fadely and Feisal G. Mohamed, "Introduction: Satan or Samson? The Question of Milton and Modernity," in Milton's Modernities: Poetry, Philosophy, and History from the Seventeenth Century to the Present, ed. Feisal G. Mohamed and Patrick Fadely (Evanston, IL: Northwestern University Press, 2017), 3–21 (9).

[20] *Paradise Lost* 12.581–87, quoted from The Complete Poetry and Essential Prose of John Milton, ed. William Kerrigan, John Rumrich, and Stephen M. Fallon (New York: The Modern Library, 2007). Citations of Milton's works are to this edition unless otherwise indicated.

[21] See Chris Barrett, "The Map You Cannot See: *Paradise Lost* and the Poetics of Navigation," in Renaissance Now! The Value of the Renaissance Past in Contemporary Culture, ed. Brendan Dooley (Oxford: Peter Lang, 2014), 181–211. Barrett argues that Adam's misreadings of the "cartographic panorama" that Michael presents to him impel him toward an understanding that the process of movement through space begun in the epic's final lines constitutes "the spiritual sine qua non" (195): "The pedagogical triumph of the episode is not Adam's newfound

In this context, we turn primarily to scholarship that combines insight into Milton's theology with the study of the material history of early modern map making and printing.[22] Morgan Ng productively makes this connection via the map of the Holy Land by John Speed that appeared in Milton's own family Bible, a 1612/13 printing of the King James Version (see Fig. 6.1, which presents an image of the map created from another copy of this edition). Ng positions this map within a decisive historical shift in the visual paratexts of printed Bibles: "Following new standards of empiricist exegesis promoted by Protestant theologians on the Continent, this visual aid attempts to situate the reader within the measurable coordinates of physical geography."[23] Jean Calvin's efforts to map the lands of Genesis, and even to identify the terrestrial location of Eden, played a key role in the shift from figural to cartographic biblical illustrations. Calvin and his followers were geocoders *avant la lettre* : as Ng goes on to document, these biblical maps soon began to chart more than strictly biblical geography—before long, biblical locales were outnumbered on these maps by classical locales enumerated in Ptolemy's *Geographia*.[24]

Geography was an essential part of the curriculum Milton set out in Of Education (1644). He stresses the importance of familiarity with cartographic technologies, but also shows an awareness of geography's temporal dimension. Students are "to learn in any modern author the use of the globes and all the maps, first with the old names and then with the new" (975). Duplicate naming, recording both historical and contemporary place names, was a feature of some early modern maps; the map created for the present project from the place names of

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map literacy, but his understanding that reading a map rightly is not sufficient….Learning to read a map means learning to turn away from it" (195–98). The design of our project attempts to ward off any confusion between digital map and poetic territory, but also expresses the hope that turning from it may facilitate critical navigations.

[22] In addition to Ramachandran, Worldmakers, and Barrett, "The Map You Cannot See," see Morgan Ng, "Milton's Maps," Word and Image 29, no. 4 (2013): 428–42.

[23] Ng, "Milton's Maps," 428.

[24] Ng, "Milton's Maps," 430.

Paradise Lost reproduces Milton's differential reliance on both "old" and "new" names at various points in the epic.

Figure 8 Map of biblical lands from the King James Bible (1612/13; the edition of Milton's family Bible). (Credit: Houghton Library, Harvard University)

This is an essential feature of his geographical poetics—the freedom with which layered geographical nomenclatures are collocated within *Paradise Lost* creates and conveys a sophisticated constellation of associations and connotations. Angelica Duran and Islam Issa

reactivate Milton's dialectic of old and new by quoting lines 11.385–411, Adam's mountaintop view of "all Earth's kingdoms and their glory" (384), with bracketed glosses relevant for the twenty-first-century reader. As they explain this gesture:

> Our insertion of some of the modern-day place names means to emphasize the geographical expansiveness and interactions of the "old" and "modern" that rightly stymie any sense of stability. Indeed, the passage insists on instability also through its emphasis on the human agents acting within, outside of, and among the named locales.[25]

Old names and new, "City of old or modern fame" (11.386): note also Duran and Issa's emphasis on how the geographical imagery (what is viewed by Adam) and the geographical imaginary (communicated to the reader) rely on an interaction between localities and agents—a point relevant also to Leonard's caveat that it is the personification of Chaos that has induced critics to apply a moral vocabulary to a spatial zone.

Multiple designations and multiple time references constitute a welcome challenge to critical ingenuity and a formidable challenge to geocoding. These kinds of multiplicity are indeed the principal difficulties that Ian Gregory and Patricia Murrieta-Flores identify in the application of GIS to scholarship in the humanities:

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[25] Angelica Duran and Islam Issa, "Introduction: From 'Cámbalu' to 'El Dorado,'" in Milton in Translation, ed. Angelica Duran, Islam Issa, and Jonathan R. Olson (Oxford: Oxford University Press, 2017), 3–22 (4). The convergent and divergent effects of layering multiple geographical temporalities on biblical maps and a Christian epic form one of Ng's central themes. In a striking diagram (his Figure 7), Ng overlays the map of Canaan from the 1611 King James Bible with nodes corresponding to those place names actually mentioned in scripture, numbered in sequential order, and connected by vertices ("Milton's Maps," 435). The chaotic result is a forceful demonstration of the incommensurability of linear narrative and visual apprehension. Given Ng's suggestion that "the shift from episodic to cartographic illustrations in the Geneva Bible laid the representational groundwork for *Paradise Lost* to disorder the strict flow of biblical narrative" (431), it might be additionally conjectured that the very experience and expectation of "linear" biblical narrative for *Paradise Lost* to disturb were themselves cultural byproducts of widespread vernacular Bible reading, in contrast to the prior liturgical experience of an unlettered laity, for whom the course of scriptural citations across the cyclical ritual year did not tightly correspond to the Bible's "book order."

A more fundamental criticism of GIS is that it prioritizes space but has only limited functionality to manage time. This is a valid critique but it is important to realize that the human brain is very poor at conceptualizing space and time simultaneously, and that to understand one it is usually necessary to simplify the other. Another valid critique of GIS is that it insists on precise locations for spatial data and is poor at representing uncertainty in this. This is valid, and interpreting spatial patterns requires careful thought about the accuracy, or otherwise, of the locations used.[26]

The significance of these critiques is brought into focus by Milton's handling even of contemporary place names. As Michael Murrin elaborates, Milton's geographical similes are frequently archaic even with respect to early modern history. In Murrin's account, space in *Paradise Lost* is conditioned by two techniques that combine into an effect of "aesthetic blur": an archaism that covers both the confusions or datedness in certain similes or references involving contemporary places (as well as the evocation of deeper classical allusion), and the use of a present tense that orchestrates an impression of simultaneous global activity.[27] For example, Milton's reference to "Casbeen" as the retreat of the Persian "Sophy" in the simile at 10.431–36 is an anachronism (the Safavid Shah's capital was Isfahan by 1598, as 11.394 registers), but the present tense that makes it anachronistic is poetically valuable for imparting a sense of continuous or typical worldly action.[28]

Digital mapping cannot and is not designed to replicate or substitute for this kind of historical scholarship. Its value lies in information management and representation. In fact, the

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[26] Ian Gregory and Patricia Murrieta-Flores, "Geographical Information Systems as a Tool for Exploring the Spatial Humanities," in Doing Digital Humanities: Practice, Training, Research, ed. Constance Crompton, Richard J. Lane, and Ray Siemens (London: Routledge, 2016), 177–92 (188).
[27] Michael Murrin, Trade and Romance (Chicago: University of Chicago Press, 2014), 227.
[28] Murrin, Trade and Romance, 252–53.

kind of nuance that Murrin introduces is itself a reason to minimize ambiguity by retaining only simple and broad categorizations, both in defining the geographical "layers" (biblical, classical, early modern) and the potential moral sentiments (positive, negative, neutral). The stakes lie instead in visualization itself, a process predicated on targeted simplification. Nevertheless, the interactive dimensions of the map permit users to recover and evaluate nuance (by resituating geographical names in their poetic contexts) even as they seek to apprehend and deduce larger patterns. Moreover, although *Paradise Lost* is a poem of great size and intricacy, the number of geographical references remains tractable enough for a single researcher (here Randa El Khatib) to pursue manually the best geocoordinates and decide on the associated moralization, if any. The decisions to rely on data obtained by close reading and on manual geocoding keep the project, for now, separate from the realm of natural language processing and big data approaches to sentiment analysis.[29] Rather than turning human judgment over to algorithmic computation, manual geocoding and critical close reading of moralization were identified as the most appropriate methodological responses to the kinds of issues raised by Gregory and Murrieta-Flores, especially in view of the maturity and rigor of existing scholarly commentary on the epic. When the object remains a specific literary work, researchers must decide on an appropriate balance: in this case, digital tools create and support new forms of display, but the underlying data is curated according to established forms of critical reading.[30] To map the moralized

[29] Sentiment analysis denotes a computational approach to affective or attitudinal data. Much research that applies sentiment analysis to text utilizes machine learning or other forms of automation based upon manually compiled lexicons or sample corpora. The application of sentiment analysis to literary works may be most familiar through Matthew Jockers' Syuzhet package, which aims to produce a graphical "arc" of the emotional intensity of novels from sentence to sentence. See Matthew L. Jockers, "Revealing Sentiment and Plot Arcs with the Syuzhet Package," 2 February 2015 <matthewjockers.net/2015/02/02/syuzhet>. Accessed 28 November 2017.

[30] Although the critical and editorial traditions do not necessarily invoke a simple positive/negative polarity, such scholarship remains the essential tool for contextualizing Milton's references in terms of moral valence. Assignments used for the digital map were determined using the annotations of Milton, Complete Poetry and Essential Prose as a starting point, with supplementation from other editions and critical sources as listed in this chapter's "Works Cited."

geography of *Paradise Lost*, then, the essential questions posed in respect of each named locality were twofold. First, what locale is Milton evoking, and how should it be properly geocoded? Second, what valence (positive, negative, or neutral) is associated with the name of the locale in its poetic context?

While the technologies and vocabularies applied in addressing them are very different, these were also questions of vital scholarly concern to Milton's culture. The image of the world was rapidly changing in his age. The concept of terrestrial space itself accrued new contours as newly colonized spaces were more precisely described, delimited, and drawn. The second half of the sixteenth century was marked by a new spatial consciousness, materially evident in the explosion of atlases, chorographies, cultural gazetteers, and travelogues, generating in turn a profound influence upon literary modes. These developments continued to play out across the seventeenth century and leave an indelible impression upon Milton's poetics. Several critics have made significant contributions to scholarly understanding of Milton's geographical sources, vocabulary, and spatial consciousness.[31] Scholarly consensus identifies Peter Heylyn's *Cosmographie in Four Books* as the most significant single source for geographical naming in *Paradise Lost*. This work spanned six editions between 1652 and 1670; that Milton evidently relied on the 1657 edition implies both that this text was read to him, and also that his direct visual knowledge of cartography was built from other materials encountered before his complete loss of sight circa 1652.[32] Heylyn's work blends discourses that today's disciplinary formations

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[31] In addition to Murrin, Ng, and Barrett, important contributions include Allan H. Gilbert, A Geographical Dictionary of Milton (New Haven: Yale University Press, 1919); Robert Ralson Cawley, Milton and the Literature of Travel (Princeton: Princeton University Press, 1951); Bruce McLeod, "The 'Lordly eye': Milton and the Strategic Geography of Empire," in Milton and the Imperial Vision, ed. Balachandra Rajan and Elizabeth Sauer (Pittsburgh: Duquesne University Press, 1999), 48–66; Elizabeth Sauer, "Theaters of Empire in Milton's Epics," in Remapping the Mediterranean World in Early Modern English Writings, ed. Goran V. Stanivukovic (New York: Palgrave Macmillan, 2007), 191–205; and Elizabeth Sauer, Milton Toleration, and Nationhood (Cambridge: Cambridge University Press, 2014), 115–35.

[32] See Sauer, "Theaters of Empire," 194.

would tend to separate out into history and geography. One of the consequences of this union is a greater degree of contextual moralization than technical cartography alone could in any obvious way supply. This discursive form, evident too in other Miltonic sources such as George Sandys' A Relation of a Journey (1610) and Thomas Fuller's Pisgah-Sight of Palestine (1662), also carries forward traditional and inherited authorities and knowledges that layer spatial references with value-laden cultural associations.

A passage that Ramachandran quotes from Gerhard Mercator's *Chronologia* (1569) captures the intellectual habits underlying the genre: "As, however, in philosophic study history takes the first place, I recognized that to cosmography and geography also belong the origin and the history of the heavens and of the earth and of their parts."[33] Geography and history in tandem: 1569 was also the year in which Mercator published his famous and still influential projection map,[34] a year before the appearance of Abraham Ortelius' compendious *Theatrum Orbis Terrarum*. Mercator's own Atlas followed in 1595. These authors saw maps as vessels of historical and philosophical tradition as well as of scientific results. In representing historical figures and scenes, Ortelius' maps point to the early modern geographical imaginary's investment of geographical space with moral and historical significance. As suggested by Duran and Issa, *Paradise Lost* inherits and develops a cosmopoetic framework whose moralizing traces are apparent at a local textual level. Still, such traces, and the superposition of multiple kinds of allusion upon the imagined surface of Earth, put a fearful strain upon the mind's eye. Mapping

[33] Ramachandran, Worldmakers, 26 (citing Gerhard Mercator, Chronologia [Coloniae Agrippinae: Birchmannus, 1569], 3).
[34] "[Mercator's] 1569 navigational projection—the so-called Mercator Projection—produced a vision of global space that remains familiar; it is even the basis of the Web Mercator platform used by Google Maps and in ArcGIS systems today" (Ramachandran, Worldmakers, 24).

the moralized geography of *Paradise Lost* aims to offer a tool to facilitate the study of moralized space within the text through visualization.

4.3.2 "Far Dispersed / In Foreign Lands": Geographical Methods and Meanings

The extent to which spatial relation among the elements of Milton's cosmography has vexed critics through the centuries should be fair warning against the idea that *Paradise Lost* can be "translated" into a map. Digital tools and methods are mobilized here not merely to reproduce in visual form existing scholarly connections between Milton's text and the maps and atlases available to him as he conceived and wrote it. This experiment is, rather, itself a modest effort at worldmaking: abstracting and sorting geographical data from the text and re-presenting it in a way that estranges, at least to some extent, both the modern cartographic substrate that facilitates geocoding and the co-presence within one text of so many and so various registers of geographical reference. We see it as a prototype (or perhaps *prototope*) for the systematic representation of texts in geospatial terms. It may be conceived as a partial converse of Milton's transmutation of cartography into poetry. It is hoped that the project is generative on its own terms as a tool for thinking about *Paradise Lost*, as well as providing a potential stimulus to similar work using alternative textual corpora, criteria of classification, or coding methods.

"Geocoding" refers to a process of linking locations unambiguously to geographical coordinates. Some existing tools have automated this process, vastly increasing the extent of text that can be transmediated into map form. As flagged already, however, the accuracy of this process depends upon an unambiguous and standardized dataset that matches the contents of available gazetteers. Geocoding algorithms typically assign coordinates to

ambiguous place names in ways that are black-boxed (not transpicuous to the user) and may result in mismatches. Ambiguity and misidentification are especially likely in the machine parsing of early modern texts, whose terminologies may vary internally or, especially, may vary from the modern standard place names that populate gazetteers and databases. Furthermore, the coordinates of historical places, not merely their names, may be ambiguous or indeed unknown. In general, the more distant the historical period of reference, the lesser the likelihood of being able to find or generate precise coordinates. This issue can also arise in the case of place names that, while having a presumed terrestrial referent, belong to a literary or mythological register. Some resources point to a general region in which a place is thought to have been located or offer a speculative referent; more often gazetteers eschew assigning geographical coordinates where their validity is less than certain. When applied to a text like *Paradise Lost*, automated matching leads to very partial data.[35] To overcome this, the spreadsheet that forms the basis of this project was populated with coordinates assigned manually on the basis of independent research. One of the most comprehensive and useful resources for historical spatial data is Wikipedia, which provides discursive information and references that can help to identify a given geographical entity, whether historical or fictional. The primary advantage of Wikipedia is that it is an ever-expanding, community-driven cultural gazetteer linked to GeoHack, and provides extensive notes about places, their alternative spellings, historical context, human habitation, and whatever other details users contribute.[36] As indicated, the analysis in terms of "moralization" eschews

[35] This is particularly true of biblical place names. As an indication, the King James version of Genesis contains 87, but only 35 matches are returned when an attempt is made to geocode this text with reference to GeoHack (see note 23).

[36] GeoHack is a Wikipedia extension accessible through hyperlinked geographical coordinates on Wikipedia. It provides geographical data in multiple formats, categorizes types of place, and locates place names on both a static world map and a navigable map powered by OpenStreetMap.

elaborate metrics or algorithmic methods in favor of a first-order critical judgment: is the named locale presented in its poetic context with positive, negative, or neutral associations? Milton's architects of Babel pursued their impious and imperial project

> lest far dispersed
> In foreign lands their memory be lost,
> Regardless whether good or evil fame. (12.45–47)

The elementary differentiation between positive and negative moral valence accrues some internal validation here from a passage that moral- izes Babel, itself ground zero of human geographical diversity. In Nimrod and the builders we see again how the moralization of space depends on human agents.

The classification is registered through the colors used to mark the locales on the map: blue, red, and gray markers represent positive, negative, and neutral, respectively. Neutrality in general indicates an absence of moralizing context. The contexts in which the place name appears in the poem are visible to users via the comment panel. Assessments of "moralization" are disputable in so far as they are the product of close reading—different readers may look at some specific case and declare "Evil be thou my good" (4.110). The presentation of the contextual evidence is an invitation for them to do so. Yet dependence upon settled commentary and editorial tradition militates against the likelihood of disagreement, and the question of variance would not be resolved by turning to a strictly algorithmic approach, since results would still vary by algorithm.

The questions of whether, when, where, how, and for whom the moralization of the English lexicon is reconfigured by the Fall are perennials of Milton studies. One particular

sentence from Milton's *Brief History of Moscovia* (1682) exemplifies nicely the kinds of contours and knots that Miltonic syntax poses to algorithmic sentiment analysis:

> The discovery of *Russia* by the northern Ocean, made first, of any Nation that we know, by *English* men, might have seem'd an enterprise almost heroic; if any higher end than the excessive love of Gain and Traffick, had animated the design.[37]

This critique of the enterprising English gathers momentum through a lengthy detour through a provisionally positive diction. The possible moral valences of terms like "love," "Gain," "love of Gain," and "excessive love of Gain" (to zoom in on a single phrase) vary and depend on context. *Paradise Lost* is in some ways simpler. One would expect a multi- faceted sense of space to emerge from a historical and geographical work, without necessarily an intense or consistent moralization; a Christian epic, on the other hand, is committed to remoralizing an already moralized spatial inheritance. Of ten instances of "Egypt," for example, eight appear in a negative context: it is the kingdom of impious Pharaoh, the home of zoomorphic false gods, a domain of indulged luxury, the land upon which God visits the killing of first-borns. Milton's concatenative style in passages such as the vision from Cámbalu to El Dorado often means that a common moralization colors place names that are textually proximate but may be geographically distant.

A focus distant from the England of Milton's first readership is an obvious feature of *Paradise Lost*, consistent with its literary roots in the Bible and in European epic. The orientation of the poem towards the Holy Land aligns its poetic space with the etymological root of the cartographic sense of "orientation"—the organization of the

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[37] John Milton, A Brief History of Moscovia, cited from The Complete Prose Works of John Milton, ed. Don M. Wolfe et al., 8 vols. (New Haven: Yale University Press, 1953–82), 8:524. See also Murrin, Trade and Romance, 153.

medieval T-O projection map around Jerusalem—to the East ("oriens") in relation to Europe, although in this convention Asia was placed at the top of the map.[38] The "Asia" of Milton's epoch was not the Asia of biblical history, nor the Roman province of the first Christian century, nor the orient of Isidore of Seville (whose *Etymologiae* influenced the T-O projection). The territory associated with biblical and classical inheritances had become the territory of Islamic empires: in the Mediterranean world, the Ottoman empire, with the Safavid and Mughal empires lying further east. Miriam Jacobson has recently argued that early modern English literature registers material contact and knowledge of the contemporary eastern Mediterranean to a much greater extent than a critical reflex that assumes the primacy of classical references has generally apprehended. Jacobson develops her argument with reference to Jonathan Gil Harris' "multilayered approach to history, which entails moving beyond diachronic and synchronic models of narrative space in favor of multitemporal or 'polychronic' strata."[39] Harris' study of polychronic "untimely matter," mounted with reference to the work of Bruno Latour, tends to emphasize the occluded persistence of history's material traces in theatrical and literary work.[40] It may appear that a digital approach, which tends to privilege the discrete (on/off, biblical/ classical/contemporary, positive/negative/neutral), is unfitted to conveying this perspective. Nevertheless, we have attempted to build a project that leverages the unique affordances of layering provided by a digital environment, its visual rhetoric effecting a sense of

[38] See John Gillies, Shakespeare and the Geography of Difference (Cambridge: Cambridge University Press, 1994), 62.
[39] See Miriam Jacobson, Barbarous Antiquity: Reorienting the Past in the Poetry of Early Modern England (Philadelphia: University of Pennsylvania Press, 2014), 6.
[40] Jonathan Gil Harris, Untimely Matter in the Time of Shakespeare (Philadelphia: University of Pennsylvania Press, 2009), 1–25.

simultaneity among the differentially tagged data against a backdrop that fuses, but also draws attention to the gap between, modern and Renaissance cartography.

The specific methodology aims to register visually the coincidence or superposition of Ottoman, classical, and biblical places within a unified epic. For Milton's readers, the superposition of pagan and imperial overlays upon Mediterranean and Near Eastern space demands an exercise of moral judgment that reflexively constitutes a network of moralized reference which affects epic as well as terrestrial spaces. As Elizabeth Sauer observes:

> The Miltonic prophet and his privileged readers and spectators are likewise awarded the right to interpretation, though the sights they take in are deliberately selective. The *Paradise Lost* account of the panorama that Michael offers from the top of the Hill of Paradise excludes Europe, with the exception of Rome, which is absorbed into the imperial landscape as a nation that "was to sway / The World" (11.405–6). Rome functions throughout Milton's epic as an image of a pagan, papist Babylonian empire on which all corrupt structures—from Pandemonium in Book 1 to Nimrod's tower of Babel in Book 12—are (anachronistically) modeled.[41]

Satan, the fallen angels' "sultan" (1.348), whose "throne of royal state…/ Outshone the wealth of Ormus and of Ind" (2.1–2), is associated with Islamic empires that, by virtue of spatial layering or contiguity, are imbricated and even assimilated with Catholic Rome, or with an earlier imperial Rome that in its turn could both figure the papal state and be judged negatively on its own terms as yet another form of an always and originally Satanic earthly

[41] Sauer, "Theaters of Empire," 198.

kingship.[42] But the two are also kept distinct: while the epic has no time for warfaring crusaders, Ottoman rule in the Holy Land and wide Ottoman political and economic influence throughout the seventeenth century were geospatial facts which Milton also engaged at a practical level.[43] Such practical interest within early modern English culture more generally is attested by John Speed's map of "The Turkish Empire," first printed in 1626 (Fig. 6.2). If maps such as those printed in the King James Bible show biblical "old names" mingled with modern landmarks, "The Turkish Empire" reverses the proportions and perspectives: biblical and classical landmarks remain, but the emphasis falls on the verbal novelty of the places from which the new material cultures adduced by Jacobson were emanating.

[42] See David Quint, Inside *Paradise Lost*: Reading the Designs of Milton's Epic (Princeton: Princeton University Press, 2014), 4–5. Walter S. H. Lim argues for a more targeted association within *Paradise Lost* between Satanic absolutism and the Islamic orient in "John Milton, Orientalism, and the Empires of the East in *Paradise Lost*," in The English Renaissance, Orientalism, and the Idea of Asia, ed. Debra Johanyak and Walter S. H. Lim (New York: Palgrave Macmillan, 2010), 203–35.

[43] On Milton in relation to the geography of the contemporary Islamic world, see Gordon Campbell, "'To the Shore of Tripoli': Milton, Island the Attacks on America and Spain," in Fundamentalism and Literature, ed. Catherine Pesso-Miquel and Klaus Stierstorfer (New York: Palgrave Macmillan, 2007), 7–19 (14–18). On Milton and Mediterranean diplomacy, see Feisal G. Mohamed, "Milton's Enmity towards Islam and the Intellectus Agens," English Studies 96.1 (2015): 65–81 (68–72). On Milton and the context of the contemporary Levant trade, see Ng, "Milton's Maps," 434–35; and David Currell, "Meditations on Mediation: John Milton and the Muslim Jesus," English Studies 96.1 (2015): 44–64 (47–51).

Figure 9 "The Turkish Empire," from John Speed, A Prospect of the Most Famous Parts of the World (1626). (Credit: Maps & Imagery Library, Special and Area Studies Collections, George A. Smathers Libraries, University of Florida, Gainesville, FL)

The cultural prominence of maps like Speed's led us to our own multilayered approach to visualization. We overlaid a version of Speed's map of the Turkish empire upon the planar world map projection to which our spreadsheet coordinates were keyed. The way we elected to integrate this historical map was georectification: a process of aligning an image with a

coordinate system.[44] The georectification of Speed's map was performed using MapWarper, an open-source georectification tool created by Tim Waters.[45] This platform allows users to select or upload a map image for manipulation against a modern projection. To georectify within MapWarper, one selects a point on the uploaded map and matches it to its corresponding point within the coordinate system of the modern map projection. After creating a number of corresponding coordinates, the planar image of the upload is algorithmically warped into alignment with the projection. Once this process is complete, the new image can be downloaded and used in other mapping applications. Our project uses Leaflet, an opensource JavaScript library for building interactive maps.[46] The result layers modes of representation belonging to different cultural contexts in intended analogy to the multilayered temporalities of Milton's poem.

The project images reproduced as Figs. 6.3 and 6.4 indicate the degree to which *Paradise Lost* shares a zone of focus with Speed's "The Turkish Empire." Even at a glance, the density of the chain of references around the Mediterranean basin, spanning mainland and insular Greece, the Levant, and Egypt, leaps out. Beyond the warped boundaries of Speed's map, the project provokes a question about empty space: what relation obtains between the Mediterranean sphere of referential saturation and vacuous areas, for example to the north and west? England, another "origin" of the poem and map, is entirely marginal to its geographical imaginary; *Paradise Lost* provincializes (northern) Europe. If *Paradise Lost* figures a globalized world, it

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[44] Georectification was adopted in the context of other alternatives, such as georeferencing (based on a translation between coordinate systems). In the context of this chapter, we should stress that "rectification" has a mathematical rather than a moral valence: part of the value of integrating an early modern image to illustrate what early modern readers might have visualized as "Ottoman" space is a highlighting of the arbitrariness of boundaries and projections, including the all-too-naturalized Mercator projection to which alternatives (such as the Gall-Peters projection) have been advanced. Milton's own stricture, in the passage quoted from Of Education, regarding "the use of the globes and all the maps" (emphasis added) emphasizes a multimodality essential to geography.

[45] Tim Waters, Map Warper (n.d.) <mapwarper.net>. Accessed 20 December, 2017.

[46] Vladimir Agafonkin, Leaflet (2017) <leafletjs.com>. Accessed 20 December, 2017.

does so through a referential asymmetry: geographical naming happens only in the space outside Protestant England, the presumed locus of its aesthetic and moral effectivity.[47] At the same time, the biblical layer of the geographical palimpsest never falls out of Milton's view: put pointedly, the epic always exceeds any possible mapping.

Both Calvin's "palimpsest-like sense of history" and the dimension of "historical collage" in sixteenth- and seventeenth-century Bible maps feed into Milton's literary layering and re-emerge in our visualization.[48] We thus close our discussion by returning to Milton's family Bible and Speed's map of the Holy Land preceding Genesis. The project allows users to switch to an alternative view that presents a georectified version of this map as the overlay in place of "The Turkish Empire."[49]

[47] This formulation is compatible with McLeod's in his essay on the union of spatial, moral, and imperial concerns in *Paradise Lost*: "Milton's geography is inseparable from a godly and global project/ion which locates England at its center surrounded by a panorama of the nation's possible profits and pitfalls" ("The 'Lordly eye,'" 49), but highlights how this method of digital visualization also reveals the global distribution of place names as effecting a "project/ion" or externalization: the "Lordly eye" (3.578) does not see itself. On globalization, see also Paul Stevens, "Milton, Globalization, and the Possibilities of Positive Nationalism," in John Milton: "Reasoning Words", ed. Kristin A. Pruitt and Charles W. Durham (Selinsgrove, PA:
Susquehanna University Press, 2008), 22–49.

[48] Ng, "Milton's Maps," 433. Ng expresses the generic tension in terms of a concrete "rift between geography and chronology...To a far more extreme degree than in the Bible maps, earth in the epic seems locked in an 'eternal present,' as if always already formed and defiant of historical contiguity" ("Milton's Maps," 433). It is a rift between media, that the digital cannot close (we recall again Gregory and Murrieta-Flores' strictures on the human apprehension of time and space), but can traverse differently.

[49] The Bible map spans two pages; the gutter between them therefore becomes an artifact of the digital image that is warped along with the body of the map.

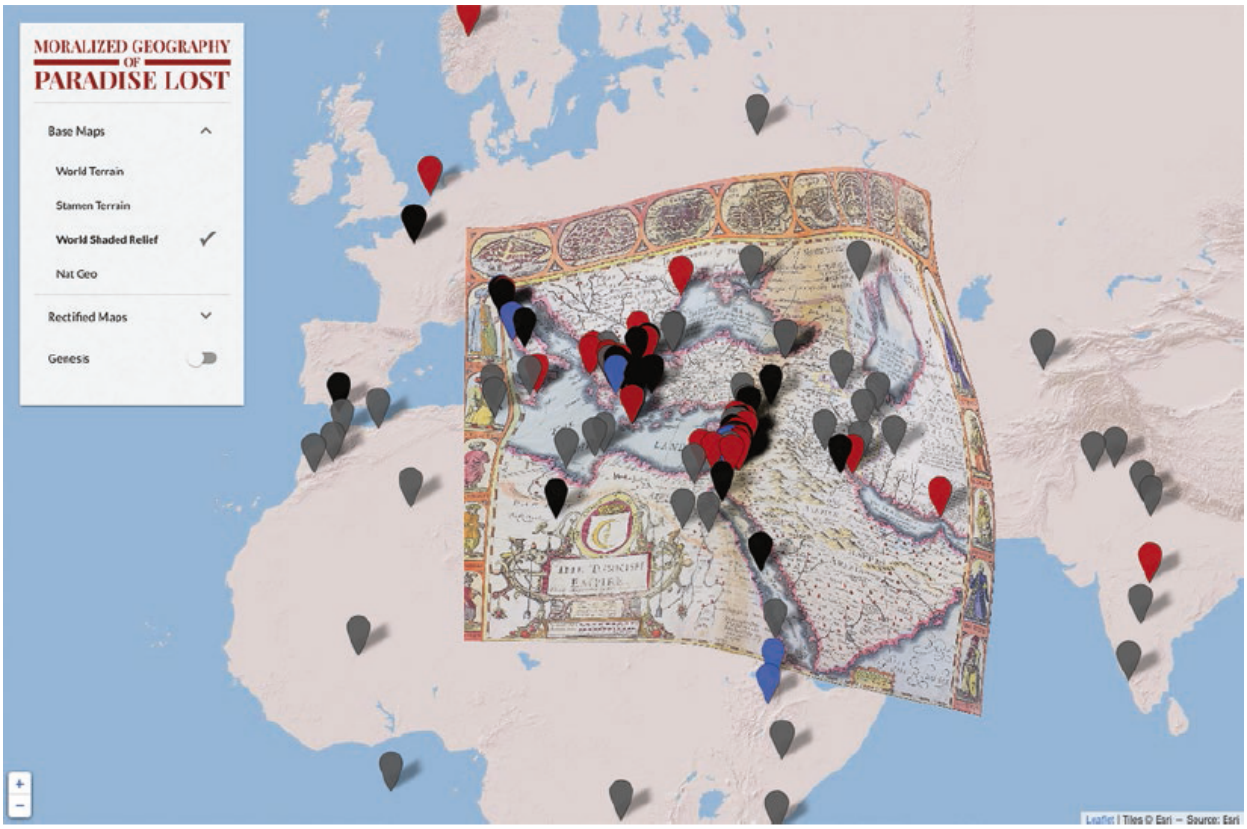

Figure 10 "A Map of the Moralized Geography of Paradise Lost": Georectified "Turkish Empire" map against shaded relief projection

Figure 11 "A Map of the Moralized Geography of Paradise Lost": Georectified "Turkish Empire" map, zoomed view

To this is added data from a manual geocoding of Genesis. The resulting map is less complex than the general map because of a relatively low rate of matching, and because metadata concerning provenance and moral valence is omitted. Even the most cursory assay of sentiment analysis proves futile when trained narrowly on the text of Genesis alone: it is, rather, literary and exegetical writings, and religious culture more broadly, that built thick association. This condition reinforces the status of geographical references in Milton's epic as references, as vectors that import or apply associations established through cultural tradition or poetic technique. In this way, *Paradise Lost* functions like an early modern chorography that contextualizes place names at use (reflecting the generic union of motivated history and geography discussed earlier). Genesis does not. There are only 9 geocoded place names in

common between Genesis and the 150 in all of *Paradise Lost* : Bethel, Damascus, Dothan, Egypt, Gaza, Harran, Jordan, the Nile, and Sechem. The low overlap may surprise, given the status of Genesis as a primary source for the entire epic and for much of the biblical history recounted by Michael in Books 11 and 12. Conversely, it points to both an encyclopedic knowledge of and a principle of inclusion towards place names across the entire Bible, to which a large proportion of the positive associations adhere. This contrasts with the heavy concentration of negative associations in references to classical Greek locales. There are exceptions—the "Aonian mount" (1.15), although not home to Milton's muse, is situated morally among the foothills of inspiration; the textual collocation with "Oreb," "Sinai," "Sion," and "Siloa" lends a sacred sheen to Helicon.[50]

4.3.3 "Space May Produce New Worlds": Geospatial Milton

Geography, then, highlights the generic difference between Genesis and *Paradise Lost*. For Murrin, the poetic "blurring" effected by archaism and simultaneity "serve Milton's aesthetic and moral purpose, even if they confuse geography and history."[51] As the field stands, digital mapping prioritizes definition over blurring, and this project is structured around specific coordinates and an elementary first-order classification of moral sentiment. Nevertheless, it aims to capture phenomena in which the print cartography of the early modern period (examples of which are warped into the weave of the visualization) had an equally powerful interest: the conscious layering of the past in space, and the conception of the world as a space of moral

[50] In the very passage centered on those false pagan gods, however, the mingling connotations contaminate in the opposite direction: "With the calling of every demon, Milton enhances this illusion [of an extant, morally (over)determined world even as the fallen angels first wake] by detailing each one's terrestrial domains, overlaying the borders of an alternate, infernal political geography upon his biblical frontiers" (Ng, "Milton's Maps," 434).
[51] Murrin, Trade and Romance, 255.

conflict and choice. Far from penning Milton's biblical epic within the confines of Genesis, of course, *Paradise Lost* encompasses the whole space defined by the famous "golden compasses" of 7.225 and beyond. The digital map makes clear, however, that the further the epic moves away from its "origin" (a word used here in both a narrative and a cartographic sense) in the Holy Land, the more vague and brief the moral charge and contextualization become. Moreover, the effort to map Milton's moralization of geographical space plots the specificity with which place names are invoked in bonum and in malum, and the intensity with which the association of fallenness and idolatry with classical antiquity is anchored in references to place. The layers of the map indicate the richness of spatial references within *Paradise Lost* and their complexity in multiple dimensions, providing an exploratory and interactive space, representing a setting of moral conflict and choice, in which users can travel and judge for themselves.

Digital Milton is characterized by two representative features that this chapter exhibits especially clearly. First, a link is made outwards, from critical text to digital space. This may remain the exemplary gesture of digital Milton studies during an era—perhaps a transitional one—in which print publication and online scholarship remain codependent. Second, a link is made backwards, from digital methodologies to a longer history of media that new work can both illuminate and extend. We would not claim that our experiment has the power to follow a hermeneutic ascent "from shadowy types to truth" (12.303). We hope that a digital prototype, however, can help to reveal and clarify Milton's power as a geospatial thinker and poet.

Chapter Five: Why Map Literature? Geospatial Prototyping for Literary Studies and Digital Humanities

5.1 Contributions to the Project

For this project and publication, I undertook a variety of tasks, including:

- lead author of the article, including conceptualization, drafting, and revisions.
- sole creator of the dataset that informs the project.
- lead project designer of A Map of *Paradise Lost* (the prototype), working with Marcel Schaeben on implementation.
- project manager of A Map *Paradise Lost*, working with Marcel Schaeben who took on the role of software developer

5.2 Conceptual Framework

The final chapter explores the relationship between geospatial humanities, literary studies, and digital humanities, and demonstrates how these fields inform each other. Throughout this dissertation, my goal has been to demonstrate how digital objects can embody spatial theory and methodologies, and to portray how traditional literary studies approaches such as close reading and literary interpretation can be combined with digital methods that enable interactivity and mixed-media interfaces for an immersed literary geography analysis. The first two chapters translate geocriticism into a digital prototype and iteratively improve on it to demonstrate the type of research made possible through a digital geocritical interpretation. In that part of the dissertation, I also address the challenges involved in translating a literary framework into a digital environment, such as designing under constraint, and discuss what is lost in translation alongside what is gained (McCarty 2008). Chapter three demonstrates how technological

advances can enable scholars to integrate VGI to create rich cultural gazetteers that can inform spatial humanities research while also being public-facing resources. The chapter argues for the need to build community-university partnerships and to work collaboratively toward creating rich cultural gazetteers for humanities scholarship. The final two chapters demonstrate how a geospatial prototype that is fueled by rich data and embeds other types of media can inform literary interpretation and help make arguments. By focusing on the process of building A Map of *Paradise Lost*—a geospatial humanities text-to-map project that visualizes the locatable places in John Milton's *Paradise Lost*— this chapter addresses the question "why map literature?" and demonstrates how the process of research prototyping is in itself a form of knowledge production. Through a series of prototyping moments, this chapter addresses how the different steps involved in building a geospatial humanities project can produce new knowledge about the fields it relates to: literary studies and digital humanities. Together, the prototyping moments make arguments that advance our understanding of Milton's *Paradise Lost*, approaches to data visualization for cartographic comparison in and beyond DH, and models for interdisciplinary collaboration.

Chapter five looks at geospatial humanities from the broader scope of the two fields it relates to, literary studies and digital humanities, and explores the contributions that geospatial humanities projects make through the driving question "why map literature?" Explicitly raising this question is a worthwhile endeavour because the field of geospatial humanities has only evolved over the last few decades, and projects demand time, labour, and funding. Understanding the impetus for mapping certain literary works can help define the project's goals, while also defining the field's parameters. An indication that the field is still rapidly evolving is the slippery terminology applied across various studies and projects, as well as the ever-evolving

platforms, tools, and methodologies being published and integrated into projects. The latter is one of the primary reasons that this dissertation is published as a portfolio dissertation, in order to employ and report on methodologies as they evolve so that published research is timely and worthwhile.

A Map of *Paradise Lost* evokes questions about scholarly communication and demonstrates how the digital medium allows to amalgamate elements of several genres at once. In this chapter, I argue that the project is a first step toward creating a certain mix between existing genres that, together, can become a "geo-edition." In the context of the project, a geo-edition refers to an edition of *Paradise Lost* that is concerned with the literary geography of the text, namely its place names, their significance and context, and the interpretation of the places, which can all be visualized on a digital map. In addition to visualizing and contextualizing places, the digital medium supports functions that are beyond the scope of print editions: interactivity, mixed-media layers, and room for iterative expansion and change. *A Map of Paradise Lost* allows end-makers to browse different categories, base maps, historical maps, and layers drawn from *Paradise Lost*, Genesis, and the entire bible that invite an in-depth study of places and open the door for broader arguments beyond the scope of the epic poem itself. In addition, georectifying or layering historical maps onto the base map can immerse researchers in the historical or literary context in insightful ways, such as tracing historical boundaries and place name change over time. For a geo-edition in particular, the digital medium offers many possibilities to combine text and image with digital mapping for a literary geography analysis. A geo-edition also evokes Machan's Lower and Higher Criticisms, brought together by providing an exploratory project that contextualizes place names in a way end-makers can explore to forge

their own readings, while also providing one such interpretation through the close reading of Milton's moral geography.

The moral valence argument presents one way of conducting a literary geography in *Paradise Lost*; more importantly, I argue that it opens the door to visualize close readings and demonstrates how maps themselves can make arguments and invite new modes of interpretation. This argument corresponds to the first "prototyping moment," by which I refer to critical decisions about how the data is modelled and created, as well as how the project itself is built, that demonstrate how the process of prototyping is a form of knowledge production that engages the texts in new ways and pushes the boundaries of technologies to create richer geospatial projects. The concept of prototyping moments embraces the ongoing arguments of this dissertation, of a prototype as an argument and theory, of a prototype as a process that combines theoretical and practical in the act of making, and of prototyping as a process that yields new knowledge not unlike that of scholarly writing (Galey and Ruecker 2011; Ramsay and Rockwell 2012; Saklofske 2016). Investigating the prototyping process and the resulting prototype from this perspective, then, the type of knowledge created by each prototyping moment can be analyzed individually, which is demonstrated in the chapter. The first prototyping moment goes into more depth about the cultural context in which *Paradise Lost* was written and provides evidence that shows how some of the moral categories assigned by Milton are borrowed almost word-for-word from other works, such Alexander Ross' (1653). *Pansebeia: or, A View of all Religions in the World*. It also draws on scholars such as Daniel Viktus, Walter Lim, and Gordon Campbell to explain the connection between places colored with a negative moral valence, often associated with pagan worship, and the general seventeenth-century English attitudes toward the Turkish Empire.

The second prototyping moment addresses how prototyping experiments can also contribute to technological advancement. The constraints of maps to only communicate a limited amount of information at once to still be readable (Monmonier 1991) is at odds with the goal of the prototype, which is to layer places in *Paradise Lost* with many associations to move away from a spatial toward a platial map—that is, a map on which locations are associated with place rather than space. This tension resulted in a new visualization approach that allows to split the screen into up to four windows, where each window can be customized individually. Since the maps are synchronized, browsing one map can simultaneously help explore all the other maps at the same time. This option allows to view and browse historical maps and layers side by side, for example to compare places mentioned in the bible with those that have positive moral valences in *Paradise Lost*, or to study how places were renamed between biblical references and the Turkish Empire. In effect, this prototyping moment demonstrates how experimental prototyping can help push the boundaries of existing technologies in creative ways to get closer to a digital medium that can more aptly support humanities inquiry.

The final prototyping moment returns to the question of interdisciplinary and multidisciplinary collaborations. Thinking about the audience for this project not as end users but as end makers inspired my collaborator Marcel Schaeben and I to build a functionality that would allow others to contribute to the project by revising, expanding, or correcting our dataset. Specifically, the functionality is meant to encourage field experts such as Miltonists to contribute to the project directly, without requiring any technical skills or relying on the developers in the team to make the updates, for a more productive division of labour. With this in mind, we prototyped a data pipeline that allows end-makers to edit and update the dataset that informs the project directly. This contribution could be achieved by simply uploading the updated dataset to

the GitHub page, which activates a mechanism for the pipeline to validate and publish the data. Thinking and prototyping with collaboration and usability in mind invites a continued engagement with the literary geography of works in hopes of generating interest and facilitating new interpretations beyond what we can imagine.

5.3 Why Map Literature? Geospatial Prototyping for Literary Studies and Digital Humanities[52]

5.3.1 Introduction

Geospatial humanities is a significant and rapidly growing branch of the digital humanities and constitutes the practice of applying Geographical Information Systems (GIS) and other quantitative technologies to the study of the representation of spatiality in texts, often to literary or historical content. A multitude of geospatial humanities projects involve geovisualizing literary texts. As a fairly recent research area, the contribution of literary mapping is still being established: why do we map literary texts? (Cooper, Donaldson, and Murrieta-Flores 2016, 9). Scholars have questioned the value of geospatial humanities projects for digital humanities and literary studies, often with inconclusive remarks (Piatti, 2016). This uncertainty is understandable in a nascent field that relies so strongly on digital tools and methods that are as diverse as they are rapidly developing; no wonder why it is difficult to single out their contribution to scholarship in an ever-changing medium. Allison Muri (2016) claims that "…in the digital humanities experimental studies are important, valid, and necessary trials as we test new methods in a still nascent field. We cannot proceed without experiments and testing of

[52] This section reprints the following article: Randa El Khatib and Marcel Schaeben, "Why Map Literature? Geospatial Prototyping for Literary Studies and Digital Humanities," *Digital Studies/Le champ numérique* 10, no. 1 (September 2020): 1–22, http://doi.org/10.16995/dscn.381.

hypotheses. We also need to ask—and answer—(to recast Alan Liu's (2013) important question about the Digital Humanities), what is the *meaning* of a literary GIS to literary studies and textual scholarship?" (n.p.). Until we can define what geospatial humanities encompasses and set its boundaries in order to make overarching claims about its scholarly landscape, we ought to concentrate on a case-by-case exploration of the significance of individual projects to the research areas they relate to. This very type of examination itself can help define the field's parameters.

We examine the scholarly contribution of geospatial humanities to both fields that are involved in this particular interdisciplinary instance—digital humanities and literary studies—by looking at the prototyping process of building a literary map of John Milton's *Paradise Lost*. Although research prototyping may have some overlaps with other established forms of knowledge production, such as developing a critical edition of a work or writing an article or monograph, many of the processes, such as data gathering and interpretation, collaboration, and platform design, demand a different way of approaching the text. At the core, the steps necessary for creating any of the above require engaging with the text directly, as well as with the cultural and historical materials surrounding the text. By recasting Alan Galey and Stan Ruecker's (2010) momentous inquiry into "how a prototype argues" to "how a *geospatial* prototype argues," we address how the different steps involved in building a geospatial humanities project can produce new knowledge about the fields it relates to: literary studies and digital humanities. This study is carried out by addressing specific prototyping moments—critical decisions about data gathering and structuring, as well as decisions about the features of the app—that demonstrate how the process of building is in itself a form of knowledge production that can grant new ways of

engaging the text and imagining technical solutions to collaboratively visualize complex, multilayered, literary space.

5.3.2 A Map of Paradise Lost

A Map of *Paradise Lost* is an open access online project that situates John Milton's *Paradise Lost* in its specific historical moment—the seventeenth century—published in a map-oriented culture that was at the peak of the development of a cartographic consciousness in Europe. In "Milton's Maps," Morgan Ng (2013) argues that there is a "tendency among current literary scholars, despite enormous interest in the 'cartographic imagination' in Renaissance writing, largely to ignore the texts' actual visual counterparts. To explain the textual form of *Paradise Lost* requires equally close attention to the images which permeated Milton's mimetic consciousness, even after the onset of his blindness." (2013, 428). Ng (2013) points beyond the textual references that are typically read alongside *Paradise Lost* to actual maps, such as the map of biblical lands found in the paratext of Milton's own family map, a 1612/13 printing of the King James Bible—one with which Milton would have no doubt been familiar with over the course of his life and that, according to Ng (2013), influenced his spatial thinking about the places mentioned in biblical accounts and depicted in *Paradise Lost*.

Paradise Lost creates a rich and complex world that draws on multiple histories, with references to places from classical antiquity, biblical accounts, and Milton's contemporary world, to name a few. Milton's allusions to places are explained in critical notes of some scholarly editions, where editors contextualize and interpret the complex and multilayered references to places and their significance. As a starting point for contextualizing the significance of places mentioned, authors consulted *The Complete Poetry and Essential Prose of John*

Milton (2007) edited by William Kerrigan, John Rumrich, and Stephen M. Fallon, and expanded to other editions and critical sources as listed in the bibliography. Still, the superimpositions of multiple allusions upon the terrestrial world of the epic poem is challenging to keep track of, especially when approaching the full work. A Map of *Paradise Lost* is the first project of its kind that grants visual access to the world of "geographical continuity" that permeated Milton's spatial consciousness. This worldview refers to the prevalent notion of historical sequence of a seventeenth-century English audience, namely the conviction that biblical events, like historical ones, progressed on a linear spectrum of geographical continuity, meaning that the land that the Ottoman Empire occupied in the seventeenth century is the same land in which biblical and classical accounts took place (Ng 2013, 433). In the project, geographical continuity is demarcated by historical maps that are meant to evoke these worlds imagined by Milton.

The project is an application of Geographical Information System (GIS) techniques to the text of *Paradise Lost* that is meant as an exploratory tool for researchers, students, and readers to investigate the complex and multilayered space of the epic poem. The map includes the locatable platial references, or references to places, with explanatory excerpts from editorial notes that describe their significance. Every place name is connected to the passage in *Paradise Lost* in which it appears (see Figure 12), with multiple passages for places that are mentioned more than once. Rather than simply overlaying platial references on a modern map, the project attempts to visualize some of the many temporalities that are merged into the world of *Paradise Lost*, captured in the georectification (matching points on a map image with corresponding points on a map that exists in GIS) of two maps: the "Map of Biblical Lands" from the King James Bible and the map of "The Turkish Empire" by John Speed (1626).

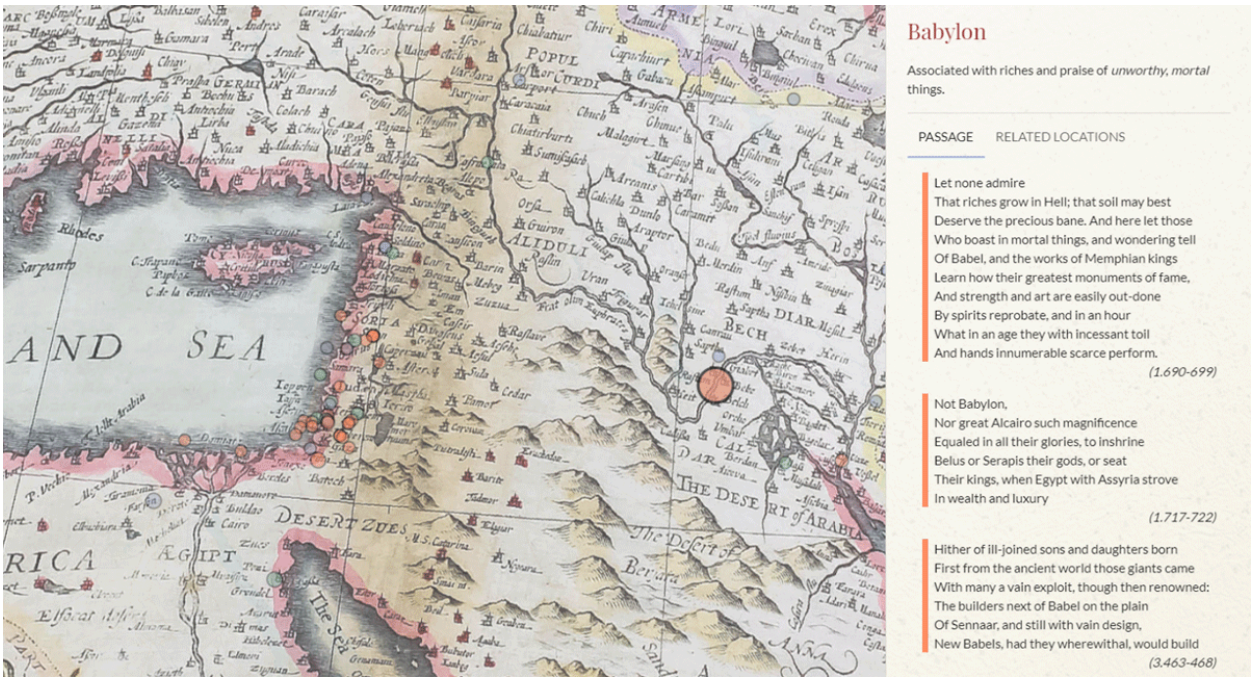

Figure 12 A Map of Paradise Lost: selection of Babylon shows the multiple passages and description of its significance in Paradise Lost

Digital projects reflect the data that fuels them. For example, *The Atlas of Early Printing* (Prickman et al. 2013) traces the development of print in fifteenth-century Europe with respect to other variables such as trade routes, universities, and paper mills by demarcating each variable with its own color on the map alongside a timeline—a simple and effective solution for its purpose—with additional information about the city, year of first printing, name of printer, first work printed, and the *Incunabula Short Title Catalogue* (ISTC) entry. Likewise, Stanford University's Authorial London (Evans et al. 2011), a literary geography project that maps references to London in the works and biographies of notable authors who lived in, travelled to, or wrote about London, includes the title, author, and year of publication of works that refer to places in London. Authorial London also features options such as word searches in the corpus or by region, and, like A Map of *Paradise Lost*, includes the passages that refer to those places.

Unlike other types of geospatial projects in which references to places alone might be enough to communicate a purpose, such as the movement of wind currents in a region, the humanistic representation of place in literary maps almost always requires contextualization. A point on a map that virtually means "this is Paris" for Paris may not tell us much. In a humanistic context, we often engage with place rather than space. Tim Cresswell defines place as "how we make the world meaningful and the way we experience the world. Place, at a basic level, is space invested with meaning in the context of power. This process of investing space with meaning happens across the globe at all scales and has done throughout human history" (2015, 19). This definition could be extended to literary maps by focusing on the different narratives that give place meaning, of which there are manifold in *Paradise Lost*, where layered allusions work to contextualize the platial references across multiple temporalities at once. For example, Ormus and Ind are grouped together as sites of wealth and associated with Satan's seat in Hell (PL 2.1–5), first assimilated with Islamic Empires, and, by virtue of extension, with Catholic Rome (Quint, 2014; Lim 2010).

5.3.3 Scholarly Communication and Literary Mapping

The digital medium has ushered an age of experimentation with forms of scholarly communication, from research to dissemination. In the digital humanities, this experimentation has taken many forms, including digital editions, online journals and encyclopaedias, dynamic databases, and software prototypes. Digital editions generally provide content in more accessible and networked ways. Hyperlinked information, different media affordances, zooming options, and other features of the digital augment the reading experience. Created for different purposes, digital editions can grant the public and scholars access to rare or brittle manuscripts; advance

knowledge and understanding of a work; and experiment with alternative forms of reading and knowledge production. Patrick Sahle (2016) differentiates scholarly digital editions from non-scholarly and print scholarly editions. Some of the primary differences, according to Sahle (2016), are a result of the affordances of the different mediums and the changing scholarly values that they supply; one of the results is that instead of editions claiming their primary purpose to be an authoritative reading and final statement on a subject, the moment of publication of a digital edition is quite fluid since it can be published iteratively rather than finally, in contrast to print editions. Namely, it "becomes a permanent but potentially always changing documentation of an ongoing examination and processing of the objects in question. In this way, the edition as a publication is a process rather than a product." [emphasis added] (n.p.). An example of a scholarly digital edition is The Grub Street Project, a social edition of eighteenth-century London that, through the mapping of literature, trade, and print culture of the time, aims to "create both a historically accurate visualization of the city's commerce and communications, and a record of how its authors and artists portrayed it." (Muri et al. 2016). The Grub Street Project, like many other digital humanities projects, has continued expanding over the years, with more recent additions, such as a new interface for the maps and some new editions. This iterative element is also true for other types of digital projects; for example, Authorial London is planning on releasing its underlying infrastructure, Authorial {x}, in open source—not for adding new editions like The Grub Street Project—but rather to allow users to create similar projects for other cities.

Digital projects can blur the boundaries that separate different scholarly genres and produce hybrids that amalgamate different elements. Thinking about the distinction that Sahle (2016) makes between scholarly digital editions as final words in their fields and non-scholarly

digital editions that encourage creativity and iterative development, A Map of *Paradise Lost* is essentially a text to map project that visualizes and interprets the spatiality of *Paradise Lost*. In doing so, we ask ourselves whether this is a step towards what we may call a geo-edition, namely, a thematic geo-edition that, instead of taking the text as a whole, visually reconstructs the spatiality of the text—in this case, *Paradise Lost*—by focusing on spatial data, close reading, and editorial context. The process of building the project relies on gathering the data within specific parameters while consulting the primary text and secondary works on the one hand, and thinking critically about questions concerning access and readability through its functionalities, design, and visualizations on the other. In all stages of this collaboration, we were considering what the prototyping process yields in terms of scholarly knowledge, building on the notion of prototyping as a way of thinking, not unlike the well-established and accepted practice of writing as a way of thinking (Ruecker 2015, 3). The resulting project is a hybrid that draws on some editorial practices, such as transmediating the text, framing it, and offering critical insight; however, instead of providing a diplomatic transcription of *Paradise Lost*, it draws on content that is specifically related to platial references and is meant to facilitate a deeper understanding of the spatiality of *Paradise Lost*.

5.3.4 How a Geospatial Prototype Argues

A Map of *Paradise Lost* is both a prototype and an app; this is not to say that it is not in a fully developed state in its current form, but rather that it has an in-built capacity to continue expanding and to support additional layers that offer different interpretations of *Paradise Lost*'s spatiality. We framed the building process in accordance with Alan Galey and Stan Ruecker's approach by questioning, from the beginning, "how the process of designing may be used

simultaneously for creating an artifact and as a process of critical interpretation, and whether new form of digital objects, such as interface components and visualization tools, contain arguments that advance knowledge about the world" (2010, 406). The map itself is the result of the critical inquiries that shaped it, centered around three main prototyping moments that seek to advance our understanding of Milton's *Paradise Lost*, approaches to data visualization for cartographic comparison in and beyond DH, and models for interdisciplinary collaboration, respectively corresponding to arguments: 1) that Milton often imposes moral categories onto place names at use, and that this framework, arrived at through close reading, can be visualized and expanded, 2) that parallel, synchronized maps offer a more intuitive and productive way to compare across maps, broad temporal categories, and data layers, and 3) that platforms can be prototyped to enhance interdisciplinary collaborative practices by minimizing labour for humanists and developers, and maximizing productivity and accessibility. In all three cases, the prototyping moments demonstrated here can be reproduced in other contexts and for other projects.

Let us return to our borrowed question at the outset: "Why map?" (Cooper et al. 2016, 9). As Sebastién Caquard (2011) points out, "Neither cartography nor narrative on their own can capture the essence of place: both are required to get a better sense of it" (224). Especially for works that rely on some understanding of spatial movement and change over time, there is an interdependence between narratives and cartography in representing place; together, they can provide a more thorough understanding. According to Barbara Piatti and Lorenz Hurni (2011, 222), "Through literary geography, we learn more about the production of places, their historical layers, their meanings, functions and symbolic values. If places emerge from a combination of real elements and fictional accounts, then literary geography and literary cartography can work

as a very effective eyeopener." Building on Cooper and Gregory's (2011, 90) take, we "use GIS technology as a tool for critical interpretation rather than mere spatial visualization." Together, the project is meant to offer visual access to the different worlds on the imagined surface of the Earth in *Paradise Lost* in order to provide a contextualization of the historical and biblical framing of the work, and beyond that to serve as an exploratory tool for users to generate their own questions about the spatiality of the epic poem.

During the course of development, it has become a general approach in our design decisions to include many variables in visualizing the data and give the user a choice to switch between different versions or to turn them off altogether. According to Luchetta (2018), the option to switch between project features leads to an experimental, iterative development process that could pose new questions about the visualization of multivariable spatial data and might lead to some new insights. But above all, it also puts users in the position to use the tool in ways and for purposes that we have not envisioned yet.

5.3.5 Prototyping Moment 1: Close Reading Meets Map Visualization

A generic distinction of sixteenth- and seventeenth-century works that describe places, such as travelogues or chorographies, is their insistent contextualization of place names at use. Scholars have traced many works from which Milton draws spatial references and the ideological connotations with which they are associated. Some main references are from Peter Heylyn's (1657) *Cosmographie in Four Books*, George Sandys' *Relation of a Journey* (1621) and Thomas Fuller's *Pisgah-Sight of Palestine* (1662). At the same time, Grant McColley (1937) demonstrates how Milton consulted one of the most widely-read books of his time, the *Pansebeia: or, A View of all Religions in the World* by Alexander Ross, when writing the

demons and their followers in Book I. McColley (1937) identifies how both works follow the pattern of the epic catalogue, in which "the heathen deities are named, their characteristics identified, the places of their worship given, and the practices of their followers described and condemned" (181). The similarities between the language, when placed side-by-side, is striking. One of many examples provided by McColley (183) is when Milton describes Dagon:

> Dagon his name, sea-monster, upward Man
> And downward Fish: yet had his Temple high
> Rear'd in Azotus, dreaded through the Coast
> Of Palestine, in Gath and Ascalon,
> And Accaron and Gaza's frontier bounds
> —(*Paradise Lost* 1.462–466).
>
> Dagon from Dag a Fish, because
> from the navel downward he
> was made in the form of a fish,
> but upward like a man this
> was a great idol among the
> Philistines
> —(Pansebeia 66; McColley 183).

A glaring reality of the seventeenth century is that places of biblical accounts and classical antiquity were under Islamic rule, primarily occupied by the Ottoman Empire, at that time a power that posed the biggest threat to Christian England and Europe. Drawing a connection between Satan and an Ottoman sultan is Walter Lim, who cites descriptions of Satan as the "mighty Chief" (PL 10.455) of his "great consulting Peers" (10.456) and compares this group to

the "dark Divan" (10.457), a reference that evokes the Turkish council of state (213). As Lim continues: "By portraying hell as the infernal archetype of the Turkish political economy, Milton demonizes the Ottoman Empire and the Muslim faith that it practices, defends, and seeks to disseminate by the point of the sword" (213). However, the fear of the Ottoman Empire lay beyond just military power and religious difference, but in the fear of actual conversion. As Campbell puts it:

> Muslims were people that Christians could become; good angels, as in *Paradise Lost*, could fall into apostasy and become bad angels, just as Christian captives could become Muslims. This was phrased not in terms of "embracing Islam" as it would be now, but rather in terms of "turning Turk." The phrase is telling, because it defers not to religious authority but to the dominant political power. Christians converted because Islam was stronger. (2007, 18)

The anxiety of conversion was a well-founded fear echoed by Daniel Viktus in *Turning Turk* (2003), where he insists that English anxiety about the Ottoman Empire was pushed even further by witnessing the inclusive social system that was adopted by the Turks that had resulted in mass conversion of English Protestants to Islam, and reached its peak when the Ottoman Empire started exponentially advancing its territories towards Hungary, Poland, and even Germany (17). By extension, this anxiety of conversion is echoed in much of literature of the early modern period, including in *Paradise Lost*, where, as Campbell puts it, Milton's epic "focuses on the horror of angels and our first parents converting from innocence to guilt, in effect enacting the spiritual equivalent of turning Turk" (19). It is convenient then, that notable landmarks of the Ottoman Empire are so directly linked to pagan worship; places that, in *Paradise Lost*, symbolize the postlapsarian world and the straying away from the "true" path.

By visualizing the spatiality of *Paradise Lost*, Milton's geographical critique becomes more apparent. Not only do places carry a moral connotation, but they are also often grouped together under the same moral category. By extracting data from *Paradise Lost* with attention to moral collocations with place name references, their significance, and how they are grouped together, our first prototyping moment geovisualizes a close reading of *Paradise Lost*. Grouped into broad categories under negative, positive, and neutral, corresponding to orange, green, and blue, these colors are meant as an invitation to the epic poem's more complex context through the passages and editorial comment (see a more detailed explanation of this process in "Mapping the Moralized Geography of *Paradise Lost*" by El Khatib and Currell, 2018). One thing that becomes apparent, even at a glance, is that most places are, in fact, collocated with moralizing content. For example, Rabba, Argob, Basan, and Arnon (see Figure 13) are all grouped together in the same passage, described in Book I as places of pagan worship, followers of Moloch:

> First, Moloch, horrid King, besmeared with blood
> Of human sacrifice, and parents' tears;
> Though, for the noise of drums and timbrels loud,
> Their children's cries unheard that passed through fire
> To his grim idol. Him the Ammonite
> Worshiped in Rabba and her watery plain,
> In Argob and in Basan, to the stream
> Of utmost Arnon. Nor content with such
> Audacious neighbourhood, the wisest heart
> Of Solomon he led by fraud to build
> His temple right against the temple of God

> On that opprobrious hill, and made his grove
> The pleasant valley of Hinnom, Tophet thence
> And black Gehenna called, the type of Hell.
> —(*Paradise Lost*, I. 391–405).

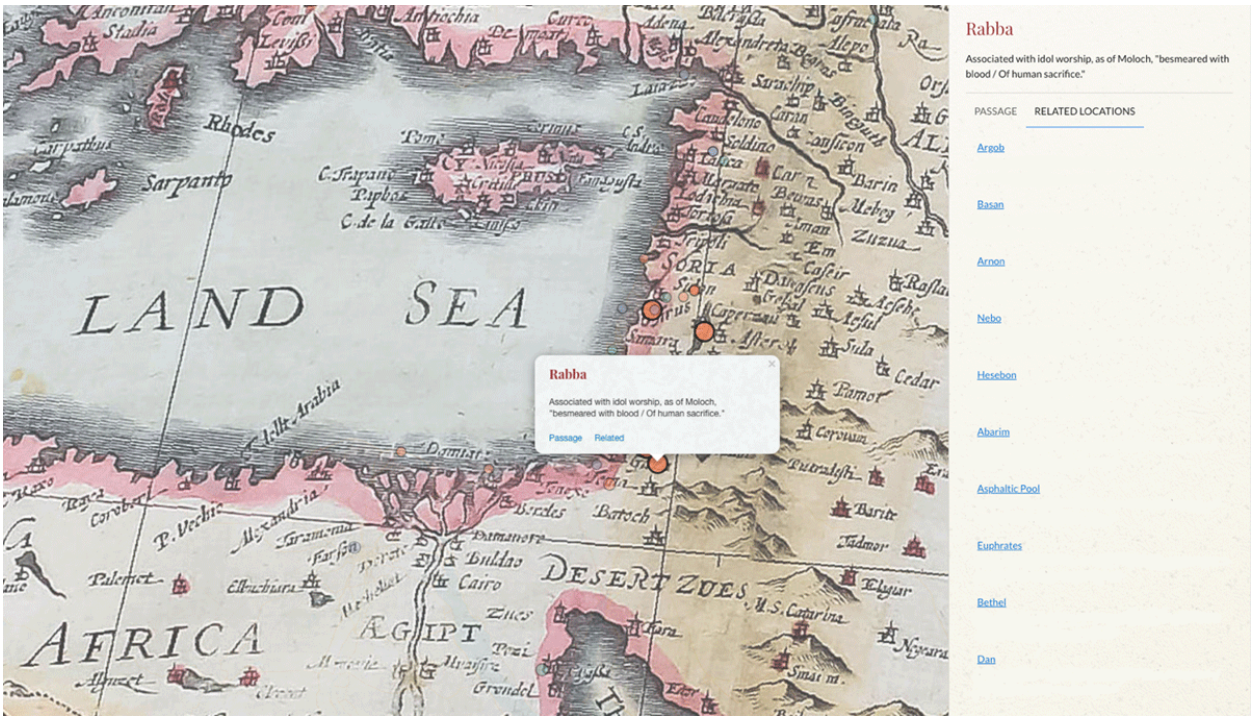

Figure 13 A Map of Paradise Lost: spatial grouping of related places (in this case Rabba with places associated with idol worship)

The spatial grouping itself happens across all places related to the broader category, and therefore references all places associated with idol worship and pagan cults, like Nebo, Hesebon, Abarim, the Asphaltic Pool (grouped together as worshipers of Chemos) and Euphrates, Bethel, and Dan (collocated with the Hebrews' worship of the golden calf). In cases where the place appears more than once in the text of the epic poem, each mention is treated separately and has a passage extract and moral collocation (Figure 14).

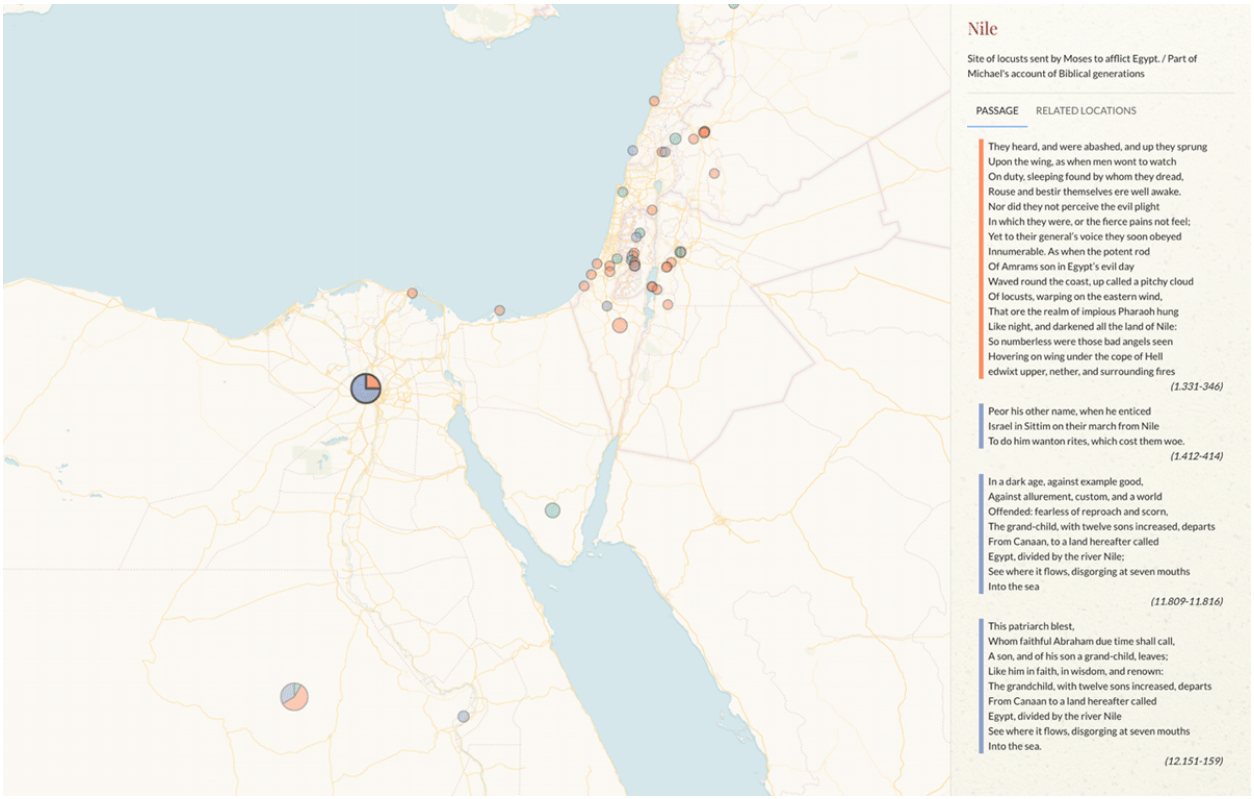

Figure 14 Pie charts show the context and passage for every separate place name reference if a place is mentioned more than once

This prototyping moment is not meant to present a novel argument about *Paradise Lost*; as demonstrated through scholarly examples, snippets of the connection between platial references and moral valence exists in Milton studies, dispersed across many works. What we have done is approach each place in *Paradise Lost* through this close reading and research framework and visualize it on a map. In turn, this grants readers easier access to the spatiality of *Paradise Lost* and encourages them to seek patterns and make connections. Moral valence animates the places on the map in a dynamic interface, like Milton does through various critiques in the text, making it a useful resource for exploring and generating research questions. One can imagine

visualizing other literary frameworks or arguments arrived at through close reading, for example, or including more georeferenced maps to study them against.

5.3.6 Prototyping Moment 2: Parallel Map Visualizations

Navigating multiple works at once has never been easier—a stark comparison is the labour of using a bookwheel, once a groundbreaking sixteenth century-invention by Agostino Ramelli in the form of a rotating bookcase to facilitate an easier way of reading more than one large book at once, to tools like *Juxta* (McGann 2012), a collation tool used for comparing multiple editions on a single screen. The message across these technologies, however, is clear: there is scholarly value in comparative work. A Map of *Paradise Lost* has multiple layers; for example, we have manually geoparsed (identified all locatable place name references and matched them with their corresponding coordinates) the references to places in Genesis as a separate layer (purple), and included a layer of all places mentioned in the bible from *OpenBible* as an additional layer (white), in an attempt to study the extent to which biblical naming was reproduced in *Paradise Lost* (Crossway 2011). However, maps have to be readable in order to make sense of them. Crowding all of these layers onto a single interface may be confusing, and overlaying historical maps simply counterproductive. In the case of *Paradise Lost*, more traditional methods of visualizing temporal change such as through timelines or annotations is not applicable—content that deals with biblical accounts, classical antiquity, mythology, and Milton's contemporary word, that oscillates between old geographical naming and new—does not lend itself to such defined temporal categories. Georectifying historical maps that, although imperfectly, but more closely capture these broad spatial categories is a more productive solution for this type of project. In an attempt to learn more about the geography that Milton references and the

surrounding areas in these different contexts, and to more legibly navigate the multiple layers, we have built a functionality that allows to split the screen into up to four parts, where each part can be customized separately (Figure 15).

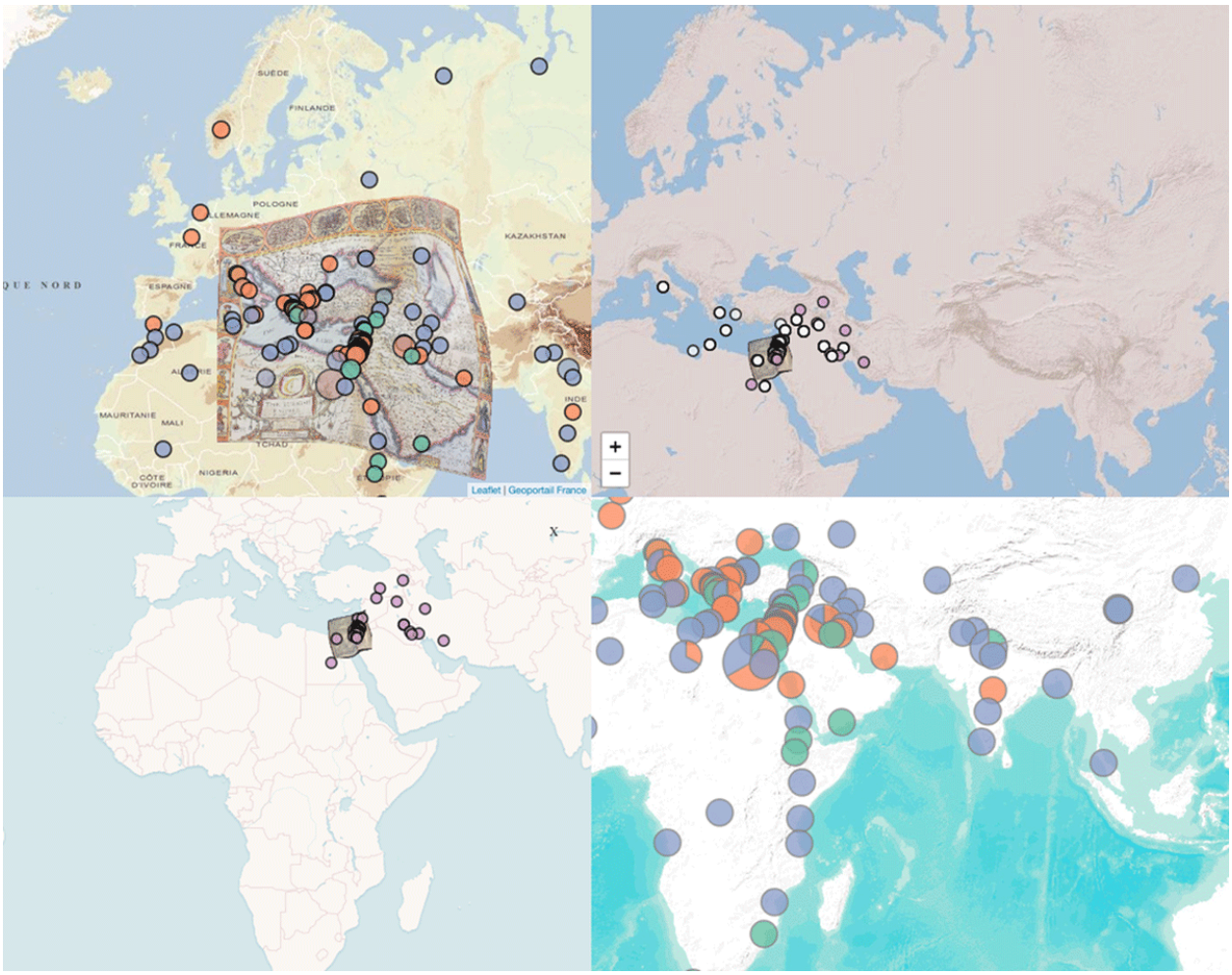

Figure 15 A Map of Paradise Lost parallel map visualizations

Different basemaps, historical maps, layers, and marker types can be visualized and compared simultaneously, since the maps are synchronized. Some questions this feature can generate are: What are the same place names mentioned across different works? How globally encompassing are they, and where do they focus on most? How did place names and boundaries change over time? One can imagine that with additional georectified layers, more historical comparison can

be carried out. Even outside of the context of the epic poem, users can inquire how, for example, places were renamed after the Turkish conquest in comparison to earlier or current naming. By visualizing these maps side-to-side, parts of biblical and historical geography of the Levant, and place name referencing across the entirety of *Paradise Lost*, Genesis, and the Bible can be situated and understood by a broader audience.

5.3.7 Prototyping Moment 3: Building Capacity for Interdisciplinary Collaboration in Mapping Projects

The process of creating the data for geospatial humanities projects, including defining the categories and variables, extracting and cleaning data, standardizing it across, and reshuffling categories for generating the most readable and useful geovisualizations, is a meticulous process that requires revisiting the data many times, especially since we are carrying out all these steps manually for the sake of accuracy, since the content of *Paradise Lost* does not easily lend itself to automatic methodologies. In interdisciplinary collaborations, all parties bring their skillsets and the division of labour happens with respect to individual expertise. This means that updating, revising, and moving the data to fuel the map in a project like A Map of *Paradise Lost*, would necessarily require the humanist and developer to both be actively engaged in a stepwise process that may not always be a productive division of labour, and can actually impede the project from expanding in the future without the continuous active involvement of a developer in part of the process. Our final prototyping moment grants non-developers more autonomy in contributing to the project, while also planning for longer-term sustainability without having to rely on too many outside variables that increase the need for updates and iterative control. The solution to both aforementioned considerations is the data pipeline (see Figure 16).

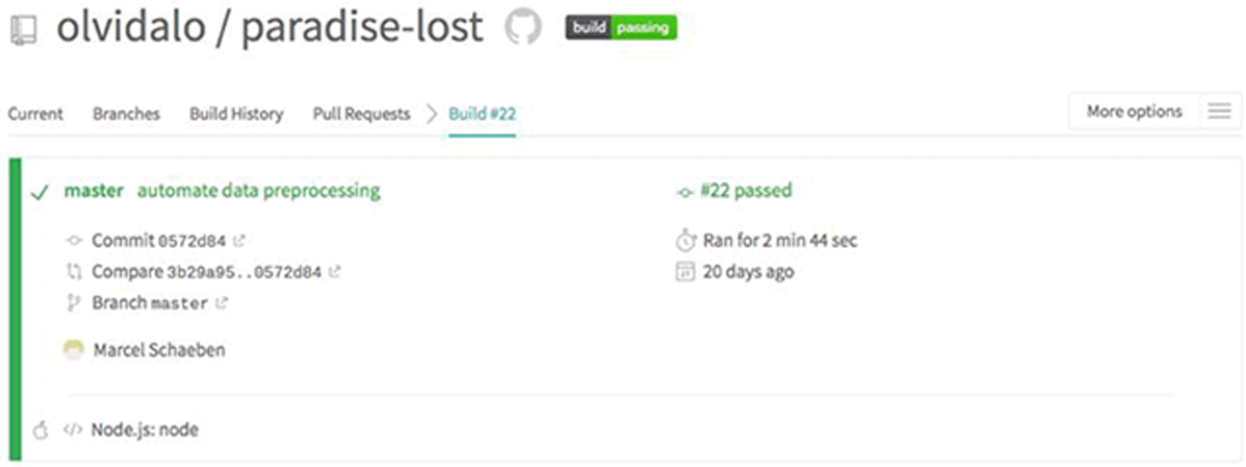

Figure 16 Travis CI running automated tasks on a remote server and pushing all the changes from the GitHub code and data repository to the GitHub Pages web hosting service for immediate online publication to A Map of Paradise Lost

Organized in a single spreadsheet, the data pipeline is a building block of the application. All required processing of the data is carried out using the standard building tools that are used in the development of the app; we do not use an extra database, an extra server where the database lives, or entry forms. The idea of the pipeline is that any collaborator can edit the content with a knowledge of how to use spreadsheets and the very basics of the git-based collaborative platform GitHub. If a team member makes a change to a spreadsheet and makes a commit to push the changes to GitHub, this sets off the pipeline which builds the app, validates if the data is complete and in the right format, and then publishes it to the web server. Through validation, ideally, nothing can be broken in the process. Humanists do not need to engage with the building process, pipelines, and other technical details that have already been developed, and can focus on the content. This division of labour raises the questions brought up by scholars such as Stephen Ramsay (2016) about whether a digital humanist has to be a coder or not; for this paper and

project, this inquiry is rather narrow since the iterative nature of the project invites digital humanists, but also early modern scholars, to share their expertise on Milton by suggesting other potential close readings and literary frameworks for interpreting the spatiality of *Paradise Lost*. By making it a more straightforward task to contribute to the project, we are working towards a less labour-intensive, steep-learning-curve model that is more productive and accessible. Rather than insist that all contributors must have advanced coding skills and a background in early modern literature in order to equally contribute to all aspects of the project, we build on one of digital humanities' strongest suits: that through interdisciplinary collaboration, contributors from different fields can, together, build something neither could have done separately. The collaborative feature presented in this paper can open the project to a larger group of Milton scholars who can expand existing readings by adding new interpretive layers or editorial analyses from other scholarly editions.

5.3.8 Conclusion

By addressing the prototyping process of A Map of *Paradise Lost*, we sought to offer an explanation of select prototyping moments in order to address the question "why map literature?"—essentially pointing to how the process of mapping is not unlike that of close reading, and that through data gathering and visualization, existing and novel interpretations of literature can be validated, expanded, and contested. The digital medium also encourages a space for creativity and for experimentation with scholarly communication and methodologies; for example, the project introduces a novel approach for cartographic comparison where maps and data layers can be visualized side-by-side for more intuitive explorations. The data pipeline provides a model for collaboration in which contributors with different technical skills can more

readily contribute to a project, in an attempt to encourage a community of practice among literary experts that can essentially be adapted to other projects and their respective content. In doing so, we are also conscious of the iterative nature of digital projects and their ephemerality in terms of maintenance, thus thinking and prototyping toward sustainability.

Conclusion

At the beginning of the dissertation, I addressed the gap in knowledge in the field of geospatial humanities, namely that although researchers have adopted digital approaches to study literary geography, publications in the field primarily focus on the literary aspects of these projects. However, many additional steps are involved in building geospatial humanities projects, including data modelling, iterative prototyping, and collaborating in multidisciplinary environments. Moreover, advancements in GIS and Geoweb technologies have opened new doors for community-university engagements through VGI and participatory mapping initiatives. Remaining outside the scope of this dissertation are other modes of digital spatial research that involve 3D modeling, VR, and AR technologies. Critical engagement with all the advancements in the field would require several dissertations beyond this one. Nonetheless, within the parameters of this dissertation's approach to geospatial humanities, the study would be incomplete without investigating prototyping and multidisciplinary collaboration. I argue that both are valuable fields of inquiry in themselves and require scholarly attention since they are fairly new methodologies and social modes of carrying out research in the humanities that are quickly becoming more prevalent. Doing so demands attention to those involved in the methodological commons and the types of research outputs generated through collaboration to ensure that team members are working toward best practices and shared goals, while also benefitting from the multidisciplinary endeavor. These modes of inquiry will continue to involve modelling (of both data and process) alongside research to produce digital objects and methodologies that make deep intellectual contributions to the topics they study.

Geospatial humanities research, as demonstrated in this dissertation, is a highly social endeavour. Chapter two engages with multidisciplinary prototyping and chapter three with

community-university partnerships, all for the purpose of creating richer, more thorough geospatial projects. Chapter five's final prototyping moment communicates another promising avenue for social involvement in geospatial projects, namely embedding a function that facilitates social annotation of the dataset in an accessible manner to encourage wider contributions to the project. Although there is a lack of common resources and workflows for this type of research in geospatial humanities, according to Martin Reckziegel et al. (2021), scholars are increasingly practicing social annotation of spatial materials, which contributes to the field in several ways. The authors argue that current scholarly annotation of digitized medieval maps usually involves adding several categories of information onto maps, including linguistic, semantic, and cartographic data (2). By focusing on specific examples, they address the benefits of social annotation of maps, such as co-creating linked open data annotations of maps from which searchable editions can be developed with tools like Digital Mappa, or the social annotation of maps and geographical texts for geospatial analysis with Recogito (3). However, embedding social annotation complicates the methodological commons in several ways. By opening a digital project to contributions beyond defined teams, the considerations addressed in chapter two in the context of the methodological commons, such as working toward shared understandings and goals, are no longer applicable. Opening projects for social annotation also introduces considerations about the quality of contributed data. More importantly, however, it allows for digital objects to be applied to new contexts and in new ways that can yield results beyond what we can imagine (McGann 1997) and pave the way for new scholarly research questions, directions, and insights. Further prototyping, as well as scholarship, resources, and guidelines for social annotation of geospatial sources are needed, and can contribute to the aim of

creating deeper, more meaningful datasets and research materials that can be used for digital literary geography analyses.

In addition to community-driven initiatives to create rich gazetteers as seen in Pleiades and Wikipedia, currently the field is also expanding through linked open data of large-scale gazetteers. This can be seen in the semantic annotation tool Recogito, a Pelagios project that in addition to drawing on Pleiades and the Digital Atlas of the Roman Empire (DARE) for ancient place names in the Mediterranean, also draws on the Map of Early Modern London Gazetteer that focuses on early modern London, HGIS de las Indias that focuses on Spanish America, CHGIS that focuses on China, and others for annotating and geocoding places in texts and images. This linking of data across projects through the semantic web offers another fruitful direction for the field in response to the lack of spatial data in the humanities today.

Although making scholarly contributions is the ultimate goal of geospatial humanities, there are still some limitations on what automated and digital methods today can produce, which challenges us to continue thinking, building, and collaborating creatively to help push the boundaries of technologies. The way that space is formulated in this dissertation—as unambiguous references to locations—is necessarily narrow in order for them to be detectable through geoparsing techniques and geovisualized on digital maps. This of course presents a significant limitation for literary studies since indirect references to places, such as "my childhood home" or "two blocks away" are left out. Structuring digital projects around geolocatable places also means that in Miner's (1990) categorization of common, proper, and improper place, both common and improper place are excluded. However, as alluded to in chapters four and five, literary places do not pertain to a value system that prioritizes references to real places over fictional ones. This limitation of the field is most stark in those two chapters,

since the project is structured around the terrestrial geography of *Paradise Lost*, excluding places that form the core of the epic poem, such as Eden, Heaven, Hell, and Chaos. Focusing on terrestrial locations provides ample opportunities for literary interpretation; however, there remains a lot of work to be done in the field to creatively capture common and improper places. Some popular projects have done notable work in this direction, such as the Lord of the Rings Project that traces the paths of the characters in the trilogy against a backdrop of J.R.R. Tolkien's Middle-earth and the numerous interactive Game of Thrones maps available online. These projects fall outside the scope of GIS and belong to the broader world of web mapping. Another category that falls outside the scope of this dissertation is metaphorical or allegorical place. Place has the power to evoke metaphors and extended allegories, especially in the context of early modern studies with works like Spenser's *The Faerie Queene*, or Shakespeare's works set in Venice or Rome that actually refer to London. There is a potential there for transgressing the boundaries between real and fictional, text and digital, in productive and provocative ways. Future digital literary geography endeavours will involve pushing the limitations of geospatial technologies by moving beyond the visualization of proper places to include common and improper ones. In this context, I am interested in both fictional places that have no reference to the real world and in metaphorical places.

Formulating space and place as unambiguous references to locations that are visualized on a GIS map interface also raises other issues. This notion is based on a hegemonic western model that privileges a Euclidean view of the world and fails to take into account historical and cultural conceptions of space and place. To turn back to the definitions of geospatial humanities and spatial humanities, the latter embraces conceptions of space and place that do not necessarily have a geographic component, and extends to alternative models that communicate specific

cultural spatial formulations in which not only literal geography is accounted for, but also places that occupy the imagination and memory. Some of this discourse is taking place in the context of deep mapping, defined by Bodenhamer, Corrigan, and Harris (2015) as "a finely detailed, multimedia depiction of a place and the people, animals, and objects that exist within it and are thus inseparable from the contours and rhythms of everyday life. Deep maps are not confined to the tangible or material, but include the discursive and ideological dimensions of place, the dreams, hopes, and fears of residents— they are, in short, positioned between matter and meaning" (3). While the physical geographic dimension remains crucial, deep maps represent space in its plurality and take into account discursive, ideological, and other dimensions as well. Although there is no uniform technological solution or software for deep mapping (1), Murrieta-Flores, Mariana Favila-Vázquez, and Aban Flores-Morán (forthcoming) point to how deep mapping as a concept far predates geospatial methodologies in spatial humanities, as do our conceptions of space predate Euclidian cartographic ones by millennia (2). In their chapter, Murrieta-Flores, Favila-Vázquez, and Flores-Morán point to the differences between Western maps and Mesoamerican representations of space where topographical features such as mountains and lakes, as well as vegetation, are considered "as living beings, taking a primary role in pictographic narrations as observed in the surviving prehispanic codices, where nature intervenes not only in the narrative, but is also intertwined with human actions and destiny" (forthcoming, 4). In this sense, then, authors consider Mesoamerican representations of space as mnemonic spatial technologies not unlike deep maps that are not necessarily bound with locational information in the strict way in which they are represented in GIS-based technologies. Together, this study points to how the field is extending its conception of space and place beyond modern cartography that champions cartographic, Euclidean representations since it does not

accurately reflect the wealth of historical and cultural formulations of space. Therefore, the future direction of the field involves modelling and prototyping to build spatial technologies that are more in-line with humanities approaches for non-locational geospatial visualizations that more aptly link us to our past and reflect the plurality of space then and now. Doing so will involve taking into account Johanna Drucker's (2020) conception of innovative graphical systems that create layered nonrepresentational visualizations—ones that are created for the act of knowledge production (86)—and move beyond the confines of GIS to take a deeper dive into web mapping and other technologies in the context of deep mapping.

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Appendix A: TopoText

El Khatib, Randa, Julia El Zini, Mohamad Jaber, David Joseph Wrisley, Wassim El-Hajj, Shady Elbassuoni, Bilal Abi Farraj, Houda Nasser, Shadia Barada, and Yasmin Kadah. 2015. TopoText. American University of Beirut. https://github.com/rkhatib/topotext.

Lines of code: 335195.

Link to prototype: https://github.com/rkhatib/topotext.

TopoText is a digital mapping and text analysis software prototype was built by remixing features of open-source tools. After inputting a text in plain text (.txt) format, TopoText matches all unambiguous place names with geographical coordinates and displays them on a Google map interface using the Stanford Named Entity Recognition (NER) Tagger (figure 17).

Figure 17 TopoText map automatically generated from a text using geoparsed using the Stanford NER Tagger and Google API

Matching is carried out using the Google Maps Platform and placed onto a Google Maps Engine basemap. Coordinated with the map are text analysis and concordance tools that display the

context in which the place names occur and allow manipulation of the content for analysis. Manipulation of text is carried out by collocating place-name occurrences and words that appear around them using Wordle (figure 18).

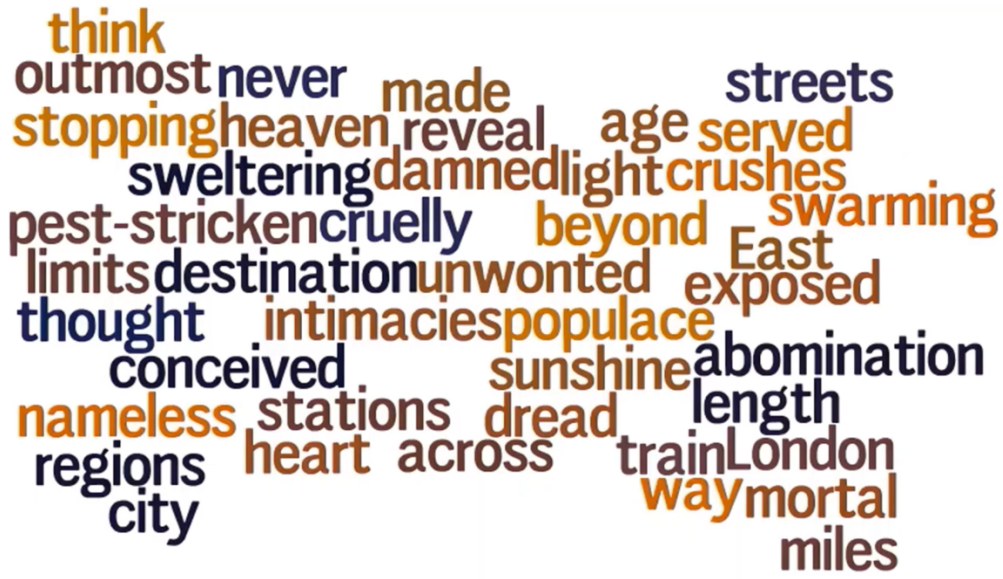

Figure 18 TopoText word-place collocations using Stanford NER Tagger and Wordle

Users can specify the number of words to collocate around a place name, and can categorize them according to part of speech with the embedded Stanford Part-of-Speech (POS) Tagger (figure 19), which extracts nouns, verbs, adjectives, or adverbs. These collocations can be localized to the specific passage in which the place name appears, or generated across the entire text by counting the most frequent word collocations around a selected place name.

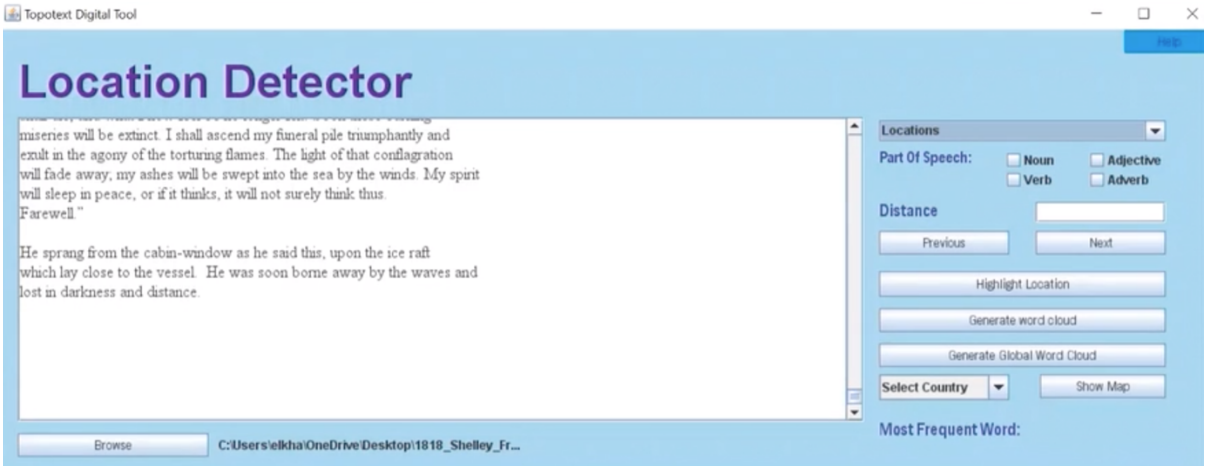

Figure 19 TopoText interface where the concordance tool, Standord POS Tagger, list of places, and bar to determine "distance" for word-place collocations can be seen

The target users for this tool are researchers conducting a geospatial analysis of a work and exploring topics that occur around specific place names in or across texts. No technical background is required for using TopoText, nor does it require a steep learning curve; it was purposely designed to provide a quick and easy entry point from which to conduct a spatial analysis that could help guide further spatial investigations. In addition, users can upload any type of plain text in English, French, German, or Spanish; this option facilitates a multifocal approach and makes potential applications of the tool available to different disciplines.

Codebase:

File: topotext/src/test/java/lb/edu/aub/test/LocationTest.java

```
package lb.edu.aub.test;

import static org.junit.Assert.*;
import lb.edu.aub.cmps.GoogleGeoLocation;
import lb.edu.aub.exceptions.LocationNotFoundException;

import org.junit.BeforeClass;
import org.junit.Test;

public class LocationTest
```

```
{
	static GoogleGeoLocation location;
	static GoogleGeoLocation location2;
	static GoogleGeoLocation location3;

	@BeforeClass
	public static void setUpBeforeClass() throws LocationNotFoundException{
		location= new GoogleGeoLocation("Beirut");
		location2= new GoogleGeoLocation("paris");


	}
	@Test
	public void MyTest() throws LocationNotFoundException
	{
		assertEquals(location.getCountry(), "Lebanon");
		assertEquals(location2.getCountry(), "France");


	}

	@Test ( expected = LocationNotFoundException.class )
	public void testLocationNotFoundException() throws LocationNotFoundException
	{
		location3= new GoogleGeoLocation("bbbbbbbb");
	}

}
```

File: topotext/src/test/java/lb/edu/aub/test/PosTest.java

```
package lb.edu.aub.test;

import static org.junit.Assert.*;

import java.util.LinkedList;


import lb.edu.aub.cmps.PartsOfSpeechImp;

import org.junit.Test;

public class PosTest
{
```

```
	@Test
	public void Test()
	{
		PartsOfSpeechImp pi=new PartsOfSpeechImp();
		LinkedList<String> text=new LinkedList<String>();
		text.add("is");
		text.add("shadia");
		text.add("happy");
		text.add("very");
		LinkedList<String> pos=new LinkedList<String>();
		pos.add("noun");
		pos.add("verb");
		pos.add("adverb");
		pos.add("adjective");

		LinkedList<String> noun=new LinkedList<String>();
		LinkedList<String> verb=new LinkedList<String>();
		LinkedList<String> adjective=new LinkedList<String>();
		LinkedList<String> adverb=new LinkedList<String>();

		noun.add("noun");
		verb.add("verb");
		adverb.add("adverb");
		adjective.add("adjective");

		assertEquals("needed parts of speech", "shadia",pi.promptedPartsOfSpeech(text,
noun).get(0));
		assertEquals("needed parts of speech", "is",pi.promptedPartsOfSpeech(text,
verb).get(0));
		assertEquals("needed parts of speech", "very",pi.promptedPartsOfSpeech(text,
adverb).get(0));
		assertEquals("needed parts of speech", "happy",pi.promptedPartsOfSpeech(text,
adjective).get(0));


	}

}
```

File: topotext/src/test/java/lb/edu/aub/test/HighliterTest.java

```
package lb.edu.aub.test;

import static org.junit.Assert.*;
import java.util.LinkedList;
```

```
import lb.edu.aub.cmps.HighlighterImplementation;
import lb.edu.aub.exceptions.LocationNotFoundException;

import org.junit.BeforeClass;
import org.junit.Test;

public class HighliterTest
{
	static String s;
	static LinkedList<Integer> neededIndeces;

	@BeforeClass
	public static void setUpBeforeClass() throws LocationNotFoundException{

		s= "This is our project, it is really awesome. We worked hard to get it done. This
is a test class.";
		neededIndeces= new LinkedList<Integer>();
		neededIndeces.add(5);
		neededIndeces.add(24);
		neededIndeces.add(79);

	}
	@Test
	public void MyTest()
	{

		assertEquals("Testing indeces collection", neededIndeces,
HighlighterImplementation.allIndeces(s, "is"));


	}

}
```

File: topotext/src/test/java/lb/edu/aub/test/GenerateCloudTest.java

```
package lb.edu.aub.test;


import org.junit.Test;
import java.util.LinkedList;
import junit.framework.TestCase;
import lb.edu.aub.cmps.CountFrequency;
import lb.edu.aub.cmps.CountFrequencyImp;
```

```
public class GenerateCloudTest extends TestCase
{
	static LinkedList<String> locations;

	@Test

	public void testingMethod()
	{
		locations= new LinkedList<String>();

		locations.add("Paris");
		locations.add("USA");
		locations.add("London");
		locations.add("France");
		locations.add("Beirut");
		locations.add("Tyre");
		locations.add("Paris");
		locations.add("Orleans");
		locations.add("Beirut");
		locations.add("Paris");
		locations.add("Paris");
		locations.add("London");
		locations.add("France");
		locations.add("Beirut");
		locations.add("Tyre");
		locations.add("Paris");
		locations.add("Orleans");
		locations.add("Beirut");
		locations.add("Paris");

		CountFrequency a = new CountFrequencyImp(locations);

		assertEquals("testing the method most frequent cloud",a.MFW(),"Paris");
		assertEquals("testing the method least frequent cloud", a.LFW(),"USA");

		assertNotSame("testing the method most frequent cloud",a.MFW(),"Beirut");
		assertNotSame("testing the method least frequent cloud", a.LFW(),"Beirut");
	}

}
```

File: topotext/src/test/java/lb/edu/aub/test/TestSuite.java

```
package lb.edu.aub.test;
```

```
import org.junit.runner.RunWith;
import org.junit.runners.Suite;
import org.junit.runners.Suite.SuiteClasses;

@RunWith(Suite.class)
@SuiteClasses({ GenerateCloudTest.class, HighliterTest.class, PosTest.class,
LocationTest.class })
public class TestSuite
{

}
```

File: topotext/src/main/java/lb/edu/aub/exceptions/LocationNotFoundException.java

```
package lb.edu.aub.exceptions;

public class LocationNotFoundException extends Exception{


	/**
	 *
	 */
	private static final long serialVersionUID = 1L;

	public LocationNotFoundException(){
		super();
	}

	public LocationNotFoundException(String msg){
		super(msg);
	}

}
```

File: topotext/src/main/java/lb/edu/aub/cmps/ReadNovelImp.java

```
package lb.edu.aub.cmps;

import java.io.File;
import java.io.FileNotFoundException;
import java.util.HashMap;
import java.util.LinkedList;
import java.util.List;
import java.util.Scanner;
```

```
import java.util.Set;
import java.util.TreeSet;

import edu.stanford.nlp.ie.AbstractSequenceClassifier;
import edu.stanford.nlp.ie.crf.CRFClassifier;
import edu.stanford.nlp.ling.CoreAnnotations;
import edu.stanford.nlp.ling.CoreLabel;

public class ReadNovelImp implements ReadNovelInterface {
	private Set<String> locations;
	private String filePath;
	private HashMap<String, LinkedList<Integer>> locationIndices;

	/*
	 * returns: locations: HashMap of keyset locations and values list of
	 * indices.
	 */

	public ReadNovelImp(String fileName) {
		this.filePath = fileName;
		try {
			setLocations();
		} catch (FileNotFoundException e) {
			e.printStackTrace();
		}
	}

	public HashMap<String, LinkedList<Integer>> getLocationsWithIndeces() {
		String text;
		locationIndices = new HashMap<String, LinkedList<Integer>>();
		try {
			text = getText(filePath);
			String[] words = text.split("\\W+");

			for (String l : locations) {
				LinkedList<Integer> indecesInArray = new
LinkedList<Integer>();
				if(l.split(" ").length==1){
					for (int i = 0; i < words.length; i++) {
						if (words[i].equalsIgnoreCase(l)) {
							indecesInArray.add(i);
						}
					}
				}
				else{
```

```
                                        for (int i = 0; i < words.length; i++) {
                                                if (words[i].equalsIgnoreCase(l.split(" ")[0]) &&
        words[i+1].equalsIgnoreCase(l.split(" ")[1])) {
                                                        indecesInArray.add(i);
                                                        i++;
                                                }
                                        }
                                }
                                locationIndices.put(l, indecesInArray);
                        }
                } catch (FileNotFoundException e) {
                        // TODO Auto-generated catch block
                        e.printStackTrace();
                }

                return locationIndices;

        }

        /*
         * requires: fileName not null effects: fills a map with the location in the
         * string with their indices
         */
        private void setLocations() throws FileNotFoundException {
                // Getting the classifier.
                AbstractSequenceClassifier<CoreLabel> classifier = getClassifier();
                // Creating a hashmap to contain the locations with the indices in which
                // they occur.
                locations = new TreeSet<String>();
                // Getting the text in the fileName as a string.
                String novel = getText(filePath);
                List<List<CoreLabel>> out = classifier.classify(novel);
                // Looping over all the words to find the locations, while keeping track
                // of their indices.
                for (List<CoreLabel> sentence : out) {
                        LinkedList<CoreLabel> words = new LinkedList<CoreLabel>();
                        for (CoreLabel word : sentence) {
                                words.add(word);
                        }
                        for (int i = 0; i < words.size()-1; i++) {
                                CoreLabel word = words.get(i);
                                CoreLabel nextWord = words.get(i + 1);
                                String geoLoc = word.word();
                                if
(word.get(CoreAnnotations.AnswerAnnotation.class).equals("LOCATION"))
```

```
                                {
                                        if
(nextWord.get(CoreAnnotations.AnswerAnnotation.class).equals("LOCATION"))
                                        {
                                                int j = i + 1;
                                                while (j < i + 5 && j< words.size()-1)
                                                {
                                                        if
(words.get(j).get(CoreAnnotations.AnswerAnnotation.class).equals("LOCATION"))
                                                        {
                                                                geoLoc += " " + words.get(j).word();
                                                        }
                                                        j++;
                                                }
                                                locations.add(geoLoc);
                                                i=j;
                                        }
                                        locations.add(geoLoc);
                                }
                        }
                }
        }

        /*
         * Private method to get the classifier.
         */
        private static AbstractSequenceClassifier<CoreLabel> getClassifier() {
                String serializedClassifier = "Files/english.all.3class.distsim.crf.ser.gz";
                AbstractSequenceClassifier<CoreLabel> classifier = CRFClassifier
                                .getClassifierNoExceptions(serializedClassifier);
                return classifier;
        }

        /*
         * Private method to get the text of the specified file name and return it
         * as a string.
         */
        private static String getText(String fileName) throws FileNotFoundException {
                Scanner input = new Scanner(new File(fileName));
                String s = "";
                while (input.hasNextLine()) {
                        s += input.nextLine() + " ";
                }
                input.close();
                return s;
        }
```

```
	public Set<String> getLocations() {
		return locations;
	}

}
```

File: topotext/src/main/java/lb/edu/aub/cmps/ReadNovelInterface.java

```
package lb.edu.aub.cmps;

import java.util.HashMap;
import java.util.LinkedList;
import java.util.Set;

public interface ReadNovelInterface {

	/*
	 * returns: locations: HashMap of keyset locations and values list of indices.
	 */
	public HashMap<String, LinkedList<Integer>> getLocationsWithIndeces();

	/*
	 * returns: locations: HashMap of keyset locations and values list of indices.
	 */
	public Set<String> getLocations();
}
```

File: topotext/src/main/java/lb/edu/aub/cmps/HighlighterImplementation.java

```
package lb.edu.aub.cmps;

import java.awt.Color;
import java.util.HashMap;
import java.util.LinkedList;
import java.util.Map;
import java.util.regex.Matcher;
import java.util.regex.Pattern;

import javax.swing.JOptionPane;
import javax.swing.text.BadLocationException;
import javax.swing.text.Document;
import javax.swing.text.Highlighter;
import javax.swing.text.JTextComponent;
```

```
public class HighlighterImplementation implements HighlighterInterface{
	int currentLocation=0;


	public void highlightLocation(JTextComponent textComp, String location) {
		//Highlights a single location throughout the text
		Highlighter.HighlightPainter locationHighlighter= new
MyHighlighPainter(Color.cyan);

		try{
			Highlighter highlighter= textComp.getHighlighter();
			highlighter.removeAllHighlights();
			Document doc = textComp.getDocument();
			String text = doc.getText(0, doc.getLength()).toUpperCase();
			int size= location.length();
			LinkedList<Integer> indeces= allIndeces(text, location.toUpperCase());
			for(int i=0; i<indeces.size(); i++){
				int index=indeces.get(i);
				highlighter.addHighlight(index, index+size, locationHighlighter);
			}
		}
		catch(Exception e){
			e.printStackTrace();
		}
	}

		public void highlightWithDistance(JTextComponent textComp, String location,
int index,
			int size, LinkedList<Integer> wordIndeces ) {
		Highlighter.HighlightPainter cloudHighlighter= new MyHighlighPainter(new
Color(211, 211, 211));
		Highlighter highlighter= textComp.getHighlighter();
		Document doc = textComp.getDocument();
		String text;
		try {
			text = doc.getText(0, doc.getLength()).toUpperCase();
			int txtSize= text.split(" ").length-1;
			location= location.toUpperCase();
			LinkedList<Integer> locationIndeces= allIndeces(text, location);
			Map<Integer, Integer> map= getMap(wordIndeces, locationIndeces);
			int locationIndex= map.get(index);

			if(size>=index){
				highlighter.addHighlight(0, locationIndex, cloudHighlighter);
```

```
                    }
                    else if(size!=0){
                        int i= locationIndex-2;
                        int counterBefore=0;


                        while(i>=0 && counterBefore<size){
                            if(text.charAt(i)==' '){
                                i--;
                                counterBefore++;
                            }
                            else
                                i--;
                        }
                        highlighter.addHighlight(i+2, locationIndex, cloudHighlighter);
                    }
                    if(locationIndeces.indexOf(index)+size>=txtSize && size!=0){

                        highlighter.addHighlight(locationIndex+location.length(),
text.length(), cloudHighlighter);
                    }
                    else if(size!=0){
                        int start= locationIndex+location.length()+1;
                        int i= start;
                        int counterAfter=0;


                        while(i<text.length() && counterAfter<size){
                            if(text.charAt(i)==' '){
                                i++;
                                counterAfter++;
                            }
                            else
                                i++;
                        }
                        highlighter.addHighlight(start-1, i-1, cloudHighlighter);
                    }

                } catch (BadLocationException e) {
                    e.printStackTrace();
                }
            }


            public LinkedList<String> returnWords(JTextComponent textComp, int index,
                    int size) {
```

```
		LinkedList<String> toReturn = new LinkedList<String>();
		Document doc = textComp.getDocument();
		String text="";
		String[] wordList;
		//LinkedList<String> returnList = new LinkedList<String>();
		try {
			text = doc.getText(0, doc.getLength());
			wordList= text.split(" ");

			//To avoid lower index out of bound
			if(index-size<0){
				for(int i=0; i<index; i++)
					toReturn.add(wordList[i]);
			}

			//If no lower index out of bound
			else{
				for(int i= index-size; i<index; i++){
					toReturn.add(wordList[i]);
				}
			}

			//To avoid upper index out of bound
			if(index+size>=wordList.length){
				for(int i= index+1; i<wordList.length; i++)
					toReturn.add(wordList[i]);
			}

			//If no upper index out of bound
			else{
				for(int i= index+1; i<=index+size; i++)
					toReturn.add(wordList[i]);
			}

		} catch (BadLocationException e) {
			e.printStackTrace();
		}
		return toReturn;
	}

//////////////////////
	public void nextLocation(JTextComponent textComp, String location, int currentIndex,
			LinkedList<Integer> indexList, int size) {
		Highlighter highlighter= textComp.getHighlighter();
		highlighter.removeAllHighlights();
		highlightLocation(textComp, location);
```

```
                int index= indexList.indexOf(currentIndex);

                if(index== indexList.size()-1){
                        JOptionPane.showMessageDialog(null, "No more instances of this
location");
                }
                else{
                        index++;
                        setCurrentLocation(indexList.get(index));
                        highlightWithDistance(textComp, location, indexList.get(index), size,
indexList);
                }

        }

//////////////////
        public void previousLocation(JTextComponent textComp, String location, int
currentIndex,
                        LinkedList<Integer> indexList, int size) {
                Highlighter highlighter= textComp.getHighlighter();
                highlighter.removeAllHighlights();
                highlightLocation(textComp, location);
                int index= indexList.indexOf(currentIndex);

                if(index== 0){
                        JOptionPane.showMessageDialog(null, "No more instances of this
location");
                }
                else if(index< indexList.size()){
                        index--;
                        setCurrentLocation(indexList.get(index));
                        //posLabel.setText(""+index);
                        highlightWithDistance(textComp, location, indexList.get(index), size,
indexList);
                }
                else{
                        index= indexList.size()-1;
                        setCurrentLocation(indexList.get(index));
                //      posLabel.setText(""+index);
                        highlightWithDistance(textComp, location, indexList.get(index), size,
indexList);
                }
        }
//////////////////////
        public static LinkedList<Integer> allIndeces(String s, String word){
                LinkedList<Integer> positions = new LinkedList<Integer>();
```

```
                Pattern p = Pattern.compile(" "+word.toUpperCase());
                Pattern p1 = Pattern.compile("\n"+word.toUpperCase());
                Pattern p2 = Pattern.compile("\t"+word.toUpperCase());
                Matcher m = p.matcher(" "+s.toUpperCase());
                Matcher m1 = p1.matcher(" "+s.toUpperCase());
                Matcher m2 = p2.matcher(" "+s.toUpperCase());

                while (m.find()) {
                  positions.add(m.start());
                }

                while (m1.find()) {
                        positions.add(m1.start());
                }

                while (m2.find()) {
                        positions.add(m2.start());
                }
                return positions;
        }
        ////////////////////
        public Map<Integer, Integer> getMap(LinkedList<Integer> wordIndex,
LinkedList<Integer> occurances){
                System.out.println("word index "+wordIndex+"\noccurances "+occurances);
                Map<Integer, Integer> map= new HashMap<Integer, Integer>();
                for(int i=0; i<wordIndex.size(); i++){

                        map.put(wordIndex.get(i), occurances.get(i));
                }
                return map;
        }


        public void setCurrentLocation(int newLocation){
                currentLocation= newLocation;
        }




}
```

File: topotext/src/main/java/lb/edu/aub/cmps/GenerateJSON.java

```
package lb.edu.aub.cmps;
```

```
import java.io.File;
import java.io.FileNotFoundException;
import java.io.PrintStream;
import java.util.List;

import org.json.simple.JSONObject;

public class GenerateJSON {

	@SuppressWarnings("unchecked")
	public static void generateJSON(List<JSONLocation> locations) {
		try {
			PrintStream json_file = new PrintStream(new File("Files\\out.json"));

			JSONObject json = new JSONObject();
			for (JSONLocation location : locations) {
				// name
				json.put("Location Name", location.getLocation_name());
				// geolocations
				JSONObject geo_locations_json = new JSONObject();
				int i = 0;
				for (GoogleGeoLocation geo_location :
location.getGeoLocations()) {
					geo_locations_json.put("x", geo_location.getX());
					geo_locations_json.put("y", geo_location.getY());
					geo_locations_json
							.put("country", geo_location.getCountry());
					geo_locations_json.put("local annotation",
							location.getLocal_annotations()[i]);
					i++;

				}
				json.put("Geo Locations", geo_locations_json);
				// annotation global
				json.put("Annotation", location.getGlobal_nnotation());
				// weight
				json.put("Weight", location.getWeight());
				json_file.print(json);
				json_file.close();
			}
		} catch (FileNotFoundException e) {
			e.printStackTrace();
		}

	}
```

```
}
```

File: topotext/src/main/java/lb/edu/aub/cmps/Frame.java

```
package lb.edu.aub.cmps;

import javax.swing.*;
import javax.swing.border.EmptyBorder;
import javax.swing.filechooser.FileNameExtensionFilter;
import javax.swing.text.BadLocationException;
import javax.swing.text.Document;
import javax.swing.text.Highlighter;
import javax.swing.text.JTextComponent;
import java.awt.Color;
import java.awt.Desktop;

import javax.swing.JButton;
import javax.swing.JFileChooser;
import javax.swing.JTextField;
import javax.swing.JTextArea;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import java.util.HashMap;
import java.util.LinkedList;
import java.util.Map;
import java.util.Scanner;
import java.util.Set;
import java.util.regex.Matcher;
import java.util.regex.Pattern;
import java.awt.Font;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.IOException;
import javax.swing.border.TitledBorder;

public class Frame extends JFrame {
	/**
	 *
	 */
	private String filePath;
	private static final long serialVersionUID = 1L;
	private JPanel contentPane;
	private JTextField cloudSizeField;
	JLabel posLabel;
	JComboBox<String> comboBox;
```

```
private String chosenLocation;
private int size = 0;
private int currentLocation = 0;
private LinkedList<Integer> wordIndeces;

private ReadNovelInterface readNovel;
private GenerateWordCloudInteface generateCloud;
private PartsOfSpeechInterface pos;
private CountFrequency freq;

private LinkedList<Integer> indicesForScroll;
private int indexForScroll;

final JCheckBox chckbxNoun;
final JCheckBox chckbxVerb;
final JCheckBox chckbxAdverb;
final JCheckBox chckbxAdjective;

final JLabel lblMostFrequentWord;
private Set<String> locations;

/**
 * Launch the application.
 */

/**
 * Create the frame.
 */
public Frame() {
	setTitle("Topotext Digital Tool\r\n");
	pos = new PartsOfSpeechImp();
	setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
	setBounds(100, 100, 1200, 470);
	contentPane = new JPanel();
	contentPane.setForeground(new Color(241, 230, 140));
	contentPane.setBackground(new Color(176, 224, 230));
	contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
	setContentPane(contentPane);
	contentPane.setLayout(null);
	final JTextArea textArea = new JTextArea();
	textArea.setWrapStyleWord(true);
	textArea.setLineWrap(true);
	textArea.setColumns(5);
	textArea.setFont(new Font("Times New Roman", Font.PLAIN, 16));
	textArea.setEditable(false);
```

```
		final JComboBox<String> comboBox = new JComboBox<String>();
		comboBox.setEnabled(false);
		comboBox.setBounds(857, 88, 278, 20);
		contentPane.add(comboBox);

		final JButton btnHighlight = new JButton("Highlight Location");
		btnHighlight.setEnabled(false);
		btnHighlight.setFont(new Font("Franklin Gothic Medium Cond",
				Font.PLAIN, 14));
		btnHighlight.addActionListener(new ActionListener() {
			public void actionPerformed(ActionEvent arg0) {

				if (comboBox == null || comboBox.getSelectedItem() == null
						|| comboBox.getSelectedItem().equals("Locations"))
{
					JOptionPane
							.showMessageDialog(null,
									"Please select a location
before",
									"Received Message",

	JOptionPane.INFORMATION_MESSAGE);
				} else {
					chosenLocation = "" + comboBox.getSelectedItem();
					if (cloudSizeField.getText().equals(""))
						size = 0;
					else
						size = Integer.parseInt(cloudSizeField.getText());
					wordIndeces = readNovel.getLocationsWithIndeces().get(
							chosenLocation);
					currentLocation = wordIndeces.get(0);
					highlightLocation(textArea, chosenLocation);
					textArea.setCaretPosition(currentLocation);
					highlightWithDistance(textArea, chosenLocation,
							currentLocation, size, wordIndeces);
					indexForScroll = 0;
					textArea.setCaretPosition(indicesForScroll
							.get(indexForScroll));
				}
			}
		});

		final JScrollPane scrollArea = new JScrollPane();
		scrollArea.setViewportBorder(new TitledBorder(null, "",
				TitledBorder.CENTER, TitledBorder.TOP, null, null));
```

```
		scrollArea.setBounds(21, 85, 821, 295);
		contentPane.add(scrollArea);

		textArea.setRows(10);
		scrollArea.setViewportView(textArea);
		btnHighlight.setBounds(857, 234, 278, 25);
		contentPane.add(btnHighlight);

		final JLabel lblCloudSize = new JLabel("Distance");
		lblCloudSize.setForeground(new Color(72, 61, 139));
		lblCloudSize.setFont(new Font("Franklin Gothic Medium Cond",
				Font.PLAIN, 18));
		lblCloudSize.setBounds(857, 164, 146, 20);
		contentPane.add(lblCloudSize);

		cloudSizeField = new JTextField();
		cloudSizeField.setBounds(1009, 167, 126, 20);
		contentPane.add(cloudSizeField);
		cloudSizeField.setColumns(10);

		final JButton btnPrevious = new JButton("Previous");
		btnPrevious.setEnabled(false);
		btnPrevious.addActionListener(new ActionListener() {
			public void actionPerformed(ActionEvent arg0) {
				if (comboBox == null || comboBox.getSelectedItem() == null
						|| comboBox.getSelectedItem().equals("Locations"))
{
					JOptionPane
							.showMessageDialog(null,
									"Please select a location
before",
									"Received Message",

	JOptionPane.INFORMATION_MESSAGE);
				}

				else {
					previousLocation(textArea, chosenLocation,
currentLocation,
							wordIndeces);
				}
			}
		});
		btnPrevious.setFont(new Font("Franklin Gothic Medium Cond", Font.PLAIN,
				14));
		btnPrevious.setBounds(857, 195, 126, 23);
```

```
		contentPane.add(btnPrevious);

		final JButton nextBtn = new JButton("Next");
		nextBtn.setEnabled(false);
		nextBtn.addActionListener(new ActionListener() {
			public void actionPerformed(ActionEvent arg0) {
				if (comboBox == null || comboBox.getSelectedItem() == null
						|| comboBox.getSelectedItem().equals("Locations"))
{
					JOptionPane
							.showMessageDialog(null,
									"Please select a location
before",
									"Received Message",

	JOptionPane.INFORMATION_MESSAGE);
				} else {
					chosenLocation = "" + comboBox.getSelectedItem();
					nextLocation(textArea, chosenLocation, currentLocation,
							wordIndeces);
				}
			}
		});
		nextBtn.setFont(new Font("Franklin Gothic Medium Cond", Font.PLAIN, 14));
		nextBtn.setBounds(1009, 195, 126, 23);
		contentPane.add(nextBtn);

		JLabel lblLocationDetector = new JLabel("Location Detector");
		lblLocationDetector.setForeground(new Color(75, 0, 130));
		lblLocationDetector.setFont(new Font("Adobe Caslon Pro Bold",
			Font.BOLD, 45));
		lblLocationDetector.setBounds(22, 11, 540, 76);
		contentPane.add(lblLocationDetector);

		chckbxNoun = new JCheckBox("Noun");
		chckbxNoun.setEnabled(false);
		chckbxNoun.setBackground(new Color(176, 224, 230));
		chckbxNoun.setBounds(977, 115, 70, 23);
		contentPane.add(chckbxNoun);

		chckbxVerb = new JCheckBox("Verb");
		chckbxVerb.setEnabled(false);
		chckbxVerb.setBackground(new Color(176, 224, 230));
		chckbxVerb.setBounds(977, 134, 70, 23);
		contentPane.add(chckbxVerb);
```

```
		chckbxAdjective = new JCheckBox("Adjective");
		chckbxAdjective.setEnabled(false);
		chckbxAdjective.setBackground(new Color(176, 224, 230));
		chckbxAdjective.setBounds(1058, 115, 170, 23);
		contentPane.add(chckbxAdjective);

		chckbxAdverb = new JCheckBox("Adverb");
		chckbxAdverb.setEnabled(false);
		chckbxAdverb.setBackground(new Color(176, 224, 230));
		chckbxAdverb.setBounds(1058, 134, 170, 23);
		contentPane.add(chckbxAdverb);

		final JButton btnCloud = new JButton("Generate word cloud");
		btnCloud.setEnabled(false);
		btnCloud.addActionListener(new ActionListener() {
			public void actionPerformed(ActionEvent arg0) {
				if (comboBox == null || comboBox.getSelectedItem() == null
						|| comboBox.getSelectedItem().equals("Locations"))
{
					JOptionPane
							.showMessageDialog(null,
									"Please select a location
before",
									"Received Message",

	JOptionPane.INFORMATION_MESSAGE);
				} else if (cloudSizeField.getText().equals("0")
						|| cloudSizeField.getText().equals(" "))
					JOptionPane
							.showMessageDialog(
									null,
									"Please provide a distance for
the cloud before",
									"Received Message",

	JOptionPane.INFORMATION_MESSAGE);

				else {
					try {
						size = Integer.parseInt(cloudSizeField.getText());
						LinkedList<String> words = returnWords(textArea,
								currentLocation,

	Integer.parseInt(cloudSizeField.getText()));
```

```
                                        LinkedList<String> partsOfSpeech = new
LinkedList<String>();

                                        int countParts = 0;
                                        if (chckbxNoun.isSelected()) {
                                                partsOfSpeech.add("noun");
                                                countParts++;
                                        }
                                        if (chckbxVerb.isSelected()) {
                                                partsOfSpeech.add("verb");
                                                countParts++;

                                        }
                                        if (chckbxAdverb.isSelected()) {
                                                partsOfSpeech.add("adverb");
                                                countParts++;

                                        }
                                        if (chckbxAdjective.isSelected()) {
                                                partsOfSpeech.add("adjective");
                                                countParts++;

                                        }
                                        LinkedList<String> neededWords =
returnWords(textArea,
                                                        currentLocation,

                Integer.parseInt(cloudSizeField.getText()));

                                        if (countParts == 0) {
                                                LinkedList<String> fullParts = new
LinkedList<String>();
                                                fullParts.add("verb");
                                                fullParts.add("noun");
                                                fullParts.add("adverb");
                                                fullParts.add("adjective");
                                                neededWords =
pos.promptedPartsOfSpeech(words,
                                                                fullParts);

                                        } else
                                                neededWords =
pos.promptedPartsOfSpeech(words,
                                                                partsOfSpeech);

                                        String toCloud = toCloud(neededWords);
```

```
                                        generateCloud = new
GenerateWordCloud(toCloud);
                                        generateCloud.generateWordCloud(new File(
                                                "Files/cloud.html"));
                                } catch (NumberFormatException e) {
                                        JOptionPane
                                                .showMessageDialog(
                                                        null,
                                                        "Please provide a
valid non-negative distance for the cloud before",
                                                        "Received Message",

        JOptionPane.INFORMATION_MESSAGE);

                                }
                        }
                }
        });
        btnCloud.setFont(new Font("Franklin Gothic Medium Cond", Font.PLAIN, 14));
        btnCloud.setBounds(857, 270, 278, 23);
        contentPane.add(btnCloud);

        final JComboBox<String> countries_comboBox = new JComboBox<String>();
        countries_comboBox.setEnabled(false);
        countries_comboBox.setBounds(857, 334, 126, 25);
        contentPane.add(countries_comboBox);
        countries_comboBox.setModel(new DefaultComboBoxModel<String>(
                        WorldCountries.countries()));

        lblMostFrequentWord = new JLabel("Most Frequent Word:");
        lblMostFrequentWord.setForeground(new Color(72, 61, 139));
        lblMostFrequentWord.setFont(new Font("Franklin Gothic Medium Cond",
                        Font.PLAIN, 18));
        lblMostFrequentWord.setBounds(857, 374, 278, 24);
        contentPane.add(lblMostFrequentWord);

        lblMostFrequentWord.setEnabled(false);

        final JButton btnMap = new JButton("Show Map");
        btnMap.setEnabled(false);
        btnMap.addActionListener(new ActionListener() {
                public void actionPerformed(ActionEvent e) {
                        DrawMapInterface drawMap = new DrawMap();
                        if ((countries_comboBox.getSelectedItem())
                                        .equals("Select Country")) {
```

```
                                        boolean done = drawMap.drawMap(locations);
                                        if (!done)
                                                JOptionPane.showMessageDialog(null,
                                                                "Error occured while drawing the
map",
                                                                "Received Message",

        JOptionPane.INFORMATION_MESSAGE);

                                        } else {
                                                boolean done = drawMap.drawMapInCountry(locations,
                                                                (String)
countries_comboBox.getSelectedItem());
                                                if (!done)
                                                        JOptionPane
                                                                        .showMessageDialog(
                                                                                        null,
                                                                                        "Error occured while
drawing the Map\nThe country you selected has no locations in this text",
                                                                                        "Received Message",

        JOptionPane.INFORMATION_MESSAGE);

                                                }
                                        }
                                });
                                btnMap.setFont(new Font("Franklin Gothic Medium Cond", Font.PLAIN, 14));
                                btnMap.setBounds(1013, 334, 122, 23);
                                contentPane.add(btnMap);

                                JButton btnBrowse = new JButton("Browse");
                                btnBrowse.setFont(new Font("Franklin Gothic Medium Cond", Font.PLAIN,
                                                14));

                                final JLabel progressLabel = new JLabel("");
                                progressLabel.setBounds(857, 41, 266, 36);
                                contentPane.add(progressLabel);

                                final JButton btnGenerateGlobalWord = new JButton(
                                                "Generate Global Word Cloud");
                                btnGenerateGlobalWord.addActionListener(new ActionListener() {
                                        public void actionPerformed(ActionEvent e) {
                                                String toCloud = generateGlobalCloud(textArea, wordIndeces,
                                                                Integer.parseInt(cloudSizeField.getText()));
                                                generateCloud = new GenerateWordCloud(toCloud);
                                                generateCloud.generateWordCloud(new File("Files/cloud.html"));
```

```
        }
});
btnGenerateGlobalWord.setEnabled(false);
btnGenerateGlobalWord.setFont(new Font("Franklin Gothic Medium Cond",
                Font.PLAIN, 14));
btnGenerateGlobalWord.setBounds(857, 304, 278, 23);
contentPane.add(btnGenerateGlobalWord);

final JLabel pathLabel = new JLabel("");
pathLabel.setBounds(216, 391, 295, 23);
contentPane.add(pathLabel);
btnBrowse.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
                progressLabel.setText("Loading to get the locations...");
                JFileChooser chooser = new JFileChooser();

                // we add the filter to force the user to add only properties
                // file
                FileNameExtensionFilter filter = new FileNameExtensionFilter(
                                "Text File", "txt");
                chooser.setFileFilter(filter);
                chooser.addChoosableFileFilter(filter);
                int returnVal = chooser.showOpenDialog(null);
                if (returnVal == JFileChooser.APPROVE_OPTION) {
                        lblMostFrequentWord.setEnabled(true);

                        comboBox.setEnabled(true);
                        countries_comboBox.setEnabled(true);
                        btnPrevious.setEnabled(true);
                        nextBtn.setEnabled(true);
                        btnHighlight.setEnabled(true);
                        btnMap.setEnabled(true);
                        btnCloud.setEnabled(true);
                        btnGenerateGlobalWord.setEnabled(true);
                        chckbxAdverb.setEnabled(true);
                        chckbxVerb.setEnabled(true);
                        chckbxAdjective.setEnabled(true);
                        chckbxNoun.setEnabled(true);
                        filePath = chooser.getSelectedFile().getPath();
                        pathLabel.setText(filePath.toString());
                        File file = new File(filePath);

                        try {
                                Scanner sc = new Scanner(file);
                                String text = " ";
```

```
                                        while (sc.hasNextLine()) {
                                                String line = sc.nextLine();
                                                text += line + "\n";
                                        }
                                        sc.close();
                                        textArea.setText(text);

                                } catch (FileNotFoundException e1) {
                                        e1.printStackTrace();
                                }

                                readNovel = new ReadNovelImp(filePath);
                                locations = readNovel.getLocations();
                                String[] locationsArray = new String[locations.size() + 1];
                                locationsArray[0] = "Locations";
                                int i = 1;
                                for (String loc : locations) {
                                        locationsArray[i] = loc;
                                        i++;
                                }
                                comboBox.setModel(new
DefaultComboBoxModel<String>(
                                                locationsArray));
                                locations = readNovel.getLocations();
                                progressLabel.setText("");
                        }
                }
        });

        btnBrowse.setBounds(21, 391, 185, 23);
        contentPane.add(btnBrowse);

        JLabel lblPartOfSpeech = new JLabel("Part Of Speech:");
        lblPartOfSpeech.setForeground(new Color(72, 61, 139));
        lblPartOfSpeech.setFont(new Font("Franklin Gothic Medium Cond",
                        Font.PLAIN, 16));
        lblPartOfSpeech.setBounds(857, 113, 146, 20);
        contentPane.add(lblPartOfSpeech);

        JButton btnHelp = new JButton("Help");
        btnHelp.addActionListener(new ActionListener() {
                public void actionPerformed(ActionEvent arg0) {
                        try {
                                Desktop.getDesktop().open(new File("Files/Help.txt"));
                        } catch (IOException e) {
                                e.printStackTrace();
```

```
                }
            }
        });
        btnHelp.setBackground(new Color(0, 206, 209));
        btnHelp.setForeground(new Color(72, 61, 139));
        btnHelp.setFont(new Font("Franklin Gothic Medium Cond", Font.PLAIN, 14));
        btnHelp.setBounds(1095, 0, 89, 23);
        contentPane.add(btnHelp);
}

public void highlightLocation(JTextComponent textComp, String location) {
        // Highlights a single location throughout the text
        Highlighter.HighlightPainter locationHighlighter = new MyHighlighPainter(
                        Color.cyan);

        try {
                Highlighter highlighter = textComp.getHighlighter();
                highlighter.removeAllHighlights();
                Document doc = textComp.getDocument();
                String text = doc.getText(0, doc.getLength()).toUpperCase();
                int size = location.length();
                LinkedList<Integer> indeces = allIndeces(text,
                                location.toUpperCase());
                for (int i = 0; i < indeces.size(); i++) {
                        int index = indeces.get(i);
                        highlighter.addHighlight(index, index + size,
                                        locationHighlighter);
                }

                if (!cloudSizeField.getText().equals("")) {

                        LinkedList<String> words = returnWordsIgnoringUnintersesting(
                                        textComp, currentLocation,
                                        Integer.parseInt(cloudSizeField.getText()));

                        freq = new CountFrequencyImp(words);

                        lblMostFrequentWord
                                        .setText("Most Frequent Word: " + freq.MFW());
                }

        } catch (Exception e) {
                e.printStackTrace();
        }
}
```

```
public void highlightWithDistance(JTextComponent textComp, String location,
        int index, int size, LinkedList<Integer> wordIndeces) {
    Highlighter.HighlightPainter cloudHighlighter = new MyHighlighPainter(
            new Color(211, 211, 211));
    Highlighter highlighter = textComp.getHighlighter();
    Document doc = textComp.getDocument();
    String text;
    try {
        text = doc.getText(0, doc.getLength()).toUpperCase();
        int txtSize = text.split(" ").length - 1;
        location = location.toUpperCase();
        LinkedList<Integer> locationIndeces = allIndeces(text, location);
        Map<Integer, Integer> map = getMap(wordIndeces, locationIndeces);
        indicesForScroll = locationIndeces;
        int locationIndex = map.get(index);

        if (size >= index) {
            highlighter.addHighlight(0, locationIndex, cloudHighlighter);
        } else if (size != 0) {
            int i = locationIndex - 2;
            int counterBefore = 0;

            while (i >= 0 && counterBefore < size) {
                if (text.charAt(i) == ' ') {
                    i--;
                    counterBefore++;
                } else
                    i--;
            }
            highlighter
                    .addHighlight(i + 2, locationIndex,
cloudHighlighter);
        }
        if (locationIndeces.indexOf(index) + size >= txtSize && size != 0) {

            highlighter.addHighlight(locationIndex + location.length(),
                    text.length(), cloudHighlighter);
        } else if (size != 0) {
            int start = locationIndex + location.length() + 1;
            int i = start;
            int counterAfter = 0;

            while (i < text.length() && counterAfter < size) {
                if (text.charAt(i) == ' ') {
                    i++;
                    counterAfter++;
```

```
                        } else
                                i++;
                        }
                        highlighter.addHighlight(start - 1, i - 1, cloudHighlighter);
                }

        } catch (BadLocationException e) {
                e.printStackTrace();
        }
}

public LinkedList<String> returnWords(JTextComponent textComp, int index,
                int size) {

        LinkedList<String> toReturn = new LinkedList<String>();
        Document doc = textComp.getDocument();
        String text = "";
        String[] wordList;
        try {
                text = doc.getText(0, doc.getLength());
                wordList = text.split("\\W+");

                // To avoid lower index out of bound
                if (index - size < 0) {
                        for (int i = 0; i < index; i++)
                                if (!wordList[i].equals(chosenLocation))
                                        toReturn.add(wordList[i]);
                }

                // If no lower index out of bound
                else {
                        for (int i = index - size; i < index; i++) {
                                if (!wordList[i].equals(chosenLocation))
                                        toReturn.add(wordList[i]);
                        }
                }

                // To avoid upper index out of bound
                if (index + size >= wordList.length) {
                        for (int i = index + 1; i < wordList.length; i++)
                                if (!wordList[i].equals(chosenLocation))
                                        toReturn.add(wordList[i]);
                }

                // If no upper index out of bound
                else {
```

```
                        for (int i = index + 1; i <= index + size; i++)
                                if (!wordList[i].equals(chosenLocation))
                                        toReturn.add(wordList[i]);
                }

        } catch (BadLocationException e) {
                e.printStackTrace();
        }
        return toReturn;
}

public String toCloud(LinkedList<String> returnedWords) {
        String toCloud = "";
        for (int i = 0; i < returnedWords.size(); i++) {
                toCloud += returnedWords.get(i) + " ";
        }
        return toCloud;
}

public static LinkedList<Integer> allIndeces(String s, String word) {
        word = word.split(" ")[0];
        LinkedList<Integer> positions = new LinkedList<Integer>();
        Pattern p = Pattern.compile(" " + word.toUpperCase());
        Pattern p1 = Pattern.compile("\n" + word.toUpperCase());
        Pattern p2 = Pattern.compile("\t" + word.toUpperCase());
        Matcher m = p.matcher(" " + s.toUpperCase());
        Matcher m1 = p1.matcher(" " + s.toUpperCase());
        Matcher m2 = p2.matcher(" " + s.toUpperCase());

        while (m.find()) {
                positions.add(m.start());
        }

        while (m1.find()) {
                positions.add(m1.start());
        }

        while (m2.find()) {
                positions.add(m2.start());
        }
        return positions;
}

public Map<Integer, Integer> getMap(LinkedList<Integer> wordIndex,
                LinkedList<Integer> occurances) {
```

```
        Map<Integer, Integer> map = new HashMap<Integer, Integer>();
        for (int i = 0; i < wordIndex.size(); i++) {
                map.put(wordIndex.get(i), occurances.get(i));
        }
        return map;
}

public void setCurrentLocation(int newLocation) {
        currentLocation = newLocation;
}

public void nextLocation(JTextComponent textComp, String location,
                int currentIndex, LinkedList<Integer> indexList) {
        try {
                Highlighter highlighter = textComp.getHighlighter();
                highlighter.removeAllHighlights();
                highlightLocation(textComp, location);
                indexList = wordIndeces;
                int index = indexList.indexOf(currentIndex);
                if (indexForScroll < indicesForScroll.size() - 1)
                        indexForScroll++;
                currentIndex = indicesForScroll.get(indexForScroll);
                if (index == indexList.size() - 1) {
                        JOptionPane.showMessageDialog(null,
                                        "No more instances of this location");
                } else {
                        index++;
                        setCurrentLocation(indexList.get(index));
                        textComp.setCaretPosition(currentIndex + 100);
                        highlightWithDistance(textComp, location, indexList.get(index),
                                        size, indexList);

                        LinkedList<String> words = returnWordsIgnoringUnintersesting(
                                        textComp, currentLocation,
                                        Integer.parseInt(cloudSizeField.getText()));

                        freq = new CountFrequencyImp(words);

                        lblMostFrequentWord
                                        .setText("Most Frequent Word: " + freq.MFW());
                }
        } catch (Exception e) {

        }

}
```

```
	public void previousLocation(JTextComponent textComp, String location,
			int currentIndex, LinkedList<Integer> indexList) {
		try {
			Highlighter highlighter = textComp.getHighlighter();
			highlighter.removeAllHighlights();
			highlightLocation(textComp, location);
			indexList = wordIndeces;
			int index = indexList.indexOf(currentIndex);
			if (indexForScroll > 0)
				indexForScroll--;
			currentIndex = indicesForScroll.get(indexForScroll);
			if (index == 0) {
				JOptionPane.showMessageDialog(null,
						"No more instances of this location");
			} else if (index < indexList.size()) {
				index--;
				setCurrentLocation(indexList.get(index));
				textComp.setCaretPosition(currentIndex);
				highlightWithDistance(textComp, location, indexList.get(index),
						Integer.parseInt(cloudSizeField.getText()),
indexList);
			} else {
				index = indexList.size() - 1;
				setCurrentLocation(indexList.get(index));
				textComp.setCaretPosition(currentIndex);
				highlightWithDistance(textComp, location, indexList.get(index),
						Integer.parseInt(cloudSizeField.getText()),
indexList);

				LinkedList<String> words = returnWordsIgnoringUnintersesting(
						textComp, currentLocation,
						Integer.parseInt(cloudSizeField.getText()));

				freq = new CountFrequencyImp(words);

				lblMostFrequentWord
						.setText("Most Frequent Word: " + freq.MFW());
			}
		} catch (Exception e) {

		}
	}

	public String generateGlobalCloud(JTextComponent textComp,
			LinkedList<Integer> indeces, int size) {
```

```
		String toGlobalCloud = "";
		for (int i = 0; i < indeces.size(); i++) {
			LinkedList<String> words = returnWords(textComp, indeces.get(i),
					size);

			LinkedList<String> partsOfSpeech = new LinkedList<String>();

			int countParts = 0;
			if (chckbxNoun.isSelected()) {
				partsOfSpeech.add("noun");
				countParts++;
			}
			if (chckbxVerb.isSelected()) {
				partsOfSpeech.add("verb");
				countParts++;

			}
			if (chckbxAdverb.isSelected()) {
				partsOfSpeech.add("adverb");
				countParts++;

			}
			if (chckbxAdjective.isSelected()) {
				partsOfSpeech.add("adjective");
				countParts++;

			}
			LinkedList<String> neededWords = new LinkedList<String>();

			if (countParts == 0) {
				LinkedList<String> fullParts = new LinkedList<String>();
				fullParts.add("verb");
				fullParts.add("noun");
				fullParts.add("adverb");
				fullParts.add("adjective");
				neededWords = pos.promptedPartsOfSpeech(words, fullParts);

			} else
				neededWords = pos.promptedPartsOfSpeech(words,
partsOfSpeech);

			toGlobalCloud += toCloud(neededWords) + " ";
		}
		return toGlobalCloud;
	}
```

```
public LinkedList<String> returnWordsIgnoringUnintersesting(
                JTextComponent textComp, int index, int size) {

        LinkedList<String> ignore = UninterstingWords.uninterstingWords();
        LinkedList<String> toReturn = new LinkedList<String>();
        Document doc = textComp.getDocument();
        String text = "";
        String[] wordList;
        try {
                text = doc.getText(0, doc.getLength());
                wordList = text.split("\\W+");

                // To avoid lower index out of bound
                if (index - size < 0) {
                        for (int i = 0; i < index; i++)
                                if (!ignore.contains(wordList[i]))
                                        toReturn.add(wordList[i]);
                }

                // If no lower index out of bound
                else {
                        for (int i = index - size; i < index; i++) {
                                if (!ignore.contains(wordList[i]))

                                        toReturn.add(wordList[i]);
                        }
                }

                // To avoid upper index out of bound
                if (index + size >= wordList.length) {
                        for (int i = index + 1; i < wordList.length; i++)
                                if (!ignore.contains(wordList[i]))
                                        toReturn.add(wordList[i]);
                }

                // If no upper index out of bound
                else {
                        for (int i = index + 1; i <= index + size; i++)
                                if (!ignore.contains(wordList[i]))
                                        toReturn.add(wordList[i]);
                }

        } catch (BadLocationException e) {
                e.printStackTrace();
        }
```

```
                return toReturn;
        }
}
```

File: topotext/src/main/java/lb/edu/aub/cmps/MyHighlighPainter.java

```
package lb.edu.aub.cmps;

import java.awt.Color;

import javax.swing.text.DefaultHighlighter.DefaultHighlightPainter;


public class MyHighlighPainter extends DefaultHighlightPainter{
        public MyHighlighPainter(Color color) {
                super(color);
        }
}
```

File: topotext/src/main/java/lb/edu/aub/cmps/Configuration.java

```
package lb.edu.aub.cmps;
import java.util.ArrayList;
import java.util.List;



public class Configuration
{
        //OVERVIEW
        //A singleton pattern designed class that stores the abbreviation of each part of speech in
array lists
        //and guarantees that there is only one instance of our configuration class
        public final  List<String> verbTags = new ArrayList<String>();
        public final  List<String> nounTags = new ArrayList<String>();
        public final  List<String> advTags = new ArrayList<String>();
        public final  List<String> adjTags = new ArrayList<String>();
        public final String noun = "noun";
        public final String verb = "verb";
        public final String adverb = "adverb";
        public final String adjective = "adjective";
        public static Configuration instance = new Configuration();



        private Configuration()
```

```
	{
		verbTags.add("VB");
		verbTags.add("VBZ");
		verbTags.add("VBD");
		verbTags.add("VBG");
		verbTags.add("VBN");
		verbTags.add("VBP");
		nounTags.add("NN");
		nounTags.add("NNP");
		nounTags.add("NNS");
		nounTags.add("NNPS");
		advTags.add("RB");
		advTags.add("RBR");
		advTags.add("RBS");
		adjTags.add("JJ");
		adjTags.add("JJR");
		adjTags.add("JJS");

	}


}
```

File: topotext/src/main/java/lb/edu/aub/cmps/XYCoordinates.java

```
package lb.edu.aub.cmps;

import lb.edu.aub.exceptions.LocationNotFoundException;

import java.util.HashSet;
import java.util.Set;


public class XYCoordinates {
	//OVERVIEW: this class consists of two methods where we take the locations names as a
set of strings
	//and we return a set of Location as objects having get country longitude and lattitude in
them
	//to be placed as locations on the map

	private Set<GoogleGeoLocation> locations;

	public XYCoordinates(Set<String> locations_names){
		locations= new HashSet<GoogleGeoLocation>();
		for(String location_name: locations_names){
```

```
                        try {
                                GoogleGeoLocation location= new
GoogleGeoLocation(location_name);
                                locations.add(location);
                        } catch (LocationNotFoundException e) {
                        }
                }
        }

        public XYCoordinates(Set<String> locations_names, String country){
                locations= new HashSet<GoogleGeoLocation>();
                for(String location_name: locations_names){
                        try {
                                GoogleGeoLocation location= new
GoogleGeoLocation(location_name);
                                if(location.getCountry().equals(country))
                                        locations.add(location);
                        } catch (LocationNotFoundException e) {
                        }
                }
        }

        public Set<GoogleGeoLocation> getLocations(){
                return locations;
        }


}
```

File: topotext/src/main/java/lb/edu/aub/cmps/DrawMapInterface.java

```
package lb.edu.aub.cmps;

import java.util.Set;

public interface DrawMapInterface {

        /*
         * requires: locations not null
         * effects: creates an html file and automatically opens the browser and shows the map
         */
        public boolean drawMap(Set<String> locations);


        /*
         * requires: locations not null, country not null
```

```
	 * effects: creates an html file and automatically opens the browser and shows the map in the specified country
	 */
	public boolean drawMapInCountry(Set<String> locations, String country);
}
```

File: topotext/src/main/java/lb/edu/aub/cmps/GenerateWordCloudInteface.java

```
package lb.edu.aub.cmps;

import java.io.File;

public interface GenerateWordCloudInteface {

	public void generateWordCloud(File f);
}
```

File: topotext/src/main/java/lb/edu/aub/cmps/WorldCountries.java

```
package lb.edu.aub.cmps;

import java.io.File;
import java.io.FileNotFoundException;
import java.util.Scanner;

public class WorldCountries {

	//OVERVIEW: this class will provide one method that returns all the countries in the world
	//by simply reading them from a file than filling them in an array

	public static String[] countries(){
		String[] countries= new String[258];
		try {
			Scanner sc= new Scanner (new File("Files/WorldCountries.txt"));
			int i=0;
			while(sc.hasNextLine()){
				countries[i]= sc.nextLine();
				i++;
			}

			sc.close();
		} catch (FileNotFoundException e) {
		}
```

```
		return countries;
	}
}
```

File: topotext/src/main/java/lb/edu/aub/cmps/PartsOfSpeechImp.java

```
package lb.edu.aub.cmps;
import java.util.HashMap;

import java.util.LinkedList;
import java.util.List;
import java.util.Map;

import edu.stanford.nlp.tagger.maxent.MaxentTagger;
//import edu.stanford.nlp.tagger.maxent.MaxentTagger;
public class PartsOfSpeechImp implements PartsOfSpeechInterface
{
		//OVERVIEW
		//This class returns the words of the specified parts of speech by the user
		public LinkedList<String> promptedPartsOfSpeech(LinkedList<String> text,
List<String> partsOfSpeech)
		{
			/*
			 * requires:A linked list of strings which are part of the selected text
			 *			A list of the prompted parts of speech from the user
			 *			Both data structures are required not be null
			 * modifies:text
			 * effects:It tags the text by its part of speech
			 * returns:A new linked list containing the Strings with parts of speech
similar to what the user prompted.
			 *		Example: text={shadia is}
			 *				partsOfSpeech=[verb]
			 *				returns: {is}
			 */
			LinkedList<String> neededWords = new LinkedList<String>();
			Map<String, String> mapWordTag = tagList(text);
			for( int i=0; i< partsOfSpeech.size(); i++ )
			{
				partsOfSpeech.set(i, partsOfSpeech.get(i).toLowerCase());
			}
			for(String word: mapWordTag.keySet())
			{
				String tag = mapWordTag.get(word).trim();
```

```
                                if(Configuration.instance.nounTags.contains(tag) &&
partsOfSpeech.contains(Configuration.instance.noun))
                                {
                                        neededWords.add(word);
                                }
                                if(Configuration.instance.verbTags.contains(tag) &&
partsOfSpeech.contains(Configuration.instance.verb))
                                {
                                        neededWords.add(word);
                                }
                                if(Configuration.instance.adjTags.contains(tag) &&
partsOfSpeech.contains(Configuration.instance.adjective))
                                {
                                        neededWords.add(word);
                                }
                                if(Configuration.instance.advTags.contains(tag) &&
partsOfSpeech.contains(Configuration.instance.adverb))
                                {
                                        neededWords.add(word);
                                }
                        }

                        return neededWords;
                }
                private Map<String, String> tagList(LinkedList<String> text)
                {
                        /*
                         * requires: A linked list of strings which are of the selected text not equal
to null
                         * modifies: text
                         * effects: It tags the text by its parts of speech and stores the words
                         * returns: a map with (word, tag)
                         */
                        MaxentTagger tagger = new MaxentTagger("Files/english-left3words-
distsim.tagger");
                        Map<String, String> mapWordTag = new HashMap<String, String>();
                        for(String word: text)
                        {
                                try{
                                mapWordTag.put(word, tagger.tagString(word).split("_")[1]);
                                }
                                catch(ArrayIndexOutOfBoundsException e){

                                }
                        }
                        return mapWordTag;
```

```
		}

}
```

File: topotext/src/main/java/lb/edu/aub/cmps/DrawMap.java

```
 package lb.edu.aub.cmps;

import java.awt.Desktop;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.PrintStream;
import java.util.Iterator;
import java.util.Scanner;
import java.util.Set;

public class DrawMap implements DrawMapInterface {
	private PrintStream html;

	/*
	 * requires: locations_names not null
	 * effects: initializes this
	 * */
	public boolean drawMap(Set<String> locations_names){

		XYCoordinates coord= new XYCoordinates(locations_names);
		Set<GoogleGeoLocation> locations=coord.getLocations();
		return createHTMLFile(locations);
	}

	/*
	 * requires: locations_names not null and country not null
	 * effects: initializes this
	 * */
	public boolean drawMapInCountry(Set<String> locations_names, String country){
		XYCoordinates coord= new XYCoordinates(locations_names, country);
		Set<GoogleGeoLocation> locations=coord.getLocations();
		return createHTMLFile(locations);
	}
	/*
	 * requires: locations not null
	 *
	 * effects: creates an html file holding a map
	 *			automatically opens the browser to show the map
	 *			along with the marker on the given locations
```

```
 **/
private boolean createHTMLFile(Set<GoogleGeoLocation> locations){
	if(locations.isEmpty()) return false;
	try {
		Scanner sc = new Scanner(new File("Files/startHtml.html"));
		String text="";
		while(sc.hasNextLine())
			text+=(sc.nextLine())+"\n";
		sc.close();
		html= new PrintStream(new File("Files/map.html"));
		html.print(text);
		printInitializationFunction(locations);

		Scanner sc2 = new Scanner(new File("Files/endHtml.html"));
		String text2="";
		while(sc2.hasNextLine())
			text2+=(sc2.nextLine())+"\n";
		sc2.close();
		html.print(text2);
		html.close();

		//creating the html file
		File htmlToOPen = new File("Files/map.html");

		//opening the browser
		Desktop.getDesktop().browse(htmlToOPen.toURI());
		return true;

	} catch (FileNotFoundException e) {
		return false;
	} catch (IOException e) {
		return false;
	}

}
/**
 * requires: locations not null
 * effects: prints the initialization function of the map
 *			on the html file to be opened later
 *			showing the markers on the given locations
 */
private boolean printInitializationFunction(Set<GoogleGeoLocation> locations){
	try{
		html.print("\tfunction initialize() {\n");
		html.print("\t\tlats= new Array(");
```

```
                        Iterator<GoogleGeoLocation> it= locations.iterator();
                        html.print(it.next().getX());
                        while(it.hasNext())
                                html.print(", "+it.next().getX());
                        html.println(");");

                        html.print("\t\tlngs= new Array(");

                        Iterator<GoogleGeoLocation> it2= locations.iterator();
                        html.print(it2.next().getY());
                        while(it2.hasNext())
                                html.print(", "+it2.next().getY());
                        html.println(");");

                        html.print("\t\tnames= new Array(");

                        Iterator<GoogleGeoLocation> it3= locations.iterator();
                        html.print("'"+it3.next().getLocation_name()+"'");
                        while(it3.hasNext())
                                html.print(", '"+it3.next().getLocation_name()+"'");
                        html.println(");");
                        return true;
                }
                catch(Exception e){
                        return false;
                }


        }



}
```

File: topotext/src/main/java/lb/edu/aub/cmps/WelcomeFrame.java

```
package lb.edu.aub.cmps;
import java.awt.EventQueue;

import javax.swing.JFrame;
import java.awt.Color;
import javax.swing.JLabel;
import java.awt.Font;
import javax.swing.JButton;
```

```
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;



public class WelcomeFrame {

	private JFrame frmWelcome;

	/**
	 * Launch the application.
	 */
	public static void main(String[] args) {
		EventQueue.invokeLater(new Runnable() {
			public void run() {
				try {
					WelcomeFrame window = new WelcomeFrame();
					window.frmWelcome.setVisible(true);
				} catch (Exception e) {
					e.printStackTrace();
				}
			}
		});
	}

	/**
	 * Create the application.
	 */
	public WelcomeFrame() {
		initialize();
	}

	/**
	 * Initialize the contents of the frame.
	 */
	private void initialize() {
		frmWelcome = new JFrame();
		frmWelcome.setFont(new Font("Adobe Caslon Pro", Font.PLAIN, 20));
		frmWelcome.setTitle("Welcome!");
		frmWelcome.getContentPane().setBackground(new Color(176, 224, 230));
		frmWelcome.getContentPane().setLayout(null);

		JLabel lblWelcomeToThe = new JLabel("Welcome to the Topotext Digital
Tool");
		lblWelcomeToThe.setForeground(new Color(51, 51, 102));
```

```
		lblWelcomeToThe.setFont(new Font("Adobe Caslon Pro Bold", Font.BOLD,
40));
		lblWelcomeToThe.setBounds(219, 176, 855, 83);
		frmWelcome.getContentPane().add(lblWelcomeToThe);

		JButton btnStartUp = new JButton("Start Up");
		btnStartUp.addActionListener(new ActionListener() {
			public void actionPerformed(ActionEvent arg0) {
				frmWelcome.setVisible(false);
				EventQueue.invokeLater(new Runnable() {
					public void run() {
						try {
							Frame frame = new Frame();
							frame.setVisible(true);
						} catch (Exception e) {
							e.printStackTrace();
						}
					}
				});
			}
		});
		btnStartUp.setForeground(new Color(51, 51, 102));
		btnStartUp.setFont(new Font("Franklin Gothic Medium Cond", Font.PLAIN,
18));
		btnStartUp.setBounds(517, 299, 150, 35);
		frmWelcome.getContentPane().add(btnStartUp);
		frmWelcome.setBounds(100, 100, 1200, 475);
		frmWelcome.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
	}
}
```

File: topotext/src/main/java/lb/edu/aub/cmps/GenerateWordCloud.java

```
package lb.edu.aub.cmps;

import java.awt.Desktop;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.PrintStream;

public class GenerateWordCloud implements GenerateWordCloudInteface
{

	public GenerateWordCloud(String toCloud)
```

```
	{
		String head= "<!DOCTYPE html> <html> <head><title>Word CLoud</title>
<meta " +
				"name=\"viewport\" content=\"initial-scale=1.0, " +
				"user-scalable=no\" /> <form action=\"http://www." +
				"wordle.net/advanced\" method=\"POST\"> <textarea" +
				" name=\"text\" style=\"display:none\">";

		String tail= "</textarea> <input type=\"submit\" value=\"Press To See Your
Amazing Word Cloud\" > </form> " +
				"</head> <body> <div id=\"map-canvas\"/> </body> </html>";

		String all= head+ toCloud + tail;

		try
		{
			File htmlToOpen = new File("Files/cloud.html");
			PrintStream out= new PrintStream(htmlToOpen);
			out.print(all);
			out.close();
		}
		catch (FileNotFoundException e)
		{
			e.printStackTrace();
		}
	}

	public void generateWordCloud(File f)
	{
		//opening the browser
		try
		{
			Desktop.getDesktop().browse(f.toURI());
		} catch (IOException e)
		{
			e.printStackTrace();
		}
	}

}
```

File: topotext/src/main/java/lb/edu/aub/cmps/GoogleGeoLocation.java

```
package lb.edu.aub.cmps;
import java.io.BufferedReader;
```

```
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.InputStreamReader;
import java.net.HttpURLConnection;
import java.net.URL;

import lb.edu.aub.exceptions.LocationNotFoundException;

import org.json.simple.JSONArray;
import org.json.simple.JSONObject;
import org.json.simple.parser.JSONParser;
import org.json.simple.parser.ParseException;


public class GoogleGeoLocation {
	//OVERVIEW Location is a geographical location that has an x-axis and y-axis coordinates and a country
	private String location_name;
	private double x;
	private double y;
	private String country;

	/*
	 * requires: loc is not null and doesn't contain spaces
	 *
	 * throws LocationNotFoundException if there were any problems in getting the coordinates or the country
	 *
	 * effects: initializes a Location with its characteristics: its x-axis and y-axis coordinates
	 *                          along with the country its is found to be in
	 * sketch of implementation: opens a URL connection to google maps
	 *                                                  parses a JSON object returned and sets the coordinates and the country
	 */
	public GoogleGeoLocation(String locationName) throws LocationNotFoundException {
		JSONParser parser = new JSONParser();

		try {
			URL url = new URL(

	"https://maps.googleapis.com/maps/api/geocode/json?address="
							+ locationName
							+ "&sensor=true&key=AIzaSyCZh4n_-9uL24erKrgxAofGycqDfiFswBE");
			HttpURLConnection connection = (HttpURLConnection) url
					.openConnection();
```

```
                connection.setRequestMethod("GET");
                connection.setDoOutput(true);
                connection.connect();

                BufferedReader reader = new BufferedReader(new InputStreamReader(
                                connection.getInputStream()));

                Object obj = parser.parse(reader);
                JSONObject jsonObject = (JSONObject) obj;

                JSONArray results = (JSONArray) jsonObject.get("results");
                JSONObject geometry = ((JSONObject) ((JSONObject) results.get(0))
                                .get("geometry"));
                JSONObject location = (JSONObject) geometry.get("location");
                this.x = ((Double) location.get("lat"));
                this.y = ((Double) location.get("lng"));

                JSONArray address_components = ((JSONArray) ((JSONObject) results
                                .get(0)).get("address_components"));
                this.country = (String) ((JSONObject) address_components
                                .get(address_components.size() - 1)).get("long_name");
                this.location_name=locationName;

        } catch (FileNotFoundException e) {
                throw new LocationNotFoundException();
        } catch (IOException e) {
                throw new LocationNotFoundException();
        } catch (ParseException e) {
                throw new LocationNotFoundException();
        }

        catch(IndexOutOfBoundsException e){
                throw new LocationNotFoundException();
        }
}

/**
 *
 * @return the x coordinate
 */
public double getX() {
        return x;
}


/**
```

```
	 *
	 * @return the y coordinate
	 */
	public double getY() {
		return y;
	}



	/**
	 *
	 * @return the coutry of this location
	 */
	public String getCountry() {
		return country;
	}

	/**
	 *
	 * @return the name of this location
	 */
	public String getLocation_name() {
		return location_name;
	}

}
```

File: topotext/src/main/java/lb/edu/aub/cmps/UninterstingWords.java

```
package lb.edu.aub.cmps;

import java.io.File;
import java.io.FileNotFoundException;
import java.util.LinkedList;
import java.util.Scanner;

public class UninterstingWords {

	public static LinkedList<String> uninterstingWords(){

		LinkedList<String> words= new LinkedList<String>();
		try {

			Scanner sc= new Scanner(new File("Files/uninterestingWords.txt"));
			while(sc.hasNextLine()){
```

```
                        words.add(sc.nextLine());

                    }
                    sc.close();
                } catch (FileNotFoundException e) {
                }

                return words;
        }
}
```

File: topotext/src/main/java/lb/edu/aub/cmps/GeoLocation.java

```
package lb.edu.aub.cmps;

public class GeoLocation {

        private String location_name;
        private double x;
        private double y;
        private String country;
        public GeoLocation(String location_name, double x, double y, String country) {
                super();
                this.location_name = location_name;
                this.x = x;
                this.y = y;
                this.country = country;
        }
        public String getLocation_name() {
                return location_name;
        }
        public void setLocation_name(String location_name) {
                this.location_name = location_name;
        }
        public double getX() {
                return x;
        }
        public void setX(double x) {
                this.x = x;
        }
        public double getY() {
                return y;
        }
        public void setY(double y) {
                this.y = y;
```

```
	}
	public String getCountry() {
		return country;
	}
	public void setCountry(String country) {
		this.country = country;
	}


}
```

File: topotext/src/main/java/lb/edu/aub/cmps/CountFrequency.java

```
package lb.edu.aub.cmps;


public interface CountFrequency

{
	public String MFW();

	public String LFW();

}
```

File: topotext/src/main/java/lb/edu/aub/cmps/PartsOfSpeechInterface.java

```
package lb.edu.aub.cmps;
import java.util.LinkedList;
import java.util.List;
public interface PartsOfSpeechInterface
{
	public LinkedList<String> promptedPartsOfSpeech(LinkedList<String>
text,List<String> partsOfSpeech);
}
```

File: topotext/src/main/java/lb/edu/aub/cmps/GeoLocationWithOptions.java

```
package lb.edu.aub.cmps;

import java.util.LinkedList;
```

```
public class GeoLocationWithOptions {

	private String location_name;
	private LinkedList<GeoLocation> geoLocations;

	public GeoLocationWithOptions(String name) {
		this.location_name = name;
		this.geoLocations = new LinkedList<GeoLocation>();
	}

	public String getLocation_name() {
		return location_name;
	}

	public void setLocation_name(String location_name) {
		this.location_name = location_name;
	}

	public LinkedList<GeoLocation> getGeoLocations() {
		return geoLocations;
	}

	public void setGeoLocations(LinkedList<GeoLocation> geoLocations) {
		this.geoLocations = geoLocations;
	}

	public void add(String name, double x, double y, String coutry){
		this.geoLocations.add(new GeoLocation(name, x, y, coutry));
	}
}
```

File: topotext/src/main/java/lb/edu/aub/cmps/HighlighterInterface.java

```
package lb.edu.aub.cmps;

import java.util.LinkedList;

import javax.swing.text.JTextComponent;

public interface HighlighterInterface {

	//Highlights a single location throughout the text
	public void highlightLocation(JTextComponent textComp, String location);

	//Highlights the distance specified around a certain location
```

```
        public void highlightWithDistance(JTextComponent textComp, String location, int index,
        int size, LinkedList<Integer> wordIndeces);

        //Returns the array of strings in the selected part
        public LinkedList<String> returnWords(JTextComponent textComp, int index, int size);

        //Move to the next location
        public void nextLocation(JTextComponent textComp, String location, int currentIndex,
                        LinkedList<Integer> indexList, int size);

        //Move to the previous location
        public void previousLocation(JTextComponent textComp, String location, int
currentIndex,
                        LinkedList<Integer> indexList, int size);


}
```

File: topotext/src/main/java/lb/edu/aub/cmps/CountFrequencyImp.java

```
package lb.edu.aub.cmps;

import java.text.Collator;
import java.util.Arrays;
import java.util.Collections;
import java.util.Comparator;
import java.util.HashSet;
import java.util.LinkedList;
import java.util.Set;

public class CountFrequencyImp implements CountFrequency {
        // OVERVIEW: This class provides a nb of procedures to generate a cloud of
        // words and
        // methods to return the most and least frequent word in the paragraph
        // provided

        private LinkedList<String> list;
        String[] result;
        private int[] nb = new int[100000];

        /**
         * requires a linked list of strings
         * modifies assigns the linked list
         * provided to list effects assigns the number of occurrences of each word
         * to it
```

```
 */
public CountFrequencyImp(LinkedList<String> words)
		throws NullPointerException {
	// TODO Auto-generated method stub
	this.list = words;
	Collections.sort(list, new Comparator<String>() {
		public int compare(String o1, String o2) {
			return Collator.getInstance().compare(o1, o2);
		}
	});

	String temp = list.getFirst();
	int k = 0;

	for (String s : list) {
		if (s.equals(temp)) {
			nb[k]++;
		} else {
			temp = s;
			k++;
			nb[k]++;
		}
	}

	Set<String> set = new HashSet<String>(list);
	result = new String[set.size()];
	set.toArray(result);
	Arrays.sort(result, String.CASE_INSENSITIVE_ORDER);
}

/**
 * returns a string representing the most frequent word
 */
public String MFW() {

	int max = 0;
	int index = 0;
	for (int i = 0; i < nb.length; i++) {
		if (max < nb[i]) {
			max = nb[i];
			index = i;
		}
	}
	return result[index];

}
```

```
	/**
	 * returns a string representing the least frequent word
	 */
	public String LFW() {
		// TODO Auto-generated method stub
		int min = 100;
		int index = 0;

		for (int i = 0; i < nb.length; i++) {
			if (min > nb[i] && nb[i] > 0) {
				min = nb[i];
				index = i;
			}
		}
		return result[index];
	}

	public static void main(String[] args){
		LinkedList<String> words = new LinkedList<String>();
		words.add("me");
		words.add("me");
		words.add("me");
		words.add("me");
		words.add("me");
		words.add("me");
		words.add("me");
		words.add("it");
		words.add("mow");
		words.add("mdflkhje");
		CountFrequencyImp n= new CountFrequencyImp(words);
		System.out.println(n.LFW());

	}
}
```

File: topotext/src/main/java/lb/edu/aub/cmps/JSONLocation.java

```
package lb.edu.aub.cmps;

public class JSONLocation {

	private String location_name;
	private String global_annotation;
	private String[] local_annotations;
```

```
	private GoogleGeoLocation[] geoLocations;
	private int weight;

	public JSONLocation(String location_name, String global_nnotation,
			String[] local_annotations, GoogleGeoLocation[] geoLocations, int
weight) {
		super();
		this.location_name = location_name;
		this.global_annotation = global_nnotation;
		this.local_annotations = local_annotations;
		this.geoLocations = geoLocations;
		this.weight = weight;
	}

	public String getLocation_name() {
		return location_name;
	}

	public void setLocation_name(String location_name) {
		this.location_name = location_name;
	}

	public String getGlobal_nnotation() {
		return global_annotation;
	}

	public void setGlobal_nnotation(String global_nnotation) {
		this.global_annotation = global_nnotation;
	}

	public String[] getLocal_annotations() {
		return local_annotations;
	}

	public void setLocal_annotations(String[] local_annotations) {
		this.local_annotations = local_annotations;
	}

	public GoogleGeoLocation[] getGeoLocations() {
		return geoLocations;
	}

	public void setGeoLocations(GoogleGeoLocation[] geoLocations) {
		this.geoLocations = geoLocations;
	}
```

```
	public int getWeight() {
		return weight;
	}

	public void setWeight(int weight) {
		this.weight = weight;
	}

}
```

File:
topotext/src/main/java/lb/edu/aub/cmps/Geotagging/GenerateGeoCoordinatesGeoNames.java

```
package lb.edu.aub.cmps.Geotagging;

import java.util.HashSet;
import java.util.LinkedList;
import java.util.List;
import java.util.Set;

import lb.edu.aub.cmps.GeoLocationWithOptions;

import org.geonames.Toponym;
import org.geonames.ToponymSearchCriteria;
import org.geonames.ToponymSearchResult;
import org.geonames.WebService;

public class GenerateGeoCoordinatesGeoNames implements GenerateGeoCoordinates {

	public GeoLocationWithOptions[] generateGeoLocations(String[] locations_name) {
		WebService.setUserName("julia94"); // add your username here
		ToponymSearchCriteria searchCriteria = new ToponymSearchCriteria();

		List<GeoLocationWithOptions> geo_locations = new
LinkedList<GeoLocationWithOptions>();


		for(String location_name: locations_name){
			searchCriteria.setQ(location_name);
			GeoLocationWithOptions geo_location = new
GeoLocationWithOptions(location_name);
			Set<String> countries = new HashSet<String>();
			ToponymSearchResult searchResult;
			try {
				searchResult = WebService.search(searchCriteria);
```

```
                                for (Toponym toponym : searchResult.getToponyms()) {

        if(!countries.contains(toponym.getCountryName().toLowerCase())){

        countries.add(toponym.getCountryName().toLowerCase());
                                                geo_location.add(location_name,
toponym.getLatitude(), toponym.getLongitude(), toponym.getCountryName());
                                        }

                                }
                                geo_locations.add(geo_location);
                        } catch (Exception e) {
                                // TODO Auto-generated catch block
                                geo_locations.add(null);
                        }
                }
                return (GeoLocationWithOptions[]) geo_locations.toArray();
        }
}
```

File: topotext/src/main/java/lb/edu/aub/cmps/Geotagging/GenerateGeoCoordinates.java

```
package lb.edu.aub.cmps.Geotagging;

import lb.edu.aub.cmps.GeoLocationWithOptions;

public interface GenerateGeoCoordinates {

        public GeoLocationWithOptions[] generateGeoLocations(String[] location_name);
}
```

Appendix B: TopoText 2.0

El Khatib, Randa, Julia El Zini, David Joseph Wrisley, Mohamad Jaber, and Shady Elbassuoni. 2016. TopoText 2.0. American University of Beirut and University of Victoria. https://github.com/rkhatib/topotext/tree/v2.

Lines of code: 335195.

Link to prototype: https://github.com/rkhatib/topotext/tree/v2.

TopoText 2.0, the second iteration of TopoText, is a prototype that performs "text to map" conversion; users can simply upload a plain text and visualize it as a map, as well as collocate places and words in order to trace most frequent topics around specific places across texts. TopoText generates a comma-separated values (CSV) file of the geographic entities included in each text matched with lat-long coordinates, which can then be exported, allowing reusability in other environments (figure 20). It also allows users to correct mismatched geographical points through the "human-in-the-loop" approach where the user can access the generated dataset and select alternative locations with the same place name.

	A	B	C	D	E	F	G	H	I	J	K
76	Mannheim	Germany	49.4891	8.46694	1						
77	Mannheim	Canada	43.39812	-80.54538	1						
78	Mannheim	United Stat	41.94503	-87.88506	1						
79	Wakefield	United King	53.68331	-1.49768	1						
80	Wakefield	Jamaica	18.4146	-77.70908	1						
81	Wakefield	Australia	-34.00743	138.39455	1						
82	Wakefield	New Zealan	-41.4	173.05	1						
83	Wakefield	United Stat	42.50648	-71.07283	1						
84	Wakefield	Canada	45.63839	-75.93051	1						
85	Wakefield	Barbados	13.17669	-59.52371	1						
86	Windsor	Canada	42.30008	-83.01654	2						
87	Windsor	United King	51.48333	-0.6	2						
88	Windsor	Jamaica	18.10673	-76.44631	2						
89	Windsor	United Stat	43.58	-72.58624	2						
90	Windsor	U.S. Virgin I	17.75858	-64.77376	2						
91	Windsor	Australia	-27.43631	153.02882	2						
92	Windsor	Trinidad an	11.28333	-60.55	2						
93	Windsor	Bolivia	-12.68333	-64.45	2						
94	Scotland	United King	56	-4	5						
95	Scotland	United Stat	40.4526	-92.14705	5						
96	Scotland	Guyana	6.19262	-57.58637	5						

Figure 20 TopoText 2.0 dataset that illustrates the list of locations that correspond to a place name and the weight of a place

Users can also annotate geographical points and visualize these annotations on the map interface.

In this sense, TopoText 2.0 is both a mapping tool and an open geodata provider (figure 21).

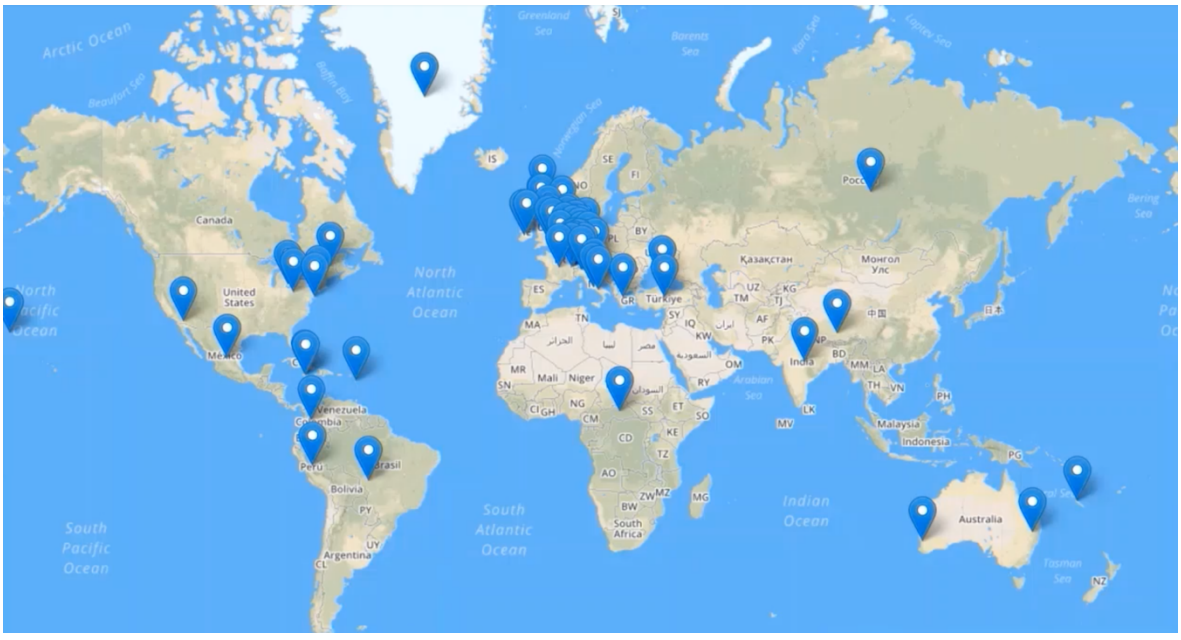

Figure 21 TopoText 2.0 map built using Leaflet.js library

Codebase:

File: topotext.v2/src/main/java/lb/edu/aub/exceptions/LocationNotFoundException.java

```
package lb.edu.aub.exceptions;

public class LocationNotFoundException extends Exception{


	/**
	 *
	 */
	private static final long serialVersionUID = 1L;

	public LocationNotFoundException(){
		super();
	}

	public LocationNotFoundException(String msg){
		super(msg);
	}

}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/maps/LeafletMap.java

```
package lb.edu.aub.cmps.maps;

import java.io.File;
import java.io.FileNotFoundException;
import java.io.PrintStream;
import java.util.List;

import lb.edu.aub.cmps.GeoLocation;

public class LeafletMap implements GenerateMap{

	public void generateMap(String path, List<GeoLocation> locs, String title) throws
FileNotFoundException {
		PrintStream out = new PrintStream(new File(path));

		//head
		//head
				String head = "<!DOCTYPE html>\n"+
		"<html>\n"+
```

```
                "<head>\n"+

                        "<title>Your map</title>\n"+

                        "<meta charset=\"utf-8\" />\n"+
                        "<meta name=\"viewport\" content=\"width=device-width, initial-
scale=1.0\">\n"+

                        "<link rel=\"shortcut icon\" type=\"image/x-icon\"
href=\"docs/images/favicon.ico\" />"+

                        "<link rel=\"stylesheet\"
href=\"https://unpkg.com/leaflet@1.0.3/dist/leaflet.css\" />\n"+
                        "<script
src=\"https://unpkg.com/leaflet@1.0.3/dist/leaflet.js\"></script>\n"+



                "</head>\n"+
                "<body>\n"+



"<div id=\"mapid\" style=\"width: 100%; height:100%; position: fixed;top: 0;left: 0; height:
100%;\"></div>"+
                "<script>\n"+

                        "var map = L.map('mapid').setView([51.505, -0.09], 2);\n"+


        "L.tileLayer('https://api.tiles.mapbox.com/v4/{id}/{z}/{x}/{y}.png?access_token=pk.eyJ
1IjoibWFwYm94IiwiYSI6ImNpejY4NXVycTA2emYycXBndHRqcmZ3N3gifQ.rJcFIG214AriI
SLbB6B5aw', {\n"+
                                "maxZoom: 18,\n"+
                                "attribution: 'Map data &copy; <a
href=\"http://openstreetmap.org\">OpenStreetMap</a> contributors, ' +\n"+
                                        "'<a href=\"http://creativecommons.org/licenses/by-
sa/2.0/\">CC-BY-SA</a>, ' +\n"+
                                        "'Imagery  <a
href=\"http://mapbox.com\">Mapbox</a>',\n"+
                                "id: 'mapbox.streets'\n"+
                        "}).addTo(map);\n";
                out.print(head);
                for(GeoLocation loc: locs){
                        double x = loc.getX();
                        double y = loc.getY();
```

```
                        String anno = ": " +loc.getAnnotation();
                        if (loc.getAnnotation() == null) anno = "";
                        anno = loc.getLocation_name() +anno;
                        //if(anno != null && anno.length()!=0)
                                out.print("\nL.marker(["+x+",
"+y+"]).addTo(map).bindPopup(\""+anno+"\").openPopup();");

                }
                String tail = "\n</script>\n</body>\n</html>";
                out.print(tail);
                out.flush();
                out.close();

        }

        public void generateMapWithWeights(String path, List<GeoLocation> locs, String title)
throws FileNotFoundException {
                PrintStream out = new PrintStream(new File(path));
                //head
                String head = "<!DOCTYPE html>\n"+
                                "<html>\n"+
                                "<head>\n"+

                                        "<title>Your map</title>\n"+

                                        "<meta charset=\"utf-8\" />\n"+
                                        "<meta name=\"viewport\" content=\"width=device-width,
initial-scale=1.0\">\n"+

                                        "<link rel=\"shortcut icon\" type=\"image/x-icon\"
href=\"docs/images/favicon.ico\" />"+

                                        "<link rel=\"stylesheet\"
href=\"https://unpkg.com/leaflet@1.0.3/dist/leaflet.css\" />\n"+
                                        "<script
src=\"https://unpkg.com/leaflet@1.0.3/dist/leaflet.js\"></script>\n"+



                                "</head>\n"+
                                "<body>\n"+



                "<div id=\"mapid\" style=\"width: 100%; height:100%; position: fixed;top: 0;left:
0; height: 100%;\"></div>"+
```

```
                    "<script>\n"+

                            "var map = L.map('mapid').setView([51.505, -0.09],
2);\n"+


        "L.tileLayer('https://api.tiles.mapbox.com/v4/{id}/{z}/{x}/{y}.png?access_token=pk.eyJ
1IjoibWFwYm94IiwiYSI6ImNpejY4NXVycTA2emYycXBndHRqcmZ3N3gifQ.rJcFIG214AriI
SLbB6B5aw', {\n"+
                                    "maxZoom: 18,\n"+
                                    "attribution: 'Map data &copy; <a
href=\"http://openstreetmap.org\">OpenStreetMap</a> contributors, ' +\n"+
                                            "'<a
href=\"http://creativecommons.org/licenses/by-sa/2.0/\">CC-BY-SA</a>, ' +\n"+
                                            "'Imagery  <a
href=\"http://mapbox.com\">Mapbox</a>',\n"+
                                    "id: 'mapbox.streets'\n"+
                                "}).addTo(map);\n";
            out.print(head);
            //int max = getMaxWeight(locs);
            for(GeoLocation loc: locs){
                double x = loc.getX();
                double y = loc.getY();
                double w = loc.getWeight();
                /*
                //FIXME here
                double ratio = Math.sqrt(w) *1.0/ Math.sqrt(max);
                System.out.println(ratio+"----------");
                double radius = (ratio * ratio)* 1500000;*/
                double radius = (w *4000 > 700000)? 700000: w*4000;

                System.out.println(radius);
                String s = (w ==1)? "": "s";

                String anno = ": " +loc.getAnnotation();
                if (loc.getAnnotation() == null) anno = "";
                anno = loc.getLocation_name() +anno;

                anno = anno+" ("+(int)w+" time"+s+").";
                out.print("\nL.circle(["+x+", "+y+"], " +(radius)+", { color: \'blue\',
fillColor : \'#30f\', fillOpacity: 0.3}).addTo(map).bindPopup(\""+anno+"\").openPopup();");
            }
            String tail = "\n</script>\n</body>\n</html>";
            out.print(tail);
            out.flush();
            out.close();
```

```
	}


	public int getMaxWeight(List<GeoLocation> locs){
		if(locs.size() == 0) return 1;
		int max = locs.get(0).getWeight();
		for(int i = 1; i < locs.size(); i++){
			if(locs.get(i).getWeight() > max) max= locs.get(i).getWeight();
		}
		return max;
	}


}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/maps/GenerateMap.java

```
package lb.edu.aub.cmps.maps;

import java.io.FileNotFoundException;
import java.util.List;

import lb.edu.aub.cmps.GeoLocation;

public interface GenerateMap {

	public void generateMap(String path, List<GeoLocation> locs, String title) throws
FileNotFoundException;
	public void generateMapWithWeights(String path, List<GeoLocation> locs, String title)
throws FileNotFoundException;
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/ReadNovelImp.java

```
package lb.edu.aub.cmps;

import java.io.File;
import java.io.FileNotFoundException;
import java.util.HashMap;
import java.util.LinkedList;
import java.util.List;
import java.util.Scanner;
import java.util.Set;
```

```
import java.util.TreeSet;

import edu.stanford.nlp.ie.AbstractSequenceClassifier;
import edu.stanford.nlp.ie.crf.CRFClassifier;
import edu.stanford.nlp.ling.CoreAnnotations;
import edu.stanford.nlp.ling.CoreLabel;

public class ReadNovelImp implements ReadNovelInterface {
	private Set<String> locations;
	private String filePath;
	private HashMap<String, LinkedList<Integer>> locationIndices;

	/*
	 * returns: locations: HashMap of keyset locations and values list of
	 * indices.
	 */

	public ReadNovelImp(String fileName) {
		this.filePath = fileName;
		try {
			setLocations();
		} catch (FileNotFoundException e) {
			e.printStackTrace();
		}
	}

	public HashMap<String, LinkedList<Integer>> getLocationsWithIndeces() {
		String text;
		locationIndices = new HashMap<String, LinkedList<Integer>>();
		try {
			text = getText(filePath);
			String[] words = text.split("\\W+");

			for (String l : locations) {
				LinkedList<Integer> indecesInArray = new
LinkedList<Integer>();
				if(l.split(" ").length==1){
					for (int i = 0; i < words.length; i++) {
						if (words[i].equalsIgnoreCase(l)) {
							indecesInArray.add(i);
						}
					}
				}
				else{

					for (int i = 0; i < words.length; i++) {
```

```
                                        if (words[i].equalsIgnoreCase(l.split(" ")[0]) &&
words[i+1].equalsIgnoreCase(l.split(" ")[1])) {
                                                indecesInArray.add(i);
                                                i++;
                                        }
                                }
                        }
                        locationIndices.put(l, indecesInArray);
                }
        } catch (FileNotFoundException e) {
                // TODO Auto-generated catch block
                e.printStackTrace();
        }

        return locationIndices;

}


/*
 * requires: fileName not null effects: fills a map with the location in the
 * string with their indices
 */
private void setLocations() throws FileNotFoundException {
        // Getting the classifier.
        AbstractSequenceClassifier<CoreLabel> classifier = getClassifier();
        // Creating a hashmap to contain the locations with the indices in which
        // they occur.
        locations = new TreeSet<String>();
        // Getting the text in the fileName as a string.
        String novel = getText(filePath);
        List<List<CoreLabel>> out = classifier.classify(novel);
        // Looping over all the words to find the locations, while keeping track
        // of their indices.
        for (List<CoreLabel> sentence : out) {
                LinkedList<CoreLabel> words = new LinkedList<CoreLabel>();
                for (CoreLabel word : sentence) {
                        words.add(word);
                }
                for (int i = 0; i < words.size()-1; i++) {
                        CoreLabel word = words.get(i);
                        CoreLabel nextWord = words.get(i + 1);
                        String geoLoc = word.word();
                        if
(word.get(CoreAnnotations.AnswerAnnotation.class).equals("LOCATION"))
```

```
                                {
                                        if
(nextWord.get(CoreAnnotations.AnswerAnnotation.class).equals("LOCATION"))
                                        {
                                                int j = i + 1;
                                                while (j < i + 5 && j< words.size()-1)
                                                {
                                                        if
(words.get(j).get(CoreAnnotations.AnswerAnnotation.class).equals("LOCATION"))
                                                        {
                                                                geoLoc += " " + words.get(j).word();
                                                        }
                                                        j++;
                                                }
                                                locations.add(geoLoc);
                                                i=j;
                                        }
                                        locations.add(geoLoc);
                                }
                        }
                }
        }

        /*
         * Private method to get the classifier.
         */
        private static AbstractSequenceClassifier<CoreLabel> getClassifier() {
                String serializedClassifier = "Files/english.all.3class.distsim.crf.ser.gz";
                AbstractSequenceClassifier<CoreLabel> classifier = CRFClassifier
                                .getClassifierNoExceptions(serializedClassifier);
                return classifier;
        }

        /*
         * Private method to get the text of the specified file name and return it
         * as a string.
         */
        private static String getText(String fileName) throws FileNotFoundException {
                Scanner input = new Scanner(new File(fileName));
                String s = "";
                while (input.hasNextLine()) {
                        s += input.nextLine() + " ";
                }
                input.close();
                return s;
        }
```

```
	public Set<String> getLocations() {
		return locations;
	}

	public HashMap<String, Integer> getLocationsWithWeights(){
		HashMap<String, Integer> map = new HashMap<String, Integer>();
		getLocationsWithIndeces();
		for(String loc : this.locationIndices.keySet()){
			map.put(loc, this.locationIndices.get(loc).size());
		}
		return map;
	}
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/ReadNovelInterface.java

```
package lb.edu.aub.cmps;

import java.util.HashMap;
import java.util.LinkedList;
import java.util.Set;

public interface ReadNovelInterface {

	/*
	 * returns: locations: HashMap of keyset locations and values list of indices.
	 */
	public HashMap<String, LinkedList<Integer>> getLocationsWithIndeces();

	/*
	 * returns: locations: HashMap of keyset locations and values list of indices.
	 */
	public Set<String> getLocations();

	public HashMap<String, Integer> getLocationsWithWeights();
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/HighlighterImplementation.java

```
package lb.edu.aub.cmps;

import java.awt.Color;
import java.util.HashMap;
import java.util.LinkedList;
```

```
import java.util.Map;
import java.util.regex.Matcher;
import java.util.regex.Pattern;

import javax.swing.JOptionPane;
import javax.swing.text.BadLocationException;
import javax.swing.text.Document;
import javax.swing.text.Highlighter;
import javax.swing.text.JTextComponent;



public class HighlighterImplementation implements HighlighterInterface{
	int currentLocation=0;


	public void highlightLocation(JTextComponent textComp, String location) {
		//Highlights a single location throughout the text
		Highlighter.HighlightPainter locationHighlighter= new
MyHighlighPainter(Color.cyan);

			try{
				Highlighter highlighter= textComp.getHighlighter();
				highlighter.removeAllHighlights();
				Document doc = textComp.getDocument();
				String text = doc.getText(0, doc.getLength()).toUpperCase();
				int size= location.length();
				LinkedList<Integer> indeces= allIndeces(text, location.toUpperCase());
				for(int i=0; i<indeces.size(); i++){
					int index=indeces.get(i);
					highlighter.addHighlight(index, index+size, locationHighlighter);
				}
			}
			catch(Exception e){
				e.printStackTrace();
			}
	}

			public void highlightWithDistance(JTextComponent textComp, String location,
int index,
				int size, LinkedList<Integer> wordIndeces ) {
			Highlighter.HighlightPainter cloudHighlighter= new MyHighlighPainter(new
Color(211, 211, 211));
			Highlighter highlighter= textComp.getHighlighter();
			Document doc = textComp.getDocument();
			String text;
```

```
try {
        text = doc.getText(0, doc.getLength()).toUpperCase();
        int txtSize= text.split(" ").length-1;
        location= location.toUpperCase();
        LinkedList<Integer> locationIndeces= allIndeces(text, location);
        Map<Integer, Integer> map= getMap(wordIndeces, locationIndeces);
        int locationIndex= map.get(index);

        if(size>=index){
                highlighter.addHighlight(0, locationIndex, cloudHighlighter);
        }
        else if(size!=0){
                int i= locationIndex-2;
                int counterBefore=0;


                while(i>=0 && counterBefore<size){
                        if(text.charAt(i)==' '){
                                i--;
                                counterBefore++;
                        }
                        else
                                i--;
                }
                highlighter.addHighlight(i+2, locationIndex, cloudHighlighter);
        }
        if(locationIndeces.indexOf(index)+size>=txtSize && size!=0){

                highlighter.addHighlight(locationIndex+location.length(),
text.length(), cloudHighlighter);
        }
        else if(size!=0){
                int start= locationIndex+location.length()+1;
                int i= start;
                int counterAfter=0;


                while(i<text.length() && counterAfter<size){
                        if(text.charAt(i)==' '){
                                i++;
                                counterAfter++;
                        }
                        else
                                i++;
                }
                highlighter.addHighlight(start-1, i-1, cloudHighlighter);
```

```
                }

        } catch (BadLocationException e) {
                e.printStackTrace();
        }
}


public LinkedList<String> returnWords(JTextComponent textComp, int index,
                int size) {
        LinkedList<String> toReturn = new LinkedList<String>();
        Document doc = textComp.getDocument();
        String text="";
        String[] wordList;
        //LinkedList<String> returnList = new LinkedList<String>();
        try {
                text = doc.getText(0, doc.getLength());
                wordList= text.split(" ");

                //To avoid lower index out of bound
                if(index-size<0){
                        for(int i=0; i<index; i++)
                                toReturn.add(wordList[i]);
                }

                //If no lower index out of bound
                else{
                        for(int i= index-size; i<index; i++){
                                toReturn.add(wordList[i]);
                        }
                }

                //To avoid upper index out of bound
                if(index+size>=wordList.length){
                        for(int i= index+1; i<wordList.length; i++)
                                toReturn.add(wordList[i]);
                }

                //If no upper index out of bound
                else{
                        for(int i= index+1; i<=index+size; i++)
                                toReturn.add(wordList[i]);
                }

        } catch (BadLocationException e) {
                e.printStackTrace();
```

```
                }
                return toReturn;
        }

//////////////////////
        public void nextLocation(JTextComponent textComp, String location, int currentIndex,
                        LinkedList<Integer> indexList, int size) {
                Highlighter highlighter= textComp.getHighlighter();
                highlighter.removeAllHighlights();
                highlightLocation(textComp, location);
                int index= indexList.indexOf(currentIndex);

                if(index== indexList.size()-1){
                        JOptionPane.showMessageDialog(null, "No more instances of this
location");
                }
                else{
                        index++;
                        setCurrentLocation(indexList.get(index));
                        highlightWithDistance(textComp, location, indexList.get(index), size,
indexList);
                }

        }

//////////////////
        public void previousLocation(JTextComponent textComp, String location, int
currentIndex,
                        LinkedList<Integer> indexList, int size) {
                Highlighter highlighter= textComp.getHighlighter();
                highlighter.removeAllHighlights();
                highlightLocation(textComp, location);
                int index= indexList.indexOf(currentIndex);

                if(index== 0){
                        JOptionPane.showMessageDialog(null, "No more instances of this
location");
                }
                else if(index< indexList.size()){
                        index--;
                        setCurrentLocation(indexList.get(index));
                        //posLabel.setText(""+index);
                        highlightWithDistance(textComp, location, indexList.get(index), size,
indexList);
                }
                else{
```

```
                    index= indexList.size()-1;
                    setCurrentLocation(indexList.get(index));
                //  posLabel.setText(""+index);
                    highlightWithDistance(textComp, location, indexList.get(index), size,
indexList);
                }
        }
//////////////////////
        public static LinkedList<Integer> allIndeces(String s, String word){
                LinkedList<Integer> positions = new LinkedList<Integer>();
                Pattern p = Pattern.compile(" "+word.toUpperCase());
                Pattern p1 = Pattern.compile("\n"+word.toUpperCase());
                Pattern p2 = Pattern.compile("\t"+word.toUpperCase());
                Matcher m = p.matcher(" "+s.toUpperCase());
                Matcher m1 = p1.matcher(" "+s.toUpperCase());
                Matcher m2 = p2.matcher(" "+s.toUpperCase());

                while (m.find()) {
                  positions.add(m.start());
                }

                while (m1.find()) {
                        positions.add(m1.start());
                }

                while (m2.find()) {
                        positions.add(m2.start());
                }
                return positions;
        }
        ////////////////////
        public Map<Integer, Integer> getMap(LinkedList<Integer> wordIndex,
LinkedList<Integer> occurances){
                System.out.println("word index "+wordIndex+"\noccurances "+occurances);
                Map<Integer, Integer> map= new HashMap<Integer, Integer>();
                for(int i=0; i<wordIndex.size(); i++){

                        map.put(wordIndex.get(i), occurances.get(i));
                }
                return map;
        }


        public void setCurrentLocation(int newLocation){
                currentLocation= newLocation;
        }
```

```
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/GenerateJSON.java

```
package lb.edu.aub.cmps;

import java.io.File;
import java.io.FileNotFoundException;
import java.io.PrintStream;
import java.util.List;

import org.json.simple.JSONObject;

public class GenerateJSON {

	@SuppressWarnings("unchecked")
	public static void generateJSON(List<JSONLocation> locations) {
		try {
			PrintStream json_file = new PrintStream(new File("Files\\out.json"));

			JSONObject json = new JSONObject();
			for (JSONLocation location : locations) {
				// name
				json.put("Location Name", location.getLocation_name());
				// geolocations
				JSONObject geo_locations_json = new JSONObject();
				int i = 0;
				for (GoogleGeoLocation geo_location :
location.getGeoLocations()) {
					geo_locations_json.put("x", geo_location.getX());
					geo_locations_json.put("y", geo_location.getY());
					geo_locations_json
							.put("country", geo_location.getCountry());
					geo_locations_json.put("local annotation",
							location.getLocal_annotations()[i]);
					i++;

				}
				json.put("Geo Locations", geo_locations_json);
				// annotation global
				json.put("Annotation", location.getGlobal_nnotation());
```

```
                                // weight
                                json.put("Weight", location.getWeight());
                                json_file.print(json);
                                json_file.close();
                        }
                } catch (FileNotFoundException e) {
                        e.printStackTrace();
                }

        }
}
```

File:
topotext.v2/src/main/java/lb/edu/aub/cmps/Geotagging/GenerateGeoCoordinatesGeoNames.java

```
package lb.edu.aub.cmps.Geotagging;

import java.util.HashMap;
import java.util.HashSet;
import java.util.LinkedList;
import java.util.List;
import java.util.Set;

import lb.edu.aub.cmps.GeoLocationWithOptions;

import org.geonames.Toponym;
import org.geonames.ToponymSearchCriteria;
import org.geonames.ToponymSearchResult;
import org.geonames.WebService;

//OVERVIEW: this class will generate an array of GeoLocationWithOptions from an array of
location_name
public class GenerateGeoCoordinatesGeoNames implements GenerateGeoCoordinates {

        public GeoLocationWithOptions[] generateGeoLocations(HashMap<String, Integer>
name_weight_map) {
                WebService.setUserName("julia94"); // add your username here
                ToponymSearchCriteria searchCriteria = new ToponymSearchCriteria();

                List<GeoLocationWithOptions> geo_locations = new
LinkedList<GeoLocationWithOptions>();


                for(String location_name: name_weight_map.keySet()){
```

```
                searchCriteria.setQ(location_name);
                GeoLocationWithOptions geo_location = new
GeoLocationWithOptions(location_name);
                geo_location.setWeight(name_weight_map.get(location_name));
                Set<String> countries = new HashSet<String>();
                ToponymSearchResult searchResult;
                try {
                        searchResult = WebService.search(searchCriteria);
                        for (Toponym toponym : searchResult.getToponyms()) {

                                if(toponym != null && toponym.getCountryName()!= null
&& !countries.contains(toponym.getCountryName().toLowerCase()) &&
toponym.getName().equals(location_name)){


        countries.add(toponym.getCountryName().toLowerCase());
                                                geo_location.add(location_name,
toponym.getLatitude(), toponym.getLongitude(), toponym.getCountryName(),
"",name_weight_map.get(location_name));

                                }

                        }
                        geo_locations.add(geo_location);
                } catch (Exception e) {
                        e.printStackTrace();
                        geo_locations.add(null);
                }
        }
        GeoLocationWithOptions[] geo_locations_array = new
GeoLocationWithOptions[geo_locations.size()];
        int i = 0;
        for(GeoLocationWithOptions loc: geo_locations){
                geo_locations_array[i] = loc; i++;
        }
        return geo_locations_array;
    }

    public static GeoLocationWithOptions[] generateGeoLocationss(HashMap<String,
Integer> name_weight_map) {
        WebService.setUserName("julia94"); // add your username here
        ToponymSearchCriteria searchCriteria = new ToponymSearchCriteria();

        List<GeoLocationWithOptions> geo_locations = new
LinkedList<GeoLocationWithOptions>();
```

```
		for(String location_name: name_weight_map.keySet()){

			searchCriteria.setQ(location_name);
			GeoLocationWithOptions geo_location = new
GeoLocationWithOptions(location_name);
			geo_location.setWeight(name_weight_map.get(location_name));
			LinkedList<String> countries = new LinkedList<String>();
			ToponymSearchResult searchResult;
			try {
				searchResult = WebService.search(searchCriteria);
				for (Toponym toponym : searchResult.getToponyms()) {
					if(toponym != null && toponym.getCountryName()!= null
&& !countries.contains(toponym.getCountryName().toLowerCase())){

	countries.add(toponym.getCountryName().toLowerCase());
							geo_location.add(location_name,
toponym.getLatitude(), toponym.getLongitude(), toponym.getCountryName(),
"",name_weight_map.get(location_name));
						}

				}
				geo_locations.add(geo_location);
			} catch (Exception e) {
				e.printStackTrace();
				geo_locations.add(null);
			}
		}
		GeoLocationWithOptions[] geo_locations_array = new
GeoLocationWithOptions[geo_locations.size()];
		int i = 0;
		for(GeoLocationWithOptions loc: geo_locations){
			geo_locations_array[i] = loc; i++;
		}
		return geo_locations_array;
	}
	public static void main(String[] args) {

	}
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/Geotagging/GenerateGeoCoordinates.java

```
package lb.edu.aub.cmps.Geotagging;
```

```
import java.util.HashMap;

import lb.edu.aub.cmps.GeoLocationWithOptions;

public interface GenerateGeoCoordinates {

	public GeoLocationWithOptions[] generateGeoLocations(HashMap<String, Integer>
name_weight_map);
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/Frame.java

```
package lb.edu.aub.cmps;

import java.awt.Color;
import java.awt.Desktop;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.HashMap;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import java.util.Scanner;
import java.util.Set;
import java.util.regex.Matcher;
import java.util.regex.Pattern;

import javax.swing.DefaultComboBoxModel;
import javax.swing.JButton;
import javax.swing.JCheckBox;
import javax.swing.JComboBox;
import javax.swing.JFileChooser;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.JTextArea;
import javax.swing.JTextField;
import javax.swing.border.EmptyBorder;
import javax.swing.border.TitledBorder;
```

```
import javax.swing.filechooser.FileNameExtensionFilter;
import javax.swing.text.BadLocationException;
import javax.swing.text.Document;
import javax.swing.text.Highlighter;
import javax.swing.text.JTextComponent;

import lb.edu.aub.cmps.Geotagging.GenerateGeoCoordinates;
import lb.edu.aub.cmps.Geotagging.GenerateGeoCoordinatesGeoNames;
import lb.edu.aub.cmps.importing.ImportFromCSV;
import lb.edu.aub.cmps.importing.ImportFromCSVI;
import lb.edu.aub.cmps.maps.GenerateMap;
import lb.edu.aub.cmps.maps.LeafletMap;
import lb.edu.cmps.exporting.ExportI;
import lb.edu.cmps.exporting.ExportToCSV;
import edu.stanford.nlp.io.ExtensionFileFilter;

public class Frame extends JFrame {
	/**
	 *
	 */
	private String filePath;
	private static final long serialVersionUID = 1L;
	private JPanel contentPane;
	JLabel posLabel;
	JComboBox<String> comboBox;
	private String chosenLocation;
	private int size = 0;
	private int currentLocation = 0;
	private LinkedList<Integer> wordIndeces;
	private boolean isimp = false;
	private ReadNovelInterface readNovel;
	@SuppressWarnings("unused")
	private GenerateWordCloudInteface generateCloud;
	private PartsOfSpeechInterface pos;

	private List<GeoLocation> locations2;
	private LinkedList<Integer> indicesForScroll;
	private int indexForScroll;

	final JCheckBox chckbxNoun;
	final JCheckBox chckbxVerb;
	final JCheckBox chckbxAdverb;
	final JCheckBox chckbxAdjective;
	private Set<String> locations;
	private JTextField txt_fld_dist;
	JLabel progress_label;
```

```
	/**
	 * Launch the application.
	 */

	/**
	 * Create the frame.
	 */
	public Frame() {
		setTitle("Topotext Digital Tool\r\n");
		pos = new PartsOfSpeechImp();
		setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
		setBounds(100, 100, 1200, 494);


		contentPane = new JPanel();
		contentPane.setForeground(new Color(241, 230, 140));
		contentPane.setBackground(new Color(176, 224, 230));
		contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
		setContentPane(contentPane);
		contentPane.setLayout(null);
		final JTextArea textArea = new JTextArea();
		textArea.setWrapStyleWord(true);
		textArea.setLineWrap(true);
		textArea.setColumns(5);
		textArea.setFont(new Font("Times New Roman", Font.PLAIN, 16));
		textArea.setEditable(false);
		progress_label = new JLabel("");

		contentPane.add(progress_label);

		final JComboBox<String> comboBox = new JComboBox<String>();
		comboBox.setEnabled(false);
		comboBox.setBounds(857, 88, 278, 20);
		contentPane.add(comboBox);

		final JButton btnHighlight = new JButton("Highlight location");
		btnHighlight.setEnabled(false);
		btnHighlight.setFont(new Font("Franklin Gothic Medium Cond",
				Font.PLAIN, 14));
		btnHighlight.addActionListener(new ActionListener() {
			public void actionPerformed(ActionEvent arg0) {

				if (comboBox == null || comboBox.getSelectedItem() == null
						|| comboBox.getSelectedItem().equals("Locations"))
{
```

```
                                JOptionPane
                                        .showMessageDialog(null,
                                                "Please select a location
before",
                                                "Received Message",

        JOptionPane.INFORMATION_MESSAGE);
                        } else {
                                chosenLocation = "" + comboBox.getSelectedItem();

                                try {
                                        size = Integer.parseInt(txt_fld_dist.getText());
                                } catch (Exception e) {
                                        size = 30;
                                }

                                wordIndeces = readNovel.getLocationsWithIndeces().get(
                                                chosenLocation);
                                currentLocation = wordIndeces.get(0);
                                highlightLocation(textArea, chosenLocation);
                                textArea.setCaretPosition(currentLocation);
                                highlightWithDistance(textArea, chosenLocation,
                                                currentLocation, size, wordIndeces);
                                indexForScroll = 0;
                                textArea.setCaretPosition(indicesForScroll
                                                .get(indexForScroll));
                        }
                }
        });

        final JCheckBox chkbox = new JCheckBox("New check box");
        chkbox.setBounds(1011, 364, 22, 16);
        contentPane.add(chkbox);
        final JScrollPane scrollArea = new JScrollPane();
        scrollArea.setViewportBorder(new TitledBorder(null, "",
                        TitledBorder.CENTER, TitledBorder.TOP, null, null));

        scrollArea.setBounds(21, 85, 821, 295);
        contentPane.add(scrollArea);

        textArea.setRows(10);
        scrollArea.setViewportView(textArea);
        btnHighlight.setBounds(857, 143, 278, 25);
        contentPane.add(btnHighlight);

        final JLabel lblCloudSize = new JLabel("Distance");
```

```
		lblCloudSize.setForeground(new Color(72, 61, 139));
		lblCloudSize.setFont(new Font("Franklin Gothic Medium Cond",
				Font.PLAIN, 18));
		lblCloudSize.setBounds(857, 119, 146, 20);
		contentPane.add(lblCloudSize);

		final JButton btnPrevious = new JButton("Previous");
		btnPrevious.setEnabled(false);
		btnPrevious.addActionListener(new ActionListener() {
			public void actionPerformed(ActionEvent arg0) {
				if (comboBox == null || comboBox.getSelectedItem() == null
						|| comboBox.getSelectedItem().equals("Locations"))
{
					JOptionPane
							.showMessageDialog(null,
									"Please select a location
before",
									"Received Message",

		JOptionPane.INFORMATION_MESSAGE);
				}

				else {
					previousLocation(textArea, chosenLocation,
currentLocation,
							wordIndeces);
				}
			}
		});
		btnPrevious.setFont(new Font("Franklin Gothic Medium Cond", Font.PLAIN,
				14));
		btnPrevious.setBounds(857, 179, 126, 23);
		contentPane.add(btnPrevious);

		final JButton nextBtn = new JButton("Next");
		nextBtn.setEnabled(false);
		nextBtn.addActionListener(new ActionListener() {
			public void actionPerformed(ActionEvent arg0) {
				if (comboBox == null || comboBox.getSelectedItem() == null
						|| comboBox.getSelectedItem().equals("Locations"))
{
					JOptionPane
							.showMessageDialog(null,
									"Please select a location
before",
									"Received Message",
```

```
JOptionPane.INFORMATION_MESSAGE);
                        } else {
                                chosenLocation = "" + comboBox.getSelectedItem();
                                nextLocation(textArea, chosenLocation, currentLocation,
                                                wordIndeces);
                        }
                }
        });
        nextBtn.setFont(new Font("Franklin Gothic Medium Cond", Font.PLAIN, 14));
        nextBtn.setBounds(1009, 179, 126, 23);
        contentPane.add(nextBtn);

        JLabel lblLocationDetector = new JLabel("Location Detector");
        lblLocationDetector.setForeground(new Color(75, 0, 130));
        lblLocationDetector.setFont(new Font("Adobe Caslon Pro Bold",
                        Font.BOLD, 45));
        lblLocationDetector.setBounds(22, 11, 540, 76);
        contentPane.add(lblLocationDetector);

        chckbxNoun = new JCheckBox("Noun");
        chckbxNoun.setEnabled(false);
        chckbxNoun.setBackground(new Color(176, 224, 230));
        chckbxNoun.setBounds(977, 236, 70, 23);
        contentPane.add(chckbxNoun);

        chckbxVerb = new JCheckBox("Verb");
        chckbxVerb.setEnabled(false);
        chckbxVerb.setBackground(new Color(176, 224, 230));
        chckbxVerb.setBounds(977, 255, 70, 23);
        contentPane.add(chckbxVerb);

        chckbxAdjective = new JCheckBox("Adjective");
        chckbxAdjective.setEnabled(false);
        chckbxAdjective.setBackground(new Color(176, 224, 230));
        chckbxAdjective.setBounds(1058, 236, 170, 23);
        contentPane.add(chckbxAdjective);

        chckbxAdverb = new JCheckBox("Adverb");
        chckbxAdverb.setEnabled(false);
        chckbxAdverb.setBackground(new Color(176, 224, 230));
        chckbxAdverb.setBounds(1058, 255, 170, 23);
        contentPane.add(chckbxAdverb);

        final JButton btnCloud = new JButton("Generate word cloud");
        btnCloud.setEnabled(false);
```

```
		btnCloud.addActionListener(new ActionListener() {
			public void actionPerformed(ActionEvent arg0) {
				if (comboBox == null || comboBox.getSelectedItem() == null
						|| comboBox.getSelectedItem().equals("Locations"))
{
					JOptionPane
							.showMessageDialog(null,
									"Please select a location
before",
									"Received Message",

	JOptionPane.INFORMATION_MESSAGE);
				} else {
					try {
						try {
							size =
Integer.parseInt(txt_fld_dist.getText());
						} catch (Exception e) {
							size = 30;
						}

						progress_label.setText("Parsing text and POS
tagging");

	progress_label.update(progress_label.getGraphics());
						LinkedList<String> words = returnWords(textArea,
								currentLocation, size);

						LinkedList<String> partsOfSpeech = new
LinkedList<String>();

						int countParts = 0;
						if (chckbxNoun.isSelected()) {
							partsOfSpeech.add("noun");
							countParts++;
						}
						if (chckbxVerb.isSelected()) {
							partsOfSpeech.add("verb");
							countParts++;

						}
						if (chckbxAdverb.isSelected()) {
							partsOfSpeech.add("adverb");
							countParts++;

						}
```

```
                                        if (chckbxAdjective.isSelected()) {
                                                partsOfSpeech.add("adjective");
                                                countParts++;

                                        }
                                        LinkedList<String> neededWords =
returnWords(textArea,
                                                        currentLocation, size);

                                        if (countParts == 0) {
                                                LinkedList<String> fullParts = new
LinkedList<String>();
                                                fullParts.add("verb");
                                                fullParts.add("noun");
                                                fullParts.add("adverb");
                                                fullParts.add("adjective");
                                                neededWords =
pos.promptedPartsOfSpeech(words,
                                                                fullParts);

                                        } else
                                                neededWords =
pos.promptedPartsOfSpeech(words,
                                                                partsOfSpeech);

                                        String toCloud = toCloud(neededWords);

                                        generateCloud = new
GenerateWordCloud(toCloud);
                                        progress_label.setText("");

        progress_label.update(progress_label.getGraphics());
                                } catch (NumberFormatException e) {
                                        JOptionPane
                                                        .showMessageDialog(
                                                                        null,
                                                                        "Please provide a
valid non-negative distance for the cloud before",
                                                                        "Received Message",

        JOptionPane.INFORMATION_MESSAGE);

                                }
                        }
                }
        });
```

```
		btnCloud.setFont(new Font("Franklin Gothic Medium Cond", Font.PLAIN, 14));
		btnCloud.setBounds(857, 289, 278, 23);
		contentPane.add(btnCloud);

		final JButton btnMap = new JButton("Show map");
		btnMap.setEnabled(false);
		btnMap.addActionListener(new ActionListener() {
			public void actionPerformed(ActionEvent e) {

				progress_label.setText("Getting geolocations...");
				progress_label.update(progress_label.getGraphics());
				if (!isimp && locations2 == null) {
					GenerateGeoCoordinates geocoord = new
GenerateGeoCoordinatesGeoNames();
					GeoLocationWithOptions[] locs = geocoord
							.generateGeoLocations(readNovel

	.getLocationsWithWeights());
					locations2 = new LinkedList<GeoLocation>();
					for (GeoLocationWithOptions loc : locs) {
						System.out.println("running");
						if (loc.getGeoLocations().size() > 0)

	locations2.add(loc.getGeoLocations().get(0));
					}
				}

				progress_label.setText("");
				progress_label.update(progress_label.getGraphics());

				JFileChooser fileChooser = new JFileChooser();
				String SAVE_AS = ".html";
				ExtensionFileFilter pFilter = new ExtensionFileFilter(SAVE_AS);
				fileChooser.setFileFilter(pFilter);
				int status = fileChooser.showSaveDialog(null);

				if (status == JFileChooser.APPROVE_OPTION) {
					File f = fileChooser.getSelectedFile();

					String fileName = f.getAbsolutePath();
					if (!fileName.endsWith(SAVE_AS)) {
						f = new File(fileName + SAVE_AS);
					}
					GenerateMap generateMap = new LeafletMap();
					try {
						if (chkbox.isSelected())
```

```
                                                    generateMap.generateMapWithWeights(
                                                            f.getAbsolutePath(),
locations2,
                                                            "Locations Map");
                                                else

        generateMap.generateMap(f.getAbsolutePath(),
                                                            locations2, "Locations
Map");
                                        } catch (FileNotFoundException e1) {
                                                e1.printStackTrace();
                                        }
                                }
                                progress_label.setText("");
                                /*
                                 * DrawMapInterface drawMap = new DrawMap(); if
                                 * ((countries_comboBox.getSelectedItem())
                                 * .equals("Select Country")) { boolean done =
                                 * drawMap.drawMap(locations); if (!done)
                                 * JOptionPane.showMessageDialog(null,
                                 * "Error occured while drawing the map", "Received Message",
                                 * JOptionPane.INFORMATION_MESSAGE);
                                 *
                                 * } else { boolean done =
                                 * drawMap.drawMapInCountry(locations,null); if (!done)
                                 * JOptionPane .showMessageDialog( null,
                                 * "Error occured while drawing the Map\nThe country you
selected has no locations in this text"
                                 * , "Received Message",
JOptionPane.INFORMATION_MESSAGE);
                                 *
                                 * }
                                 */


                        }
                });
                btnMap.setFont(new Font("Franklin Gothic Medium Cond", Font.PLAIN, 14));
                btnMap.setBounds(861, 357, 122, 23);
                contentPane.add(btnMap);

                JButton btnBrowse = new JButton("Browse");
                btnBrowse.setFont(new Font("Franklin Gothic Medium Cond", Font.PLAIN,
                                14));

                final JButton btnGenerateGlobalWord = new JButton(
                                "Generate global word cloud");
```

```
btnGenerateGlobalWord.addActionListener(new ActionListener() {
	public void actionPerformed(ActionEvent e) {
		try {
			size = Integer.parseInt(txt_fld_dist.getText());
		} catch (Exception e2) {
			size = 30;
		}

		progress_label.setText("parsing text and POS tagging...");
		progress_label.update(progress_label.getGraphics());
		String toCloud = generateGlobalCloud(textArea, wordIndeces,
				size);
		generateCloud = new GenerateWordCloud(toCloud);
		progress_label.setText("");
		progress_label.update(progress_label.getGraphics());
	}
});
btnGenerateGlobalWord.setEnabled(false);
btnGenerateGlobalWord.setFont(new Font("Franklin Gothic Medium Cond",
		Font.PLAIN, 14));
btnGenerateGlobalWord.setBounds(857, 323, 278, 23);
contentPane.add(btnGenerateGlobalWord);

final JButton export = new JButton("Export");
export.addActionListener(new ActionListener() {
	public void actionPerformed(ActionEvent arg0) {
		JFileChooser fileChooser = new JFileChooser();
		String SAVE_AS = ".csv";
		ExtensionFileFilter pFilter = new ExtensionFileFilter(SAVE_AS);
		fileChooser.setFileFilter(pFilter);
		int status = fileChooser.showSaveDialog(null);

		if (status == JFileChooser.APPROVE_OPTION) {
			File selectedFile = fileChooser.getSelectedFile();

			String fileName = selectedFile.getAbsolutePath();
			if (!fileName.endsWith(SAVE_AS)) {
				selectedFile = new File(fileName + SAVE_AS);
			}
			HashMap<String, Integer> locations_array = readNovel
					.getLocationsWithWeights();
			System.out.println("Generating geo coordinates..");
			long start = System.currentTimeMillis();
			GenerateGeoCoordinates generate_geo_coordinates = new
GenerateGeoCoordinatesGeoNames();
```

```
                                GeoLocationWithOptions[] geo_locations_with_options =
generate_geo_coordinates
                                                .generateGeoLocations(locations_array);
                                long end = System.currentTimeMillis();
                                ExportI export = new ExportToCSV(fileName);
                                System.out.println("Exporting...");
                                try {
                                        export.export(geo_locations_with_options);
                                } catch (IOException e) {
                                        e.printStackTrace();
                                }
                                System.out.println("done");
                                System.out.println("The time is: " + (end - start) / 1000);
                        }

                }
        });
        export.setEnabled(false);
        export.setFont(new Font("Franklin Gothic Medium Cond", Font.PLAIN, 14));
        export.setBounds(1013, 401, 122, 23);
        contentPane.add(export);

        final JLabel pathLabel = new JLabel("");
        pathLabel.setBounds(216, 391, 295, 23);
        contentPane.add(pathLabel);
        btnBrowse.addActionListener(new ActionListener() {
                public void actionPerformed(ActionEvent e) {

                        JFileChooser chooser = new JFileChooser();

                        // we add the filter to force the user to add only properties
                        // file
                        FileNameExtensionFilter filter = new FileNameExtensionFilter(
                                        "Text File", "txt");
                        chooser.setFileFilter(filter);
                        chooser.addChoosableFileFilter(filter);
                        int returnVal = chooser.showOpenDialog(null);
                        if (returnVal == JFileChooser.APPROVE_OPTION) {

                                comboBox.setEnabled(true);
                                btnPrevious.setEnabled(true);
                                nextBtn.setEnabled(true);
                                btnHighlight.setEnabled(true);
                                btnMap.setEnabled(true);
                                btnCloud.setEnabled(true);
                                btnGenerateGlobalWord.setEnabled(true);
```

```
                                chckbxAdverb.setEnabled(true);
                                chckbxVerb.setEnabled(true);
                                chckbxAdjective.setEnabled(true);
                                chckbxNoun.setEnabled(true);
                                filePath = chooser.getSelectedFile().getPath();
                                export.setEnabled(true);

                                pathLabel.setText(filePath.toString());
                                File file = new File(filePath);
                                try {
                                        Scanner sc = new Scanner(file);
                                        String text = " ";

                                        while (sc.hasNextLine()) {
                                                String line = sc.nextLine();
                                                text += line + "\n";
                                        }
                                        sc.close();
                                        textArea.setText(text);

                                        textArea.update(textArea.getGraphics());

                                } catch (FileNotFoundException e1) {
                                        e1.printStackTrace();
                                }
                                progress_label.setText("Extracting locations");
                                progress_label.update(progress_label.getGraphics());
                                readNovel = new ReadNovelImp(filePath);
                                locations = readNovel.getLocations();
                                String[] locationsArray = new String[locations.size() + 1];
                                locationsArray[0] = "Locations";
                                int i = 1;
                                for (String loc : locations) {
                                        locationsArray[i] = loc;
                                        i++;
                                }
                                comboBox.setModel(new
DefaultComboBoxModel<String>(
                                                        locationsArray));
                                locations = readNovel.getLocations();

                                progress_label.setText("");
                                progress_label.update(progress_label.getGraphics());
                        }
                }
        });
```

```
btnBrowse.setBounds(21, 391, 185, 23);
contentPane.add(btnBrowse);

JLabel lblPartOfSpeech = new JLabel("Part of speech:");
lblPartOfSpeech.setForeground(new Color(72, 61, 139));
lblPartOfSpeech.setFont(new Font("Franklin Gothic Medium Cond",
		Font.PLAIN, 16));
lblPartOfSpeech.setBounds(857, 234, 102, 20);
contentPane.add(lblPartOfSpeech);

JButton btnHelp = new JButton("Help");
btnHelp.addActionListener(new ActionListener() {
	public void actionPerformed(ActionEvent arg0) {
		try {
			Desktop.getDesktop().open(new File("Files/Help.txt"));
		} catch (IOException e) {
			e.printStackTrace();
		}
	}
});
btnHelp.setBackground(new Color(0, 206, 209));
btnHelp.setForeground(new Color(72, 61, 139));
btnHelp.setFont(new Font("Franklin Gothic Medium Cond", Font.PLAIN, 14));
btnHelp.setBounds(1095, 0, 89, 23);
contentPane.add(btnHelp);

final JLabel importName = new JLabel("");
importName.setBounds(216, 425, 295, 23);
contentPane.add(importName);

JButton btn_import = new JButton("Import");
btn_import.addActionListener(new ActionListener() {
	public void actionPerformed(ActionEvent arg0) {
		isimp = true;
		JFileChooser chooser = new JFileChooser();
		FileNameExtensionFilter filter = new FileNameExtensionFilter(
				"CSV File", "CSV");
		chooser.setFileFilter(filter);
		chooser.addChoosableFileFilter(filter);
		int returnVal = chooser.showOpenDialog(null);
		if (returnVal == JFileChooser.APPROVE_OPTION) {
			comboBox.setEnabled(true);
			btnMap.setEnabled(true);
			importName.setText(chooser.getSelectedFile().getPath());
```

```
                                        ImportFromCSVI import_from_csv = new
ImportFromCSV();
                                        try {
                                                locations2 = import_from_csv

        .importGeoLocations(importName.getText());

                                                String[] locationsArray = new
String[locations2.size() + 1];
                                                locationsArray[0] = "Locations";
                                                int i = 1;
                                                for (GeoLocation loc : locations2) {
                                                        locationsArray[i] = loc.getLocation_name();
                                                        i++;
                                                }
                                                comboBox.setModel(new
DefaultComboBoxModel<String>(
                                                                        locationsArray));
                                        } catch (FileNotFoundException e) {
                                                e.printStackTrace();
                                        }
                                }

                        }
                });
                btn_import.setFont(new Font("Franklin Gothic Medium Cond", Font.PLAIN,
                                14));
                btn_import.setBounds(21, 425, 185, 23);
                contentPane.add(btn_import);

                JLabel lblShowWeights = new JLabel("Show weights");
                lblShowWeights.setBounds(1039, 365, 96, 14);
                contentPane.add(lblShowWeights);

                txt_fld_dist = new JTextField();
                txt_fld_dist.setBounds(974, 119, 161, 20);
                contentPane.add(txt_fld_dist);
                txt_fld_dist.setColumns(10);
                progress_label.setBounds(857, 55, 278, 22);
                contentPane.add(progress_label);

        }

        public void highlightLocation(JTextComponent textComp, String location) {
                // Highlights a single location throughout the text
                Highlighter.HighlightPainter locationHighlighter = new MyHighlighPainter(
```

```
                    Color.cyan);

        try {
                Highlighter highlighter = textComp.getHighlighter();
                highlighter.removeAllHighlights();
                Document doc = textComp.getDocument();
                String text = doc.getText(0, doc.getLength()).toUpperCase();
                int size = location.length();
                LinkedList<Integer> indeces = allIndeces(text,
                                location.toUpperCase());
                for (int i = 0; i < indeces.size(); i++) {
                        int index = indeces.get(i);
                        highlighter.addHighlight(index, index + size,
                                        locationHighlighter);
                }

                try {
                        size = Integer.parseInt(txt_fld_dist.getText());
                } catch (Exception e) {
                        size = 30;
                }

        } catch (Exception e) {
                e.printStackTrace();
        }
}

public void highlightWithDistance(JTextComponent textComp, String location,
                int index, int size, LinkedList<Integer> wordIndeces) {
        Highlighter.HighlightPainter cloudHighlighter = new MyHighlighPainter(
                        new Color(211, 211, 211));
        Highlighter highlighter = textComp.getHighlighter();
        Document doc = textComp.getDocument();
        String text;
        try {
                text = doc.getText(0, doc.getLength()).toUpperCase();
                int txtSize = text.split(" ").length - 1;
                location = location.toUpperCase();
                LinkedList<Integer> locationIndeces = allIndeces(text, location);
                Map<Integer, Integer> map = getMap(wordIndeces, locationIndeces);
                indicesForScroll = locationIndeces;
                int locationIndex = map.get(index);

                if (size >= index) {
                        highlighter.addHighlight(0, locationIndex, cloudHighlighter);
                } else if (size != 0) {
```

```
                        int i = locationIndex - 2;
                        int counterBefore = 0;

                        while (i >= 0 && counterBefore < size) {
                                if (text.charAt(i) == ' ') {
                                        i--;
                                        counterBefore++;
                                } else
                                        i--;
                        }
                        highlighter
                                        .addHighlight(i + 2, locationIndex,
cloudHighlighter);
                }
                if (locationIndeces.indexOf(index) + size >= txtSize && size != 0) {

                        highlighter.addHighlight(locationIndex + location.length(),
                                        text.length(), cloudHighlighter);
                } else if (size != 0) {
                        int start = locationIndex + location.length() + 1;
                        int i = start;
                        int counterAfter = 0;

                        while (i < text.length() && counterAfter < size) {
                                if (text.charAt(i) == ' ') {
                                        i++;
                                        counterAfter++;
                                } else
                                        i++;
                        }
                        highlighter.addHighlight(start - 1, i - 1, cloudHighlighter);
                }

        } catch (BadLocationException e) {
                e.printStackTrace();
        }
}

public LinkedList<String> returnWords(JTextComponent textComp, int index,
                int size) {

        LinkedList<String> toReturn = new LinkedList<String>();
        Document doc = textComp.getDocument();
        String text = "";
        String[] wordList;
        try {
```

```
                text = doc.getText(0, doc.getLength());
                wordList = text.split("\\W+");

                // To avoid lower index out of bound
                if (index - size < 0) {
                        for (int i = 0; i < index; i++)
                                if (!wordList[i].equals(chosenLocation))
                                        toReturn.add(wordList[i]);
                }

                // If no lower index out of bound
                else {
                        for (int i = index - size; i < index; i++) {
                                if (!wordList[i].equals(chosenLocation))
                                        toReturn.add(wordList[i]);
                        }
                }

                // To avoid upper index out of bound
                if (index + size >= wordList.length) {
                        for (int i = index + 1; i < wordList.length; i++)
                                if (!wordList[i].equals(chosenLocation))
                                        toReturn.add(wordList[i]);
                }

                // If no upper index out of bound
                else {
                        for (int i = index + 1; i <= index + size; i++)
                                if (!wordList[i].equals(chosenLocation))
                                        toReturn.add(wordList[i]);
                }

        } catch (BadLocationException e) {
                e.printStackTrace();
        }
        return toReturn;
}

public String toCloud(LinkedList<String> returnedWords) {
        String toCloud = "";
        for (int i = 0; i < returnedWords.size(); i++) {
                toCloud += returnedWords.get(i) + " ";
        }
        return toCloud;
}
```

```
public static LinkedList<Integer> allIndeces(String s, String word) {
	word = word.split(" ")[0];
	LinkedList<Integer> positions = new LinkedList<Integer>();
	Pattern p = Pattern.compile(" " + word.toUpperCase());
	Pattern p1 = Pattern.compile("\n" + word.toUpperCase());
	Pattern p2 = Pattern.compile("\t" + word.toUpperCase());
	Matcher m = p.matcher(" " + s.toUpperCase());
	Matcher m1 = p1.matcher(" " + s.toUpperCase());
	Matcher m2 = p2.matcher(" " + s.toUpperCase());

	while (m.find()) {
		positions.add(m.start());
	}

	while (m1.find()) {
		positions.add(m1.start());
	}

	while (m2.find()) {
		positions.add(m2.start());
	}
	return positions;
}

public Map<Integer, Integer> getMap(LinkedList<Integer> wordIndex,
		LinkedList<Integer> occurances) {

	Map<Integer, Integer> map = new HashMap<Integer, Integer>();
	for (int i = 0; i < wordIndex.size(); i++) {
		if (i >= 0 && i < wordIndex.size() && i < occurances.size())
			map.put(wordIndex.get(i), occurances.get(i));
	}
	return map;
}

public void setCurrentLocation(int newLocation) {
	currentLocation = newLocation;
}

public void nextLocation(JTextComponent textComp, String location,
		int currentIndex, LinkedList<Integer> indexList) {
	try {
		Highlighter highlighter = textComp.getHighlighter();
		highlighter.removeAllHighlights();
		highlightLocation(textComp, location);
		indexList = wordIndeces;
```

```
                int index = indexList.indexOf(currentIndex);
                if (indexForScroll < indicesForScroll.size() - 1)
                        indexForScroll++;
                currentIndex = indicesForScroll.get(indexForScroll);
                if (index == indexList.size() - 1) {
                        JOptionPane.showMessageDialog(null,
                                        "No more instances of this location");
                } else {
                        index++;
                        setCurrentLocation(indexList.get(index));
                        textComp.setCaretPosition(currentIndex + 100);
                        try {
                                size = Integer.parseInt(txt_fld_dist.getText());
                        } catch (Exception e) {
                                size = 30;
                        }
                        highlightWithDistance(textComp, location, indexList.get(index),
                                        size, indexList);

                        // lblMostFrequentWord
                        // .setText("Most Frequent Word: " + freq.MFW());
                }
        } catch (Exception e) {

        }

}

public void previousLocation(JTextComponent textComp, String location,
                int currentIndex, LinkedList<Integer> indexList) {
        try {
                Highlighter highlighter = textComp.getHighlighter();
                highlighter.removeAllHighlights();
                highlightLocation(textComp, location);
                indexList = wordIndeces;
                int index = indexList.indexOf(currentIndex);
                if (indexForScroll > 0)
                        indexForScroll--;
                currentIndex = indicesForScroll.get(indexForScroll);
                if (index == 0) {
                        JOptionPane.showMessageDialog(null,
                                        "No more instances of this location");
                } else if (index < indexList.size()) {
                        index--;
                        setCurrentLocation(indexList.get(index));
                        textComp.setCaretPosition(currentIndex);
```

```
                        try {
                                size = Integer.parseInt(txt_fld_dist.getText());
                        } catch (Exception e) {
                                size = 30;
                        }
                        highlightWithDistance(textComp, location, indexList.get(index),
                                        size, indexList);
                } else {
                        index = indexList.size() - 1;
                        setCurrentLocation(indexList.get(index));
                        textComp.setCaretPosition(currentIndex);
                        try {
                                size = Integer.parseInt(txt_fld_dist.getText());
                        } catch (Exception e) {
                                size = 30;
                        }
                        highlightWithDistance(textComp, location, indexList.get(index),
                                        size, indexList);

                }
        } catch (Exception e) {

        }
}

public String generateGlobalCloud(JTextComponent textComp,
                LinkedList<Integer> indeces, int size) {

        String toGlobalCloud = "";
        for (int i = 0; i < indeces.size(); i++) {
                LinkedList<String> words = returnWords(textComp, indeces.get(i),
                                size);

                LinkedList<String> partsOfSpeech = new LinkedList<String>();

                int countParts = 0;
                if (chckbxNoun.isSelected()) {
                        partsOfSpeech.add("noun");
                        countParts++;
                }
                if (chckbxVerb.isSelected()) {
                        partsOfSpeech.add("verb");
                        countParts++;

                }
                if (chckbxAdverb.isSelected()) {
```

```
                        partsOfSpeech.add("adverb");
                        countParts++;

                }
                if (chckbxAdjective.isSelected()) {
                        partsOfSpeech.add("adjective");
                        countParts++;

                }
                LinkedList<String> neededWords = new LinkedList<String>();

                if (countParts == 0) {
                        LinkedList<String> fullParts = new LinkedList<String>();
                        fullParts.add("verb");
                        fullParts.add("noun");
                        fullParts.add("adverb");
                        fullParts.add("adjective");
                        neededWords = pos.promptedPartsOfSpeech(words, fullParts);

                } else
                        neededWords = pos.promptedPartsOfSpeech(words,
partsOfSpeech);

                        toGlobalCloud += toCloud(neededWords) + " ";
                }
                return toGlobalCloud;
        }

        public LinkedList<String> returnWordsIgnoringUnintersesting(
                        JTextComponent textComp, int index, int size) {

                LinkedList<String> ignore = UninterstingWords.uninterstingWords();
                LinkedList<String> toReturn = new LinkedList<String>();
                Document doc = textComp.getDocument();
                String text = "";
                String[] wordList;
                try {
                        text = doc.getText(0, doc.getLength());
                        wordList = text.split("\\W+");

                        // To avoid lower index out of bound
                        if (index - size < 0) {
                                for (int i = 0; i < index; i++)
                                        if (!ignore.contains(wordList[i]))
                                                toReturn.add(wordList[i]);
                        }
```

```
                        // If no lower index out of bound
                        else {
                                for (int i = index - size; i < index; i++) {
                                        if (!ignore.contains(wordList[i]))

                                                toReturn.add(wordList[i]);
                                }
                        }

                        // To avoid upper index out of bound
                        if (index + size >= wordList.length) {
                                for (int i = index + 1; i < wordList.length; i++)
                                        if (!ignore.contains(wordList[i]))
                                                toReturn.add(wordList[i]);
                        }

                        // If no upper index out of bound
                        else {
                                for (int i = index + 1; i <= index + size; i++)
                                        if (!ignore.contains(wordList[i]))
                                                toReturn.add(wordList[i]);
                        }

                } catch (BadLocationException e) {
                        e.printStackTrace();
                }
                return toReturn;
        }
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/MyHighlighPainter.java

```
package lb.edu.aub.cmps;

import java.awt.Color;

import javax.swing.text.DefaultHighlighter.DefaultHighlightPainter;


public class MyHighlighPainter extends DefaultHighlightPainter{
        public MyHighlighPainter(Color color) {
                super(color);
        }
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/Configuration.java

```
package lb.edu.aub.cmps;
import java.util.ArrayList;
import java.util.List;



public class Configuration
{
	//OVERVIEW
	//A singleton pattern designed class that stores the abbreviation of each part of speech in array lists
	//and guarantees that there is only one instance of our configuration class
	public final  List<String> verbTags = new ArrayList<String>();
	public final  List<String> nounTags = new ArrayList<String>();
	public final  List<String> advTags = new ArrayList<String>();
	public final  List<String> adjTags = new ArrayList<String>();
	public final String noun = "noun";
	public final String verb = "verb";
	public final String adverb = "adverb";
	public final String adjective = "adjective";
	public static Configuration instance = new Configuration();



	private Configuration()
	{
		verbTags.add("VB");
		verbTags.add("VBZ");
		verbTags.add("VBD");
		verbTags.add("VBG");
		verbTags.add("VBN");
		verbTags.add("VBP");
		nounTags.add("NN");
		nounTags.add("NNP");
		nounTags.add("NNS");
		nounTags.add("NNPS");
		advTags.add("RB");
		advTags.add("RBR");
		advTags.add("RBS");
		adjTags.add("JJ");
		adjTags.add("JJR");
		adjTags.add("JJS");

	}
```

```
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/XYCoordinates.java

```
package lb.edu.aub.cmps;

import lb.edu.aub.exceptions.LocationNotFoundException;

import java.util.HashSet;
import java.util.Set;


public class XYCoordinates {
	//OVERVIEW: this class consists of two methods where we take the locations names as a
set of strings
	//and we return a set of Location as objects having get country longitude and lattitude in
them
	//to be placed as locations on the map

	private Set<GoogleGeoLocation> locations;

	public XYCoordinates(Set<String> locations_names){
		locations= new HashSet<GoogleGeoLocation>();
		for(String location_name: locations_names){
			try {
				GoogleGeoLocation location= new
GoogleGeoLocation(location_name);
				locations.add(location);
			} catch (LocationNotFoundException e) {
			}
		}
	}

	public XYCoordinates(Set<String> locations_names, String country){
		locations= new HashSet<GoogleGeoLocation>();
		for(String location_name: locations_names){
			try {
				GoogleGeoLocation location= new
GoogleGeoLocation(location_name);
				if(location.getCountry().equals(country))
					locations.add(location);
			} catch (LocationNotFoundException e) {
			}
```

```
                }
        }

        public Set<GoogleGeoLocation> getLocations(){
                return locations;
        }


}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/DrawMapInterface.java

```
package lb.edu.aub.cmps;

import java.util.Set;

public interface DrawMapInterface {

        /*
         * requires: locations not null
         * effects: creates an html file and automatically opens the browser and shows the map
         */
        public boolean drawMap(Set<String> locations);


        /*
         * requires: locations not null, country not null
         * effects: creates an html file and automatically opens the browser and shows the map in
the specified country
         */
        public boolean drawMapInCountry(Set<String> locations, String country);
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/GenerateWordCloudInteface.java

```
package lb.edu.aub.cmps;

import java.io.File;

public interface GenerateWordCloudInteface {

        public void generateWordCloud(File f);
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/ImportFrame.java

```
package lb.edu.aub.cmps;

import java.awt.Button;
import java.awt.EventQueue;
import java.awt.TextField;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.FileNotFoundException;

import javax.swing.JFileChooser;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.filechooser.FileNameExtensionFilter;

import lb.edu.aub.cmps.importing.ImportFromCSV;
import lb.edu.aub.cmps.importing.ImportFromCSVI;

public class ImportFrame {

	private JFrame frame;

	/**
	 * Launch the application.
	 */
	public static void main(String[] args) {
		EventQueue.invokeLater(new Runnable() {
			public void run() {
				try {
					ImportFrame window = new ImportFrame();
					window.frame.setVisible(true);
				} catch (Exception e) {
					e.printStackTrace();
				}
			}
		});
	}

	/**
	 * Create the application.
	 */
	public ImportFrame() {
		initialize();
	}
```

```
/**
 * Initialize the contents of the frame.
 */
private void initialize() {
	frame = new JFrame();
	frame.setBounds(100, 100, 450, 300);
	frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
	frame.getContentPane().setLayout(null);
	final TextField fileName = new TextField();
	fileName.setEnabled(false);
	fileName.setEditable(false);
	fileName.setBounds(119, 10, 195, 26);
	frame.getContentPane().add(fileName);

	final Button import_button = new Button("Import");
	import_button.setEnabled(false);
	import_button.addActionListener(new ActionListener() {
		public void actionPerformed(ActionEvent arg0) {
			ImportFromCSVI import_from_csv = new ImportFromCSV();
			try {

import_from_csv.importGeoLocations(fileName.getText());
			} catch (FileNotFoundException e) {

			}
		}
	});


	JLabel lblChooseACsv = new JLabel("Choose a CSV file");
	lblChooseACsv.setBounds(10, 11, 98, 25);
	frame.getContentPane().add(lblChooseACsv);

	Button button = new Button("Browse");
	button.addActionListener(new ActionListener() {
		public void actionPerformed(ActionEvent arg0) {
			JFileChooser chooser = new JFileChooser();
			FileNameExtensionFilter filter = new FileNameExtensionFilter(
					"CSV File", "csv");
			chooser.setFileFilter(filter);
			chooser.addChoosableFileFilter(filter);
			int returnVal = chooser.showOpenDialog(null);
			if (returnVal == JFileChooser.APPROVE_OPTION) {
				import_button.setEnabled(true);
				fileName.setText(chooser.getSelectedFile().getPath());
			}
```

```
                }
            });
            button.setBounds(339, 11, 70, 22);
            frame.getContentPane().add(button);


            import_button.setBounds(185, 55, 90, 45);
            frame.getContentPane().add(import_button);


        }
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/WorldCountries.java

```
package lb.edu.aub.cmps;

import java.io.File;
import java.io.FileNotFoundException;
import java.util.Scanner;

public class WorldCountries {

        //OVERVIEW: this class will provide one method that returns all the countries in the
world
        //by simply reading them from a file than filling them in an array

        public static String[] countries(){
            String[] countries= new String[258];
            try {
                Scanner sc= new Scanner (new File("Files/WorldCountries.txt"));
                int i=0;
                while(sc.hasNextLine()){
                    countries[i]= sc.nextLine();
                    i++;
                }

                sc.close();
            } catch (FileNotFoundException e) {
            }

            return countries;
        }
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/PartsOfSpeechImp.java

```
package lb.edu.aub.cmps;
import java.util.HashMap;

import java.util.LinkedList;
import java.util.List;
import java.util.Map;

import edu.stanford.nlp.tagger.maxent.MaxentTagger;
//import edu.stanford.nlp.tagger.maxent.MaxentTagger;
public class PartsOfSpeechImp implements PartsOfSpeechInterface
{
		//OVERVIEW
		//This class returns the words of the specified parts of speech by the user
		public LinkedList<String> promptedPartsOfSpeech(LinkedList<String> text,
List<String> partsOfSpeech)
		{
			/*
			 * requires:A linked list of strings which are part of the selected text
			 *			A list of the prompted parts of speech from the user
			 *			Both data structures are required not be null
			 * modifies:text
			 * effects:It tags the text by its part of speech
			 * returns:A new linked list containing the Strings with parts of speech
similar to what the user prompted.
			 *		Example: text={shadia is}
			 *				partsOfSpeech=[verb]
			 *				returns: {is}
			 */
			LinkedList<String> neededWords = new LinkedList<String>();
			Map<String, String> mapWordTag = tagList(text);
			for( int i=0; i< partsOfSpeech.size(); i++ )
			{
				partsOfSpeech.set(i, partsOfSpeech.get(i).toLowerCase());
			}
			for(String word: mapWordTag.keySet())
			{
				String tag = mapWordTag.get(word).trim();
				if(Configuration.instance.nounTags.contains(tag) &&
partsOfSpeech.contains(Configuration.instance.noun))
				{
					neededWords.add(word);
				}
```

```
                        if(Configuration.instance.verbTags.contains(tag) &&
partsOfSpeech.contains(Configuration.instance.verb))
                        {
                                neededWords.add(word);
                        }
                        if(Configuration.instance.adjTags.contains(tag) &&
partsOfSpeech.contains(Configuration.instance.adjective))
                        {
                                neededWords.add(word);
                        }
                        if(Configuration.instance.advTags.contains(tag) &&
partsOfSpeech.contains(Configuration.instance.adverb))
                        {
                                neededWords.add(word);
                        }
                }

                return neededWords;
        }
        private Map<String, String> tagList(LinkedList<String> text)
        {
                /*
                 * requires: A linked list of strings which are of the selected text not equal
to null
                 * modifies: text
                 * effects: It tags the text by its parts of speech and stores the words
                 * returns: a map with (word, tag)
                 */
                MaxentTagger tagger = new MaxentTagger("Files/english-left3words-
distsim.tagger");
                Map<String, String> mapWordTag = new HashMap<String, String>();
                for(String word: text)
                {
                        try{
                        mapWordTag.put(word, tagger.tagString(word).split("_")[1]);
                        }
                        catch(ArrayIndexOutOfBoundsException e){

                        }
                }
                return mapWordTag;
        }

}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/DrawMap.java

```
 package lb.edu.aub.cmps;

import java.awt.Desktop;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.PrintStream;
import java.util.Iterator;
import java.util.Scanner;
import java.util.Set;

public class DrawMap implements DrawMapInterface {
	private PrintStream html;

	/*
	 * requires: locations_names not null
	 * effects: initializes this
	 * */
	public boolean drawMap(Set<String> locations_names){

		XYCoordinates coord= new XYCoordinates(locations_names);
		Set<GoogleGeoLocation> locations=coord.getLocations();
		return createHTMLFile(locations);
	}

	/*
	 * requires: locations_names not null and country not null
	 * effects: initializes this
	 * */
	public boolean drawMapInCountry(Set<String> locations_names, String country){
		XYCoordinates coord= new XYCoordinates(locations_names, country);
		Set<GoogleGeoLocation> locations=coord.getLocations();
		return createHTMLFile(locations);
	}
	/*
	 * requires: locations not null
	 *
	 * effects: creates an html file holding a map
	 *			automatically opens the browser to show the map
	 *			along with the marker on the given locations
	 **/
	private boolean createHTMLFile(Set<GoogleGeoLocation> locations){
		if(locations.isEmpty()) return false;
		try {
			Scanner sc = new Scanner(new File("Files/startHtml.html"));
```

```
                String text="";
                while(sc.hasNextLine())
                        text+=(sc.nextLine())+"\n";
                sc.close();
                html= new PrintStream(new File("Files/map.html"));
                html.print(text);
                printInitializationFunction(locations);

                Scanner sc2 = new Scanner(new File("Files/endHtml.html"));
                String text2="";
                while(sc2.hasNextLine())
                        text2+=(sc2.nextLine())+"\n";
                sc2.close();
                html.print(text2);
                html.close();

                //creating the html file
                File htmlToOPen = new File("Files/map.html");

                //opening the browser
                Desktop.getDesktop().browse(htmlToOPen.toURI());
                return true;

        } catch (FileNotFoundException e) {
                return false;
        } catch (IOException e) {
                return false;
        }

}
/**
 * requires: locations not null
 * effects: prints the initialization function of the map
 *                      on the html file to be opened later
 *                      showing the markers on the given locations
 */
private boolean printInitializationFunction(Set<GoogleGeoLocation> locations){
        try{
                html.print("\tfunction initialize() {\n");
                html.print("\t\tlats= new Array(");

                Iterator<GoogleGeoLocation> it= locations.iterator();
                html.print(it.next().getX());
                while(it.hasNext())
                        html.print(", "+it.next().getX());
                html.println(");");
```

```
                    html.print("\t\tlngs= new Array(");

                    Iterator<GoogleGeoLocation> it2= locations.iterator();
                    html.print(it2.next().getY());
                    while(it2.hasNext())
                        html.print(", "+it2.next().getY());
                    html.println(");");

                    html.print("\t\tnames= new Array(");

                    Iterator<GoogleGeoLocation> it3= locations.iterator();
                    html.print("'"+it3.next().getLocation_name()+"'");
                    while(it3.hasNext())
                        html.print(", '"+it3.next().getLocation_name()+"'");
                    html.println(");");
                    return true;
                }
                catch(Exception e){
                    return false;
                }


        }



}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/WelcomeFrame.java

```
package lb.edu.aub.cmps;
import java.awt.EventQueue;

import javax.swing.JFrame;
import java.awt.Color;
import javax.swing.JLabel;
import java.awt.Font;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
```

```
public class WelcomeFrame {

	private JFrame frmWelcome;

	/**
	 * Launch the application.
	 */
	public static void main(String[] args) {
		EventQueue.invokeLater(new Runnable() {
			public void run() {
				try {
					WelcomeFrame window = new WelcomeFrame();
					window.frmWelcome.setVisible(true);
				} catch (Exception e) {
					e.printStackTrace();
				}
			}
		});
	}

	/**
	 * Create the application.
	 */
	public WelcomeFrame() {
		initialize();
	}

	/**
	 * Initialize the contents of the frame.
	 */
	private void initialize() {
		frmWelcome = new JFrame();
		frmWelcome.setFont(new Font("Adobe Caslon Pro", Font.PLAIN, 20));
		frmWelcome.setTitle("Welcome!");
		frmWelcome.getContentPane().setBackground(new Color(176, 224, 230));
		frmWelcome.getContentPane().setLayout(null);

		JLabel lblWelcomeToThe = new JLabel("TopoText 2.0");
		lblWelcomeToThe.setForeground(new Color(51, 51, 102));
		lblWelcomeToThe.setFont(new Font("Adobe Caslon Pro Bold", Font.BOLD,
40));
		lblWelcomeToThe.setBounds(468, 182, 251, 83);
		frmWelcome.getContentPane().add(lblWelcomeToThe);

		JButton btnStartUp = new JButton("Start Up");
		btnStartUp.addActionListener(new ActionListener() {
```

```
                        public void actionPerformed(ActionEvent arg0) {
                                frmWelcome.setVisible(false);
                                EventQueue.invokeLater(new Runnable() {
                                        public void run() {
                                                try {
                                                        Frame frame = new Frame();
                                                        frame.setVisible(true);
                                                } catch (Exception e) {
                                                        e.printStackTrace();
                                                }
                                        }
                                });
                        }
                });
                btnStartUp.setForeground(new Color(51, 51, 102));
                btnStartUp.setFont(new Font("Franklin Gothic Medium Cond", Font.PLAIN,
18));
                btnStartUp.setBounds(519, 297, 150, 35);
                frmWelcome.getContentPane().add(btnStartUp);
                frmWelcome.setBounds(100, 100, 1200, 475);
                frmWelcome.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        }
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/GenerateWordCloud.java

```
package lb.edu.aub.cmps;

import java.awt.Desktop;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.PrintStream;

import javax.swing.JFileChooser;

import edu.stanford.nlp.io.ExtensionFileFilter;

public class GenerateWordCloud implements GenerateWordCloudInteface
{

        public GenerateWordCloud(String toCloud)
        {
                String head= "<!DOCTYPE html> <html> <head><title>Word CLoud</title>
<meta " +
```

```
                        "name=\"viewport\" content=\"initial-scale=1.0, " +
                        "user-scalable=no\" /> <form action=\"http://www." +
                        "wordle.net/advanced\" method=\"POST\"> <textarea" +
                        " name=\"text\" style=\"display:none\">";

        String tail= "</textarea> <input type=\"submit\" value=\"Press To See Your
Amazing Word Cloud\" > </form> " +
                        "</head> <body> <div id=\"map-canvas\"/> </body> </html>";

        String all= head+ toCloud + tail;

        try
        {
                JFileChooser fileChooser = new JFileChooser();
                String SAVE_AS = ".html";
                ExtensionFileFilter pFilter = new ExtensionFileFilter(SAVE_AS);
                fileChooser.setFileFilter(pFilter);
                int status = fileChooser.showSaveDialog(null);

                if (status == JFileChooser.APPROVE_OPTION) {
                        File f = fileChooser.getSelectedFile();

                        String fileName = f.getAbsolutePath();
                        if (!fileName.endsWith(SAVE_AS)) {
                                f = new File(fileName + SAVE_AS);
                        }
                File htmlToOpen = new File(f.getAbsolutePath());

                PrintStream out= new PrintStream(htmlToOpen);
                out.print(all);
                out.close();
                try {
                        Desktop.getDesktop().browse(htmlToOpen.toURI());
                } catch (IOException e) {
                        // TODO Auto-generated catch block
                        e.printStackTrace();
                }
                }
        }
        catch (FileNotFoundException e)
        {
                e.printStackTrace();
        }
}

public void generateWordCloud(File f)
```

```
        {
                //opening the browser
                try
                {
                        Desktop.getDesktop().browse(f.toURI());
                } catch (IOException e)
                {
                        e.printStackTrace();
                }
        }

}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/GoogleGeoLocation.java

```
package lb.edu.aub.cmps;
import java.io.BufferedReader;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.InputStreamReader;
import java.net.HttpURLConnection;
import java.net.URL;

import lb.edu.aub.exceptions.LocationNotFoundException;

import org.json.simple.JSONArray;
import org.json.simple.JSONObject;
import org.json.simple.parser.JSONParser;
import org.json.simple.parser.ParseException;


public class GoogleGeoLocation {
        //OVERVIEW Location is a geographical location that has an x-axis and y-axis
coordinates and a country
        private String location_name;
        private double x;
        private double y;
        private String country;

        /*
         * requires: loc is not null and doesn't contain spaces
         *
         * throws LocationNotFoundException if there were any problems in getting the
coordinates or the country
         *
```

```
        * effects: initializes a Location with its characteristics: its x-axis and y-axis coordinates
        *                          along with the country its is found to be in
        * sketch of implementation: opens a URL connection to google maps
        *                                                          parses a JSON object returned and
sets the coordinates and the country
        */
        public GoogleGeoLocation(String locationName) throws LocationNotFoundException {
                JSONParser parser = new JSONParser();

                try {
                        URL url = new URL(

        "https://maps.googleapis.com/maps/api/geocode/json?address="
                                                        + locationName
                                                        + "&sensor=true&key=AIzaSyCZh4n_-
9uL24erKrgxAofGycqDfiFswBE");
                        HttpURLConnection connection = (HttpURLConnection) url
                                        .openConnection();
                        connection.setRequestMethod("GET");
                        connection.setDoOutput(true);
                        connection.connect();

                        BufferedReader reader = new BufferedReader(new InputStreamReader(
                                        connection.getInputStream()));

                        Object obj = parser.parse(reader);
                        JSONObject jsonObject = (JSONObject) obj;

                        JSONArray results = (JSONArray) jsonObject.get("results");
                        JSONObject geometry = ((JSONObject) ((JSONObject) results.get(0))
                                        .get("geometry"));
                        JSONObject location = (JSONObject) geometry.get("location");
                        this.x = ((Double) location.get("lat"));
                        this.y = ((Double) location.get("lng"));

                        JSONArray address_components = ((JSONArray) ((JSONObject) results
                                        .get(0)).get("address_components"));
                        this.country = (String) ((JSONObject) address_components
                                        .get(address_components.size() - 1)).get("long_name");
                        this.location_name=locationName;

                } catch (FileNotFoundException e) {
                        throw new LocationNotFoundException();
                } catch (IOException e) {
                        throw new LocationNotFoundException();
                } catch (ParseException e) {
```

```
                throw new LocationNotFoundException();
            }

            catch(IndexOutOfBoundsException e){
                throw new LocationNotFoundException();
            }
        }

        /**
         *
         * @return the x coordinate
         */
        public double getX() {
            return x;
        }


        /**
         *
         * @return the y coordinate
         */
        public double getY() {
            return y;
        }



        /**
         *
         * @return the coutry of this location
         */
        public String getCountry() {
            return country;
        }

        /**
         *
         * @return the name of this location
         */
        public String getLocation_name() {
            return location_name;
        }

}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/UninterstingWords.java

```
package lb.edu.aub.cmps;

import java.io.File;
import java.io.FileNotFoundException;
import java.util.LinkedList;
import java.util.Scanner;

public class UninterstingWords {

	public static LinkedList<String> uninterstingWords(){

		LinkedList<String> words= new LinkedList<String>();
		try {

			Scanner sc= new Scanner(new File("Files/uninterestingWords.txt"));
			while(sc.hasNextLine()){
				words.add(sc.nextLine());

			}
			sc.close();
		} catch (FileNotFoundException e) {
		}

		return words;
	}
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/GeoLocation.java

```
package lb.edu.aub.cmps;

public class GeoLocation {

	private String location_name;
	private double x;
	private double y;
	private String country;
	private String annotation;
	private int weight;
	//private String alt_names;

	public GeoLocation(String location_name, double x, double y, String country, int weight)
{
```

```
        super();
        this.location_name = location_name;
        this.x = x;
        this.y = y;
        this.country = country;
        this.weight = weight;
        //this.alt_names = alt_names;
}
public String getLocation_name() {
        return location_name;
}
public void setLocation_name(String location_name) {
        this.location_name = location_name;
}
public double getX() {
        return x;
}
public void setX(double x) {
        this.x = x;
}
public double getY() {
        return y;
}
public void setY(double y) {
        this.y = y;
}
public String getCountry() {
        return country;
}
public void setCountry(String country) {
        this.country = country;
}

public String toString(){
        return "("+x+", "+y+")  _>  "+country;
}
public String getAnnotation() {
        return annotation;
}
public void setAnnotation(String annotation) {
        this.annotation = annotation;
}
public int getWeight(){
        return (weight == 0)? 1: weight;
```

```
	}
	public void setWeight(int weight){
		this.weight = weight;
	}
	/*
	public String getAlt_names() {
		return alt_names;
	}
	public void setAlt_names(String alt_names) {
		this.alt_names = alt_names;
	}
	*/
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/CountFrequency.java

```
package lb.edu.aub.cmps;


public interface CountFrequency

{
	public String MFW();

	public String LFW();

}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/PartsOfSpeechInterface.java

```
package lb.edu.aub.cmps;
import java.util.LinkedList;
import java.util.List;
public interface PartsOfSpeechInterface
{
	public LinkedList<String> promptedPartsOfSpeech(LinkedList<String>
text,List<String> partsOfSpeech);
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/GeoLocationWithOptions.java

```
package lb.edu.aub.cmps;
```

```
import java.util.LinkedList;

public class GeoLocationWithOptions {

	private String location_name;
	private LinkedList<GeoLocation> geoLocations;
	private int weight;
	public GeoLocationWithOptions(String name) {
		this.location_name = name;
		this.geoLocations = new LinkedList<GeoLocation>();
	}

	public String getLocation_name() {
		return location_name;
	}

	public void setLocation_name(String location_name) {
		this.location_name = location_name;
	}

	public LinkedList<GeoLocation> getGeoLocations() {
		return geoLocations;
	}

	public void setGeoLocations(LinkedList<GeoLocation> geoLocations) {
		this.geoLocations = geoLocations;
	}

	public void add(String name, double x, double y, String country, String alt_names, int
weight){
		this.geoLocations.add(new GeoLocation(name, x, y, country, weight));
	}

	public int getWeight(){
		return (weight == 0)? 1: weight;


	}
	public void setWeight(int weight){
		this.weight = weight;
	}
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/importing/ImportFromCSVI.java

```
package lb.edu.aub.cmps.importing;

import java.io.FileNotFoundException;
import java.util.List;

import lb.edu.aub.cmps.GeoLocation;

public interface ImportFromCSVI {

	public List<GeoLocation> importGeoLocations(String csvfile) throws
FileNotFoundException;
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/importing/ImportFromCSV.java

```
package lb.edu.aub.cmps.importing;

import java.io.File;
import java.io.FileNotFoundException;
import java.util.HashSet;
import java.util.LinkedList;
import java.util.List;
import java.util.Scanner;
import java.util.Set;

import lb.edu.aub.cmps.GeoLocation;

public class ImportFromCSV implements ImportFromCSVI {

	public List<GeoLocation> importGeoLocations(String csvfile) throws
FileNotFoundException {
		List<GeoLocation> locs = new LinkedList<GeoLocation>();
		Set<String> locset = new HashSet<String>();
		Scanner scan = new Scanner(new File(csvfile));
		scan.nextLine();

		while(scan.hasNextLine()){
			String line = scan.nextLine();
			String[] parts = line.split(",");
			String locname = parts[0];
			if(!locset.contains(locname)){
				try{
```

```
                                        GeoLocation geoloc= new GeoLocation(locname,
Double.parseDouble(parts[2]), Double.parseDouble(parts[3]), parts[1],
Integer.parseInt(parts[4]));
                                        if(parts.length > 5)
                                                geoloc.setAnnotation(parts[5]);
                                        else
                                                geoloc.setAnnotation("");
                                        locset.add(locname);
                                        locs.add(geoloc);
                                        System.out.println("added");
                                        }catch(IndexOutOfBoundsException
e){ e.printStackTrace();}
                                }

                }
                scan.close();
                System.out.println("...." +locs.size());
                return locs;
        }

        public static void main(String[] args) throws FileNotFoundException{
                ImportFromCSV imp = new ImportFromCSV();
                imp.importGeoLocations("C:\\Users\\Lenovo\\Julia\\topo text\\output-all-
countries.csv");
        }
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/HighlighterInterface.java

```
package lb.edu.aub.cmps;

import java.util.LinkedList;

import javax.swing.text.JTextComponent;

public interface HighlighterInterface {

        //Highlights a single location throughout the text
        public void highlightLocation(JTextComponent textComp, String location);

        //Highlights the distance specified around a certain location
        public void highlightWithDistance(JTextComponent textComp, String location, int index,
        int size, LinkedList<Integer> wordIndeces);

        //Returns the array of strings in the selected part
```

```
	public LinkedList<String> returnWords(JTextComponent textComp, int index, int size);

	//Move to the next location
	public void nextLocation(JTextComponent textComp, String location, int currentIndex,
			LinkedList<Integer> indexList, int size);

	//Move to the previous location
	public void previousLocation(JTextComponent textComp, String location, int
currentIndex,
			LinkedList<Integer> indexList, int size);


}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/CountFrequencyImp.java

```
package lb.edu.aub.cmps;

import java.text.Collator;
import java.util.Arrays;
import java.util.Collections;
import java.util.Comparator;
import java.util.HashSet;
import java.util.LinkedList;
import java.util.Set;

public class CountFrequencyImp implements CountFrequency {
	// OVERVIEW: This class provides a nb of procedures to generate a cloud of
	// words and
	// methods to return the most and least frequent word in the paragraph
	// provided

	private LinkedList<String> list;
	String[] result;
	private int[] nb = new int[100000];

	/**
	 * requires a linked list of strings
	 * modifies assigns the linked list
	 * provided to list effects assigns the number of occurrences of each word
	 * to it
	 */
	public CountFrequencyImp(LinkedList<String> words)
			throws NullPointerException {
		// TODO Auto-generated method stub
```

```
        this.list = words;
        Collections.sort(list, new Comparator<String>() {
                public int compare(String o1, String o2) {
                        return Collator.getInstance().compare(o1, o2);
                }
        });

        String temp = list.getFirst();
        int k = 0;

        for (String s : list) {
                if (s.equals(temp)) {
                        nb[k]++;
                } else {
                        temp = s;
                        k++;
                        nb[k]++;
                }
        }

        Set<String> set = new HashSet<String>(list);
        result = new String[set.size()];
        set.toArray(result);
        Arrays.sort(result, String.CASE_INSENSITIVE_ORDER);
}

/**
 * returns a string representing the most frequent word
 */
public String MFW() {

        int max = 0;
        int index = 0;
        for (int i = 0; i < nb.length; i++) {
                if (max < nb[i]) {
                        max = nb[i];
                        index = i;
                }
        }
        return result[index];

}

/**
 * returns a string representing the least frequent word
 */
```

```
	public String LFW() {
		// TODO Auto-generated method stub
		int min = 100;
		int index = 0;

		for (int i = 0; i < nb.length; i++) {
			if (min > nb[i] && nb[i] > 0) {
				min = nb[i];
				index = i;
			}
		}
		return result[index];
	}

	public static void main(String[] args){
		LinkedList<String> words = new LinkedList<String>();
		words.add("me");
		words.add("me");
		words.add("me");
		words.add("me");
		words.add("me");
		words.add("me");
		words.add("me");
		words.add("it");
		words.add("mow");
		words.add("mdflkhje");
		CountFrequencyImp n= new CountFrequencyImp(words);
		System.out.println(n.LFW());

	}
}
```

File: topotext.v2/src/main/java/lb/edu/aub/cmps/JSONLocation.java

```
package lb.edu.aub.cmps;

public class JSONLocation {

	private String location_name;
	private String global_annotation;
	private String[] local_annotations;
	private GoogleGeoLocation[] geoLocations;
	private int weight;

	public JSONLocation(String location_name, String global_nnotation,
```

```
                        String[] local_annotations, GoogleGeoLocation[] geoLocations, int
weight) {
                super();
                this.location_name = location_name;
                this.global_annotation = global_nnotation;
                this.local_annotations = local_annotations;
                this.geoLocations = geoLocations;
                this.weight = weight;
        }

        public String getLocation_name() {
                return location_name;
        }

        public void setLocation_name(String location_name) {
                this.location_name = location_name;
        }

        public String getGlobal_nnotation() {
                return global_annotation;
        }

        public void setGlobal_nnotation(String global_nnotation) {
                this.global_annotation = global_nnotation;
        }

        public String[] getLocal_annotations() {
                return local_annotations;
        }

        public void setLocal_annotations(String[] local_annotations) {
                this.local_annotations = local_annotations;
        }

        public GoogleGeoLocation[] getGeoLocations() {
                return geoLocations;
        }

        public void setGeoLocations(GoogleGeoLocation[] geoLocations) {
                this.geoLocations = geoLocations;
        }

        public int getWeight() {
                return weight;
        }
```

```
	public void setWeight(int weight) {
		this.weight = weight;
	}

}
```

File: topotext.v2/src/main/java/lb/edu/cmps/exporting/ExportI.java

```
package lb.edu.cmps.exporting;

import java.io.IOException;

import lb.edu.aub.cmps.GeoLocationWithOptions;

public interface ExportI {

	public void export(GeoLocationWithOptions[] locations) throws IOException;
}
```

File: topotext.v2/src/main/java/lb/edu/cmps/exporting/ExportToCSV.java

```
package lb.edu.cmps.exporting;

import java.io.FileWriter;
import java.io.IOException;
import java.util.HashSet;
import java.util.Set;

import lb.edu.aub.cmps.GeoLocation;
import lb.edu.aub.cmps.GeoLocationWithOptions;

public class ExportToCSV implements ExportI {

	private String csv_name;
	private FileWriter writer;

	public ExportToCSV(String filename){
		csv_name = filename;
		try {
			writer = new FileWriter(csv_name);
		} catch (IOException e) {
		}

	}
```

```
	public void export(GeoLocationWithOptions[] locations) throws IOException {
		writer.append("Location Name,");
		writer.append("Country,");
		writer.append("X,");
		writer.append("Y,");
		writer.append("Weight,");
		writer.append("Annotation\n");

		for(GeoLocationWithOptions loc: locations){
			Set<String> countries = new HashSet<String>();

			if(loc != null){
				String name = loc.getLocation_name();
				for(GeoLocation l: loc.getGeoLocations()){
					if(!countries.contains(l.getCountry().toLowerCase())){
						countries.add(l.getCountry().toLowerCase());
						writer.append(name + ",");
						writer.append(l.getCountry()+",");
						writer.append(l.getX()+",");
						writer.append(l.getY()+",");
						writer.append(l.getWeight()+"\n");
					}

				}
			}
		}
		writer.flush();
		writer.close();

	}

}
```

Appendix C: A Map of *Paradise Lost*

El Khatib, Randa and Marcel Schaeben. Forthcoming. A Map of *Paradise Lost*. University of Victoria and University of Cologne.

Lines of code: 33710.

Link to working prototype: https://olvidalo.github.io/paradise-lost/.

A Map of *Paradise Lost* situates John Milton's *Paradise Lost* in its historical moment—the seventeenth century—published in a map-oriented culture that was at the peak of the development of a cartographic consciousness in Europe. Morgan Ng argues that there is a "tendency among current literary scholars, despite enormous interest in the 'cartographic imagination' in Renaissance writing, largely to ignore the texts' actual visual counterparts. To explain the textual form of *Paradise Lost* requires equally close attention to the images which permeated Milton's mimetic consciousness, even after the onset of his blindness." (2013, 428). This project explores the maps that inspired Milton's spatial thinking when creating the terrestrial world of *Paradise Lost*.

Essentially, A Map of *Paradise Lost* is an exploratory map , or geo-edition, that offers a visual entry point into the complex and multitemporal terrestrial space of John Milton's epic poem. The points on the map are the unambiguous place-name mentions found in the epic poem that have been geocoded manually for accuracy. Each point is accompanied by:

1. The comments that appear directly on the map, taken from editorial notes that explain the significance of the place
2. Accompanying passages that provide the context for every place name mention from *Paradise Lost* and a reference to each passage

3. Related locations that show what places are grouped together under the same categories by Milton
4. The moral connotation that Milton assigns to place names based on his political, poetic, or historical perception of them
5. Different marker types and color schemes to aid exploration

The project grants visual access to the world of "geographical continuity" that permeated Milton's spatial consciousness. This worldview refers to the prevalent notion of historical sequence of a seventeenth-century English audience, namely the conviction that biblical events, like historical ones, progressed on a linear spectrum of geographical continuity, meaning that the land that the Ottoman Empire occupied in the seventeenth century is the same land in which biblical and classical accounts took place (Ng 2013, 433). The historical maps included in the project are meant to evoke these worlds imagined by Milton, captured through georectification (matching points on a map image with corresponding points on a map in a geo-coordinate system). To date, the two georectified maps are: a map of biblical lands from the King James Bible (similar to that found in the paratext of Milton's own family bible, 1612/1613) and John Speed's (1626) map of "The Turkish Empire."

Codebase:

File: paradise-lost/dist/index.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta content="width=device-width,initial-scale=1,minimal-ui" name="viewport">
  <title>Moralized Geography of Paradise Lost</title>
  <link rel="stylesheet" href="./styles.css">
</head>
```

```
<body>
   <div id="app"></div>
   <script src="./main.js"></script>
</body>

</html>
```

File: paradise-lost/dist/styles.css

```
/*!
 * vue-material v1.0.0-beta-7
 * Made with <3 by marcosmoura 2017
 * Released under the MIT License.
 */
@import url(https://fonts.googleapis.com/css?family=Playfair%20Display:bold,black);
@import url(https://fonts.googleapis.com/css?family=Lato:bold,black,regular);
html {
  height: 100%;
  -webkit-box-sizing: border-box;
          box-sizing: border-box;
  -webkit-transition: background-color 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: background-color 0.3s cubic-bezier(0.25, 0.8, 0.25, 1); }

html *, html :after, html :before {
  -webkit-box-sizing: inherit;
          box-sizing: inherit; }

body {
  min-height: 100%;
  margin: 0;
  position: relative;
  -webkit-tap-highlight-color: transparent;
  -webkit-touch-callout: none;
  -webkit-text-size-adjust: 100%;
  -ms-text-size-adjust: 100%;
  -moz-osx-font-smoothing: grayscale;
  -webkit-font-smoothing: antialiased;
  font-family: Roboto,Noto Sans,-apple-system,BlinkMacSystemFont,sans-serif; }

a:not(.md-button) {
  -webkit-transition: 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  -webkit-transition-property: color,background-color,opacity;
  transition-property: color,background-color,opacity; }
```

```
audio, canvas, embed, iframe, img, object, video {
  max-width: 100%;
  font-style: italic;
  vertical-align: middle; }

audio:not(.md-image), canvas:not(.md-image), embed:not(.md-image), iframe:not(.md-image),
        img:not(.md-image), object:not(.md-image), video:not(.md-image) {
  height: auto; }

[tabindex="-1"]:focus {
  outline: none !important; }

.md-scrollbar::-webkit-scrollbar {
  width: 8px;
  height: 8px;
  border-radius: 8px; }

.md-scrollbar::-webkit-scrollbar-thumb {
  border-radius: 8px; }

.md-scrollbar::-webkit-scrollbar-button {
  display: none; }

.md-caption {
  font-size: 12px;
  font-weight: 400;
  letter-spacing: .02em;
  line-height: 17px; }

.md-body-1, body {
  font-weight: 400;
  line-height: 20px; }

.md-body-1, .md-body-2, body {
  font-size: 14px;
  letter-spacing: .01em; }

.md-body-2 {
  font-weight: 500;
  line-height: 24px; }

.md-subheading {
  font-size: 16px;
  font-weight: 400;
  letter-spacing: .01em;
  line-height: 24px; }
```

```
.md-title {
  font-size: 20px;
  font-weight: 500;
  letter-spacing: .005em;
  line-height: 26px; }

.md-headline {
  font-size: 24px;
  line-height: 32px; }

.md-display-1, .md-headline {
  font-weight: 400;
  letter-spacing: 0; }

.md-display-1 {
  font-size: 34px;
  line-height: 40px; }

.md-display-2 {
  font-size: 45px;
  font-weight: 400;
  letter-spacing: 0;
  line-height: 48px; }

.md-display-3 {
  font-size: 56px;
  font-weight: 400;
  letter-spacing: -.005em;
  line-height: 58px; }

.md-display-4 {
  font-size: 112px;
  font-weight: 300;
  letter-spacing: -.01em;
  line-height: 112px; }

a:not(.md-button) {
  text-decoration: none; }

a:not(.md-button):hover {
  text-decoration: underline; }

button:focus {
  outline: none; }
```

```
.md-app {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  overflow: hidden;
  position: relative; }

.md-app.md-fixed .md-app-scroller {
  overflow: auto; }

.md-app.md-fixed-last, .md-app.md-flexible, .md-app.md-overlap, .md-app.md-reveal {
  -webkit-transform: translateZ(0);
  transform: translateZ(0); }

.md-app.md-fixed-last .md-app-toolbar, .md-app.md-flexible .md-app-toolbar, .md-app.md-
        overlap .md-app-toolbar, .md-app.md-reveal .md-app-toolbar {
  position: absolute;
  top: 0; }

.md-app.md-flexible .md-app-toolbar, .md-app.md-overlap .md-app-toolbar {
  min-height: 0; }

.md-app.md-flexible .md-toolbar-row:first-child {
  z-index: 2; }

.md-app.md-flexible .md-toolbar-row:last-child {
  position: fixed;
  bottom: 0;
  z-index: 1; }

.md-app.md-flexible .md-display-1 {
  position: fixed; }

.md-app.md-overlap .md-app-toolbar {
  z-index: 1; }

.md-app.md-overlap .md-app-content {
  margin: -64px 24px 24px;
  position: relative;
  z-index: 2; }

.md-app-content {
  padding: 16px; }

.md-app-content > p:first-child {
  margin-top: 0; }
```

```
.md-app-content > p:last-child {
  margin-bottom: 0; }

.md-app-container {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  overflow: auto;
  -webkit-transform: translate3D(0, 0, 0);
  transform: translate3D(0, 0, 0);
  -webkit-transition: padding-left 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  transition: padding-left 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  will-change: padding-left; }

.md-app-container, .md-app-scroller {
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1; }

@media (max-width: 944px) {
  .md-app.md-overlap .md-app-content {
    margin: -64px 16px 16px; } }

@media (max-width: 600px) {
  .md-app.md-overlap .md-app-content {
    margin: -64px 8px 8px; } }

@media (min-width: 600px) {
  .md-app-drawer.md-permanent-card + .md-app-scroller .md-content {
    padding-left: 0;
    border-left: none; }
  .md-app-content {
    border-left: 1px solid transparent; } }

.md-app-internal-drawer, .md-app-side-drawer .md-app-container {
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-direction: column;
      flex-direction: column; }

.md-app-internal-drawer .md-app-scroller {
  overflow: auto; }

.md-no-elevation {
  -webkit-box-shadow: none !important;
```

```
        box-shadow: none !important; }

.md-fixed-last .md-reveal-active, .md-flexible .md-reveal-active, .md-overlap .md-reveal-
        active, .md-reveal .md-reveal-active {
  -webkit-transform: translate3d(0, calc(100% + 10px), 0);
  transform: translate3d(0, calc(100% + 10px), 0);
  -webkit-transition: 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition-property: box-shadow,-webkit-transform;
  -webkit-transition-property: -webkit-box-shadow,-webkit-transform;
  transition-property: -webkit-box-shadow,-webkit-transform;
  transition-property: box-shadow,transform;
  transition-property: box-shadow,transform,-webkit-box-shadow,-webkit-transform;
  transition-property: box-shadow,transform,-webkit-transform;
  will-change: height,box-shadow,transform; }

.md-overlap .md-app-toolbar {
  height: 196px; }

.md-fixed-last-active {
  -webkit-transition: 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition-property: box-shadow,-webkit-transform;
  -webkit-transition-property: -webkit-box-shadow,-webkit-transform;
  transition-property: -webkit-box-shadow,-webkit-transform;
  transition-property: box-shadow,transform;
  transition-property: box-shadow,transform,-webkit-box-shadow,-webkit-transform;
  transition-property: box-shadow,transform,-webkit-transform;
  will-change: height,box-shadow,transform; }

.md-overlap-off {
  z-index: 3 !important; }

.md-app-content {
  height: 100%; }

.md-app-content .md-card {
  margin-right: 16px;
  margin-left: 16px;
  overflow: visible; }

.md-autocomplete .md-menu {
  width: 100%;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex; }
```

```
.md-autocomplete-loading {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: center;
  -ms-flex-align: center;
     align-items: center;
  -webkit-box-pack: center;
  -ms-flex-pack: center;
     justify-content: center;
  position: absolute;
  top: 0;
  right: 0;
  bottom: 0;
  left: 0;
  z-index: 9; }

.md-field.md-inline.md-autocomplete-box {
  -webkit-box-shadow: 0 3px 1px -2px rgba(0, 0, 0, 0.2), 0 2px 2px 0 rgba(0, 0, 0, 0.14), 0 1px
          5px 0 rgba(0, 0, 0, 0.12);
         box-shadow: 0 3px 1px -2px rgba(0, 0, 0, 0.2), 0 2px 2px 0 rgba(0, 0, 0, 0.14), 0 1px 5px 0
          rgba(0, 0, 0, 0.12);
  padding-top: 2px;
  border-radius: 2px; }

.md-field.md-inline.md-autocomplete-box.md-focused {
  z-index: 11; }

.md-field.md-inline.md-autocomplete-box:after, .md-field.md-inline.md-autocomplete-
          box:before {
  display: none; }

.md-toolbar .md-field.md-inline.md-autocomplete-box {
  min-height: 40px;
  height: 40px;
  margin: 0;
  -webkit-box-shadow: none;
         box-shadow: none; }

.md-field.md-inline.md-autocomplete-box .md-menu {
  -webkit-box-align: center;
  -ms-flex-align: center;
     align-items: center; }

.md-field.md-inline.md-autocomplete-box .md-input {
```

```
  padding-left: 16px; }

.md-field.md-inline.md-autocomplete-box.md-focused label, .md-field.md-inline.md-
        autocomplete-box .md-input-action, .md-field.md-inline.md-autocomplete-box label {
  top: 50%;
  -webkit-transform: translateY(-50%);
  transform: translateY(-50%); }

.md-field.md-inline.md-autocomplete-box .md-input-action {
  right: 8px; }

.md-field.md-inline.md-autocomplete-box.md-focused label, .md-field.md-inline.md-
        autocomplete-box label {
  margin-top: 2px;
  left: 16px; }

.md-autocomplete-box-content:after {
  height: 6px;
  position: absolute;
  top: -6px;
  right: 0;
  left: 0;
  z-index: 11;
  border-bottom: 1px solid;
  content: ""; }

.md-avatar {
  width: 40px;
  min-width: 40px;
  height: 40px;
  margin: auto;
  display: -webkit-inline-box;
  display: -ms-inline-flexbox;
  display: inline-flex;
  -webkit-box-pack: center;
  -ms-flex-pack: center;
     justify-content: center;
  -webkit-box-align: center;
  -ms-flex-align: center;
     align-items: center;
  overflow: hidden;
  -webkit-user-select: none;
  -moz-user-select: none;
  -ms-user-select: none;
  user-select: none;
  position: relative;
```

```
  border-radius: 40px;
  -webkit-transition: 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  -webkit-transition-property: color,background-color;
  transition-property: color,background-color;
  will-change: color,background-color;
  font-size: 24px;
  letter-spacing: -.05em;
  vertical-align: middle; }

.md-avatar.md-large {
  min-width: 64px;
  min-height: 64px;
  border-radius: 64px;
  font-size: 32px; }

.md-avatar.md-large .md-icon {
  font-size: 40px !important; }

.md-avatar.md-small {
  width: 24px;
  min-width: 24px;
  height: 24px;
  border-radius: 24px;
  font-size: 14px; }

.md-avatar.md-small .md-icon {
  font-size: 16px !important; }

.md-avatar .md-icon {
  position: absolute;
  top: 50%;
  left: 50%;
  -webkit-transform: translate(-50%, -50%);
  transform: translate(-50%, -50%); }

.md-avatar img {
  width: 100%;
  height: 100%;
  display: block; }

.md-avatar .md-ripple {
  cursor: pointer;
  display: -webkit-inline-box;
  display: -ms-inline-flexbox;
  display: inline-flex;
```

```
  -webkit-box-pack: center;
  -ms-flex-pack: center;
     justify-content: center;
  -webkit-box-align: center;
  -ms-flex-align: center;
     align-items: center;
  border-radius: 50%; }

.md-bottom-bar {
  -webkit-box-shadow: 0 5px 5px -3px rgba(0, 0, 0, 0.2), 0 8px 10px 1px rgba(0, 0, 0, 0.14), 0
          3px 14px 2px rgba(0, 0, 0, 0.12);
         box-shadow: 0 5px 5px -3px rgba(0, 0, 0, 0.2), 0 8px 10px 1px rgba(0, 0, 0, 0.14), 0 3px
          14px 2px rgba(0, 0, 0, 0.12);
  width: 100%;
  -webkit-transition: background-color 0.5s cubic-bezier(0.4, 0, 0.2, 1);
  transition: background-color 0.5s cubic-bezier(0.4, 0, 0.2, 1); }

.md-bottom-bar > .md-ripple {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -ms-flex-wrap: wrap;
     flex-wrap: wrap; }

.md-bottom-bar.md-type-fixed {
  -webkit-box-pack: center;
  -ms-flex-pack: center;
     justify-content: center; }

.md-bottom-bar.md-type-fixed .md-bottom-bar-item {
  min-width: 80px;
  max-width: 168px;
  -webkit-transition: 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  -webkit-transition-property: color;
  transition-property: color;
  will-change: color; }

.md-bottom-bar.md-type-fixed .md-bottom-bar-item .md-bottom-bar-label {
  -webkit-transform: scale(0.8571) translate3D(0, 4px, 0);
  transform: scale(0.8571) translate3D(0, 4px, 0); }

.md-bottom-bar.md-type-fixed .md-bottom-bar-item.md-active .md-ripple {
  padding-top: 6px; }

.md-bottom-bar.md-type-fixed .md-bottom-bar-item.md-active .md-bottom-bar-icon {
```

```
  -webkit-transform: translate3d(0, -2px, 0);
  transform: translate3d(0, -2px, 0); }

.md-bottom-bar.md-type-fixed .md-bottom-bar-item.md-active .md-bottom-bar-label {
  -webkit-transform: translate3D(0, 3px, 0);
  transform: translate3D(0, 3px, 0); }

.md-bottom-bar.md-type-shift {
  -webkit-box-pack: center;
  -ms-flex-pack: center;
      justify-content: center; }

.md-bottom-bar.md-type-shift > .md-ripple .md-ripple-enter-active {
  -webkit-transition-duration: 1.1s !important;
          transition-duration: 1.1s !important; }

.md-bottom-bar.md-type-shift > .md-ripple .md-ripple-enter {
  opacity: 1; }

.md-bottom-bar.md-type-shift .md-bottom-bar-item {
  min-width: 56px;
  max-width: 96px;
  -webkit-box-flex: 1;
  -ms-flex: 1 1 32px;
      flex: 1 1 32px;
  -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition-property: padding,min-width,max-width,color,-webkit-box-flex;
  -webkit-transition-property: padding,min-width,max-width,color,-webkit-box-flex;
  transition-property: padding,min-width,max-width,flex,color;
  transition-property: padding,min-width,max-width,flex,color,-webkit-box-flex,-ms-flex;
  transition-property: padding,min-width,max-width,flex,color,-webkit-box-flex;
  will-change: padding,min-width,max-width,flex,color; }

.md-bottom-bar.md-type-shift .md-bottom-bar-item .md-ripple {
  padding: 16px; }

.md-bottom-bar.md-type-shift .md-bottom-bar-item .md-bottom-bar-icon {
  -webkit-transform: translate3d(0, 8px, 0);
  transform: translate3d(0, 8px, 0); }

.md-bottom-bar.md-type-shift .md-bottom-bar-item .md-bottom-bar-label {
  opacity: 0;
  -webkit-transform: scale(0.7) translate3d(0, 6px, 0);
  transform: scale(0.7) translate3d(0, 6px, 0); }
```

```
.md-bottom-bar.md-type-shift .md-bottom-bar-item.md-active {
  min-width: 96px;
  max-width: 168px;
  -webkit-box-flex: 1;
  -ms-flex: 1 1 72px;
      flex: 1 1 72px; }

.md-bottom-bar.md-type-shift .md-bottom-bar-item.md-active .md-ripple {
  padding: 6px 0 10px; }

.md-bottom-bar.md-type-shift .md-bottom-bar-item.md-active .md-bottom-bar-icon {
  -webkit-transform: translateZ(0);
  transform: translateZ(0); }

.md-bottom-bar.md-type-shift .md-bottom-bar-item.md-active .md-bottom-bar-label {
  opacity: 1;
  -webkit-transform: translate3d(0, 3px, 0);
  transform: translate3d(0, 3px, 0); }

.md-bottom-bar .md-bottom-bar-item {
  height: 56px;
  margin: 0;
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1;
  cursor: pointer;
  border-radius: 0;
  font-size: 14px;
  font-weight: 400;
  line-height: 1em;
  text-transform: none; }

.md-bottom-bar .md-bottom-bar-item .md-ripple {
  padding: 8px 12px 10px;
  -webkit-transition: padding 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: padding 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  will-change: padding; }

.md-bottom-bar .md-bottom-bar-item .md-button-content {
  position: static;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-direction: column;
```

```
    flex-direction: column;
  -webkit-box-align: center;
  -ms-flex-align: center;
    align-items: center; }

.md-bottom-bar .md-bottom-bar-item .md-bottom-bar-icon, .md-bottom-bar .md-bottom-bar-
        item .md-bottom-bar-label {
  -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition-property: opacity,-webkit-transform;
  -webkit-transition-property: opacity,-webkit-transform;
  transition-property: transform,opacity;
  transition-property: transform,opacity,-webkit-transform;
  will-change: transform,opacity; }

.md-ripple {
  width: 100%;
  height: 100%;
  position: relative;
  z-index: 4;
  overflow: hidden;
  -webkit-mask-image: radial-gradient(circle, #fff 100%, #000 0); }

.md-ripple-wave {
  position: absolute;
  z-index: 1;
  pointer-events: none;
  background: currentColor;
  border-radius: 50%;
  opacity: 0;
  -webkit-transform: scale(2) translateZ(0);
  transform: scale(2) translateZ(0); }

.md-ripple-wave.md-centered {
  top: 50%;
  left: 50%; }

.md-ripple-wave ~ * {
  position: relative;
  z-index: 2; }

.md-ripple-enter-active {
  -webkit-transition: 0.8s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.8s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition-property: opacity,-webkit-transform;
  -webkit-transition-property: opacity,-webkit-transform;
```

```
  transition-property: opacity,transform;
  transition-property: opacity,transform,-webkit-transform;
  will-change: opacity,transform; }

.md-ripple-enter-active.md-centered {
  -webkit-transition-duration: 1.2s;
          transition-duration: 1.2s; }

.md-ripple-enter {
  opacity: .26;
  -webkit-transform: scale(0.26) translateZ(0);
  transform: scale(0.26) translateZ(0); }

.md-button, .md-button-clean {
  margin: 0;
  padding: 0;
  display: inline-block;
  position: relative;
  overflow: hidden;
  outline: none;
  background: transparent;
  border: 0;
  border-radius: 0;
  -webkit-transition: 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  font-family: inherit;
  line-height: normal;
  text-transform: uppercase;
  text-decoration: none;
  vertical-align: top;
  white-space: nowrap; }

.md-button {
  min-width: 88px;
  height: 36px;
  margin: 6px 8px;
  -webkit-user-select: none;
  -moz-user-select: none;
  -ms-user-select: none;
  user-select: none;
  border-radius: 2px;
  font-size: 14px;
  font-weight: 500; }

.md-button:active {
  outline: none; }
```

```
.md-button[disabled] {
  pointer-events: none; }

.md-button:not([disabled]) {
  cursor: pointer; }

.md-button:not([disabled]).md-focused:before, .md-button:not([disabled]):active:before, .md-
        button:not([disabled]):hover:before {
  background-color: currentColor;
  opacity: .12; }

.md-button:not([disabled]).md-focused.md-accent:before, .md-button:not([disabled]).md-
        focused.md-primary:before, .md-button:not([disabled]):active:before {
  opacity: .2; }

.md-button:not([disabled]).md-ripple-off:active:before {
  opacity: .26; }

.md-button.md-plain.md-button.md-raised:not([disabled]) {
  color: rgba(0, 0, 0, 0.87);
  background-color: #fff; }

.md-button.md-plain.md-button.md-raised:not([disabled]) .md-icon-font {
  color: rgba(0, 0, 0, 0.87); }

.md-button.md-plain.md-button.md-raised:not([disabled]) .md-icon-image {
  fill: rgba(0, 0, 0, 0.87); }

.md-button::-moz-focus-inner {
  padding: 0;
  border: 0; }

.md-button:before {
  position: absolute;
  top: 0;
  right: 0;
  bottom: 0;
  left: 0;
  z-index: 1;
  opacity: 0;
  -webkit-transition: 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  will-change: background-color,opacity;
  content: " "; }
```

```
.md-button.md-dense {
  height: 32px;
  font-size: 13px; }

.md-button.md-raised:not([disabled]) {
  -webkit-box-shadow: 0 3px 1px -2px rgba(0, 0, 0, 0.2), 0 2px 2px 0 rgba(0, 0, 0, 0.14), 0 1px
          5px 0 rgba(0, 0, 0, 0.12);
        box-shadow: 0 3px 1px -2px rgba(0, 0, 0, 0.2), 0 2px 2px 0 rgba(0, 0, 0, 0.14), 0 1px 5px 0
          rgba(0, 0, 0, 0.12); }

.md-button.md-raised:not([disabled]):active {
  -webkit-box-shadow: 0 5px 5px -3px rgba(0, 0, 0, 0.2), 0 8px 10px 1px rgba(0, 0, 0, 0.14), 0
          3px 14px 2px rgba(0, 0, 0, 0.12);
        box-shadow: 0 5px 5px -3px rgba(0, 0, 0, 0.2), 0 8px 10px 1px rgba(0, 0, 0, 0.14), 0 3px
          14px 2px rgba(0, 0, 0, 0.12); }

.md-button.md-raised:not([disabled]).md-ripple-off:active:before {
  opacity: .2; }

.md-button + .md-button {
  margin-left: 0; }

.md-button .md-ripple {
  padding: 0 8px;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-pack: center;
  -ms-flex-pack: center;
     justify-content: center;
  -webkit-box-align: center;
  -ms-flex-align: center;
     align-items: center; }

.md-button-spaced .md-ripple {
  padding: 0 16px; }

.md-fab, .md-fab .md-ripple, .md-fab:before, .md-icon-button, .md-icon-button .md-ripple, .md-
          icon-button:before {
  border-radius: 50%; }

.md-fab.md-dense .md-ripple-wave, .md-fab.md-mini .md-ripple-wave, .md-icon-button .md-
          ripple-wave {
  top: 0 !important;
  right: 0 !important;
  bottom: 0 !important;
```

```
  left: 0 !important; }

.md-icon-button {
  width: 40px;
  min-width: 40px;
  height: 40px;
  margin: 0 6px; }

.md-icon-button.md-dense {
  width: 32px;
  min-width: 32px;
  height: 32px; }

.md-icon-button .md-ripple-enter-active {
  -webkit-transition-duration: 1.2s;
          transition-duration: 1.2s; }

.md-fab {
  -webkit-box-shadow: 0 3px 5px -1px rgba(0, 0, 0, 0.2), 0 6px 10px 0 rgba(0, 0, 0, 0.14), 0 1px
           18px 0 rgba(0, 0, 0, 0.12);
          box-shadow: 0 3px 5px -1px rgba(0, 0, 0, 0.2), 0 6px 10px 0 rgba(0, 0, 0, 0.14), 0 1px
           18px 0 rgba(0, 0, 0, 0.12);
  width: 56px;
  height: 56px;
  min-width: 0;
  overflow: hidden; }

.md-fab:active {
  -webkit-box-shadow: 0 7px 8px -4px rgba(0, 0, 0, 0.2), 0 12px 17px 2px rgba(0, 0, 0, 0.14), 0
           5px 22px 4px rgba(0, 0, 0, 0.12);
          box-shadow: 0 7px 8px -4px rgba(0, 0, 0, 0.2), 0 12px 17px 2px rgba(0, 0, 0, 0.14), 0 5px
           22px 4px rgba(0, 0, 0, 0.12); }

.md-fab.md-dense, .md-fab.md-mini {
  width: 40px;
  height: 40px; }

.md-fab.md-fab-top-left, .md-fab.md-fab-top-right {
  position: absolute;
  top: 24px; }

.md-fab.md-fab-bottom-left, .md-fab.md-fab-bottom-right {
  position: absolute;
  bottom: 24px; }

.md-fab.md-fab-bottom-center, .md-fab.md-fab-top-center {
```

```
  position: absolute;
  left: 50%;
  -webkit-transform: translateX(-50%);
  transform: translateX(-50%);
  top: 24px; }

.md-fab.md-fab-bottom-right, .md-fab.md-fab-top-right {
  right: 24px; }

.md-fab.md-fab-bottom-left, .md-fab.md-fab-top-left {
  left: 24px; }

.md-fab.md-fixed {
  position: fixed; }

.md-fab .md-ripple {
  padding: 0; }

.md-button-content {
  position: relative;
  z-index: 2; }

.md-card {
  -webkit-box-shadow: 0 3px 1px -2px rgba(0, 0, 0, 0.2), 0 2px 2px 0 rgba(0, 0, 0, 0.14), 0 1px
        5px 0 rgba(0, 0, 0, 0.12);
      box-shadow: 0 3px 1px -2px rgba(0, 0, 0, 0.2), 0 2px 2px 0 rgba(0, 0, 0, 0.14), 0 1px 5px 0
        rgba(0, 0, 0, 0.12);
  overflow: auto;
  position: relative;
  z-index: 1;
  border-radius: 2px;
  -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  -webkit-transition-property: color,background-color;
  transition-property: color,background-color;
  will-change: color,background-color; }

.md-card.md-with-hover {
  cursor: pointer;
  -webkit-transition: background-color 0.3s cubic-bezier(0.4, 0, 0.2, 1), -webkit-box-shadow 0.4s
        cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: background-color 0.3s cubic-bezier(0.4, 0, 0.2, 1), -webkit-box-shadow 0.4s cubic-
        bezier(0.25, 0.8, 0.25, 1);
  transition: background-color 0.3s cubic-bezier(0.4, 0, 0.2, 1), box-shadow 0.4s cubic-
        bezier(0.25, 0.8, 0.25, 1);
```

```
  transition: background-color 0.3s cubic-bezier(0.4, 0, 0.2, 1), box-shadow 0.4s cubic-
        bezier(0.25, 0.8, 0.25, 1), -webkit-box-shadow 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  will-change: background-color,box-shadow; }

.md-card.md-with-hover:hover {
  z-index: 2;
  -webkit-box-shadow: 0 5px 5px -3px rgba(0, 0, 0, 0.2), 0 8px 10px 1px rgba(0, 0, 0, 0.14), 0
        3px 14px 2px rgba(0, 0, 0, 0.12);
       box-shadow: 0 5px 5px -3px rgba(0, 0, 0, 0.2), 0 8px 10px 1px rgba(0, 0, 0, 0.14), 0 3px
        14px 2px rgba(0, 0, 0, 0.12); }

.md-card.md-expand-active .md-card-expand-trigger.md-icon-button {
  -webkit-transform: rotate(180deg);
  transform: rotate(180deg); }

.md-card .md-subhead, .md-card .md-subheading, .md-card .md-title {
  margin: 0;
  font-weight: 400; }

.md-card .md-subhead {
  opacity: .54;
  font-size: 14px;
  letter-spacing: .01em;
  line-height: 20px; }

.md-card .md-subhead + .md-title {
  margin-top: 4px; }

.md-card .md-title {
  font-size: 24px;
  letter-spacing: 0;
  line-height: 32px; }

.md-card-area, .md-card > .md-card-area:not(:last-child) {
  position: relative; }

.md-card > .md-card-area:not(:last-child):after {
  height: 1px;
  position: absolute;
  bottom: 0;
  content: " "; }

.md-card > .md-card-area:not(:last-child):not(.md-inset):after {
  right: 0;
  left: 0; }
```

```
.md-card > .md-card-area:not(:last-child).md-inset:after {
  right: 16px;
  left: 16px; }

.md-card-header {
  padding: 16px; }

.md-card-header:first-child > .md-card-header-text > .md-title:first-child, .md-card-header:first-
        child > .md-title:first-child {
  margin-top: 8px; }

.md-card-header:last-child {
  margin-bottom: 8px; }

.md-card-header.md-card-header-flex {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-pack: justify;
  -ms-flex-pack: justify;
     justify-content: space-between; }

.md-card-header + .md-card-content {
  padding-top: 0; }

.md-card-header + .md-card-actions:not(:last-child) {
  padding: 0 8px; }

.md-card-header > img {
  border-radius: 50%; }

.md-card-header .md-avatar, .md-card-header > img {
  margin-right: 16px;
  float: left; }

.md-card-header .md-avatar ~ .md-title, .md-card-header > img ~ .md-title {
  font-size: 14px; }

.md-card-header .md-avatar ~ .md-subhead, .md-card-header .md-avatar ~ .md-title, .md-card-
        header > img ~ .md-subhead, .md-card-header > img ~ .md-title {
  font-weight: 500;
  line-height: 20px; }

.md-card-header .md-button {
  margin: 0; }
```

```
.md-card-header .md-button:last-child {
  margin-right: -4px; }

.md-card-header .md-button + .md-button {
  margin-left: 8px; }

.md-card-header .md-card-header-text {
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1; }

.md-card-header .md-card-media {
  width: 80px;
  height: 80px;
  margin-left: 16px;
  -webkit-box-flex: 0;
  -ms-flex: 0 0 80px;
      flex: 0 0 80px; }

.md-card-header .md-card-media.md-medium {
  width: 120px;
  height: 120px;
  -webkit-box-flex: 0;
  -ms-flex: 0 0 120px;
      flex: 0 0 120px; }

.md-card-header .md-card-media.md-big {
  width: 160px;
  height: 160px;
  -webkit-box-flex: 0;
  -ms-flex: 0 0 160px;
      flex: 0 0 160px; }

.md-card-media {
  position: relative; }

.md-card-media.md-ratio-16-9 {
  overflow: hidden; }

.md-card-media.md-ratio-16-9:before {
  width: 100%;
  padding-top: 56.25%;
  display: block;
  content: " "; }

.md-card-media.md-ratio-16-9 img {
```

```
  position: absolute;
  top: 50%;
  right: 0;
  left: 0;
  -webkit-transform: translateY(-50%);
  transform: translateY(-50%); }

.md-card-media.md-ratio-4-3 {
  overflow: hidden; }

.md-card-media.md-ratio-4-3:before {
  width: 100%;
  padding-top: 75%;
  display: block;
  content: " "; }

.md-card-media.md-ratio-4-3 img {
  position: absolute;
  top: 50%;
  right: 0;
  left: 0;
  -webkit-transform: translateY(-50%);
  transform: translateY(-50%); }

.md-card-media.md-ratio-1-1 {
  overflow: hidden; }

.md-card-media.md-ratio-1-1:before {
  width: 100%;
  padding-top: 100%;
  display: block;
  content: " "; }

.md-card-media.md-ratio-1-1 img {
  position: absolute;
  top: 50%;
  right: 0;
  left: 0;
  -webkit-transform: translateY(-50%);
  transform: translateY(-50%); }

.md-card-media + .md-card-header {
  padding-top: 24px; }

.md-card-media + .md-card-content:last-child {
  padding-bottom: 16px; }
```

```
.md-card-media img {
  width: 100%; }

.md-card-media-actions {
  padding: 16px;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-pack: justify;
  -ms-flex-pack: justify;
      justify-content: space-between; }

.md-card-media-actions .md-card-media {
  max-width: 240px;
  max-height: 240px;
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1; }

.md-card-media-actions .md-card-actions {
  margin-left: 16px;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-direction: column;
      flex-direction: column;
  -webkit-box-pack: start;
  -ms-flex-pack: start;
      justify-content: flex-start;
  -webkit-box-align: center;
  -ms-flex-align: center;
      align-items: center; }

.md-card-media-actions .md-card-actions .md-button + .md-button {
  margin: 8px 0 0; }

.md-card-media-cover {
  position: relative;
  color: #fff; }

.md-card-media-cover.md-solid .md-card-area {
  background-color: rgba(0, 0, 0, 0.54); }

.md-card-media-cover.md-text-scrim .md-card-backdrop {
  position: absolute;
  top: 0;
```

```
  right: 0;
  bottom: 0;
  left: 0;
  z-index: 1; }

.md-card-media-cover .md-card-area {
  position: absolute;
  right: 0;
  bottom: 0;
  left: 0;
  z-index: 2; }

.md-card-media-cover .md-card-area, .md-card-media-cover .md-card-header {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-direction: column;
      flex-direction: column; }

.md-card-media-cover .md-card-header + .md-card-actions {
  padding-top: 0; }

.md-card-media-cover .md-subhead {
  opacity: 1; }

.md-card-media-cover .md-card-actions .md-button:not(.md-primary):not(.md-accent), .md-card-
          media-cover .md-card-actions .md-button:not(.md-primary):not(.md-accent).md-icon-
          button .md-icon, .md-card-media-cover .md-card-header .md-button:not(.md-
          primary):not(.md-accent), .md-card-media-cover .md-card-header .md-button:not(.md-
          primary):not(.md-accent).md-icon-button .md-icon {
  color: #fff !important; }

.md-card-content {
  padding: 16px;
  font-size: 14px;
  line-height: 22px; }

.md-card-content:last-of-type {
  padding-bottom: 24px; }

.md-card-expand {
  overflow: hidden; }

.md-card-expand .md-card-actions {
```

```
  position: relative;
  z-index: 2; }

.md-card-expand .md-card-expand-content {
  position: relative;
  z-index: 1; }

.md-card-expand-trigger.md-icon-button {
  transition: -webkit-transform 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  -webkit-transition: -webkit-transform 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: transform 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: transform 0.4s cubic-bezier(0.25, 0.8, 0.25, 1), -webkit-transform 0.4s cubic-
          bezier(0.25, 0.8, 0.25, 1);
  will-change: transform; }

.md-card-expand-content {
  overflow: hidden;
  -webkit-transform: translate3D(0, 0, 0);
  transform: translate3D(0, 0, 0);
  -webkit-transition: 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  -webkit-transition-property: opacity,margin-top;
  transition-property: opacity,margin-top;
  will-change: opacity,margin-top; }

.md-card-actions {
  padding: 8px;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: center;
  -ms-flex-align: center;
      align-items: center; }

.md-card-actions.md-alignment-right {
  -webkit-box-pack: end;
  -ms-flex-pack: end;
      justify-content: flex-end; }

.md-card-actions.md-alignment-left {
  -webkit-box-pack: start;
  -ms-flex-pack: start;
      justify-content: flex-start; }

.md-card-actions.md-alignment-space-between {
  -webkit-box-pack: justify;
```

```
  -ms-flex-pack: justify;
      justify-content: space-between; }

.md-card-actions .md-button {
  margin: 0; }

.md-card-actions .md-button:first-child {
  margin-left: 0; }

.md-card-actions .md-button:last-child {
  margin-right: 0; }

.md-card-actions .md-button + .md-button {
  margin-left: 4px; }

.md-checkbox {
  width: auto;
  margin: 16px 16px 16px 0;
  display: -webkit-inline-box;
  display: -ms-inline-flexbox;
  display: inline-flex;
  position: relative; }

.md-checkbox:not(.md-disabled), .md-checkbox:not(.md-disabled) .md-checkbox-label {
  cursor: pointer; }

.md-checkbox .md-checkbox-container {
  width: 20px;
  min-width: 20px;
  height: 20px;
  position: relative;
  border-radius: 2px;
  border: 2px solid transparent;
  -webkit-transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1); }

.md-checkbox .md-checkbox-container:focus {
  outline: none; }

.md-checkbox .md-checkbox-container:after, .md-checkbox .md-checkbox-container:before {
  position: absolute;
  -webkit-transition: 0.4s cubic-bezier(0.55, 0, 0.55, 0.2);
  transition: 0.4s cubic-bezier(0.55, 0, 0.55, 0.2);
  content: " "; }

.md-checkbox .md-checkbox-container:before {
```

```
  width: 48px;
  height: 48px;
  top: 50%;
  left: 50%;
  z-index: 5;
  border-radius: 50%;
  -webkit-transform: translate(-50%, -50%);
  transform: translate(-50%, -50%); }

.md-checkbox .md-checkbox-container:after {
  width: 6px;
  height: 13px;
  top: 0;
  left: 5px;
  z-index: 6;
  border: 2px solid transparent;
  border-top: 0;
  border-left: 0;
  opacity: 0;
  -webkit-transform: rotate(45deg) scale3D(0.15, 0.15, 1);
  transform: rotate(45deg) scale3D(0.15, 0.15, 1); }

.md-checkbox .md-checkbox-container .md-ripple {
  width: 48px !important;
  height: 48px !important;
  top: 50% !important;
  left: 50% !important;
  -webkit-transform: translate(-50%, -50%);
  transform: translate(-50%, -50%);
  border-radius: 50%; }

.md-checkbox .md-checkbox-container input {
  position: absolute;
  left: -999em; }

.md-checkbox .md-checkbox-label {
  height: 20px;
  padding-left: 16px;
  position: relative;
  line-height: 20px; }

.md-checkbox.md-checked .md-checkbox-container:after {
  opacity: 1;
  -webkit-transform: rotate(45deg) scale3D(1, 1, 1);
  transform: rotate(45deg) scale3D(1, 1, 1);
  -webkit-transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
```

```
  transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1); }

.md-checkbox.md-disabled.md-checked .md-checkbox-container {
  border-color: transparent !important; }

.md-checkbox.md-required label:after {
  position: absolute;
  top: 2px;
  right: 0;
  -webkit-transform: translateX(calc(100% + 2px));
  transform: translateX(calc(100% + 2px));
  content: "*";
  line-height: 1em;
  vertical-align: top; }

.md-chips.md-field {
  padding-top: 12px;
  -ms-flex-wrap: wrap;
      flex-wrap: wrap; }

.md-chips.md-field.md-has-value label {
  top: -6px; }

.md-chips.md-field .md-chip {
  margin-bottom: 4px; }

.md-chips.md-field .md-chip:last-of-type {
  margin-right: 8px; }

.md-chips.md-field .md-input {
  min-width: 128px; }

.md-field {
  width: 100%;
  min-height: 48px;
  margin: 4px 0 24px;
  padding-top: 16px;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  position: relative;
  font-family: inherit; }

.md-field:after, .md-field:before {
  position: absolute;
  bottom: 0;
```

```
  right: 0;
  left: 0;
  z-index: 1;
  transition: border 0.3s cubic-bezier(0.4, 0, 0.2, 1), opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1), -
        webkit-transform 0s cubic-bezier(0.4, 0, 0.2, 1) 0.3s;
  -webkit-transition: border 0.3s cubic-bezier(0.4, 0, 0.2, 1), opacity 0.3s cubic-bezier(0.4, 0, 0.2,
        1), -webkit-transform 0s cubic-bezier(0.4, 0, 0.2, 1) 0.3s;
  transition: border 0.3s cubic-bezier(0.4, 0, 0.2, 1), opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1),
        transform 0s cubic-bezier(0.4, 0, 0.2, 1) 0.3s;
  transition: border 0.3s cubic-bezier(0.4, 0, 0.2, 1), opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1),
        transform 0s cubic-bezier(0.4, 0, 0.2, 1) 0.3s, -webkit-transform 0s cubic-bezier(0.4, 0,
        0.2, 1) 0.3s;
  will-change: border,opacity,transform;
  content: " "; }

.md-field:after {
  height: 1px; }

.md-field:before {
  height: 2px;
  z-index: 2;
  opacity: 0;
  -webkit-transform: scaleX(0.12);
  transform: scaleX(0.12); }

.md-field label {
  position: absolute;
  top: 23px;
  left: 0;
  pointer-events: none;
  -webkit-transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  -webkit-transition-duration: .3s;
        transition-duration: .3s;
  font-size: 16px;
  line-height: 20px; }

.md-field .md-input, .md-field .md-textarea {
  width: 100%;
  height: 32px;
  padding: 0;
  display: block;
  -webkit-box-flex: 1;
  -ms-flex: 1;
     flex: 1;
  border: none;
```

```
  background: none;
  -webkit-transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  -webkit-transition-property: font-size,padding-top,color;
  transition-property: font-size,padding-top,color;
  font-family: inherit;
  font-size: 1px;
  line-height: 32px; }

.md-field .md-input[type=date], .md-field .md-textarea[type=date] {
  font-size: 16px; }

.md-field .md-input[disabled], .md-field .md-textarea[disabled] {
  cursor: default; }

.md-field .md-input:focus, .md-field .md-textarea:focus {
  outline: none; }

.md-field .md-input::-webkit-input-placeholder, .md-field .md-textarea::-webkit-input-
        placeholder {
  font-size: 16px;
  text-shadow: none;
  -webkit-text-fill-color: initial;
  -webkit-transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  -webkit-transition-property: font-size,color;
  transition-property: font-size,color; }

.md-field .md-textarea {
  min-height: 32px;
  max-height: 230px;
  padding: 5px 0;
  resize: none;
  line-height: 1.3em; }

.md-field .md-count, .md-field .md-error, .md-field .md-helper-text {
  height: 20px;
  position: absolute;
  bottom: -22px;
  font-size: 12px;
  -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1); }

.md-field .md-error {
  display: block !important;
  left: 0;
```

```
  opacity: 0;
  -webkit-transform: translate3d(0, -8px, 0);
  transform: translate3d(0, -8px, 0); }

.md-field .md-count {
  right: 0; }

.md-field .md-input-action {
  width: 32px;
  min-width: 32px;
  height: 32px;
  margin: 0;
  position: absolute;
  top: 16px;
  right: 0;
  -webkit-transition: 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.4s cubic-bezier(0.4, 0, 0.2, 1); }

.md-field .md-input-action.md-input-action-enter-active, .md-field .md-input-action.md-input-
        action-leave-active {
  opacity: 0; }

.md-field .md-input-action.md-input-action-enter-to {
  opacity: 1; }

.md-field > .md-icon {
  margin: 4px auto;
  position: relative;
  z-index: 3;
  -webkit-transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1); }

.md-field > .md-icon:last-of-type:not(:first-child):after {
  display: none; }

.md-field > .md-icon:after {
  width: 37px;
  height: 4px;
  position: absolute;
  left: -1px;
  bottom: -5px;
  -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  content: ""; }

.md-field > .md-icon ~ label {
```

```
  left: 36px; }

.md-field > .md-icon ~ .md-file, .md-field > .md-icon ~ .md-input, .md-field > .md-icon ~ .md-
        textarea {
  margin-left: 12px; }

.md-field + .md-has-textarea:not(.md-autogrow) {
  margin-top: 36px; }

.md-field.md-has-placeholder label {
  pointer-events: auto;
  top: 10px;
  opacity: 0;
  font-size: 12px; }

.md-field.md-has-placeholder .md-input, .md-field.md-has-placeholder .md-textarea {
  font-size: 16px; }

.md-field.md-has-textarea:not(.md-autogrow):after, .md-field.md-has-textarea:not(.md-
        autogrow):before {
  height: auto;
  pointer-events: none;
  top: 0;
  bottom: 0;
  -webkit-transform: none;
  transform: none;
  background: none !important;
  border: 1px solid transparent;
  border-radius: 3px; }

.md-field.md-has-textarea:not(.md-autogrow):before {
  border-width: 2px; }

.md-field.md-has-textarea:not(.md-autogrow) label {
  top: 16px;
  left: 16px; }

.md-field.md-has-textarea:not(.md-autogrow) .md-textarea {
  min-height: 100px;
  padding: 0 16px;
  resize: vertical; }

.md-field.md-has-textarea:not(.md-autogrow) > .md-icon {
  position: absolute;
  top: 6px;
  right: 6px;
```

```
  z-index: 3; }

.md-field.md-has-textarea:not(.md-autogrow) .md-count {
  right: 6px;
  bottom: 2px; }

.md-field.md-has-textarea:not(.md-autogrow) .md-clear {
  top: 6px;
  right: 6px; }

.md-field.md-has-textarea:not(.md-autogrow).md-focused label, .md-field.md-has-
        textarea:not(.md-autogrow).md-has-value label {
  top: 6px; }

.md-field.md-has-textarea:not(.md-autogrow).md-focused .md-textarea, .md-field.md-has-
        textarea:not(.md-autogrow).md-has-value .md-textarea {
  padding-top: 10px; }

.md-field.md-has-file:after, .md-field.md-has-file:before, .md-field.md-has-file label {
  left: 36px; }

.md-field.md-has-file .md-input {
  margin-left: 12px; }

.md-field.md-focused:before, .md-field.md-highlight:before {
  opacity: 1;
  -webkit-transform: scaleX(1);
  transform: scaleX(1);
  -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition-property: border,opacity,-webkit-transform;
  -webkit-transition-property: border,opacity,-webkit-transform;
  transition-property: border,opacity,transform;
  transition-property: border,opacity,transform,-webkit-transform; }

.md-field.md-focused label, .md-field.md-has-value label {
  pointer-events: auto;
  top: 0;
  opacity: 1;
  font-size: 12px; }

.md-field.md-focused .md-input, .md-field.md-focused .md-textarea, .md-field.md-has-
        value .md-input, .md-field.md-has-value .md-textarea {
  font-size: 16px; }

.md-field.md-inline label {
```

```
  pointer-events: none; }

.md-field.md-inline.md-focused label {
  top: 23px;
  font-size: 16px; }

.md-field.md-inline.md-has-value label {
  opacity: 0; }

.md-field.md-disabled:after {
  background: 0 100% repeat-x;
  background-size: 4px 1px; }

.md-field.md-has-password .md-toggle-password {
  margin: 0;
  position: absolute;
  right: 0;
  bottom: -2px; }

.md-field.md-has-password .md-toggle-password svg {
  width: 22px;
  height: 22px; }

.md-field.md-clearable .md-input {
  padding-right: 30px; }

@-webkit-keyframes a {
  10%, 90% {
    -webkit-transform: translate3d(-1px, 0, 0);
    transform: translate3d(-1px, 0, 0); }
  30%, 70% {
    -webkit-transform: translate3d(-4px, 0, 0);
    transform: translate3d(-4px, 0, 0); }
  40%, 60% {
    -webkit-transform: translate3d(4px, 0, 0);
    transform: translate3d(4px, 0, 0); } }

@keyframes a {
  10%, 90% {
    -webkit-transform: translate3d(-1px, 0, 0);
    transform: translate3d(-1px, 0, 0); }
  30%, 70% {
    -webkit-transform: translate3d(-4px, 0, 0);
    transform: translate3d(-4px, 0, 0); }
  40%, 60% {
    -webkit-transform: translate3d(4px, 0, 0);
```

```
    transform: translate3d(4px, 0, 0); } }

.md-field.md-invalid.md-has-value label:not(:focus) {
  -webkit-animation: a 0.4s cubic-bezier(0.4, 0, 0.2, 1) both;
  animation: a 0.4s cubic-bezier(0.4, 0, 0.2, 1) both;
  -webkit-backface-visibility: hidden;
  backface-visibility: hidden;
  -webkit-perspective: 1000px;
  perspective: 1000px; }

.md-field.md-invalid.md-has-textarea:not(.md-autogrow):before {
  border-width: 2px; }

.md-field.md-invalid .md-error {
  opacity: 1;
  -webkit-transform: translateZ(0);
  transform: translateZ(0); }

.md-field.md-invalid .md-helper-text {
  opacity: 0;
  -webkit-transform: translate3d(0, -8px, 0);
  transform: translate3d(0, -8px, 0); }

.md-field.md-required label:after {
  position: absolute;
  top: 2px;
  right: 0;
  -webkit-transform: translateX(calc(100% + 2px));
  transform: translateX(calc(100% + 2px));
  content: "*";
  line-height: 1em;
  vertical-align: top; }

.md-icon {
  width: 24px;
  min-width: 24px;
  height: 24px;
  font-size: 24px !important;
  margin: auto;
  display: -webkit-inline-box;
  display: -ms-inline-flexbox;
  display: inline-flex;
  -webkit-user-select: none;
  -moz-user-select: none;
  -ms-user-select: none;
  user-select: none;
```

```
  -webkit-box-align: center;
  -ms-flex-align: center;
      align-items: center;
  -webkit-box-pack: center;
  -ms-flex-pack: center;
      justify-content: center;
  vertical-align: middle; }

.md-icon.md-size-2x {
  width: 48px;
  min-width: 48px;
  height: 48px;
  font-size: 48px !important; }

.md-icon.md-size-3x {
  width: 72px;
  min-width: 72px;
  height: 72px;
  font-size: 72px !important; }

.md-icon.md-size-4x {
  width: 96px;
  min-width: 96px;
  height: 96px;
  font-size: 96px !important; }

.md-icon.md-size-5x {
  width: 120px;
  min-width: 120px;
  height: 120px;
  font-size: 120px !important; }

.md-icon-image svg {
  height: 100%;
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1;
  -webkit-transition: fill 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  transition: fill 0.4s cubic-bezier(0.4, 0, 0.2, 1); }

.md-icon {
  -webkit-transition: color 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  transition: color 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  direction: ltr;
  font-family: Material Icons;
  -webkit-font-feature-settings: "liga";
```

```
  font-feature-settings: "liga";
  font-style: normal;
  letter-spacing: normal;
  line-height: 1;
  text-rendering: optimizeLegibility;
  text-transform: none;
  word-wrap: normal;
  white-space: nowrap;
  -webkit-font-smoothing: antialiased;
  -moz-osx-font-smoothing: grayscale; }

.md-svg-loader {
  display: block; }

.md-svg-loader svg {
  width: 100%; }

.md-chip {
  height: 32px;
  padding: 0 12px;
  display: inline-block;
  cursor: default;
  border-radius: 32px;
  -webkit-transition: 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition-property: background-color,color,opacity,box-shadow,-webkit-transform;
  -webkit-transition-property: background-color,color,opacity,-webkit-transform,-webkit-box-
        shadow;
  transition-property: background-color,color,opacity,-webkit-transform,-webkit-box-shadow;
  transition-property: background-color,color,opacity,transform,box-shadow;
  transition-property: background-color,color,opacity,transform,box-shadow,-webkit-transform,-
        webkit-box-shadow;
  transition-property: background-color,color,opacity,transform,box-shadow,-webkit-transform;
  will-change: background-color,color,opacity,transform,box-shadow;
  font-size: 13px;
  line-height: 32px;
  vertical-align: middle;
  white-space: nowrap; }

.md-chip:focus {
  outline: none; }

.md-chip.md-chip-enter-active, .md-chip.md-chip-leave-active {
  opacity: 0;
  -webkit-transform: transformZ(0) scale(0.8);
  transform: transformZ(0) scale(0.8); }
```

```
.md-chip.md-chip-enter-to {
  opacity: 1;
  -webkit-transform: transformZ(0) scale(1);
  transform: transformZ(0) scale(1); }

.md-chip.md-clickable:not(.md-disabled):active, .md-chip.md-deletable:not(.md-
        disabled):active, .md-chip.md-focused {
  -webkit-box-shadow: 0 3px 3px -2px rgba(0, 0, 0, 0.2), 0 3px 4px 0 rgba(0, 0, 0, 0.14), 0 1px
        8px 0 rgba(0, 0, 0, 0.12);
       box-shadow: 0 3px 3px -2px rgba(0, 0, 0, 0.2), 0 3px 4px 0 rgba(0, 0, 0, 0.14), 0 1px 8px 0
        rgba(0, 0, 0, 0.12); }

.md-chip.md-clickable {
  padding: 0;
  cursor: pointer; }

.md-chip.md-clickable > .md-ripple {
  padding: 0 12px; }

.md-chip.md-deletable {
  padding-right: 32px;
  position: relative; }

.md-chip.md-deletable.md-clickable {
  padding-right: 0; }

.md-chip.md-deletable.md-clickable > .md-ripple {
  padding-right: 32px; }

.md-chip.md-disabled {
  cursor: default; }

.md-chip + .md-chip {
  margin-left: 4px; }

.md-chip .md-button.md-input-action {
  width: 18px;
  min-width: 18px;
  height: 18px;
  margin: 0;
  position: absolute;
  top: 50%;
  right: 7px;
  z-index: 5;
  -webkit-transform: translate3D(0, -50%, 0);
```

```
  transform: translate3D(0, -50%, 0);
  -webkit-transition-duration: .3s;
          transition-duration: .3s;
  -webkit-transition-timing-function: cubic-bezier(0.25, 0.8, 0.25, 1);
          transition-timing-function: cubic-bezier(0.25, 0.8, 0.25, 1);
  font-size: 18px; }

.md-chip .md-button.md-input-action .md-ripple {
  padding: 0; }

.md-chip .md-button.md-input-action .md-button-content {
  height: 14px; }

.md-chip .md-button.md-input-action .md-icon {
  width: 14px;
  min-width: 14px;
  height: 14px;
  font-size: 14px !important;
  vertical-align: top; }

.md-chip .md-button.md-input-action .md-icon svg {
  -webkit-transition-duration: .3s;
          transition-duration: .3s;
  -webkit-transition-timing-function: cubic-bezier(0.25, 0.8, 0.25, 1);
          transition-timing-function: cubic-bezier(0.25, 0.8, 0.25, 1); }

.md-datepicker-overlay {
  opacity: 0; }

.md-datepicker .md-date-icon {
  cursor: pointer; }

.md-datepicker input[type=date]::-webkit-calendar-picker-indicator, .md-datepicker
          input[type=date]::-webkit-clear-button, .md-datepicker input[type=date]::-webkit-inner-
          spin-button {
  display: none; }

@media (max-width: 600px) {
  .md-datepicker-overlay {
    opacity: 1; } }

.md-overlay {
  position: absolute;
  top: 0;
  right: 0;
  bottom: 0;
```

```
  left: 0;
  z-index: 4;
  overflow: hidden;
  background: rgba(0, 0, 0, 0.6);
  -webkit-transition: 0.35s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.35s cubic-bezier(0.4, 0, 0.2, 1);
  -webkit-transition-property: opacity;
  transition-property: opacity;
  will-change: opacity; }

.md-overlay.md-fixed, body > .md-overlay {
  position: fixed; }

.md-overlay-enter, .md-overlay-leave-active {
  opacity: 0; }

.md-datepicker-dialog {
  -webkit-box-shadow: 0 11px 15px -7px rgba(0, 0, 0, 0.2), 0 24px 38px 3px rgba(0, 0, 0, 0.14),
          0 9px 46px 8px rgba(0, 0, 0, 0.12);
        box-shadow: 0 11px 15px -7px rgba(0, 0, 0, 0.2), 0 24px 38px 3px rgba(0, 0, 0, 0.14), 0
          9px 46px 8px rgba(0, 0, 0, 0.12);
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  overflow: hidden;
  z-index: 10;
  border-radius: 2px;
  -webkit-backface-visibility: hidden;
  backface-visibility: hidden;
  pointer-events: auto;
  -webkit-transform-origin: top left;
  transform-origin: top left;
  transition: opacity 0.2s cubic-bezier(0.25, 0.8, 0.25, 1), -webkit-transform 0.35s cubic-
          bezier(0.25, 0.8, 0.25, 1);
  -webkit-transition: opacity 0.2s cubic-bezier(0.25, 0.8, 0.25, 1), -webkit-transform 0.35s cubic-
          bezier(0.25, 0.8, 0.25, 1);
  transition: opacity 0.2s cubic-bezier(0.25, 0.8, 0.25, 1), transform 0.35s cubic-bezier(0.25, 0.8,
          0.25, 1);
  transition: opacity 0.2s cubic-bezier(0.25, 0.8, 0.25, 1), transform 0.35s cubic-bezier(0.25, 0.8,
          0.25, 1), -webkit-transform 0.35s cubic-bezier(0.25, 0.8, 0.25, 1);
  will-change: opacity,transform,left,top; }

.md-datepicker-dialog-leave-active {
  opacity: 0; }

.md-datepicker-dialog-enter {
```

```
  opacity: 0;
  -webkit-transform: scale(0.9);
  transform: scale(0.9); }

.md-datepicker-dialog-enter .md-datepicker-body .md-datepicker-calendar {
  opacity: 0;
  -webkit-transform: translate3D(0, 10%, 0);
  transform: translate3D(0, 10%, 0); }

.md-datepicker-header {
  min-width: 150px;
  padding: 16px; }

.md-datepicker-header .md-datepicker-year-select {
  cursor: pointer;
  opacity: .54;
  -webkit-transition: opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  font-size: 16px;
  font-weight: 700;
  letter-spacing: .01em;
  line-height: 24px; }

.md-datepicker-header .md-datepicker-date-select {
  cursor: pointer;
  opacity: .54;
  -webkit-transition: opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  font-size: 32px;
  font-weight: 900;
  letter-spacing: 0;
  line-height: 1.2em; }

.md-datepicker-header .md-datepicker-dayname {
  display: block; }

.md-datepicker-header .md-selected {
  opacity: 1; }

.md-datepicker-body {
  width: 320px;
  position: relative;
  overflow: hidden;
  -webkit-transition: width 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: width 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  will-change: width; }
```

```
.md-datepicker-body .md-button {
  margin: 0; }

.md-datepicker-body-header {
  padding: 8px;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: center;
  -ms-flex-align: center;
     align-items: center;
  -webkit-box-pack: justify;
  -ms-flex-pack: justify;
     justify-content: space-between;
  position: absolute;
  top: 0;
  right: 0;
  left: 0;
  pointer-events: none; }

.md-datepicker-body-header:after, .md-datepicker-body-header:before {
  width: 48px;
  height: 48px;
  position: absolute;
  top: 0;
  z-index: 2;
  pointer-events: none;
  content: " "; }

.md-datepicker-body-header:after {
  left: 0; }

.md-datepicker-body-header:before {
  right: 0; }

.md-datepicker-body-header .md-button {
  pointer-events: auto;
  z-index: 3; }

.md-datepicker-body-header-enter .md-button:first-child, .md-datepicker-body-header-leave-
          active .md-button:first-child {
  -webkit-transform: translate3d(-150%, 0, 0);
  transform: translate3d(-150%, 0, 0); }
```

```
.md-datepicker-body-header-enter .md-button:last-child, .md-datepicker-body-header-leave-
        active .md-button:last-child {
  -webkit-transform: translate3d(150%, 0, 0);
  transform: translate3d(150%, 0, 0); }

.md-datepicker-body-content {
  overflow: hidden;
  -webkit-transition: height 0.35s cubic-bezier(0.4, 0, 0.2, 1);
  transition: height 0.35s cubic-bezier(0.4, 0, 0.2, 1);
  will-change: height; }

.md-datepicker-panel {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  position: absolute;
  top: 0;
  right: 0;
  bottom: 0;
  left: 0;
  -webkit-transition: 0.35s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.35s cubic-bezier(0.4, 0, 0.2, 1);
  transition-property: opacity,-webkit-transform;
  -webkit-transition-property: opacity,-webkit-transform;
  transition-property: transform,opacity;
  transition-property: transform,opacity,-webkit-transform;
  will-change: transform,opacity; }

.md-datepicker-calendar.md-datepicker-view-enter, .md-datepicker-calendar.md-datepicker-
        view-leave-active {
  -webkit-transform: translate3d(0, 100%, 0);
  transform: translate3d(0, 100%, 0); }

.md-datepicker-calendar.md-previous .md-datepicker-month-enter {
  -webkit-transform: translate3D(-100%, 0, 0);
  transform: translate3D(-100%, 0, 0); }

.md-datepicker-calendar.md-previous .md-datepicker-month-enter .md-datepicker-month-trigger
        {
  -webkit-transform: translate3D(-30%, 0, 0);
  transform: translate3D(-30%, 0, 0); }

.md-datepicker-calendar.md-next .md-datepicker-month-enter, .md-datepicker-calendar.md-
        previous .md-datepicker-month-leave-active {
  -webkit-transform: translate3D(100%, 0, 0);
  transform: translate3D(100%, 0, 0); }
```

```
.md-datepicker-calendar.md-next .md-datepicker-month-enter .md-datepicker-month-trigger {
  -webkit-transform: translate3D(30%, 0, 0);
  transform: translate3D(30%, 0, 0); }

.md-datepicker-calendar.md-next .md-datepicker-month-leave-active {
  -webkit-transform: translate3D(-100%, 0, 0);
  transform: translate3D(-100%, 0, 0); }

.md-datepicker-month {
  top: 8px;
  bottom: auto;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-direction: column;
      flex-direction: column;
  -webkit-transition: 0.35s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.35s cubic-bezier(0.4, 0, 0.2, 1);
  transition-property: opacity,-webkit-transform;
  -webkit-transition-property: opacity,-webkit-transform;
  transition-property: transform,opacity;
  transition-property: transform,opacity,-webkit-transform;
  will-change: transform,opacity; }

.md-datepicker-month .md-datepicker-month-trigger {
  min-height: 32px;
  margin: 0 46px 10px;
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1;
  border-radius: 0;
  transition: -webkit-transform 0.45s cubic-bezier(0.4, 0, 0.2, 1);
  -webkit-transition: -webkit-transform 0.45s cubic-bezier(0.4, 0, 0.2, 1);
  transition: transform 0.45s cubic-bezier(0.4, 0, 0.2, 1);
  transition: transform 0.45s cubic-bezier(0.4, 0, 0.2, 1), -webkit-transform 0.45s cubic-
          bezier(0.4, 0, 0.2, 1);
  will-change: transform; }

.md-datepicker-week {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: center;
  -ms-flex-align: center;
      align-items: center; }
```

```
.md-datepicker-week span {
  -webkit-box-flex: 1;
  -ms-flex: 1;
     flex: 1;
  font-size: 12px;
  text-align: center; }

.md-datepicker-days {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -ms-flex-wrap: wrap;
     flex-wrap: wrap; }

.md-datepicker-days .md-datepicker-day, .md-datepicker-days .md-datepicker-empty {
  margin: 1px 0;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: center;
  -ms-flex-align: center;
     align-items: center;
  -webkit-box-pack: center;
  -ms-flex-pack: center;
     justify-content: center;
  -webkit-box-flex: 0;
  -ms-flex: 0 1 14.28571%;
     flex: 0 1 14.28571%; }

.md-datepicker-days .md-datepicker-day-button {
  width: 30px;
  min-width: 30px;
  height: 30px;
  cursor: pointer;
  border-radius: 30px;
  -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  line-height: 30px;
  text-align: center; }

.md-datepicker-days .md-datepicker-selected, .md-datepicker-days .md-datepicker-today {
  font-weight: 700; }

.md-datepicker-days .md-datepicker-disabled {
  pointer-events: none; }
```

```
.md-datepicker-month-selector {
  padding: 6px 8px 10px;
  -ms-flex-wrap: wrap;
      flex-wrap: wrap;
  bottom: auto;
  -webkit-transition: 0.35s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.35s cubic-bezier(0.4, 0, 0.2, 1);
  transition-property: opacity,-webkit-transform;
  -webkit-transition-property: opacity,-webkit-transform;
  transition-property: transform,opacity;
  transition-property: transform,opacity,-webkit-transform;
  will-change: transform,opacity; }

.md-datepicker-month-selector.md-datepicker-view-enter, .md-datepicker-month-selector.md-
          datepicker-view-leave-active {
  -webkit-transform: translate3d(0, -100%, 0);
  transform: translate3d(0, -100%, 0); }

.md-datepicker-month-selector .md-datepicker-year-trigger {
  width: 100%;
  margin: 0 0 8px;
  -webkit-box-flex: 1;
  -ms-flex: 1 1 100%;
      flex: 1 1 100%; }

.md-datepicker-month-button, .md-datepicker-year-button {
  height: 36px;
  margin: 3px 0;
  cursor: pointer;
  -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  line-height: 36px;
  font-weight: 500;
  text-align: center;
  text-transform: uppercase; }

.md-datepicker-month-button {
  -webkit-box-flex: 1;
  -ms-flex: 1 1 33.3333%;
      flex: 1 1 33.3333%;
  border-radius: 2px;
  font-size: 13px; }

.md-datepicker-year-selector {
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
```

```
  -ms-flex-direction: column;
      flex-direction: column;
  overflow: auto;
  bottom: 52px;
  border-bottom: 1px solid; }

.md-datepicker-year-selector.md-datepicker-view-enter, .md-datepicker-year-selector.md-
          datepicker-view-leave-active {
  -webkit-transform: translate3d(0, -100%, 0);
  transform: translate3d(0, -100%, 0); }

.md-datepicker-year-selector .md-button {
  min-height: 36px; }

.md-datepicker-year-button {
  font-size: 16px; }

.md-datepicker-year-button.md-datepicker-selected {
  font-size: 24px; }

@media (max-width: 600px) {
  .md-datepicker-dialog {
    -webkit-box-orient: vertical;
    -webkit-box-direction: normal;
    -ms-flex-direction: column;
        flex-direction: column;
    top: 50% !important;
    left: 50% !important;
    -webkit-transform: translate3D(-50%, -50%, 0);
    transform: translate3D(-50%, -50%, 0);
    -webkit-transform-origin: center center;
    transform-origin: center center; }
  .md-datepicker-dialog-enter {
    -webkit-transform: translate3D(-50%, -50%, 0) scale(0.9);
    transform: translate3D(-50%, -50%, 0) scale(0.9); }
  .md-datepicker-header {
    min-width: auto;
    padding: 16px 20px; }
  .md-datepicker-header .md-datepicker-dayname {
    display: inline-block; }
  .md-datepicker-body {
    width: 296px; }
  .md-datepicker-month {
    padding: 0 6px; } }

.md-popover.md-rendering {
```

```
  opacity: 0;
  -webkit-transition: none !important;
  transition: none !important; }

.md-dialog {
  -webkit-box-shadow: 0 11px 15px -7px rgba(0, 0, 0, 0.2), 0 24px 38px 3px rgba(0, 0, 0, 0.14),
          0 9px 46px 8px rgba(0, 0, 0, 0.12);
        box-shadow: 0 11px 15px -7px rgba(0, 0, 0, 0.2), 0 24px 38px 3px rgba(0, 0, 0, 0.14), 0
          9px 46px 8px rgba(0, 0, 0, 0.12);
  min-width: 280px;
  max-width: 80%;
  max-height: 80%;
  margin: auto;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-flow: column;
     flex-flow: column;
  overflow: hidden;
  position: fixed;
  top: 50%;
  left: 50%;
  z-index: 10;
  border-radius: 2px;
  -webkit-backface-visibility: hidden;
  backface-visibility: hidden;
  pointer-events: auto;
  -webkit-transform: translate(-50%, -50%);
  transform: translate(-50%, -50%);
  -webkit-transform-origin: center center;
  transform-origin: center center;
  transition: opacity 0.15s cubic-bezier(0.25, 0.8, 0.25, 1), -webkit-transform 0.2s cubic-
          bezier(0.25, 0.8, 0.25, 1);
  -webkit-transition: opacity 0.15s cubic-bezier(0.25, 0.8, 0.25, 1), -webkit-transform 0.2s cubic-
          bezier(0.25, 0.8, 0.25, 1);
  transition: opacity 0.15s cubic-bezier(0.25, 0.8, 0.25, 1), transform 0.2s cubic-bezier(0.25, 0.8,
          0.25, 1);
  transition: opacity 0.15s cubic-bezier(0.25, 0.8, 0.25, 1), transform 0.2s cubic-bezier(0.25, 0.8,
          0.25, 1), -webkit-transform 0.2s cubic-bezier(0.25, 0.8, 0.25, 1);
  will-change: opacity,transform,left,top; }

.md-dialog > .md-dialog-actions, .md-dialog > .md-dialog-content, .md-dialog > .md-dialog-
          tabs, .md-dialog > .md-dialog-title {
```

```
  transition: opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1), -webkit-transform 0.25s cubic-bezier(0.4, 0,
        0.2, 1);
  -webkit-transition: opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1), -webkit-transform 0.25s cubic-
        bezier(0.4, 0, 0.2, 1);
  transition: opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1), transform 0.25s cubic-bezier(0.4, 0, 0.2, 1);
  transition: opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1), transform 0.25s cubic-bezier(0.4, 0, 0.2, 1), -
        webkit-transform 0.25s cubic-bezier(0.4, 0, 0.2, 1);
  will-change: opacity,transform; }

.md-dialog-enter-active, .md-dialog-leave-active {
  opacity: 0;
  -webkit-transform: translate(-50%, -50%) scale(0.9);
  transform: translate(-50%, -50%) scale(0.9); }

.md-dialog-enter-active > .md-dialog-actions, .md-dialog-enter-active > .md-dialog-content, .md-
        dialog-enter-active > .md-dialog-tabs, .md-dialog-enter-active > .md-dialog-title, .md-
        dialog-leave-active > .md-dialog-actions, .md-dialog-leave-active > .md-dialog-
        content, .md-dialog-leave-active > .md-dialog-tabs, .md-dialog-leave-active > .md-
        dialog-title {
  opacity: 0;
  -webkit-transform: scale(0.95) translate3D(0, 10%, 0);
  transform: scale(0.95) translate3D(0, 10%, 0); }

.md-dialog-container {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-flow: column;
      flex-flow: column; }

.md-dialog-container, .md-dialog-container .md-tabs {
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1; }

.md-dialog-container .md-tabs-navigation {
  padding: 0 12px; }

@media (max-width: 600px) {
  .md-dialog-container .md-tab {
    padding: 12px; }
  .md-dialog-fullscreen {
    max-width: 100%;
    max-height: 100%;
```

```
    position: fixed;
    top: 0;
    right: 0;
    bottom: 0;
    left: 0;
    border-radius: 0;
    -webkit-transform: none;
    transform: none; }
  .md-dialog-fullscreen.md-dialog-enter {
    opacity: 0;
    -webkit-transform: translate3D(0, 30%, 0);
    transform: translate3D(0, 30%, 0); }
  .md-dialog-fullscreen.md-dialog-leave-active {
    opacity: 0;
    -webkit-transform: translate3D(0, 0, 0);
    transform: translate3D(0, 0, 0); } }

.md-dialog-title {
  margin-bottom: 20px;
  padding: 24px 24px 0; }

.md-dialog-content {
  padding: 0 24px 24px;
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1;
  -ms-flex-preferred-size: auto;
      flex-basis: auto;
  overflow: auto;
  position: relative; }

.md-dialog-content:first-child {
  padding-top: 24px; }

.md-dialog-content p:first-child:not(:only-child) {
  margin-top: 0; }

.md-dialog-content p:last-child:not(:only-child) {
  margin-bottom: 0; }

.md-dialog-actions {
  min-height: 52px;
  padding: 8px 8px 8px 24px;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
```

```
  -webkit-box-align: center;
  -ms-flex-align: center;
     align-items: center;
  -webkit-box-pack: end;
  -ms-flex-pack: end;
     justify-content: flex-end;
  position: relative; }

.md-dialog-actions:before {
  height: 1px;
  position: absolute;
  top: -1px;
  right: 0;
  left: 0;
  content: " "; }

.md-dialog-actions .md-button {
  min-width: 64px;
  margin: 0; }

.md-dialog-actions .md-button + .md-button {
  margin-left: 8px; }

.md-divider {
  height: 1px;
  margin: 0;
  padding: 0;
  display: block;
  border: 0;
  -webkit-transition: margin-left 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: margin-left 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  will-change: margin-left; }

.md-divider.md-inset {
  margin-left: 72px; }

.md-drawer {
  position: absolute;
  top: 0;
  bottom: 0;
  left: 0;
  z-index: 7;
  -webkit-transform: translate3D(-100%, 0, 0);
  transform: translate3D(-100%, 0, 0);
  transition: -webkit-transform 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  -webkit-transition: -webkit-transform 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
```

```
  transition: transform 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: transform 0.4s cubic-bezier(0.25, 0.8, 0.25, 1), -webkit-transform 0.4s cubic-
        bezier(0.25, 0.8, 0.25, 1);
  will-change: transform,box-shadow;
  width: 400px;
  max-width: calc(100vw - 56px);
  overflow-x: hidden;
  overflow-y: auto; }

.md-drawer.md-right {
  right: 0;
  left: auto;
  -webkit-transform: translate3D(100%, 0, 0);
  transform: translate3D(100%, 0, 0); }

.md-drawer.md-fixed {
  position: fixed; }

.md-drawer.md-active {
  -webkit-transform: translate3D(0, 0, 0);
  transform: translate3D(0, 0, 0);
  -webkit-transition-timing-function: cubic-bezier(0.4, 0, 0.2, 1);
        transition-timing-function: cubic-bezier(0.4, 0, 0.2, 1); }

.md-drawer.md-temporary + .md-app-container .md-content {
  border-left: none; }

.md-drawer.md-temporary.md-active {
  -webkit-box-shadow: 0 8px 10px -5px rgba(0, 0, 0, 0.2), 0 16px 24px 2px rgba(0, 0, 0, 0.14), 0
        6px 30px 5px rgba(0, 0, 0, 0.12);
        box-shadow: 0 8px 10px -5px rgba(0, 0, 0, 0.2), 0 16px 24px 2px rgba(0, 0, 0, 0.14), 0 6px
        30px 5px rgba(0, 0, 0, 0.12); }

.md-drawer.md-persistent:not(.md-active) + .md-app-container .md-content {
  border-left: none; }

.md-drawer.md-persistent-mini {
  border-right: 1px solid;
  -webkit-transform: translate3D(0, 64px, 0);
  transform: translate3D(0, 64px, 0);
  -webkit-transition: 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition-property: width,-webkit-transform;
  -webkit-transition-property: width,-webkit-transform;
  transition-property: transform,width;
  transition-property: transform,width,-webkit-transform;
```

```
  will-change: transform,box-shadow; }

.md-drawer.md-persistent-mini.md-active + .md-app-container .md-content {
  border-left: none; }

.md-drawer.md-persistent-mini:not(.md-active) {
  width: 70px !important;
  z-index: 1;
  white-space: nowrap; }

.md-drawer.md-persistent-mini:not(.md-active) .md-toolbar {
  display: none; }

.md-drawer.md-persistent-mini:not(.md-active) .md-list-item-content {
  padding: 0 23px; }

.md-drawer.md-persistent-mini.md-active {
  position: relative;
  -webkit-transform: translate3D(0, 0, 0);
  transform: translate3D(0, 0, 0);
  white-space: normal; }

.md-drawer .md-list-item-container {
  font-size: 14px;
  text-transform: none; }

@media (max-width: 600px) {
  .md-drawer {
    width: 320px; }
  .md-drawer.md-active {
    -webkit-box-shadow: 0 8px 10px -5px rgba(0, 0, 0, 0.2), 0 16px 24px 2px rgba(0, 0, 0, 0.14),
          0 6px 30px 5px rgba(0, 0, 0, 0.12);
          box-shadow: 0 8px 10px -5px rgba(0, 0, 0, 0.2), 0 16px 24px 2px rgba(0, 0, 0, 0.14), 0
          6px 30px 5px rgba(0, 0, 0, 0.12); } }

@media (min-width: 600px) {
  .md-drawer:not(.md-temporary) ~ .md-overlay {
    background: none;
    pointer-events: none; }
  .md-drawer.md-permanent {
    position: relative;
    -webkit-transform: translate3D(0, 0, 0);
    transform: translate3D(0, 0, 0); }
  .md-drawer.md-permanent-full {
    z-index: 3; }
  .md-drawer.md-permanent-full .md-list {
```

```
    padding-top: 0; }
  .md-drawer.md-permanent-card, .md-drawer.md-permanent-clipped {
    z-index: 1; }
  .md-drawer.md-permanent-card {
    -webkit-box-shadow: 0 3px 1px -2px rgba(0, 0, 0, 0.2), 0 2px 2px 0 rgba(0, 0, 0, 0.14), 0 1px
          5px 0 rgba(0, 0, 0, 0.12);
          box-shadow: 0 3px 1px -2px rgba(0, 0, 0, 0.2), 0 2px 2px 0 rgba(0, 0, 0, 0.14), 0 1px 5px
          0 rgba(0, 0, 0, 0.12);
    overflow: auto;
    position: relative;
    border-radius: 2px;
    -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
    transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
    -webkit-transition-property: color,background-color;
    transition-property: color,background-color;
    will-change: color,background-color;
    margin: 8px;
    z-index: 1; } }

@media (min-width: 960px) {
  .md-drawer.md-permanent-card {
    margin: 16px; } }

@media (min-width: 1280px) {
  .md-drawer.md-permanent-card {
    margin: 24px; } }

.md-elevation-0 {
  -webkit-box-shadow: 0 0 0 0 rgba(0, 0, 0, 0.2), 0 0 0 0 rgba(0, 0, 0, 0.14), 0 0 0 0 rgba(0, 0, 0,
          0.12);
        box-shadow: 0 0 0 0 rgba(0, 0, 0, 0.2), 0 0 0 0 rgba(0, 0, 0, 0.14), 0 0 0 0 rgba(0, 0, 0,
          0.12); }

.md-elevation-1 {
  -webkit-box-shadow: 0 2px 1px -1px rgba(0, 0, 0, 0.2), 0 1px 1px 0 rgba(0, 0, 0, 0.14), 0 1px
          3px 0 rgba(0, 0, 0, 0.12);
        box-shadow: 0 2px 1px -1px rgba(0, 0, 0, 0.2), 0 1px 1px 0 rgba(0, 0, 0, 0.14), 0 1px 3px 0
          rgba(0, 0, 0, 0.12); }

.md-elevation-2 {
  -webkit-box-shadow: 0 3px 1px -2px rgba(0, 0, 0, 0.2), 0 2px 2px 0 rgba(0, 0, 0, 0.14), 0 1px
          5px 0 rgba(0, 0, 0, 0.12);
        box-shadow: 0 3px 1px -2px rgba(0, 0, 0, 0.2), 0 2px 2px 0 rgba(0, 0, 0, 0.14), 0 1px 5px 0
          rgba(0, 0, 0, 0.12); }

.md-elevation-3 {
```

```
  -webkit-box-shadow: 0 3px 3px -2px rgba(0, 0, 0, 0.2), 0 3px 4px 0 rgba(0, 0, 0, 0.14), 0 1px
          8px 0 rgba(0, 0, 0, 0.12);
        box-shadow: 0 3px 3px -2px rgba(0, 0, 0, 0.2), 0 3px 4px 0 rgba(0, 0, 0, 0.14), 0 1px 8px 0
          rgba(0, 0, 0, 0.12); }

.md-elevation-4 {
  -webkit-box-shadow: 0 2px 4px -1px rgba(0, 0, 0, 0.2), 0 4px 5px 0 rgba(0, 0, 0, 0.14), 0 1px
          10px 0 rgba(0, 0, 0, 0.12);
        box-shadow: 0 2px 4px -1px rgba(0, 0, 0, 0.2), 0 4px 5px 0 rgba(0, 0, 0, 0.14), 0 1px 10px
          0 rgba(0, 0, 0, 0.12); }

.md-elevation-5 {
  -webkit-box-shadow: 0 3px 5px -1px rgba(0, 0, 0, 0.2), 0 5px 8px 0 rgba(0, 0, 0, 0.14), 0 1px
          14px 0 rgba(0, 0, 0, 0.12);
        box-shadow: 0 3px 5px -1px rgba(0, 0, 0, 0.2), 0 5px 8px 0 rgba(0, 0, 0, 0.14), 0 1px 14px
          0 rgba(0, 0, 0, 0.12); }

.md-elevation-6 {
  -webkit-box-shadow: 0 3px 5px -1px rgba(0, 0, 0, 0.2), 0 6px 10px 0 rgba(0, 0, 0, 0.14), 0 1px
          18px 0 rgba(0, 0, 0, 0.12);
        box-shadow: 0 3px 5px -1px rgba(0, 0, 0, 0.2), 0 6px 10px 0 rgba(0, 0, 0, 0.14), 0 1px
          18px 0 rgba(0, 0, 0, 0.12); }

.md-elevation-7 {
  -webkit-box-shadow: 0 4px 5px -2px rgba(0, 0, 0, 0.2), 0 7px 10px 1px rgba(0, 0, 0, 0.14), 0
          2px 16px 1px rgba(0, 0, 0, 0.12);
        box-shadow: 0 4px 5px -2px rgba(0, 0, 0, 0.2), 0 7px 10px 1px rgba(0, 0, 0, 0.14), 0 2px
          16px 1px rgba(0, 0, 0, 0.12); }

.md-elevation-8 {
  -webkit-box-shadow: 0 5px 5px -3px rgba(0, 0, 0, 0.2), 0 8px 10px 1px rgba(0, 0, 0, 0.14), 0
          3px 14px 2px rgba(0, 0, 0, 0.12);
        box-shadow: 0 5px 5px -3px rgba(0, 0, 0, 0.2), 0 8px 10px 1px rgba(0, 0, 0, 0.14), 0 3px
          14px 2px rgba(0, 0, 0, 0.12); }

.md-elevation-9 {
  -webkit-box-shadow: 0 5px 6px -3px rgba(0, 0, 0, 0.2), 0 9px 12px 1px rgba(0, 0, 0, 0.14), 0
          3px 16px 2px rgba(0, 0, 0, 0.12);
        box-shadow: 0 5px 6px -3px rgba(0, 0, 0, 0.2), 0 9px 12px 1px rgba(0, 0, 0, 0.14), 0 3px
          16px 2px rgba(0, 0, 0, 0.12); }

.md-elevation-10 {
  -webkit-box-shadow: 0 6px 6px -3px rgba(0, 0, 0, 0.2), 0 10px 14px 1px rgba(0, 0, 0, 0.14), 0
          4px 18px 3px rgba(0, 0, 0, 0.12);
        box-shadow: 0 6px 6px -3px rgba(0, 0, 0, 0.2), 0 10px 14px 1px rgba(0, 0, 0, 0.14), 0 4px
          18px 3px rgba(0, 0, 0, 0.12); }
```

```
.md-elevation-11 {
  -webkit-box-shadow: 0 6px 7px -4px rgba(0, 0, 0, 0.2), 0 11px 15px 1px rgba(0, 0, 0, 0.14), 0
        4px 20px 3px rgba(0, 0, 0, 0.12);
       box-shadow: 0 6px 7px -4px rgba(0, 0, 0, 0.2), 0 11px 15px 1px rgba(0, 0, 0, 0.14), 0 4px
        20px 3px rgba(0, 0, 0, 0.12); }

.md-elevation-12 {
  -webkit-box-shadow: 0 7px 8px -4px rgba(0, 0, 0, 0.2), 0 12px 17px 2px rgba(0, 0, 0, 0.14), 0
        5px 22px 4px rgba(0, 0, 0, 0.12);
       box-shadow: 0 7px 8px -4px rgba(0, 0, 0, 0.2), 0 12px 17px 2px rgba(0, 0, 0, 0.14), 0 5px
        22px 4px rgba(0, 0, 0, 0.12); }

.md-elevation-13 {
  -webkit-box-shadow: 0 7px 8px -4px rgba(0, 0, 0, 0.2), 0 13px 19px 2px rgba(0, 0, 0, 0.14), 0
        5px 24px 4px rgba(0, 0, 0, 0.12);
       box-shadow: 0 7px 8px -4px rgba(0, 0, 0, 0.2), 0 13px 19px 2px rgba(0, 0, 0, 0.14), 0 5px
        24px 4px rgba(0, 0, 0, 0.12); }

.md-elevation-14 {
  -webkit-box-shadow: 0 7px 9px -4px rgba(0, 0, 0, 0.2), 0 14px 21px 2px rgba(0, 0, 0, 0.14), 0
        5px 26px 4px rgba(0, 0, 0, 0.12);
       box-shadow: 0 7px 9px -4px rgba(0, 0, 0, 0.2), 0 14px 21px 2px rgba(0, 0, 0, 0.14), 0 5px
        26px 4px rgba(0, 0, 0, 0.12); }

.md-elevation-15 {
  -webkit-box-shadow: 0 8px 9px -5px rgba(0, 0, 0, 0.2), 0 15px 22px 2px rgba(0, 0, 0, 0.14), 0
        6px 28px 5px rgba(0, 0, 0, 0.12);
       box-shadow: 0 8px 9px -5px rgba(0, 0, 0, 0.2), 0 15px 22px 2px rgba(0, 0, 0, 0.14), 0 6px
        28px 5px rgba(0, 0, 0, 0.12); }

.md-elevation-16 {
  -webkit-box-shadow: 0 8px 10px -5px rgba(0, 0, 0, 0.2), 0 16px 24px 2px rgba(0, 0, 0, 0.14), 0
        6px 30px 5px rgba(0, 0, 0, 0.12);
       box-shadow: 0 8px 10px -5px rgba(0, 0, 0, 0.2), 0 16px 24px 2px rgba(0, 0, 0, 0.14), 0 6px
        30px 5px rgba(0, 0, 0, 0.12); }

.md-elevation-17 {
  -webkit-box-shadow: 0 8px 11px -5px rgba(0, 0, 0, 0.2), 0 17px 26px 2px rgba(0, 0, 0, 0.14), 0
        6px 32px 5px rgba(0, 0, 0, 0.12);
       box-shadow: 0 8px 11px -5px rgba(0, 0, 0, 0.2), 0 17px 26px 2px rgba(0, 0, 0, 0.14), 0 6px
        32px 5px rgba(0, 0, 0, 0.12); }

.md-elevation-18 {
  -webkit-box-shadow: 0 9px 11px -5px rgba(0, 0, 0, 0.2), 0 18px 28px 2px rgba(0, 0, 0, 0.14), 0
        7px 34px 6px rgba(0, 0, 0, 0.12);
```

```
        box-shadow: 0 9px 11px -5px rgba(0, 0, 0, 0.2), 0 18px 28px 2px rgba(0, 0, 0, 0.14), 0 7px
          34px 6px rgba(0, 0, 0, 0.12); }

.md-elevation-19 {
  -webkit-box-shadow: 0 9px 12px -6px rgba(0, 0, 0, 0.2), 0 19px 29px 2px rgba(0, 0, 0, 0.14), 0
          7px 36px 6px rgba(0, 0, 0, 0.12);
        box-shadow: 0 9px 12px -6px rgba(0, 0, 0, 0.2), 0 19px 29px 2px rgba(0, 0, 0, 0.14), 0 7px
          36px 6px rgba(0, 0, 0, 0.12); }

.md-elevation-20 {
  -webkit-box-shadow: 0 10px 13px -6px rgba(0, 0, 0, 0.2), 0 20px 31px 3px rgba(0, 0, 0, 0.14),
          0 8px 38px 7px rgba(0, 0, 0, 0.12);
        box-shadow: 0 10px 13px -6px rgba(0, 0, 0, 0.2), 0 20px 31px 3px rgba(0, 0, 0, 0.14), 0
          8px 38px 7px rgba(0, 0, 0, 0.12); }

.md-elevation-21 {
  -webkit-box-shadow: 0 10px 13px -6px rgba(0, 0, 0, 0.2), 0 21px 33px 3px rgba(0, 0, 0, 0.14),
          0 8px 40px 7px rgba(0, 0, 0, 0.12);
        box-shadow: 0 10px 13px -6px rgba(0, 0, 0, 0.2), 0 21px 33px 3px rgba(0, 0, 0, 0.14), 0
          8px 40px 7px rgba(0, 0, 0, 0.12); }

.md-elevation-22 {
  -webkit-box-shadow: 0 10px 14px -6px rgba(0, 0, 0, 0.2), 0 22px 35px 3px rgba(0, 0, 0, 0.14),
          0 8px 42px 7px rgba(0, 0, 0, 0.12);
        box-shadow: 0 10px 14px -6px rgba(0, 0, 0, 0.2), 0 22px 35px 3px rgba(0, 0, 0, 0.14), 0
          8px 42px 7px rgba(0, 0, 0, 0.12); }

.md-elevation-23 {
  -webkit-box-shadow: 0 11px 14px -7px rgba(0, 0, 0, 0.2), 0 23px 36px 3px rgba(0, 0, 0, 0.14),
          0 9px 44px 8px rgba(0, 0, 0, 0.12);
        box-shadow: 0 11px 14px -7px rgba(0, 0, 0, 0.2), 0 23px 36px 3px rgba(0, 0, 0, 0.14), 0
          9px 44px 8px rgba(0, 0, 0, 0.12); }

.md-elevation-24 {
  -webkit-box-shadow: 0 11px 15px -7px rgba(0, 0, 0, 0.2), 0 24px 38px 3px rgba(0, 0, 0, 0.14),
          0 9px 46px 8px rgba(0, 0, 0, 0.12);
        box-shadow: 0 11px 15px -7px rgba(0, 0, 0, 0.2), 0 24px 38px 3px rgba(0, 0, 0, 0.14), 0
          9px 46px 8px rgba(0, 0, 0, 0.12); }

.md-empty-state {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-direction: column;
```

```
    flex-direction: column;
  -webkit-box-align: center;
  -ms-flex-align: center;
    align-items: center;
  -webkit-box-pack: center;
  -ms-flex-pack: center;
    justify-content: center;
  text-align: center;
  max-width: 420px;
  padding: 36px;
  margin: 0 auto;
  position: relative;
  transition: opacity 0.15s cubic-bezier(0, 0, 0.2, 1), -webkit-transform 0.3s cubic-bezier(0, 0, 0.2,
        1);
  -webkit-transition: opacity 0.15s cubic-bezier(0, 0, 0.2, 1), -webkit-transform 0.3s cubic-
        bezier(0, 0, 0.2, 1);
  transition: opacity 0.15s cubic-bezier(0, 0, 0.2, 1), transform 0.3s cubic-bezier(0, 0, 0.2, 1);
  transition: opacity 0.15s cubic-bezier(0, 0, 0.2, 1), transform 0.3s cubic-bezier(0, 0, 0.2, 1), -
        webkit-transform 0.3s cubic-bezier(0, 0, 0.2, 1);
  will-change: transform,opacity; }

.md-empty-state.md-rounded {
  max-width: auto;
  border-radius: 50%; }

.md-empty-state.md-rounded .md-empty-state-container {
  padding: 40px;
  position: absolute;
  top: 0;
  right: 0;
  bottom: 0;
  left: 0; }

.md-empty-state .md-button {
  margin: .5em 0 0; }

.md-empty-state-enter {
  opacity: 0;
  -webkit-transform: scale(0.87);
  transform: scale(0.87); }

.md-empty-state-enter .md-empty-state-container {
  opacity: 0; }

.md-empty-state-container {
  display: -webkit-box;
```

```
  display: -ms-flexbox;
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-direction: column;
     flex-direction: column;
  -webkit-box-align: center;
  -ms-flex-align: center;
     align-items: center;
  -webkit-box-pack: center;
  -ms-flex-pack: center;
     justify-content: center;
  text-align: center;
  -webkit-transition: opacity 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  transition: opacity 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  will-change: opacity; }

.md-empty-state-icon {
  width: 160px;
  min-width: 160px;
  height: 160px;
  font-size: 160px !important;
  margin: 0; }

.md-empty-state-label {
  font-size: 26px;
  font-weight: 500;
  line-height: 40px; }

.md-empty-state-description {
  margin: 1em 0;
  font-size: 16px;
  line-height: 24px; }

.md-menu.md-select {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-flex: 1;
  -ms-flex: 1;
     flex: 1; }

.md-menu.md-select:not(.md-disabled) .md-icon, .md-menu.md-select:not(.md-disabled) .md-
          input {
  cursor: pointer;
  outline: none; }
```

```
.md-menu.md-select .md-input {
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1; }

.md-menu.md-select .md-input-fake, .md-menu.md-select select {
  width: 1px;
  height: 1px;
  margin: -1px;
  padding: 0;
  overflow: hidden;
  position: absolute;
  clip: rect(0 0 0 0);
  border: 0; }

.md-menu-content.md-select-menu {
  width: 100%; }

.md-menu-content.md-select-menu.md-menu-content-enter {
  -webkit-transform: translate3d(0, -8px, 0) scaleY(0.3);
  transform: translate3d(0, -8px, 0) scaleY(0.3); }

.md-menu-content.md-select-menu .md-list {
  -webkit-transition: opacity 0.3s cubic-bezier(0.55, 0, 0.55, 0.2);
  transition: opacity 0.3s cubic-bezier(0.55, 0, 0.55, 0.2); }

.md-menu-content.md-select-menu .md-dense .md-ripple.md-list-item-content {
  font-size: 14px; }

.md-menu {
  display: inline-block; }

.md-menu > .md-button {
  margin: 0; }

.md-menu-content {
  -webkit-box-shadow: 0 5px 5px -3px rgba(0, 0, 0, 0.2), 0 8px 10px 1px rgba(0, 0, 0, 0.14), 0
          3px 14px 2px rgba(0, 0, 0, 0.12);
        box-shadow: 0 5px 5px -3px rgba(0, 0, 0, 0.2), 0 8px 10px 1px rgba(0, 0, 0, 0.14), 0 3px
          14px 2px rgba(0, 0, 0, 0.12);
  min-width: 112px;
  max-width: 280px;
  max-height: 35vh;
  display: -webkit-box;
  display: -ms-flexbox;
```

```
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-direction: column;
     flex-direction: column;
  position: absolute;
  z-index: 8;
  border-radius: 2px;
  transition: opacity 0.3s cubic-bezier(0.25, 0.8, 0.25, 1), -webkit-transform 0.2s cubic-
        bezier(0.25, 0.8, 0.25, 1);
  -webkit-transition: opacity 0.3s cubic-bezier(0.25, 0.8, 0.25, 1), -webkit-transform 0.2s cubic-
        bezier(0.25, 0.8, 0.25, 1);
  transition: transform 0.2s cubic-bezier(0.25, 0.8, 0.25, 1), opacity 0.3s cubic-bezier(0.25, 0.8,
        0.25, 1);
  transition: transform 0.2s cubic-bezier(0.25, 0.8, 0.25, 1), opacity 0.3s cubic-bezier(0.25, 0.8,
        0.25, 1), -webkit-transform 0.2s cubic-bezier(0.25, 0.8, 0.25, 1);
  will-change: opacity, transform, top, left !important; }

.md-menu-content.md-shallow {
  position: fixed !important;
  top: -9999em !important;
  left: -9999em !important;
  pointer-events: none; }

.md-menu-content.md-menu-content-enter-active {
  opacity: 1;
  -webkit-transform: translateZ(0);
  transform: translateZ(0); }

.md-menu-content.md-menu-content-leave-active {
  -webkit-transition: opacity 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  transition: opacity 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  opacity: 0; }

.md-menu-content.md-menu-content-enter.md-menu-content-top-start {
  -webkit-transform-origin: bottom left;
  transform-origin: bottom left;
  -webkit-transform: translate3d(0, 8px, 0) scaleY(0.95);
  transform: translate3d(0, 8px, 0) scaleY(0.95); }

.md-menu-content.md-menu-content-enter.md-menu-content-top-end {
  -webkit-transform-origin: bottom right;
  transform-origin: bottom right;
  -webkit-transform: translate3d(0, 8px, 0) scaleY(0.95);
  transform: translate3d(0, 8px, 0) scaleY(0.95); }
```

```
.md-menu-content.md-menu-content-enter.md-menu-content-right-start {
  -webkit-transform-origin: left top;
  transform-origin: left top;
  -webkit-transform: translate3d(0, -8px, 0) scaleY(0.95);
  transform: translate3d(0, -8px, 0) scaleY(0.95); }

.md-menu-content.md-menu-content-enter.md-menu-content-right-end {
  -webkit-transform-origin: left bottom;
  transform-origin: left bottom;
  -webkit-transform: translate3d(0, 8px, 0) scaleY(0.95);
  transform: translate3d(0, 8px, 0) scaleY(0.95); }

.md-menu-content.md-menu-content-enter.md-menu-content-bottom-start {
  -webkit-transform-origin: top left;
  transform-origin: top left;
  -webkit-transform: translate3d(0, -8px, 0) scaleY(0.95);
  transform: translate3d(0, -8px, 0) scaleY(0.95); }

.md-menu-content.md-menu-content-enter.md-menu-content-bottom-end {
  -webkit-transform-origin: top right;
  transform-origin: top right;
  -webkit-transform: translate3d(0, -8px, 0) scaleY(0.95);
  transform: translate3d(0, -8px, 0) scaleY(0.95); }

.md-menu-content.md-menu-content-enter.md-menu-content-left-start {
  -webkit-transform-origin: right top;
  transform-origin: right top;
  -webkit-transform: translate3d(0, -8px, 0) scaleY(0.95);
  transform: translate3d(0, -8px, 0) scaleY(0.95); }

.md-menu-content.md-menu-content-enter.md-menu-content-left-end {
  -webkit-transform-origin: right bottom;
  transform-origin: right bottom;
  -webkit-transform: translate3d(0, 8px, 0) scaleY(0.95);
  transform: translate3d(0, 8px, 0) scaleY(0.95); }

.md-menu-content.md-menu-content-enter .md-list {
  opacity: 0; }

.md-menu-content.md-menu-content-medium {
  min-width: 168px; }

.md-menu-content.md-menu-content-big {
  min-width: 224px; }

.md-menu-content.md-menu-content-huge {
```

```
  min-width: 280px; }

.md-menu-content-container {
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1;
  overflow: auto; }

.md-menu-content-container .md-list {
  -webkit-transition: opacity 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: opacity 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  will-change: opacity;
  font-family: Roboto,sans-serif;
  text-transform: none;
  white-space: nowrap; }

@media (max-width: 944px) {
  .md-menu-content-container .md-list {
    font-size: 14px; } }

.md-list {
  margin: 0;
  padding: 8px 0;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-flow: column nowrap;
      flex-flow: column nowrap;
  position: relative;
  list-style: none; }

.md-list.md-dense {
  padding: 4px 0; }

.md-list .md-divider {
  margin-top: -1px; }

.md-list .md-subheader.md-inset {
  padding-left: 72px; }

.md-list > .md-subheader:first-of-type {
  margin-top: -8px; }

.md-optgroup .md-subheader {
```

```
  text-transform: uppercase; }

.md-optgroup .md-ripple.md-list-item-content {
  padding-left: 24px; }

.md-file {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1; }

.md-file input[type=file] {
  width: 1px;
  height: 1px;
  margin: -1px;
  padding: 0;
  overflow: hidden;
  position: absolute;
  clip: rect(0 0 0 0);
  border: 0; }

.md-file .md-icon {
  cursor: pointer; }

.md-highlight-text {
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1; }

.md-highlight-text-match {
  font-weight: 500; }

.md-image {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-pack: center;
  -ms-flex-pack: center;
      justify-content: center;
  -webkit-box-align: center;
  -ms-flex-align: center;
      align-items: center; }

.md-layout {
```

```
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -ms-flex-wrap: wrap;
      flex-wrap: wrap; }

.md-layout .md-layout {
  -webkit-box-flex: 1;
      -ms-flex: 1;
          flex: 1; }

.md-layout .md-layout-nowrap {
  -ms-flex-wrap: nowrap;
      flex-wrap: nowrap; }

.md-layout.md-centered {
  width: 100%;
  max-width: 1200px;
  margin: 0 auto; }

.md-layout.md-gutter {
  margin-right: -20px;
  margin-left: -20px; }

.md-layout.md-gutter > .md-layout-item {
  padding-right: 20px;
  padding-left: 20px; }

@media (max-width: 1264px) {
  .md-layout.md-gutter {
    margin-right: -12px;
    margin-left: -12px; }
  .md-layout.md-gutter > .md-layout-item {
    padding-right: 12px;
    padding-left: 12px; } }

@media (max-width: 944px) {
  .md-layout.md-gutter {
    margin-right: -8px;
    margin-left: -8px; }
  .md-layout.md-gutter > .md-layout-item {
    padding-right: 8px;
    padding-left: 8px; } }

@media (max-width: 600px) {
  .md-layout.md-gutter {
```

```
    margin-right: -4px;
    margin-left: -4px; }
  .md-layout.md-gutter > .md-layout-item {
    padding-right: 4px;
    padding-left: 4px; } }

.md-layout.md-alignment-top-left {
  -webkit-box-pack: start;
     -ms-flex-pack: start;
         justify-content: flex-start;
  -webkit-box-align: start;
     -ms-flex-align: start;
         align-items: flex-start; }

.md-layout.md-alignment-top-center {
  -webkit-box-pack: center;
     -ms-flex-pack: center;
         justify-content: center;
  -webkit-box-align: start;
     -ms-flex-align: start;
         align-items: flex-start; }

.md-layout.md-alignment-top-right {
  -webkit-box-pack: end;
     -ms-flex-pack: end;
         justify-content: flex-end;
  -webkit-box-align: start;
     -ms-flex-align: start;
         align-items: flex-start; }

.md-layout.md-alignment-top-space-around {
  -ms-flex-pack: distribute;
     justify-content: space-around;
  -webkit-box-align: start;
     -ms-flex-align: start;
         align-items: flex-start; }

.md-layout.md-alignment-top-space-between {
  -webkit-box-pack: justify;
     -ms-flex-pack: justify;
         justify-content: space-between;
  -webkit-box-align: start;
     -ms-flex-align: start;
         align-items: flex-start; }

.md-layout.md-alignment-center-left {
```

```
  -webkit-box-pack: start;
     -ms-flex-pack: start;
         justify-content: flex-start;
  -webkit-box-align: center;
     -ms-flex-align: center;
         align-items: center; }

.md-layout.md-alignment-center, .md-layout.md-alignment-center-center {
  -webkit-box-pack: center;
     -ms-flex-pack: center;
         justify-content: center;
  -webkit-box-align: center;
     -ms-flex-align: center;
         align-items: center; }

.md-layout.md-alignment-center-right {
  -webkit-box-pack: end;
     -ms-flex-pack: end;
         justify-content: flex-end;
  -webkit-box-align: center;
     -ms-flex-align: center;
         align-items: center; }

.md-layout.md-alignment-center-space-around {
  -ms-flex-pack: distribute;
     justify-content: space-around;
  -webkit-box-align: center;
     -ms-flex-align: center;
         align-items: center; }

.md-layout.md-alignment-center-space-between {
  -webkit-box-pack: justify;
     -ms-flex-pack: justify;
         justify-content: space-between;
  -webkit-box-align: center;
     -ms-flex-align: center;
         align-items: center; }

.md-layout.md-alignment-bottom-left {
  -webkit-box-pack: start;
     -ms-flex-pack: start;
         justify-content: flex-start;
  -webkit-box-align: end;
     -ms-flex-align: end;
         align-items: flex-end; }
```

```
.md-layout.md-alignment-bottom-center {
  -webkit-box-pack: center;
     -ms-flex-pack: center;
         justify-content: center;
  -webkit-box-align: end;
     -ms-flex-align: end;
         align-items: flex-end; }

.md-layout.md-alignment-bottom-right {
  -webkit-box-pack: end;
     -ms-flex-pack: end;
         justify-content: flex-end;
  -webkit-box-align: end;
     -ms-flex-align: end;
         align-items: flex-end; }

.md-layout.md-alignment-bottom-space-around {
  -ms-flex-pack: distribute;
     justify-content: space-around;
  -webkit-box-align: end;
     -ms-flex-align: end;
         align-items: flex-end; }

.md-layout.md-alignment-bottom-space-between {
  -webkit-box-pack: justify;
     -ms-flex-pack: justify;
         justify-content: space-between;
  -webkit-box-align: end;
     -ms-flex-align: end;
         align-items: flex-end; }

.md-layout.md-alignment-space-around-left {
  -webkit-box-pack: start;
     -ms-flex-pack: start;
         justify-content: flex-start;
  -webkit-box-align: space-around;
     -ms-flex-align: space-around;
         align-items: space-around; }

.md-layout.md-alignment-space-around-center {
  -webkit-box-pack: center;
     -ms-flex-pack: center;
         justify-content: center;
  -webkit-box-align: space-around;
     -ms-flex-align: space-around;
         align-items: space-around; }
```

```
.md-layout.md-alignment-space-around-right {
  -webkit-box-pack: end;
     -ms-flex-pack: end;
         justify-content: flex-end;
  -webkit-box-align: space-around;
     -ms-flex-align: space-around;
         align-items: space-around; }

.md-layout.md-alignment-space-around-space-around {
  -ms-flex-pack: distribute;
     justify-content: space-around;
  -webkit-box-align: space-around;
     -ms-flex-align: space-around;
         align-items: space-around; }

.md-layout.md-alignment-space-around-space-between {
  -webkit-box-pack: justify;
     -ms-flex-pack: justify;
         justify-content: space-between;
  -webkit-box-align: space-around;
     -ms-flex-align: space-around;
         align-items: space-around; }

.md-layout.md-alignment-space-between-left {
  -webkit-box-pack: start;
     -ms-flex-pack: start;
         justify-content: flex-start;
  -webkit-box-align: space-between;
     -ms-flex-align: space-between;
         align-items: space-between; }

.md-layout.md-alignment-space-between-center {
  -webkit-box-pack: center;
     -ms-flex-pack: center;
         justify-content: center;
  -webkit-box-align: space-between;
     -ms-flex-align: space-between;
         align-items: space-between; }

.md-layout.md-alignment-space-between-right {
  -webkit-box-pack: end;
     -ms-flex-pack: end;
         justify-content: flex-end;
  -webkit-box-align: space-between;
     -ms-flex-align: space-between;
```

```
        align-items: space-between; }

.md-layout.md-alignment-space-between-space-around {
  -ms-flex-pack: distribute;
      justify-content: space-around;
  -webkit-box-align: space-between;
      -ms-flex-align: space-between;
          align-items: space-between; }

.md-layout.md-alignment-space-between-space-between {
  -webkit-box-pack: justify;
      -ms-flex-pack: justify;
          justify-content: space-between;
  -webkit-box-align: space-between;
      -ms-flex-align: space-between;
          align-items: space-between; }

.md-layout-item, .md-layout-item.md-size {
  -webkit-box-flex: 1;
      -ms-flex: 1 1;
          flex: 1 1; }

.md-layout-item.md-size-5 {
  min-width: 5%;
  max-width: 5%;
  -webkit-box-flex: 0;
      -ms-flex: 0 1 5%;
          flex: 0 1 5%; }

.md-layout-item.md-size-10 {
  min-width: 10%;
  max-width: 10%;
  -webkit-box-flex: 0;
      -ms-flex: 0 1 10%;
          flex: 0 1 10%; }

.md-layout-item.md-size-15 {
  min-width: 15%;
  max-width: 15%;
  -webkit-box-flex: 0;
      -ms-flex: 0 1 15%;
          flex: 0 1 15%; }

.md-layout-item.md-size-20 {
  min-width: 20%;
  max-width: 20%;
```

```
  -webkit-box-flex: 0;
     -ms-flex: 0 1 20%;
         flex: 0 1 20%; }

.md-layout-item.md-size-25 {
  min-width: 25%;
  max-width: 25%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 25%;
         flex: 0 1 25%; }

.md-layout-item.md-size-30 {
  min-width: 30%;
  max-width: 30%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 30%;
         flex: 0 1 30%; }

.md-layout-item.md-size-35 {
  min-width: 35%;
  max-width: 35%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 35%;
         flex: 0 1 35%; }

.md-layout-item.md-size-40 {
  min-width: 40%;
  max-width: 40%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 40%;
         flex: 0 1 40%; }

.md-layout-item.md-size-45 {
  min-width: 45%;
  max-width: 45%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 45%;
         flex: 0 1 45%; }

.md-layout-item.md-size-50 {
  min-width: 50%;
  max-width: 50%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 50%;
         flex: 0 1 50%; }
```

```
.md-layout-item.md-size-55 {
  min-width: 55%;
  max-width: 55%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 55%;
         flex: 0 1 55%; }

.md-layout-item.md-size-60 {
  min-width: 60%;
  max-width: 60%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 60%;
         flex: 0 1 60%; }

.md-layout-item.md-size-65 {
  min-width: 65%;
  max-width: 65%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 65%;
         flex: 0 1 65%; }

.md-layout-item.md-size-70 {
  min-width: 70%;
  max-width: 70%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 70%;
         flex: 0 1 70%; }

.md-layout-item.md-size-75 {
  min-width: 75%;
  max-width: 75%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 75%;
         flex: 0 1 75%; }

.md-layout-item.md-size-80 {
  min-width: 80%;
  max-width: 80%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 80%;
         flex: 0 1 80%; }

.md-layout-item.md-size-85 {
  min-width: 85%;
  max-width: 85%;
  -webkit-box-flex: 0;
```

```
    -ms-flex: 0 1 85%;
        flex: 0 1 85%; }

.md-layout-item.md-size-90 {
  min-width: 90%;
  max-width: 90%;
  -webkit-box-flex: 0;
    -ms-flex: 0 1 90%;
        flex: 0 1 90%; }

.md-layout-item.md-size-95 {
  min-width: 95%;
  max-width: 95%;
  -webkit-box-flex: 0;
    -ms-flex: 0 1 95%;
        flex: 0 1 95%; }

.md-layout-item.md-size-33 {
  min-width: 33.3333%;
  max-width: 33.3333%;
  -webkit-box-flex: 0;
    -ms-flex: 0 1 33.3333%;
        flex: 0 1 33.3333%; }

.md-layout-item.md-size-66 {
  min-width: 66.6666%;
  max-width: 66.6666%;
  -webkit-box-flex: 0;
    -ms-flex: 0 1 66.6666%;
        flex: 0 1 66.6666%; }

.md-layout-item.md-size-100 {
  min-width: 100%;
  max-width: 100%;
  margin-left: 0 !important;
  -webkit-box-flex: 1;
    -ms-flex: 1 1 100%;
        flex: 1 1 100%; }

@media (max-width: 1264px) {
  .md-layout-item.md-medium-size {
    -webkit-box-flex: 1;
      -ms-flex: 1 1;
          flex: 1 1; }
  .md-layout-item.md-medium-size-5 {
    min-width: 5%;
```

```
  max-width: 5%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 5%;
         flex: 0 1 5%; }
.md-layout-item.md-medium-size-10 {
  min-width: 10%;
  max-width: 10%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 10%;
         flex: 0 1 10%; }
.md-layout-item.md-medium-size-15 {
  min-width: 15%;
  max-width: 15%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 15%;
         flex: 0 1 15%; }
.md-layout-item.md-medium-size-20 {
  min-width: 20%;
  max-width: 20%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 20%;
         flex: 0 1 20%; }
.md-layout-item.md-medium-size-25 {
  min-width: 25%;
  max-width: 25%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 25%;
         flex: 0 1 25%; }
.md-layout-item.md-medium-size-30 {
  min-width: 30%;
  max-width: 30%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 30%;
         flex: 0 1 30%; }
.md-layout-item.md-medium-size-35 {
  min-width: 35%;
  max-width: 35%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 35%;
         flex: 0 1 35%; }
.md-layout-item.md-medium-size-40 {
  min-width: 40%;
  max-width: 40%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 40%;
         flex: 0 1 40%; }
```

```
.md-layout-item.md-medium-size-45 {
  min-width: 45%;
  max-width: 45%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 45%;
         flex: 0 1 45%; }
.md-layout-item.md-medium-size-50 {
  min-width: 50%;
  max-width: 50%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 50%;
         flex: 0 1 50%; }
.md-layout-item.md-medium-size-55 {
  min-width: 55%;
  max-width: 55%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 55%;
         flex: 0 1 55%; }
.md-layout-item.md-medium-size-60 {
  min-width: 60%;
  max-width: 60%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 60%;
         flex: 0 1 60%; }
.md-layout-item.md-medium-size-65 {
  min-width: 65%;
  max-width: 65%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 65%;
         flex: 0 1 65%; }
.md-layout-item.md-medium-size-70 {
  min-width: 70%;
  max-width: 70%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 70%;
         flex: 0 1 70%; }
.md-layout-item.md-medium-size-75 {
  min-width: 75%;
  max-width: 75%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 75%;
         flex: 0 1 75%; }
.md-layout-item.md-medium-size-80 {
  min-width: 80%;
  max-width: 80%;
  -webkit-box-flex: 0;
```

```
      -ms-flex: 0 1 80%;
          flex: 0 1 80%; }
  .md-layout-item.md-medium-size-85 {
    min-width: 85%;
    max-width: 85%;
    -webkit-box-flex: 0;
      -ms-flex: 0 1 85%;
          flex: 0 1 85%; }
  .md-layout-item.md-medium-size-90 {
    min-width: 90%;
    max-width: 90%;
    -webkit-box-flex: 0;
      -ms-flex: 0 1 90%;
          flex: 0 1 90%; }
  .md-layout-item.md-medium-size-95 {
    min-width: 95%;
    max-width: 95%;
    -webkit-box-flex: 0;
      -ms-flex: 0 1 95%;
          flex: 0 1 95%; }
  .md-layout-item.md-medium-size-33 {
    min-width: 33.3333%;
    max-width: 33.3333%;
    -webkit-box-flex: 0;
      -ms-flex: 0 1 33.3333%;
          flex: 0 1 33.3333%; }
  .md-layout-item.md-medium-size-66 {
    min-width: 66.6666%;
    max-width: 66.6666%;
    -webkit-box-flex: 0;
      -ms-flex: 0 1 66.6666%;
          flex: 0 1 66.6666%; }
  .md-layout-item.md-medium-size-100 {
    min-width: 100%;
    max-width: 100%;
    margin-left: 0 !important;
    -webkit-box-flex: 1;
      -ms-flex: 1 1 100%;
          flex: 1 1 100%; } }

@media (max-width: 944px) {
  .md-layout-item.md-small-size {
    -webkit-box-flex: 1;
      -ms-flex: 1 1;
          flex: 1 1; }
  .md-layout-item.md-small-size-5 {
```

```
  min-width: 5%;
  max-width: 5%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 5%;
         flex: 0 1 5%; }
.md-layout-item.md-small-size-10 {
  min-width: 10%;
  max-width: 10%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 10%;
         flex: 0 1 10%; }
.md-layout-item.md-small-size-15 {
  min-width: 15%;
  max-width: 15%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 15%;
         flex: 0 1 15%; }
.md-layout-item.md-small-size-20 {
  min-width: 20%;
  max-width: 20%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 20%;
         flex: 0 1 20%; }
.md-layout-item.md-small-size-25 {
  min-width: 25%;
  max-width: 25%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 25%;
         flex: 0 1 25%; }
.md-layout-item.md-small-size-30 {
  min-width: 30%;
  max-width: 30%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 30%;
         flex: 0 1 30%; }
.md-layout-item.md-small-size-35 {
  min-width: 35%;
  max-width: 35%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 35%;
         flex: 0 1 35%; }
.md-layout-item.md-small-size-40 {
  min-width: 40%;
  max-width: 40%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 40%;
```

```
        flex: 0 1 40%; }
.md-layout-item.md-small-size-45 {
  min-width: 45%;
  max-width: 45%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 45%;
        flex: 0 1 45%; }
.md-layout-item.md-small-size-50 {
  min-width: 50%;
  max-width: 50%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 50%;
        flex: 0 1 50%; }
.md-layout-item.md-small-size-55 {
  min-width: 55%;
  max-width: 55%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 55%;
        flex: 0 1 55%; }
.md-layout-item.md-small-size-60 {
  min-width: 60%;
  max-width: 60%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 60%;
        flex: 0 1 60%; }
.md-layout-item.md-small-size-65 {
  min-width: 65%;
  max-width: 65%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 65%;
        flex: 0 1 65%; }
.md-layout-item.md-small-size-70 {
  min-width: 70%;
  max-width: 70%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 70%;
        flex: 0 1 70%; }
.md-layout-item.md-small-size-75 {
  min-width: 75%;
  max-width: 75%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 75%;
        flex: 0 1 75%; }
.md-layout-item.md-small-size-80 {
  min-width: 80%;
  max-width: 80%;
```

```
    -webkit-box-flex: 0;
        -ms-flex: 0 1 80%;
            flex: 0 1 80%; }
  .md-layout-item.md-small-size-85 {
    min-width: 85%;
    max-width: 85%;
    -webkit-box-flex: 0;
        -ms-flex: 0 1 85%;
            flex: 0 1 85%; }
  .md-layout-item.md-small-size-90 {
    min-width: 90%;
    max-width: 90%;
    -webkit-box-flex: 0;
        -ms-flex: 0 1 90%;
            flex: 0 1 90%; }
  .md-layout-item.md-small-size-95 {
    min-width: 95%;
    max-width: 95%;
    -webkit-box-flex: 0;
        -ms-flex: 0 1 95%;
            flex: 0 1 95%; }
  .md-layout-item.md-small-size-33 {
    min-width: 33.3333%;
    max-width: 33.3333%;
    -webkit-box-flex: 0;
        -ms-flex: 0 1 33.3333%;
            flex: 0 1 33.3333%; }
  .md-layout-item.md-small-size-66 {
    min-width: 66.6666%;
    max-width: 66.6666%;
    -webkit-box-flex: 0;
        -ms-flex: 0 1 66.6666%;
            flex: 0 1 66.6666%; }
  .md-layout-item.md-small-size-100 {
    min-width: 100%;
    max-width: 100%;
    margin-left: 0 !important;
    -webkit-box-flex: 1;
        -ms-flex: 1 1 100%;
            flex: 1 1 100%; } }

@media (max-width: 600px) {
  .md-layout-item.md-xsmall-size {
    -webkit-box-flex: 1;
        -ms-flex: 1 1;
            flex: 1 1; }
```

```
.md-layout-item.md-xsmall-size-5 {
  min-width: 5%;
  max-width: 5%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 5%;
         flex: 0 1 5%; }
.md-layout-item.md-xsmall-size-10 {
  min-width: 10%;
  max-width: 10%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 10%;
         flex: 0 1 10%; }
.md-layout-item.md-xsmall-size-15 {
  min-width: 15%;
  max-width: 15%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 15%;
         flex: 0 1 15%; }
.md-layout-item.md-xsmall-size-20 {
  min-width: 20%;
  max-width: 20%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 20%;
         flex: 0 1 20%; }
.md-layout-item.md-xsmall-size-25 {
  min-width: 25%;
  max-width: 25%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 25%;
         flex: 0 1 25%; }
.md-layout-item.md-xsmall-size-30 {
  min-width: 30%;
  max-width: 30%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 30%;
         flex: 0 1 30%; }
.md-layout-item.md-xsmall-size-35 {
  min-width: 35%;
  max-width: 35%;
  -webkit-box-flex: 0;
     -ms-flex: 0 1 35%;
         flex: 0 1 35%; }
.md-layout-item.md-xsmall-size-40 {
  min-width: 40%;
  max-width: 40%;
  -webkit-box-flex: 0;
```

```
    -ms-flex: 0 1 40%;
        flex: 0 1 40%; }
.md-layout-item.md-xsmall-size-45 {
  min-width: 45%;
  max-width: 45%;
  -webkit-box-flex: 0;
    -ms-flex: 0 1 45%;
        flex: 0 1 45%; }
.md-layout-item.md-xsmall-size-50 {
  min-width: 50%;
  max-width: 50%;
  -webkit-box-flex: 0;
    -ms-flex: 0 1 50%;
        flex: 0 1 50%; }
.md-layout-item.md-xsmall-size-55 {
  min-width: 55%;
  max-width: 55%;
  -webkit-box-flex: 0;
    -ms-flex: 0 1 55%;
        flex: 0 1 55%; }
.md-layout-item.md-xsmall-size-60 {
  min-width: 60%;
  max-width: 60%;
  -webkit-box-flex: 0;
    -ms-flex: 0 1 60%;
        flex: 0 1 60%; }
.md-layout-item.md-xsmall-size-65 {
  min-width: 65%;
  max-width: 65%;
  -webkit-box-flex: 0;
    -ms-flex: 0 1 65%;
        flex: 0 1 65%; }
.md-layout-item.md-xsmall-size-70 {
  min-width: 70%;
  max-width: 70%;
  -webkit-box-flex: 0;
    -ms-flex: 0 1 70%;
        flex: 0 1 70%; }
.md-layout-item.md-xsmall-size-75 {
  min-width: 75%;
  max-width: 75%;
  -webkit-box-flex: 0;
    -ms-flex: 0 1 75%;
        flex: 0 1 75%; }
.md-layout-item.md-xsmall-size-80 {
  min-width: 80%;
```

```
    max-width: 80%;
    -webkit-box-flex: 0;
       -ms-flex: 0 1 80%;
           flex: 0 1 80%; }
  .md-layout-item.md-xsmall-size-85 {
    min-width: 85%;
    max-width: 85%;
    -webkit-box-flex: 0;
       -ms-flex: 0 1 85%;
           flex: 0 1 85%; }
  .md-layout-item.md-xsmall-size-90 {
    min-width: 90%;
    max-width: 90%;
    -webkit-box-flex: 0;
       -ms-flex: 0 1 90%;
           flex: 0 1 90%; }
  .md-layout-item.md-xsmall-size-95 {
    min-width: 95%;
    max-width: 95%;
    -webkit-box-flex: 0;
       -ms-flex: 0 1 95%;
           flex: 0 1 95%; }
  .md-layout-item.md-xsmall-size-33 {
    min-width: 33.3333%;
    max-width: 33.3333%;
    -webkit-box-flex: 0;
       -ms-flex: 0 1 33.3333%;
           flex: 0 1 33.3333%; }
  .md-layout-item.md-xsmall-size-66 {
    min-width: 66.6666%;
    max-width: 66.6666%;
    -webkit-box-flex: 0;
       -ms-flex: 0 1 66.6666%;
           flex: 0 1 66.6666%; }
  .md-layout-item.md-xsmall-size-100 {
    min-width: 100%;
    max-width: 100%;
    margin-left: 0 !important;
    -webkit-box-flex: 1;
       -ms-flex: 1 1 100%;
           flex: 1 1 100%; } }

.md-hide {
  display: none; }

@media (max-width: 1264px) {
```

```
  .md-medium-hide {
    display: none; } }

@media (max-width: 944px) {
  .md-small-hide {
    display: none; } }

@media (max-width: 600px) {
  .md-xsmall-hide {
    display: none; } }

.md-list-item {
  height: auto;
  position: relative;
  z-index: 2; }

.md-list-item.md-inset .md-list-item-content {
  padding-left: 72px; }

.md-list-item .md-icon {
  margin: 0;
  -webkit-transition-property: color,margin-right;
  transition-property: color,margin-right; }

.md-list-item-container {
  width: 100%;
  font-size: 16px;
  font-weight: 400;
  text-align: left;
  text-transform: none; }

.md-list-item-container:not(.md-list-item-default):not([disabled]) {
  -webkit-user-select: none;
  -moz-user-select: none;
  -ms-user-select: none;
  user-select: none;
  cursor: pointer; }

.md-list-item-container.md-button-clean:hover {
  opacity: 1;
  text-decoration: none; }

.md-list-item-content {
  min-height: 48px;
  padding: 4px 16px;
  display: -webkit-box;
```

```
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: center;
  -ms-flex-align: center;
     align-items: center;
  -webkit-box-pack: justify;
  -ms-flex-pack: justify;
     justify-content: space-between;
  -webkit-transition: padding 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: padding 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  will-change: padding; }

.md-list.md-dense .md-list-item-content {
  min-height: 40px;
  font-size: 13px; }

.md-list.md-dense .md-list-item-content > .md-avatar {
  margin-top: 0;
  margin-bottom: 0; }

.md-list.md-dense .md-list-item-content > .md-avatar:not(.md-small) {
  width: 36px;
  min-width: 36px;
  height: 36px; }

.md-list.md-dense .md-list-item-content > .md-avatar:first-child {
  margin-right: 20px; }

.md-list.md-double-line .md-list-item-content {
  min-height: 72px; }

.md-list.md-double-line.md-dense .md-list-item-content {
  min-height: 60px; }

.md-list.md-triple-line .md-list-item-content {
  min-height: 88px; }

.md-list.md-triple-line.md-dense .md-list-item-content {
  min-height: 76px; }

.md-list-item-content .md-list-action {
  margin: 0 -10px 0 0; }

.md-list-item-content .md-list-action:last-of-type {
  margin: 0 -10px 0 16px; }
```

```
.md-list.md-triple-line .md-list-item-content .md-list-action:last-of-type {
  -ms-flex-item-align: start;
      align-self: flex-start; }

.md-list-item-content > .md-icon:first-child {
  margin-right: 32px; }

.md-list-item-content > .md-icon:last-child {
  margin-left: 16px; }

.md-list-item-content > .md-checkbox, .md-list-item-content > .md-radio {
  margin: 0; }

.md-list-item-content > .md-checkbox:first-child, .md-list-item-content > .md-radio:first-child {
  margin-right: 36px; }

.md-list-item-content > .md-switch {
  margin: 0; }

.md-list-item-content > .md-switch:first-child {
  margin-right: 22px; }

.md-list-item-content > .md-avatar {
  margin: 4px 0; }

.md-list-item-content > .md-avatar:first-child {
  margin-right: 16px; }

.md-list-item-text {
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-direction: column;
      flex-direction: column;
  -webkit-box-align: start;
  -ms-flex-align: start;
      align-items: flex-start;
  overflow: hidden;
  line-height: 1.25em;
  white-space: nowrap; }
```

```
.md-list.md-dense .md-list-item-text {
  font-size: 13px; }

.md-list-item-text * {
  width: 100%;
  margin: 0;
  overflow: hidden;
  line-height: 1.25em;
  text-overflow: ellipsis; }

.md-list-item-text :nth-child(2), .md-list-item-text :nth-child(3) {
  font-size: 14px; }

.md-list.md-dense .md-list-item-text * {
  font-size: 13px; }

.md-list-item-expand {
  border-top: 1px solid transparent;
  border-bottom: 1px solid transparent;
  -webkit-transition: border 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: border 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  will-change: border; }

.md-list-item-expand.md-active .md-list-expand-icon {
  -webkit-perspective: 1000px;
  perspective: 1000px;
  -webkit-perspective-origin: 50% 50%;
  perspective-origin: 50% 50%;
  -webkit-transform: rotateX(180deg);
  transform: rotateX(180deg); }

.md-list-item-expand.md-active .md-list-expand {
  opacity: 1;
  -webkit-transform: translate3D(0, 0, 0);
  transform: translate3D(0, 0, 0); }

.md-list-item-expand .md-list-expand {
  height: 0;
  opacity: 0;
  overflow: hidden;
  -webkit-transform: translate3D(0, -24px, 0);
  transform: translate3D(0, -24px, 0);
  -webkit-transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition-property: opacity,-webkit-transform;
  -webkit-transition-property: opacity,-webkit-transform;
```

```
  transition-property: transform,opacity;
  transition-property: transform,opacity,-webkit-transform;
  will-change: transform,opacity; }

.md-list-item-expand .md-list-expand-icon {
  transition: -webkit-transform 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  -webkit-transition: -webkit-transform 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: transform 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: transform 0.4s cubic-bezier(0.25, 0.8, 0.25, 1), -webkit-transform 0.4s cubic-
        bezier(0.25, 0.8, 0.25, 1);
  will-change: transform; }

@-webkit-keyframes b {
  0% {
    -webkit-transform: translateX(0);
    transform: translateX(0); }
  20% {
    -webkit-animation-timing-function: cubic-bezier(0.5, 0, 0.7, 0.5);
    animation-timing-function: cubic-bezier(0.5, 0, 0.7, 0.5);
    -webkit-transform: translateX(0);
    transform: translateX(0); }
  60% {
    -webkit-animation-timing-function: cubic-bezier(0.3, 0.38, 0.55, 0.96);
    animation-timing-function: cubic-bezier(0.3, 0.38, 0.55, 0.96);
    -webkit-transform: translateX(83.67%);
    transform: translateX(83.67%); }
  to {
    -webkit-transform: translateX(200.61%);
    transform: translateX(200.61%); } }

@keyframes b {
  0% {
    -webkit-transform: translateX(0);
    transform: translateX(0); }
  20% {
    -webkit-animation-timing-function: cubic-bezier(0.5, 0, 0.7, 0.5);
    animation-timing-function: cubic-bezier(0.5, 0, 0.7, 0.5);
    -webkit-transform: translateX(0);
    transform: translateX(0); }
  60% {
    -webkit-animation-timing-function: cubic-bezier(0.3, 0.38, 0.55, 0.96);
    animation-timing-function: cubic-bezier(0.3, 0.38, 0.55, 0.96);
    -webkit-transform: translateX(83.67%);
    transform: translateX(83.67%); }
  to {
    -webkit-transform: translateX(200.61%);
```

```
    transform: translateX(200.61%); } }

@-webkit-keyframes c {
  0% {
    -webkit-transform: scaleX(0.08);
    transform: scaleX(0.08); }
  35% {
    -webkit-animation-timing-function: cubic-bezier(0.33, 0.12, 0.79, 1);
    animation-timing-function: cubic-bezier(0.33, 0.12, 0.79, 1);
    -webkit-transform: scaleX(0.08);
    transform: scaleX(0.08); }
  70% {
    -webkit-animation-timing-function: cubic-bezier(0.06, 0.11, 0.6, 1);
    animation-timing-function: cubic-bezier(0.06, 0.11, 0.6, 1);
    -webkit-transform: scaleX(0.66);
    transform: scaleX(0.66); }
  to {
    -webkit-transform: scaleX(0.08);
    transform: scaleX(0.08); } }

@keyframes c {
  0% {
    -webkit-transform: scaleX(0.08);
    transform: scaleX(0.08); }
  35% {
    -webkit-animation-timing-function: cubic-bezier(0.33, 0.12, 0.79, 1);
    animation-timing-function: cubic-bezier(0.33, 0.12, 0.79, 1);
    -webkit-transform: scaleX(0.08);
    transform: scaleX(0.08); }
  70% {
    -webkit-animation-timing-function: cubic-bezier(0.06, 0.11, 0.6, 1);
    animation-timing-function: cubic-bezier(0.06, 0.11, 0.6, 1);
    -webkit-transform: scaleX(0.66);
    transform: scaleX(0.66); }
  to {
    -webkit-transform: scaleX(0.08);
    transform: scaleX(0.08); } }

@-webkit-keyframes d {
  0% {
    -webkit-animation-timing-function: cubic-bezier(0.15, 0, 0.52, 0.41);
    animation-timing-function: cubic-bezier(0.15, 0, 0.52, 0.41);
    -webkit-transform: translateX(0);
    transform: translateX(0); }
  25% {
    -webkit-animation-timing-function: cubic-bezier(0.31, 0.28, 0.8, 0.73);
```

```
    animation-timing-function: cubic-bezier(0.31, 0.28, 0.8, 0.73);
    -webkit-transform: translateX(37.65%);
    transform: translateX(37.65%); }
  50% {
    -webkit-animation-timing-function: cubic-bezier(0.4, 0.63, 0.6, 0.9);
    animation-timing-function: cubic-bezier(0.4, 0.63, 0.6, 0.9);
    -webkit-transform: translateX(84.39%);
    transform: translateX(84.39%); }
  to {
    -webkit-transform: translateX(160.28%);
    transform: translateX(160.28%); } }

@keyframes d {
  0% {
    -webkit-animation-timing-function: cubic-bezier(0.15, 0, 0.52, 0.41);
    animation-timing-function: cubic-bezier(0.15, 0, 0.52, 0.41);
    -webkit-transform: translateX(0);
    transform: translateX(0); }
  25% {
    -webkit-animation-timing-function: cubic-bezier(0.31, 0.28, 0.8, 0.73);
    animation-timing-function: cubic-bezier(0.31, 0.28, 0.8, 0.73);
    -webkit-transform: translateX(37.65%);
    transform: translateX(37.65%); }
  50% {
    -webkit-animation-timing-function: cubic-bezier(0.4, 0.63, 0.6, 0.9);
    animation-timing-function: cubic-bezier(0.4, 0.63, 0.6, 0.9);
    -webkit-transform: translateX(84.39%);
    transform: translateX(84.39%); }
  to {
    -webkit-transform: translateX(160.28%);
    transform: translateX(160.28%); } }

@-webkit-keyframes e {
  0% {
    -webkit-animation-timing-function: cubic-bezier(0.15, 0, 0.52, 0.41);
    animation-timing-function: cubic-bezier(0.15, 0, 0.52, 0.41);
    -webkit-transform: scaleX(0.08);
    transform: scaleX(0.08); }
  20% {
    -webkit-animation-timing-function: cubic-bezier(0.31, 0.28, 0.8, 0.73);
    animation-timing-function: cubic-bezier(0.31, 0.28, 0.8, 0.73);
    -webkit-transform: scaleX(0.46);
    transform: scaleX(0.46); }
  45% {
    -webkit-animation-timing-function: cubic-bezier(0.4, 0.63, 0.6, 0.9);
    animation-timing-function: cubic-bezier(0.4, 0.63, 0.6, 0.9);
```

```
    -webkit-transform: scaleX(0.73);
    transform: scaleX(0.73); }
  to {
    -webkit-transform: scaleX(0.08);
    transform: scaleX(0.08); } }

@keyframes e {
  0% {
    -webkit-animation-timing-function: cubic-bezier(0.15, 0, 0.52, 0.41);
    animation-timing-function: cubic-bezier(0.15, 0, 0.52, 0.41);
    -webkit-transform: scaleX(0.08);
    transform: scaleX(0.08); }
  20% {
    -webkit-animation-timing-function: cubic-bezier(0.31, 0.28, 0.8, 0.73);
    animation-timing-function: cubic-bezier(0.31, 0.28, 0.8, 0.73);
    -webkit-transform: scaleX(0.46);
    transform: scaleX(0.46); }
  45% {
    -webkit-animation-timing-function: cubic-bezier(0.4, 0.63, 0.6, 0.9);
    animation-timing-function: cubic-bezier(0.4, 0.63, 0.6, 0.9);
    -webkit-transform: scaleX(0.73);
    transform: scaleX(0.73); }
  to {
    -webkit-transform: scaleX(0.08);
    transform: scaleX(0.08); } }

@-webkit-keyframes f {
  to {
    -webkit-transform: translate3D(-8px, 0, 0);
    transform: translate3D(-8px, 0, 0); } }

@keyframes f {
  to {
    -webkit-transform: translate3D(-8px, 0, 0);
    transform: translate3D(-8px, 0, 0); } }

.md-progress-bar {
  height: 5px;
  overflow: hidden;
  position: relative;
  -webkit-transform: translateZ(0) scaleY(1);
  transform: translateZ(0) scaleY(1);
  -webkit-transform-origin: top center;
  transform-origin: top center;
  transition: opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1), -webkit-transform 0.4s cubic-bezier(0.4, 0,
        0.2, 1);
```

```
  -webkit-transition: opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1), -webkit-transform 0.4s cubic-
      bezier(0.4, 0, 0.2, 1);
  transition: opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1), transform 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  transition: opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1), transform 0.4s cubic-bezier(0.4, 0, 0.2, 1), -
      webkit-transform 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  will-change: opacity,transform; }

.md-progress-bar.md-indeterminate .md-progress-bar-track, .md-progress-bar.md-query .md-
      progress-bar-track {
  left: -150%;
  -webkit-animation: b 2s infinite linear;
  animation: b 2s infinite linear; }

.md-progress-bar.md-indeterminate .md-progress-bar-track:after, .md-progress-bar.md-
      query .md-progress-bar-track:after {
  -webkit-animation: c 2s infinite linear;
  animation: c 2s infinite linear; }

.md-progress-bar.md-indeterminate .md-progress-bar-fill, .md-progress-bar.md-query .md-
      progress-bar-fill {
  left: -55%;
  -webkit-animation: d 2s infinite linear;
  animation: d 2s infinite linear; }

.md-progress-bar.md-indeterminate .md-progress-bar-fill:after, .md-progress-bar.md-query .md-
      progress-bar-fill:after {
  -webkit-animation: e 2s infinite linear;
  animation: e 2s infinite linear; }

.md-progress-bar.md-buffer .md-progress-bar-buffer, .md-progress-bar.md-buffer .md-progress-
      bar-fill, .md-progress-bar.md-buffer .md-progress-bar-track, .md-progress-bar.md-
      determinate .md-progress-bar-buffer, .md-progress-bar.md-determinate .md-progress-bar-
      fill, .md-progress-bar.md-determinate .md-progress-bar-track {
  -webkit-transition: 0.25s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.25s cubic-bezier(0.25, 0.8, 0.25, 1); }

.md-progress-bar.md-determinate .md-progress-bar-track {
  display: none; }

.md-progress-bar.md-buffer .md-progress-bar-buffer {
  border-top: 4px dotted;
  -webkit-animation: f .25s infinite linear;
  animation: f .25s infinite linear; }

.md-progress-bar.md-query {
  -webkit-transform: rotate(180deg);
```

```
  transform: rotate(180deg); }

.md-progress-bar-enter, .md-progress-bar-leave-active {
  opacity: .5;
  -webkit-transform: translateZ(0) scaleY(0);
  transform: translateZ(0) scaleY(0); }

.md-progress-bar-buffer, .md-progress-bar-fill, .md-progress-bar-track {
  -webkit-transform-origin: top left;
  transform-origin: top left; }

.md-progress-bar-buffer, .md-progress-bar-buffer:after, .md-progress-bar-fill, .md-progress-bar-
        fill:after, .md-progress-bar-track, .md-progress-bar-track:after {
  width: 100%;
  height: 100%;
  position: absolute;
  will-change: transform; }

.md-progress-bar-buffer:after, .md-progress-bar-fill:after, .md-progress-bar-track:after {
  display: inline-block;
  left: 0;
  content: " "; }

@-webkit-keyframes g {
  0% {
    -webkit-transform: rotate(0);
    transform: rotate(0); }
  to {
    -webkit-transform: rotate(1turn);
    transform: rotate(1turn); } }

@keyframes g {
  0% {
    -webkit-transform: rotate(0);
    transform: rotate(0); }
  to {
    -webkit-transform: rotate(1turn);
    transform: rotate(1turn); } }

@-webkit-keyframes h {
  0% {
    opacity: 0;
    -webkit-transform: rotate(-90deg) translateZ(0);
    transform: rotate(-90deg) translateZ(0); }
  20% {
    opacity: 1; }
```

```
  to {
    -webkit-transform: rotate(270deg) translateZ(0);
    transform: rotate(270deg) translateZ(0); } }

@keyframes h {
  0% {
    opacity: 0;
    -webkit-transform: rotate(-90deg) translateZ(0);
    transform: rotate(-90deg) translateZ(0); }
  20% {
    opacity: 1; }
  to {
    -webkit-transform: rotate(270deg) translateZ(0);
    transform: rotate(270deg) translateZ(0); } }

.md-progress-spinner {
  display: -webkit-inline-box;
  display: -ms-inline-flexbox;
  display: inline-flex;
  position: relative; }

.md-progress-spinner.md-indeterminate {
  -webkit-animation: g 2s linear infinite;
  animation: g 2s linear infinite; }

.md-progress-spinner.md-indeterminate.md-progress-spinner-enter, .md-progress-spinner.md-
        indeterminate.md-progress-spinner-leave-active {
  -webkit-transition-duration: .4s;
       transition-duration: .4s; }

.md-progress-spinner.md-indeterminate.md-progress-spinner-enter .md-progress-spinner-
        draw, .md-progress-spinner.md-indeterminate.md-progress-spinner-leave-active .md-
        progress-spinner-draw {
  opacity: 0;
  -webkit-transform: scale(0.1);
  transform: scale(0.1); }

.md-progress-spinner.md-indeterminate .md-progress-spinner-circle {
  -webkit-animation: 4s infinite cubic-bezier(0.25, 0.8, 0.25, 1);
  animation: 4s infinite cubic-bezier(0.25, 0.8, 0.25, 1); }

.md-progress-spinner.md-determinate.md-progress-spinner-enter-active, .md-progress-
        spinner.md-determinate.md-progress-spinner-leave-active {
  -webkit-transition-duration: 2s;
       transition-duration: 2s; }
```

```
.md-progress-spinner.md-determinate.md-progress-spinner-enter-active .md-progress-spinner-
        draw, .md-progress-spinner.md-determinate.md-progress-spinner-leave-active .md-
        progress-spinner-draw {
  -webkit-animation: h 1.98s cubic-bezier(0.25, 0.8, 0.25, 1) forwards;
  animation: h 1.98s cubic-bezier(0.25, 0.8, 0.25, 1) forwards; }

.md-progress-spinner.md-determinate .md-progress-spinner-draw {
  -webkit-transition: none;
  transition: none; }

.md-progress-spinner-draw {
  overflow: visible;
  -webkit-transform: scale(1) rotate(-90deg);
  transform: scale(1) rotate(-90deg);
  -webkit-transform-origin: center;
  transform-origin: center;
  -webkit-transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  will-change: opacity,transform; }

.md-progress-spinner-circle {
  fill: none;
  -webkit-transform-origin: center;
  transform-origin: center;
  -webkit-transition: stroke-dashoffset 0.25s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: stroke-dashoffset 0.25s cubic-bezier(0.25, 0.8, 0.25, 1);
  will-change: stroke-dashoffset,stroke-dasharray,stroke-width,animation-name,r; }

.md-radio {
  width: auto;
  margin: 16px 16px 16px 0;
  display: -webkit-inline-box;
  display: -ms-inline-flexbox;
  display: inline-flex;
  position: relative; }

.md-radio:not(.md-disabled), .md-radio:not(.md-disabled) .md-radio-label {
  cursor: pointer; }

.md-radio .md-radio-container {
  width: 20px;
  min-width: 20px;
  height: 20px;
  position: relative;
  border: 2px solid transparent;
  border-radius: 50%;
```

```
  -webkit-transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1); }

.md-radio .md-radio-container:focus {
  outline: none; }

.md-radio .md-radio-container:after, .md-radio .md-radio-container:before {
  position: absolute;
  -webkit-transition: 0.4s cubic-bezier(0.55, 0, 0.55, 0.2);
  transition: 0.4s cubic-bezier(0.55, 0, 0.55, 0.2);
  content: " "; }

.md-radio .md-radio-container:before {
  width: 48px;
  height: 48px;
  top: 50%;
  left: 50%;
  z-index: 5;
  border-radius: 50%;
  -webkit-transform: translate(-50%, -50%);
  transform: translate(-50%, -50%); }

.md-radio .md-radio-container:after {
  position: absolute;
  top: 3px;
  right: 3px;
  bottom: 3px;
  left: 3px;
  border-radius: 50%;
  opacity: 0;
  -webkit-transform: scale3D(0.38, 0.38, 1);
  transform: scale3D(0.38, 0.38, 1);
  content: " "; }

.md-radio .md-radio-container .md-ripple {
  width: 48px !important;
  height: 48px !important;
  top: 50% !important;
  left: 50% !important;
  -webkit-transform: translate(-50%, -50%);
  transform: translate(-50%, -50%);
  border-radius: 50%; }

.md-radio .md-radio-container input {
  position: absolute;
  left: -999em; }
```

```
.md-radio .md-radio-label {
  height: 20px;
  padding-left: 16px;
  position: relative;
  line-height: 20px; }

.md-radio.md-checked .md-radio-container:after {
  opacity: 1;
  -webkit-transform: scale3D(1, 1, 1);
  transform: scale3D(1, 1, 1);
  -webkit-transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1); }

.md-radio.md-required label:after {
  position: absolute;
  top: 2px;
  right: 0;
  -webkit-transform: translateX(calc(100% + 2px));
  transform: translateX(calc(100% + 2px));
  content: "*";
  line-height: 1em;
  vertical-align: top; }

.md-snackbar {
  -webkit-box-shadow: 0 3px 5px -1px rgba(0, 0, 0, 0.2), 0 6px 10px 0 rgba(0, 0, 0, 0.14), 0 1px
          18px 0 rgba(0, 0, 0, 0.12);
        box-shadow: 0 3px 5px -1px rgba(0, 0, 0, 0.2), 0 6px 10px 0 rgba(0, 0, 0, 0.14), 0 1px
          18px 0 rgba(0, 0, 0, 0.12);
  min-width: 288px;
  max-width: 568px;
  min-height: 48px;
  max-height: 80px;
  padding: 14px 24px;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: center;
  -ms-flex-align: center;
     align-items: center;
  position: fixed;
  z-index: 12;
  border-radius: 2px;
  -webkit-transition: 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.4s cubic-bezier(0.4, 0, 0.2, 1);
  will-change: background-color,color,opacity,transform; }
```

```
.md-snackbar.md-position-center {
  margin: 0 auto;
  right: 0;
  bottom: 0;
  left: 0; }

.md-snackbar.md-position-center.md-snackbar-enter, .md-snackbar.md-position-center.md-
        snackbar-leave-active {
  -webkit-transform: translate3D(0, calc(100% + 8px), 0);
  transform: translate3D(0, calc(100% + 8px), 0); }

.md-snackbar.md-position-left {
  bottom: 24px;
  left: 24px; }

.md-snackbar.md-position-left.md-snackbar-enter, .md-snackbar.md-position-left.md-snackbar-
        leave-active {
  -webkit-transform: translate3D(0, calc(100% + 32px), 0);
  transform: translate3D(0, calc(100% + 32px), 0); }

.md-snackbar-enter, .md-snackbar-enter .md-snackbar-content, .md-snackbar-leave-active, .md-
        snackbar-leave-active .md-snackbar-content {
  opacity: 0; }

.md-snackbar-content {
  -webkit-box-flex: 1;
  -ms-flex: 1;
     flex: 1;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: center;
  -ms-flex-align: center;
     align-items: center;
  -webkit-box-pack: justify;
  -ms-flex-pack: justify;
     justify-content: space-between;
  -webkit-transition: opacity 0.38s cubic-bezier(0.55, 0, 0.55, 0.2);
  transition: opacity 0.38s cubic-bezier(0.55, 0, 0.55, 0.2); }

.md-snackbar-content .md-button {
  min-width: 0;
  margin: -8px -8px -8px 36px; }

.md-snackbar-content .md-button + .md-button {
```

```
  margin-left: 16px; }

@media (max-width: 600px) {
  .md-snackbar {
    left: 0;
    -webkit-transform: none;
    transform: none;
    border-radius: 0; }
  .md-snackbar-content .md-button {
    margin-left: 12px; } }

.md-speed-dial {
  display: -webkit-inline-box;
  display: -ms-inline-flexbox;
  display: inline-flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-direction: column;
      flex-direction: column; }

.md-speed-dial.md-top-left, .md-speed-dial.md-top-right {
  position: absolute;
  top: 24px; }

.md-speed-dial.md-bottom-left, .md-speed-dial.md-bottom-right {
  position: absolute;
  bottom: 24px; }

.md-speed-dial.md-bottom-center, .md-speed-dial.md-top-center {
  position: absolute;
  left: 50%;
  -webkit-transform: translateX(-50%);
  transform: translateX(-50%); }

.md-speed-dial.md-top-center {
  top: 24px; }

.md-speed-dial.md-bottom-center {
  bottom: 24px; }

.md-speed-dial.md-bottom-right, .md-speed-dial.md-top-right {
  right: 24px; }

.md-speed-dial.md-bottom-left, .md-speed-dial.md-top-left {
  left: 24px; }
```

```
.md-speed-dial.md-fixed {
  position: fixed; }

.md-speed-dial.md-direction-top.md-effect-fling .md-speed-dial-content .md-button {
  -webkit-transform: translate3d(0, 50%, 0) scale(0.8);
  transform: translate3d(0, 50%, 0) scale(0.8); }

.md-speed-dial.md-direction-top .md-speed-dial-target {
  -webkit-box-ordinal-group: 3;
  -ms-flex-order: 2;
      order: 2;
  margin-bottom: 0 !important; }

.md-speed-dial.md-direction-top .md-speed-dial-content {
  -webkit-box-ordinal-group: 2;
  -ms-flex-order: 1;
      order: 1; }

.md-speed-dial.md-direction-top .md-speed-dial-content .md-button:first-child {
  margin-top: 0; }

.md-speed-dial.md-direction-bottom.md-effect-fling .md-speed-dial-content .md-button {
  -webkit-transform: translate3d(0, -50%, 0) scale(0.8);
  transform: translate3d(0, -50%, 0) scale(0.8); }

.md-speed-dial.md-direction-bottom .md-speed-dial-target {
  -webkit-box-ordinal-group: 2;
  -ms-flex-order: 1;
      order: 1;
  margin-top: 0 !important; }

.md-speed-dial.md-direction-bottom .md-speed-dial-content {
  -webkit-box-ordinal-group: 3;
  -ms-flex-order: 2;
      order: 2; }

.md-speed-dial.md-direction-bottom .md-speed-dial-content .md-button:last-child {
  margin-bottom: 0; }

.md-speed-dial.md-effect-scale .md-speed-dial-content .md-button {
  -webkit-transform: scale(0.3);
  transform: scale(0.3); }

.md-speed-dial.md-active .md-morph-initial, .md-speed-dial.md-with-hover:hover .md-morph-
          initial {
  opacity: 0;
```

```
  -webkit-transform: translate3D(-50%, -50%, 0) rotate(90deg) scale(0.7);
  transform: translate3D(-50%, -50%, 0) rotate(90deg) scale(0.7); }

.md-speed-dial.md-active .md-morph-final, .md-speed-dial.md-with-hover:hover .md-morph-
        final {
  opacity: 1;
  -webkit-transform: translate3D(-50%, -50%, 0) rotate(0deg) scale(1);
  transform: translate3D(-50%, -50%, 0) rotate(0deg) scale(1); }

.md-speed-dial.md-active .md-speed-dial-content .md-button, .md-speed-dial.md-with-
        hover:hover .md-speed-dial-content .md-button {
  pointer-events: auto;
  opacity: 1;
  -webkit-transform: translateZ(0) scale(1) !important;
  transform: translateZ(0) scale(1) !important;
  transition: opacity 0.2s cubic-bezier(0.4, 0, 0.2, 1), -webkit-transform 0.3s cubic-bezier(0.25,
        0.8, 0.25, 1);
  -webkit-transition: opacity 0.2s cubic-bezier(0.4, 0, 0.2, 1), -webkit-transform 0.3s cubic-
        bezier(0.25, 0.8, 0.25, 1);
  transition: opacity 0.2s cubic-bezier(0.4, 0, 0.2, 1), transform 0.3s cubic-bezier(0.25, 0.8, 0.25,
        1);
  transition: opacity 0.2s cubic-bezier(0.4, 0, 0.2, 1), transform 0.3s cubic-bezier(0.25, 0.8, 0.25,
        1), -webkit-transform 0.3s cubic-bezier(0.25, 0.8, 0.25, 1); }

.md-speed-dial.md-active .md-speed-dial-content .md-button[md-button-index="0"], .md-speed-
        dial.md-with-hover:hover .md-speed-dial-content .md-button[md-button-index="0"] {
  -webkit-transition-delay: 0s;
       transition-delay: 0s; }

.md-speed-dial.md-active .md-speed-dial-content .md-button[md-button-index="1"], .md-speed-
        dial.md-with-hover:hover .md-speed-dial-content .md-button[md-button-index="1"] {
  -webkit-transition-delay: .1s;
       transition-delay: .1s; }

.md-speed-dial.md-active .md-speed-dial-content .md-button[md-button-index="2"], .md-speed-
        dial.md-with-hover:hover .md-speed-dial-content .md-button[md-button-index="2"] {
  -webkit-transition-delay: .2s;
       transition-delay: .2s; }

.md-speed-dial.md-active .md-speed-dial-content .md-button[md-button-index="3"], .md-speed-
        dial.md-with-hover:hover .md-speed-dial-content .md-button[md-button-index="3"] {
  -webkit-transition-delay: .3s;
       transition-delay: .3s; }

.md-speed-dial.md-active .md-speed-dial-content .md-button[md-button-index="4"], .md-speed-
        dial.md-with-hover:hover .md-speed-dial-content .md-button[md-button-index="4"] {
```

```
  -webkit-transition-delay: .4s;
          transition-delay: .4s; }

.md-speed-dial.md-active .md-speed-dial-content .md-button[md-button-index="5"], .md-speed-
          dial.md-with-hover:hover .md-speed-dial-content .md-button[md-button-index="5"] {
  -webkit-transition-delay: .5s;
          transition-delay: .5s; }

.md-speed-dial .md-button {
  margin: 6px 0; }

.md-speed-dial .md-speed-dial-content .md-button {
  pointer-events: none;
  opacity: 0;
  transition: opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1), -webkit-transform 0s cubic-bezier(0.4, 0,
          0.2, 1) 0.3s;
  -webkit-transition: opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1), -webkit-transform 0s cubic-
          bezier(0.4, 0, 0.2, 1) 0.3s;
  transition: opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1), transform 0s cubic-bezier(0.4, 0, 0.2, 1)
          0.3s;
  transition: opacity 0.3s cubic-bezier(0.4, 0, 0.2, 1), transform 0s cubic-bezier(0.4, 0, 0.2, 1)
          0.3s, -webkit-transform 0s cubic-bezier(0.4, 0, 0.2, 1) 0.3s;
  will-change: opacity,transform; }

.md-speed-dial .md-morph-final, .md-speed-dial .md-morph-initial {
  position: absolute;
  top: 50%;
  left: 50%;
  -webkit-transform: translate3D(-50%, -50%, 0);
  transform: translate3D(-50%, -50%, 0);
  -webkit-transition: 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.3s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition-property: opacity,-webkit-transform;
  -webkit-transition-property: opacity,-webkit-transform;
  transition-property: opacity,transform;
  transition-property: opacity,transform,-webkit-transform;
  will-change: opacity,transform; }

.md-speed-dial .md-morph-final {
  opacity: 0;
  -webkit-transform: translate3D(-50%, -50%, 0) scale(0.7) rotate(-90deg);
  transform: translate3D(-50%, -50%, 0) scale(0.7) rotate(-90deg); }

.md-speed-dial-target {
  z-index: 1; }
```

```
.md-speed-dial-content {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-direction: column;
     flex-direction: column;
  -webkit-box-align: center;
  -ms-flex-align: center;
     align-items: center;
  position: relative;
  z-index: 2; }

.md-speed-dial-content, .md-steppers {
  -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1); }

.md-steppers {
  -webkit-transition-property: color,background-color;
  transition-property: color,background-color;
  will-change: color,background-color; }

.md-steppers.md-no-transition * {
  -webkit-transition: none !important;
  transition: none !important; }

.md-steppers.md-dynamic-height .md-steppers-wrapper {
  -webkit-transition: height 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: height 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  will-change: height; }

.md-steppers.md-horizontal.md-alternative .md-stepper-header {
  height: 104px; }

.md-steppers.md-horizontal.md-alternative .md-stepper-header:first-of-type .md-stepper-
        icon:before, .md-steppers.md-horizontal.md-alternative .md-stepper-header:first-of-
        type .md-stepper-number:before, .md-steppers.md-horizontal.md-alternative .md-stepper-
        header:last-of-type .md-stepper-icon:after, .md-steppers.md-horizontal.md-
        alternative .md-stepper-header:last-of-type .md-stepper-number:after {
  content: none; }

.md-steppers.md-horizontal.md-alternative .md-stepper-header .md-ripple {
  -webkit-box-pack: center;
  -ms-flex-pack: center;
     justify-content: center; }
```

```
.md-steppers.md-horizontal.md-alternative .md-stepper-header .md-button-content {
  padding-top: 16px;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-direction: column;
      flex-direction: column; }

.md-steppers.md-horizontal.md-alternative .md-stepper-header .md-button-content:after, .md-
          steppers.md-horizontal.md-alternative .md-stepper-header .md-button-content:before {
  content: none; }

.md-steppers.md-horizontal.md-alternative .md-stepper-header .md-stepper-text {
  height: 32px;
  -webkit-box-pack: start;
  -ms-flex-pack: start;
      justify-content: flex-start;
  text-align: center; }

.md-steppers.md-horizontal.md-alternative .md-stepper-header .md-stepper-icon, .md-
          steppers.md-horizontal.md-alternative .md-stepper-header .md-stepper-number {
  margin: 0 8px 8px;
  position: relative; }

.md-steppers.md-horizontal.md-alternative .md-stepper-header .md-stepper-icon:after, .md-
          steppers.md-horizontal.md-alternative .md-stepper-header .md-stepper-icon:before, .md-
          steppers.md-horizontal.md-alternative .md-stepper-header .md-stepper-
          number:after, .md-steppers.md-horizontal.md-alternative .md-stepper-header .md-
          stepper-number:before {
  width: 9999%;
  height: 1px;
  position: absolute;
  top: 50%;
  z-index: 2;
  -webkit-transition: background-color 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: background-color 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  will-change: background-color;
  content: " "; }

.md-steppers.md-horizontal.md-alternative .md-stepper-header .md-stepper-icon:after, .md-
          steppers.md-horizontal.md-alternative .md-stepper-header .md-stepper-number:after {
  left: calc(100% + 8px); }

.md-steppers.md-horizontal.md-alternative .md-stepper-header .md-stepper-icon:before, .md-
          steppers.md-horizontal.md-alternative .md-stepper-header .md-stepper-number:before {
  right: 32px; }
```

```
.md-steppers.md-vertical .md-stepper-header {
  height: 56px; }

.md-steppers.md-vertical .md-stepper-header .md-ripple {
  padding: 0 24px 0 16px; }

.md-steppers.md-vertical .md-steppers-container {
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-direction: column;
      flex-direction: column; }

.md-steppers.md-vertical .md-button-content:after, .md-steppers.md-vertical .md-button-
          content:before {
  content: none; }

.md-steppers.md-vertical .md-stepper-icon, .md-steppers.md-vertical .md-stepper-number {
  margin-right: 12px; }

.md-steppers.md-vertical .md-stepper {
  padding: 0;
  position: relative; }

.md-steppers.md-vertical .md-stepper:last-of-type:after {
  content: none; }

.md-steppers.md-vertical .md-stepper:after {
  width: 1px;
  position: absolute;
  top: 48px;
  bottom: -8px;
  left: 36px;
  z-index: 2;
  -webkit-transition: background-color 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: background-color 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  will-change: background-color;
  content: " "; }

.md-steppers-navigation {
  -webkit-box-shadow: 0 3px 1px -2px rgba(0, 0, 0, 0.2), 0 2px 2px 0 rgba(0, 0, 0, 0.14), 0 1px
          5px 0 rgba(0, 0, 0, 0.12);
        box-shadow: 0 3px 1px -2px rgba(0, 0, 0, 0.2), 0 2px 2px 0 rgba(0, 0, 0, 0.14), 0 1px 5px 0
          rgba(0, 0, 0, 0.12);
  display: -webkit-box;
  display: -ms-flexbox;
```

```
  display: flex; }

.md-steppers-navigation .md-stepper-header {
  width: auto; }

.md-stepper-header {
  width: 100%;
  height: 72px;
  margin: 0;
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1;
  border-radius: 0;
  font-weight: 400;
  text-align: left;
  text-transform: none; }

.md-stepper-header:first-of-type .md-button-content:before, .md-stepper-header:last-of-type .md-
          button-content:after {
  content: none; }

.md-stepper-header.md-active, .md-stepper-header.md-error {
  font-weight: 500; }

.md-stepper-header .md-ripple {
  padding: 0 16px;
  -webkit-box-pack: start;
  -ms-flex-pack: start;
      justify-content: flex-start; }

.md-stepper-header .md-button-content {
  padding: 0 8px;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: center;
  -ms-flex-align: center;
      align-items: center;
  -webkit-transition: color 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: color 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  will-change: color; }

.md-stepper-header .md-button-content:after, .md-stepper-header .md-button-content:before {
  height: 1px;
  position: absolute;
  top: 50%;
```

```
  -webkit-transition: background-color 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: background-color 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  will-change: background-color;
  content: " "; }

.md-stepper-header .md-button-content:after {
  width: 9999%;
  left: 100%; }

.md-stepper-header .md-button-content:before {
  width: 16px;
  left: -16px; }

.md-stepper-header .md-button-content svg {
  -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  -webkit-transition-property: color,fill;
  transition-property: color,fill;
  will-change: color,fill; }

.md-stepper-text {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-direction: column;
      flex-direction: column;
  -webkit-box-pack: center;
  -ms-flex-pack: center;
      justify-content: center;
  line-height: 16px;
  white-space: nowrap; }

.md-stepper-icon, .md-stepper-number {
  margin-right: 8px;
  -webkit-transition: color 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: color 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  will-change: color; }

.md-stepper-number {
  width: 24px;
  height: 24px;
  border-radius: 24px;
  -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
```

```
  -webkit-transition-property: color,background-color;
  transition-property: color,background-color;
  will-change: color,background-color;
  font-size: 12px;
  line-height: 24px;
  text-align: center; }

.md-stepper-done {
  width: 20px;
  height: 20px; }

.md-stepper-done, .md-stepper-editable {
  -webkit-transform: translateY(-1px);
  transform: translateY(-1px); }

.md-stepper-editable {
  width: 14px;
  height: 14px; }

.md-stepper-description, .md-stepper-error {
  font-size: 12px;
  font-weight: 400;
  line-height: 16px; }

.md-stepper-description {
  opacity: .54; }

.md-steppers-wrapper {
  overflow: hidden;
  -webkit-transition: none;
  transition: none;
  will-change: height; }

.md-steppers-container {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: start;
  -ms-flex-align: start;
      align-items: flex-start;
  -ms-flex-wrap: nowrap;
      flex-wrap: nowrap;
  -webkit-transform: translateZ(0);
  transform: translateZ(0);
  transition: -webkit-transform 0.35s cubic-bezier(0.4, 0, 0.2, 1);
  -webkit-transition: -webkit-transform 0.35s cubic-bezier(0.4, 0, 0.2, 1);
```

```
  transition: transform 0.35s cubic-bezier(0.4, 0, 0.2, 1);
  transition: transform 0.35s cubic-bezier(0.4, 0, 0.2, 1), -webkit-transform 0.35s cubic-
        bezier(0.4, 0, 0.2, 1);
  will-change: transform; }

.md-stepper {
  width: 100%;
  -webkit-box-flex: 1;
  -ms-flex: 1 0 100%;
     flex: 1 0 100%;
  padding: 16px 24px; }

@media (max-width: 944px) {
  .md-stepper {
    padding: 8px 16px; } }

.md-steppers.md-vertical .md-stepper-content {
  padding: 0 24px 0 60px;
  height: 0;
  overflow: hidden;
  opacity: 0;
  -webkit-transform: translate3D(0, -20px, 0);
  transform: translate3D(0, -20px, 0);
  -webkit-transition: 0.35s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.35s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition-property: opacity,height,padding-bottom,-webkit-transform;
  -webkit-transition-property: opacity,height,padding-bottom,-webkit-transform;
  transition-property: opacity,transform,height,padding-bottom;
  transition-property: opacity,transform,height,padding-bottom,-webkit-transform;
  will-change: opacity,transform,height,padding-bottom; }

.md-steppers.md-vertical .md-stepper-content.md-active {
  height: auto;
  padding-bottom: 40px;
  opacity: 1;
  -webkit-transform: translate3D(0, 0, 0);
  transform: translate3D(0, 0, 0); }

.md-subheader {
  min-height: 48px;
  padding: 0 16px;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: center;
  -ms-flex-align: center;
```

```
    align-items: center;
  -webkit-box-orient: horizontal;
  -webkit-box-direction: normal;
  -ms-flex-flow: row wrap;
    flex-flow: row wrap;
  font-size: 14px;
  font-weight: 500; }

.md-switch {
  width: auto;
  margin: 16px 16px 16px 0;
  display: -webkit-inline-box;
  display: -ms-inline-flexbox;
  display: inline-flex;
  position: relative; }

.md-switch:not(.md-disabled), .md-switch:not(.md-disabled) .md-switch-label {
  cursor: pointer; }

.md-switch .md-switch-container {
  width: 34px;
  min-width: 34px;
  height: 14px;
  margin: 3px 0;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: center;
  -ms-flex-align: center;
    align-items: center;
  position: relative;
  border-radius: 14px;
  -webkit-transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1); }

.md-switch .md-switch-thumb {
  -webkit-box-shadow: 0 2px 1px -1px rgba(0, 0, 0, 0.2), 0 1px 1px 0 rgba(0, 0, 0, 0.14), 0 1px
        3px 0 rgba(0, 0, 0, 0.12);
      box-shadow: 0 2px 1px -1px rgba(0, 0, 0, 0.2), 0 1px 1px 0 rgba(0, 0, 0, 0.14), 0 1px 3px 0
        rgba(0, 0, 0, 0.12);
  width: 20px;
  height: 20px;
  position: relative;
  border-radius: 50%;
  -webkit-transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: 0.4s cubic-bezier(0.25, 0.8, 0.25, 1); }
```

```
.md-switch .md-switch-thumb:before {
  width: 48px;
  height: 48px;
  top: 50%;
  left: 50%;
  z-index: 5;
  content: " "; }

.md-switch .md-switch-thumb .md-ripple, .md-switch .md-switch-thumb:before {
  position: absolute;
  -webkit-transform: translate(-50%, -50%);
  transform: translate(-50%, -50%); }

.md-switch .md-switch-thumb .md-ripple {
  width: 48px !important;
  height: 48px !important;
  top: 50% !important;
  left: 50% !important;
  border-radius: 50%; }

.md-switch .md-switch-thumb input {
  position: absolute;
  left: -999em; }

.md-switch .md-switch-label {
  height: 20px;
  padding-left: 16px;
  position: relative;
  line-height: 20px; }

.md-switch.md-checked .md-switch-thumb {
  -webkit-transform: translate3d(15px, 0, 0);
  transform: translate3d(15px, 0, 0); }

.md-switch.md-required label:after {
  position: absolute;
  top: 2px;
  right: 0;
  -webkit-transform: translateX(calc(100% + 2px));
  transform: translateX(calc(100% + 2px));
  content: "*";
  line-height: 1em;
  vertical-align: top; }

.md-table {
```

```
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-flow: column wrap;
      flex-flow: column wrap;
  overflow-x: auto; }

.md-table .md-table-fixed-header {
  position: relative; }

.md-table .md-table-fixed-header-active {
  border-bottom: 1px solid; }

.md-table .md-table-content {
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1;
  overflow-x: auto;
  -webkit-transition: height 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: height 0.3s cubic-bezier(0.4, 0, 0.2, 1); }

.md-table .md-table-empty {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: center;
  -ms-flex-align: center;
      align-items: center;
  -webkit-box-pack: center;
  -ms-flex-pack: center;
      justify-content: center; }

.md-table table {
  width: 100%;
  border-spacing: 0;
  border-collapse: collapse;
  overflow: hidden; }

.md-table-head {
  padding: 0;
  position: relative;
  font-size: 12px;
  line-height: 16px;
  text-align: left; }
```

```
.md-table-head:last-child .md-table-head-label {
  padding-right: 24px; }

.md-table-head.md-numeric {
  text-align: right; }

.md-table-head.md-sortable:first-of-type .md-table-sortable-icon, .md-table-head.md-table-cell-
        selection + .md-sortable .md-table-sortable-icon {
  right: 8px;
  left: auto; }

.md-table-head .md-icon {
  width: 16px;
  height: 16px;
  font-size: 16px; }

.md-table-head .md-icon:not(.md-sortable-icon) {
  margin: 0 4px; }

.md-table-head .md-icon:first-child {
  margin-left: 0; }

.md-table-head .md-icon:last-child {
  margin-right: 0; }

.md-sortable {
  cursor: pointer; }

.md-sortable.md-sorted .md-table-sortable-icon, .md-sortable:hover .md-table-sortable-icon {
  opacity: 1; }

.md-sortable.md-sorted-desc .md-table-sortable-icon {
  -webkit-transform: translateY(-50%) rotate(180deg);
  transform: translateY(-50%) rotate(180deg); }

.md-table-head-container {
  height: 56px;
  padding: 14px 0; }

.md-table-head-container, .md-table-head-label {
  overflow: hidden;
  text-overflow: ellipsis;
  white-space: nowrap; }

.md-table-head-label {
```

```
  height: 28px;
  padding-right: 32px;
  padding-left: 24px;
  display: inline-block;
  position: relative;
  line-height: 28px; }

.md-table-sortable-icon {
  position: absolute;
  top: 50%;
  left: 0;
  -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  -webkit-transform: translateY(-50%);
  transform: translateY(-50%);
  opacity: 0;
  color: rgba(0, 0, 0, 0.38); }

.md-table-alternate-header {
  position: absolute;
  top: 0;
  right: 0;
  left: 0;
  z-index: 2;
  will-change: opacity,transform; }

.md-table-alternate-header-enter, .md-table-alternate-header-leave-active {
  opacity: 0;
  -webkit-transform: translate3d(0, -100%, 0);
  transform: translate3d(0, -100%, 0); }

.md-table-alternate-header-enter-active {
  -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1); }

.md-table-alternate-header-leave-active {
  -webkit-transition: 0.2s cubic-bezier(0.4, 0, 1, 1);
  transition: 0.2s cubic-bezier(0.4, 0, 1, 1); }

.md-table-row {
  -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  -webkit-transition-property: background-color,font-weight;
  transition-property: background-color,font-weight;
  will-change: background-color,font-weight; }
```

```
.md-table-row.md-has-selection {
  cursor: pointer; }

.md-table-row.md-selected-single {
  font-weight: 500; }

tbody .md-table-row td {
  border-top: 1px solid; }

.md-table-cell-selection {
  width: 66px; }

.md-table-cell-selection + td .md-table-cell-container, .md-table-cell-selection + th .md-table-
        head-label {
  padding-left: 0; }

.md-table-cell-selection .md-table-cell-container, .md-table-cell-selection .md-table-cell-
        label, .md-table-cell-selection .md-table-head-container, .md-table-cell-selection .md-
        table-head-label {
  padding: 0;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: center;
  -ms-flex-align: center;
     align-items: center;
  -webkit-box-pack: center;
  -ms-flex-pack: center;
     justify-content: center;
  overflow: visible; }

.md-table-cell-selection .md-checkbox {
  margin: 0; }

.md-table-cell-selection .md-checkbox .md-checkbox-container {
  width: 18px;
  min-width: 18px;
  height: 18px; }

.md-table-cell-selection .md-checkbox .md-checkbox-container:after {
  top: -1px;
  left: 4px; }

.md-table-toolbar {
  padding-left: 24px; }
```

```
.md-table-toolbar .md-title {
  -webkit-box-flex: 1;
  -ms-flex: 1;
     flex: 1;
  font-size: 20px; }

.md-toolbar, .md-toolbar-row {
  width: 100%;
  min-height: 64px;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: center;
  -ms-flex-align: center;
     align-items: center;
  -ms-flex-line-pack: center;
     align-content: center;
  -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition-property: opacity,background-color,box-shadow,color,min-height,-webkit-transform;
  -webkit-transition-property: opacity,background-color,color,min-height,-webkit-box-shadow,-
        webkit-transform;
  transition-property: opacity,background-color,color,min-height,-webkit-box-shadow,-webkit-
        transform;
  transition-property: opacity,background-color,box-shadow,transform,color,min-height;
  transition-property: opacity,background-color,box-shadow,transform,color,min-height,-webkit-
        box-shadow,-webkit-transform;
  transition-property: opacity,background-color,box-shadow,transform,color,min-height,-webkit-
        transform;
  will-change: opacity,background-color,box-shadow,transform,color,min-height; }

.md-toolbar {
  padding: 0 16px;
  -webkit-box-orient: horizontal;
  -webkit-box-direction: normal;
  -ms-flex-flow: row wrap;
     flex-flow: row wrap;
  position: relative;
  z-index: 2; }

.md-toolbar.md-dense {
  min-height: 48px; }

.md-toolbar.md-large .md-toolbar-row, .md-toolbar.md-medium .md-toolbar-row {
  min-height: 64px; }
```

```
.md-toolbar.md-medium {
  min-height: 88px; }

.md-toolbar.md-large {
  min-height: 128px;
  -ms-flex-line-pack: inherit;
      align-content: inherit; }

.md-toolbar.md-large.md-dense {
  min-height: 96px; }

.md-toolbar.md-large.md-dense .md-toolbar-row + .md-toolbar-row {
  min-height: 32px; }

.md-toolbar .md-toolbar-offset {
  margin-left: 56px; }

.md-toolbar .md-button, .md-toolbar .md-icon {
  z-index: 1; }

.md-toolbar .md-button ~ .md-title, .md-toolbar .md-icon ~ .md-title {
  margin-left: 24px; }

.md-toolbar .md-button + .md-button, .md-toolbar .md-button:last-child {
  margin-right: 0; }

.md-toolbar .md-button:first-child {
  margin-left: 0; }

.md-toolbar .md-display-1, .md-toolbar .md-display-2, .md-toolbar .md-title {
  margin: 0;
  margin-left: 8px;
  overflow: hidden;
  font-weight: 400;
  letter-spacing: .02em;
  text-overflow: ellipsis;
  white-space: nowrap;
  vertical-align: top; }

.md-toolbar .md-display-1 {
  padding: 12px 0; }

.md-toolbar .md-field {
  margin-top: 2px;
  margin-bottom: 14px;
  padding-top: 16px; }
```

```
.md-toolbar-row {
  -ms-flex-item-align: start;
      align-self: flex-start; }

.md-toolbar-section-end, .md-toolbar-section-start {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: center;
  -ms-flex-align: center;
      align-items: center;
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1; }

.md-toolbar-section-start {
  -webkit-box-pack: start;
  -ms-flex-pack: start;
      justify-content: flex-start;
  -webkit-box-ordinal-group: 1;
  -ms-flex-order: 0;
      order: 0; }

.md-toolbar-section-end {
  -webkit-box-pack: end;
  -ms-flex-pack: end;
      justify-content: flex-end;
  -webkit-box-ordinal-group: 11;
  -ms-flex-order: 10;
      order: 10; }

@media (max-width: 944px) {
  .md-toolbar, .md-toolbar-row {
    min-height: 48px; }
  .md-toolbar {
    padding: 0 8px; }
  .md-toolbar .md-toolbar-offset {
    margin-left: 48px; }
  .md-toolbar .md-button ~ .md-title, .md-toolbar .md-icon ~ .md-title {
    margin-left: 16px; } }

@media (max-width: 600px) {
  .md-toolbar, .md-toolbar-row {
    min-height: 56px; } }
```

```
.md-table-empty-state {
  padding-left: 24px; }

.md-table-cell {
  height: 48px;
  position: relative;
  -webkit-transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  font-size: 13px;
  line-height: 18px; }

.md-table-cell.md-numeric {
  text-align: right; }

.md-table-cell:last-child .md-table-cell-container {
  padding-right: 24px; }

.md-table-cell-container {
  padding: 6px 32px 6px 24px; }

.md-table-pagination {
  height: 56px;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-flex: 1;
  -ms-flex: 1;
      flex: 1;
  -webkit-box-align: center;
  -ms-flex-align: center;
      align-items: center;
  -webkit-box-pack: end;
  -ms-flex-pack: end;
      justify-content: flex-end;
  border-top: 1px solid;
  font-size: 12px; }

.md-table-pagination .md-table-pagination-previous {
  margin-right: 2px;
  margin-left: 18px; }

.md-table-pagination .md-field {
  width: 48px;
  min-width: 36px;
  margin: -16px 24px 0 32px; }
```

```
.md-table-pagination .md-field:after, .md-table-pagination .md-field:before {
  display: none; }

.md-table-pagination .md-field .md-select-value {
  font-size: 13px; }

.md-menu-content.md-pagination-select {
  max-width: 82px;
  min-width: 56px;
  margin-top: 5px; }

.md-tabs {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-direction: column;
      flex-direction: column; }

.md-tabs.md-no-transition * {
  -webkit-transition: none !important;
  transition: none !important; }

.md-tabs.md-dynamic-height .md-tabs-content {
  -webkit-transition: height 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  transition: height 0.3s cubic-bezier(0.4, 0, 0.2, 1);
  will-change: height; }

.md-tabs.md-transparent .md-tabs-navigation {
  background-color: transparent !important; }

.md-tabs.md-dynamic-height .md-tabs-content {
  -webkit-transition: height 0.35s cubic-bezier(0.25, 0.8, 0.25, 1);
  transition: height 0.35s cubic-bezier(0.25, 0.8, 0.25, 1); }

.md-tabs.md-alignment-left .md-tabs-navigation {
  -webkit-box-pack: start;
  -ms-flex-pack: start;
      justify-content: flex-start; }

.md-tabs.md-alignment-right .md-tabs-navigation {
  -webkit-box-pack: end;
  -ms-flex-pack: end;
      justify-content: flex-end; }
```

```
.md-tabs.md-alignment-centered .md-tabs-navigation, .md-tabs.md-alignment-fixed .md-tabs-
        navigation {
  -webkit-box-pack: center;
  -ms-flex-pack: center;
     justify-content: center; }

.md-tabs.md-alignment-fixed .md-tabs-navigation .md-button {
  max-width: 264px;
  min-width: 160px;
  -webkit-box-flex: 1;
  -ms-flex: 1;
     flex: 1; }

.md-toolbar .md-tabs {
  padding-left: 48px; }

.md-tabs-navigation {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  position: relative; }

.md-tabs-navigation .md-button {
  max-width: 264px;
  min-width: 72px;
  height: 48px;
  margin: 0;
  cursor: pointer;
  border-radius: 0;
  font-size: 13px; }

.md-tabs-navigation .md-button-content {
  position: static; }

.md-tabs-navigation .md-icon-label {
  height: 72px; }

.md-tabs-navigation .md-icon-label .md-button-content {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
  -ms-flex-direction: column;
     flex-direction: column;
  -webkit-box-pack: center;
```

```
  -ms-flex-pack: center;
      justify-content: center; }

.md-tabs-navigation .md-icon-label .md-tab-icon + .md-tab-label {
  margin-top: 10px; }

.md-tabs-navigation .md-ripple {
  padding: 0 24px; }

.md-tabs-indicator {
  height: 2px;
  position: absolute;
  bottom: 0;
  left: 0;
  -webkit-transform: translateZ(0);
  transform: translateZ(0);
  will-change: left,right; }

.md-tabs-indicator.md-tabs-indicator-left {
  -webkit-transition: left 0.3s cubic-bezier(0.4, 0, 0.2, 1), right 0.35s cubic-bezier(0.4, 0, 0.2, 1);
  transition: left 0.3s cubic-bezier(0.4, 0, 0.2, 1), right 0.35s cubic-bezier(0.4, 0, 0.2, 1); }

.md-tabs-indicator.md-tabs-indicator-right {
  -webkit-transition: right 0.3s cubic-bezier(0.4, 0, 0.2, 1), left 0.35s cubic-bezier(0.4, 0, 0.2, 1);
  transition: right 0.3s cubic-bezier(0.4, 0, 0.2, 1), left 0.35s cubic-bezier(0.4, 0, 0.2, 1); }

.md-tabs-content {
  overflow: hidden;
  -webkit-transition: none;
  transition: none;
  will-change: height; }

.md-tabs-container {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: start;
  -ms-flex-align: start;
      align-items: flex-start;
  -ms-flex-wrap: nowrap;
      flex-wrap: nowrap;
  -webkit-transform: translateZ(0);
  transform: translateZ(0);
  transition: -webkit-transform 0.35s cubic-bezier(0.4, 0, 0.2, 1);
  -webkit-transition: -webkit-transform 0.35s cubic-bezier(0.4, 0, 0.2, 1);
  transition: transform 0.35s cubic-bezier(0.4, 0, 0.2, 1);
```

```
  transition: transform 0.35s cubic-bezier(0.4, 0, 0.2, 1), -webkit-transform 0.35s cubic-
        bezier(0.4, 0, 0.2, 1);
  will-change: transform; }

.md-tab {
  width: 100%;
  -webkit-box-flex: 1;
  -ms-flex: 1 0 100%;
     flex: 1 0 100%;
  padding: 16px; }

@media (max-width: 944px) {
  .md-tabs.md-alignment-fixed .md-tabs-navigation .md-button {
    min-width: 72px; }
  .md-toolbar .md-tabs {
    margin: 0 -8px;
    padding-left: 0; }
  .md-tabs-navigation .md-ripple {
    padding: 0 12px; }
  .md-tab {
    padding: 8px; } }

.md-tooltip {
  height: 22px;
  padding: 0 8px;
  position: fixed;
  z-index: 8;
  pointer-events: none;
  border-radius: 2px;
  -webkit-transition: 0.15s cubic-bezier(0, 0, 0.2, 1);
  transition: 0.15s cubic-bezier(0, 0, 0.2, 1);
  transition-property: opacity,-webkit-transform;
  -webkit-transition-property: opacity,-webkit-transform;
  transition-property: opacity,transform;
  transition-property: opacity,transform,-webkit-transform;
  will-change: opacity, transform, top, left !important;
  font-size: 10px;
  line-height: 22px;
  text-transform: none;
  white-space: nowrap; }

.md-tooltip.md-tooltip-leave-active {
  -webkit-transition-timing-function: cubic-bezier(0.4, 0, 1, 1);
        transition-timing-function: cubic-bezier(0.4, 0, 1, 1); }

.md-tooltip.md-tooltip-enter, .md-tooltip.md-tooltip-leave-active {
```

```
  opacity: 0; }

.md-tooltip.md-tooltip-enter.md-tooltip-top, .md-tooltip.md-tooltip-leave-active.md-tooltip-top {
  -webkit-transform: translate3d(0, 4px, 0) scale(0.95);
  transform: translate3d(0, 4px, 0) scale(0.95); }

.md-tooltip.md-tooltip-enter.md-tooltip-right, .md-tooltip.md-tooltip-leave-active.md-tooltip-
        right {
  -webkit-transform: translate3d(-4px, 0, 0) scale(0.95);
  transform: translate3d(-4px, 0, 0) scale(0.95); }

.md-tooltip.md-tooltip-enter.md-tooltip-bottom, .md-tooltip.md-tooltip-leave-active.md-tooltip-
        bottom {
  -webkit-transform: translate3d(0, -4px, 0) scale(0.95);
  transform: translate3d(0, -4px, 0) scale(0.95); }

.md-tooltip.md-tooltip-enter.md-tooltip-left, .md-tooltip.md-tooltip-leave-active.md-tooltip-left {
  -webkit-transform: translate3d(4px, 0, 0) scale(0.95);
  transform: translate3d(4px, 0, 0) scale(0.95); }

@media (max-width: 944px) {
  .md-tooltip {
    height: 32px;
    font-size: 14px;
    line-height: 32px; } }

:root {
  --md-theme-default-primary: #448aff;
  --md-theme-default-accent: #ff5252;
  --md-theme-default-theme: "light"; }

.md-theme-default :not(input):not(textarea)::-moz-selection {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent-on-background, #ff5252);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-theme-default :not(input):not(textarea)::selection {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent-on-background, #ff5252);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-theme-default a:not(.md-button) {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }
```

```
.md-theme-default a:not(.md-button):hover {
  color: rgba(68, 138, 255, 0.8);
  color: var(--md-theme-default-primary-on-background, rgba(68, 138, 255, 0.8)); }

.md-theme-default a:not(.md-button).md-accent {
  color: #ff5252;
  color: var(--md-theme-default-accent-on-background, #ff5252); }

.md-theme-default a:not(.md-button).md-accent:hover {
  color: rgba(255, 82, 82, 0.8);
  color: var(--md-theme-default-accent-on-background, rgba(255, 82, 82, 0.8)); }

html.md-theme-default {
  background-color: #fafafa;
  background-color: var(--md-theme-default-background-variant, #fafafa);
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background-variant, rgba(0, 0, 0, 0.87)); }

.md-theme-default .md-caption, .md-theme-default .md-display-1, .md-theme-default .md-
        display-2, .md-theme-default .md-display-3, .md-theme-default .md-display-4 {
  color: rgba(0, 0, 0, 0.54);
  color: var(--md-theme-default-text-accent-on-background-variant, rgba(0, 0, 0, 0.54)); }

.md-scrollbar.md-theme-default::-webkit-scrollbar-corner, .md-scrollbar.md-theme-default::-
        webkit-scrollbar-track {
  background: #e1e1e1;
  background: var(--md-theme-default-scrollbar-background-on-background-variant, #e1e1e1); }

.md-scrollbar.md-theme-default::-webkit-scrollbar-thumb {
  background: #757575;
  background: var(--md-theme-default-scrollbar-on-background-variant, #757575); }

.md-app:not(.md-overlap).md-theme-default {
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff); }

.md-list.md-theme-default .md-autocomplete-items .md-highlight-text-match {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-list.md-theme-default .md-autocomplete-loading {
  background-color: rgba(255, 255, 255, 0.54);
  background-color: var(--md-theme-default-background, rgba(255, 255, 255, 0.54)); }

.md-autocomplete.md-theme-default.md-autocomplete-box {
```

```
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff); }

.md-autocomplete.md-theme-default.md-autocomplete-box.md-focused label {
  color: rgba(0, 0, 0, 0.38);
  color: var(--md-theme-default-text-hint-on-background, rgba(0, 0, 0, 0.38)); }

.md-toolbar .md-autocomplete.md-theme-default.md-autocomplete-box {
  background-color: rgba(255, 255, 255, 0.12);
  background-color: var(--md-theme-default-background, rgba(255, 255, 255, 0.12)); }

.md-toolbar .md-autocomplete.md-theme-default.md-autocomplete-box label, .md-toolbar .md-
        autocomplete.md-theme-default.md-autocomplete-box input {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff);
  -webkit-text-fill-color: #fff;
  -webkit-text-fill-color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-toolbar .md-autocomplete.md-theme-default.md-autocomplete-box svg {
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-toolbar .md-autocomplete.md-theme-default.md-autocomplete-box.md-focused {
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff); }

.md-toolbar .md-autocomplete.md-theme-default.md-autocomplete-box.md-focused label, .md-
        toolbar .md-autocomplete.md-theme-default.md-autocomplete-box.md-focused input {
  color: rgba(0, 0, 0, 0.38);
  color: var(--md-theme-default-text-hint-on-background, rgba(0, 0, 0, 0.38));
  -webkit-text-fill-color: rgba(0, 0, 0, 0.38);
  -webkit-text-fill-color: var(--md-theme-default-text-hint-on-background, rgba(0, 0, 0, 0.38)); }

.md-toolbar .md-autocomplete.md-theme-default.md-autocomplete-box.md-focused svg {
  fill: rgba(0, 0, 0, 0.38);
  fill: var(--md-theme-default-text-hint-on-background, rgba(0, 0, 0, 0.38)); }

.md-autocomplete-box-content.md-theme-default:after {
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff);
  border-bottom-color: rgba(0, 0, 0, 0.12);
  border-bottom-color: var(--md-theme-default-divider, rgba(0, 0, 0, 0.12)); }

.md-avatar.md-theme-default.md-avatar-icon {
  background-color: rgba(0, 0, 0, 0.38);
  background-color: var(--md-theme-default-icon-disabled, rgba(0, 0, 0, 0.38));
```

```
  color: #fff;
  color: var(--md-theme-default-text-primary-on-icon-disabled, #fff); }

.md-avatar.md-theme-default.md-avatar-icon .md-icon {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-icon-disabled, #fff);
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-icon-disabled, #fff); }

.md-avatar.md-theme-default.md-primary {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff); }

.md-avatar.md-theme-default.md-primary.md-avatar-icon {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-avatar.md-theme-default.md-primary.md-avatar-icon .md-icon {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff);
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-avatar.md-theme-default.md-accent {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent, #ff5252); }

.md-avatar.md-theme-default.md-accent.md-avatar-icon {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent, #ff5252);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-avatar.md-theme-default.md-accent.md-avatar-icon .md-icon {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff);
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-bottom-bar.md-theme-default.md-type-fixed {
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff); }

.md-bottom-bar.md-theme-default.md-type-fixed .md-bottom-bar-item.md-active {
```

```
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-bottom-bar.md-theme-default.md-type-fixed .md-bottom-bar-item.md-active .md-icon {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-bottom-bar.md-theme-default.md-type-fixed .md-bottom-bar-item.md-active .md-icon svg {
  fill: #448aff;
  fill: var(--md-theme-default-primary-on-background, #448aff); }

.md-bottom-bar.md-theme-default.md-type-shift {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff);
  color: rgba(255, 255, 255, 0.7);
  color: var(--md-theme-default-text-primary-on-primary, rgba(255, 255, 255, 0.7)); }

.md-bottom-bar.md-theme-default.md-type-shift > .md-ripple .md-ripple-wave {
  background-color: #116aff;
  background-color: var(--md-theme-default-primary-on-primary, #116aff); }

.md-bottom-bar.md-theme-default.md-type-shift .md-icon {
  color: #fff;
  color: var(--md-theme-default-icon-on-primary, #fff); }

.md-bottom-bar.md-theme-default.md-type-shift .md-icon svg {
  fill: #fff;
  fill: var(--md-theme-default-icon-on-primary, #fff); }

.md-bottom-bar.md-theme-default.md-type-shift .md-bottom-bar-item {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-bottom-bar.md-theme-default.md-type-shift .md-bottom-bar-item .md-active .md-icon {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-bottom-bar.md-theme-default.md-type-shift .md-bottom-bar-item .md-active .md-icon svg {
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-bottom-bar.md-theme-default.md-accent.md-type-fixed {
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff); }

.md-bottom-bar.md-theme-default.md-accent.md-type-fixed .md-bottom-bar-item.md-active {
```

```
  color: #ff5252;
  color: var(--md-theme-default-accent-on-background, #ff5252); }

.md-bottom-bar.md-theme-default.md-accent.md-type-fixed .md-bottom-bar-item.md-
        active .md-icon {
  color: #ff5252;
  color: var(--md-theme-default-accent-on-background, #ff5252); }

.md-bottom-bar.md-theme-default.md-accent.md-type-fixed .md-bottom-bar-item.md-
        active .md-icon svg {
  fill: #ff5252;
  fill: var(--md-theme-default-accent-on-background, #ff5252); }

.md-bottom-bar.md-theme-default.md-accent.md-type-shift {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent, #ff5252);
  color: rgba(255, 255, 255, 0.7);
  color: var(--md-theme-default-text-primary-on-accent, rgba(255, 255, 255, 0.7)); }

.md-bottom-bar.md-theme-default.md-accent.md-type-shift > .md-ripple .md-ripple-wave {
  background-color: #ff1f1f;
  background-color: var(--md-theme-default-accent-on-accent, #ff1f1f); }

.md-bottom-bar.md-theme-default.md-accent.md-type-shift .md-icon {
  color: #fff;
  color: var(--md-theme-default-icon-on-accent, #fff); }

.md-bottom-bar.md-theme-default.md-accent.md-type-shift .md-icon svg {
  fill: #fff;
  fill: var(--md-theme-default-icon-on-accent, #fff); }

.md-bottom-bar.md-theme-default.md-accent.md-type-shift .md-bottom-bar-item {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-bottom-bar.md-theme-default.md-accent.md-type-shift .md-bottom-bar-item .md-
        active .md-icon {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-bottom-bar.md-theme-default.md-accent.md-type-shift .md-bottom-bar-item .md-
        active .md-icon svg {
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-button.md-theme-default {
```

```
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-button.md-theme-default.md-primary {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-button.md-theme-default.md-primary .md-icon-font {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-button.md-theme-default.md-primary .md-icon-image {
  fill: #448aff;
  fill: var(--md-theme-default-primary-on-background, #448aff); }

.md-button.md-theme-default.md-accent {
  color: #ff5252;
  color: var(--md-theme-default-accent-on-background, #ff5252); }

.md-button.md-theme-default.md-accent .md-icon-font {
  color: #ff5252;
  color: var(--md-theme-default-accent-on-background, #ff5252); }

.md-button.md-theme-default.md-accent .md-icon-image {
  fill: #ff5252;
  fill: var(--md-theme-default-accent-on-background, #ff5252); }

.md-button.md-theme-default.md-raised[disabled] {
  background-color: rgba(0, 0, 0, 0.12);
  background-color: var(--md-theme-default-disabled-background-on-background, rgba(0, 0, 0,
        0.12));
  color: rgba(0, 0, 0, 0.26);
  color: var(--md-theme-default-disabled, rgba(0, 0, 0, 0.26)); }

.md-button.md-theme-default.md-raised:not([disabled]) {
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff);
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-button.md-theme-default.md-raised:not([disabled]).md-primary {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff);
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff); }
```

```
.md-button.md-theme-default.md-raised:not([disabled]).md-primary .md-icon-font {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-button.md-theme-default.md-raised:not([disabled]).md-primary .md-icon-image {
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-button.md-theme-default.md-raised:not([disabled]).md-accent {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff);
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent, #ff5252); }

.md-button.md-theme-default.md-raised:not([disabled]).md-accent .md-icon-font {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-button.md-theme-default.md-raised:not([disabled]).md-accent .md-icon-image {
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-button.md-theme-default.md-fab[disabled] {
  background-color: rgba(0, 0, 0, 0.12);
  background-color: var(--md-theme-default-disabled-background-on-background, rgba(0, 0, 0,
        0.12)); }

.md-button.md-theme-default.md-fab:not([disabled]) {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent, #ff5252); }

.md-button.md-theme-default.md-fab:not([disabled]) .md-icon-font {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-button.md-theme-default.md-fab:not([disabled]) .md-icon-image {
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-button.md-theme-default.md-fab:not([disabled]).md-primary {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff); }

.md-button.md-theme-default.md-fab:not([disabled]).md-primary .md-icon-font {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }
```

```
.md-button.md-theme-default.md-fab:not([disabled]).md-primary .md-icon-image {
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-button.md-theme-default[disabled] {
  color: rgba(0, 0, 0, 0.26);
  color: var(--md-theme-default-disabled-on-background, rgba(0, 0, 0, 0.26)); }

.md-button.md-theme-default[disabled] .md-icon-font {
  color: rgba(0, 0, 0, 0.38);
  color: var(--md-theme-default-icon-disabled-on-background, rgba(0, 0, 0, 0.38)); }

.md-button.md-theme-default[disabled] .md-icon-image {
  fill: rgba(0, 0, 0, 0.38);
  fill: var(--md-theme-default-icon-disabled-on-background, rgba(0, 0, 0, 0.38)); }

.md-card.md-theme-default {
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff);
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-card.md-theme-default .md-card-expand .md-card-actions {
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff); }

.md-card.md-theme-default .md-card-header .md-button:not(.md-primary):not(.md-accent), .md-
        card.md-theme-default .md-card-actions .md-button:not(.md-primary):not(.md-accent) {
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-card.md-theme-default .md-card-header .md-button:not(.md-primary):not(.md-accent).md-
        icon-button .md-icon, .md-card.md-theme-default .md-card-actions .md-button:not(.md-
        primary):not(.md-accent).md-icon-button .md-icon {
  color: rgba(0, 0, 0, 0.54);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.54));
  fill: rgba(0, 0, 0, 0.54);
  fill: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.54)); }

.md-card.md-theme-default > .md-card-area:after {
  background-color: rgba(0, 0, 0, 0.12);
  background-color: var(--md-theme-default-divider-on-background, rgba(0, 0, 0, 0.12)); }

.md-card.md-theme-default.md-primary {
  background-color: #448aff;
```

```
  background-color: var(--md-theme-default-primary, #448aff);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-card.md-theme-default.md-primary .md-card-expand .md-card-actions {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff); }

.md-card.md-theme-default.md-primary .md-card-header .md-button:not(.md-primary):not(.md-
        accent), .md-card.md-theme-default.md-primary .md-card-actions .md-button:not(.md-
        primary):not(.md-accent) {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-card.md-theme-default.md-primary .md-card-header .md-button:not(.md-primary):not(.md-
        accent).md-icon-button .md-icon, .md-card.md-theme-default.md-primary .md-card-
        actions .md-button:not(.md-primary):not(.md-accent).md-icon-button .md-icon {
  color: rgba(255, 255, 255, 0.54);
  color: var(--md-theme-default-text-primary-on-primary, rgba(255, 255, 255, 0.54));
  fill: rgba(255, 255, 255, 0.54);
  fill: var(--md-theme-default-text-primary-on-primary, rgba(255, 255, 255, 0.54)); }

.md-card.md-theme-default.md-primary > .md-card-area:after {
  background-color: rgba(255, 255, 255, 0.12);
  background-color: var(--md-theme-default-divider-on-primary, rgba(255, 255, 255, 0.12)); }

.md-card.md-theme-default.md-accent {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent, #ff5252);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-card.md-theme-default.md-accent .md-card-expand .md-card-actions {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent, #ff5252); }

.md-card.md-theme-default.md-accent .md-card-header .md-button:not(.md-primary):not(.md-
        accent), .md-card.md-theme-default.md-accent .md-card-actions .md-button:not(.md-
        primary):not(.md-accent) {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-card.md-theme-default.md-accent .md-card-header .md-button:not(.md-primary):not(.md-
        accent).md-icon-button .md-icon, .md-card.md-theme-default.md-accent .md-card-
        actions .md-button:not(.md-primary):not(.md-accent).md-icon-button .md-icon {
  color: rgba(255, 255, 255, 0.54);
```

```
  color: var(--md-theme-default-text-primary-on-accent, rgba(255, 255, 255, 0.54));
  fill: rgba(255, 255, 255, 0.54);
  fill: var(--md-theme-default-text-primary-on-accent, rgba(255, 255, 255, 0.54)); }

.md-card.md-theme-default.md-accent > .md-card-area:after {
  background-color: rgba(255, 255, 255, 0.12);
  background-color: var(--md-theme-default-divider-on-accent, rgba(255, 255, 255, 0.12)); }

.md-checkbox.md-theme-default.md-checked .md-checkbox-container {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent, #ff5252);
  border-color: #ff5252;
  border-color: var(--md-theme-default-accent, #ff5252); }

.md-checkbox.md-theme-default.md-checked .md-checkbox-container:after {
  border-color: #fff;
  border-color: var(--md-theme-default-background, #fff); }

.md-checkbox.md-theme-default.md-checked .md-ripple {
  color: #ff5252;
  color: var(--md-theme-default-accent, #ff5252); }

.md-checkbox.md-theme-default.md-checked.md-primary .md-checkbox-container {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff);
  border-color: #448aff;
  border-color: var(--md-theme-default-primary, #448aff); }

.md-checkbox.md-theme-default.md-checked.md-primary .md-ripple {
  color: #448aff;
  color: var(--md-theme-default-primary, #448aff); }

.md-checkbox.md-theme-default .md-checkbox-container {
  border-color: rgba(0, 0, 0, 0.54); }

.md-checkbox.md-theme-default.md-disabled .md-checkbox-container {
  border-color: rgba(0, 0, 0, 0.26); }

.md-checkbox.md-theme-default.md-disabled.md-checked .md-checkbox-container {
  border-color: rgba(0, 0, 0, 0.26);
  background-color: rgba(0, 0, 0, 0.26); }

.md-chip.md-theme-default {
  background-color: rgba(0, 0, 0, 0.12);
  background-color: var(--md-theme-default-highlight, rgba(0, 0, 0, 0.12));
  color: rgba(0, 0, 0, 0.87);
```

```
  color: var(--md-theme-default-text-primary, rgba(0, 0, 0, 0.87)); }

.md-chip.md-theme-default .md-icon.md-icon-image svg {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-text-primary, #fff);
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-text-primary, #fff); }

.md-chip.md-theme-default.md-deletable:not(.md-disabled):hover, .md-chip.md-theme-
        default.md-clickable:not(.md-disabled):hover {
  background-color: rgba(0, 0, 0, 0.54);
  background-color: var(--md-theme-default-icon, rgba(0, 0, 0, 0.54));
  color: #fff;
  color: var(--md-theme-default-text-primary-on-icon, #fff); }

.md-chip.md-theme-default.md-deletable:not(.md-disabled):hover .md-icon, .md-chip.md-theme-
        default.md-clickable:not(.md-disabled):hover .md-icon {
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-icon, #fff); }

.md-chip.md-theme-default.md-deletable:not(.md-disabled):hover .md-input-action, .md-
        chip.md-theme-default.md-clickable:not(.md-disabled):hover .md-input-action {
  background-color: rgba(255, 255, 255, 0.87);
  background-color: var(--md-theme-default-background, rgba(255, 255, 255, 0.87));
  color: rgba(0, 0, 0, 0.54);
  color: var(--md-theme-default-icon-on-background, rgba(0, 0, 0, 0.54)); }

.md-chip.md-theme-default.md-deletable:not(.md-disabled):hover .md-input-action .md-icon
        svg, .md-chip.md-theme-default.md-clickable:not(.md-disabled):hover .md-input-
        action .md-icon svg {
  fill: rgba(0, 0, 0, 0.54);
  fill: var(--md-theme-default-icon-on-background, rgba(0, 0, 0, 0.54));
  color: rgba(0, 0, 0, 0.54);
  color: var(--md-theme-default-icon-on-background, rgba(0, 0, 0, 0.54)); }

.md-chip.md-theme-default.md-primary {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-chip.md-theme-default.md-primary .md-input-action {
  color: #fff;
  color: var(--md-theme-default-icon-on-disabled, #fff);
  background-color: rgba(0, 0, 0, 0.26);
  background-color: var(--md-theme-default-disabled, rgba(0, 0, 0, 0.26)); }
```

```
.md-chip.md-theme-default.md-primary.md-deletable:not(.md-disabled):hover, .md-chip.md-
        theme-default.md-primary.md-clickable:not(.md-disabled):hover {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-icon, #fff);
  background-color: rgba(0, 0, 0, 0.54);
  background-color: var(--md-theme-default-icon, rgba(0, 0, 0, 0.54)); }

.md-chip.md-theme-default.md-primary.md-deletable:not(.md-disabled):hover .md-input-
        action, .md-chip.md-theme-default.md-primary.md-clickable:not(.md-
        disabled):hover .md-input-action {
  background-color: rgba(255, 255, 255, 0.87);
  background-color: var(--md-theme-default-background, rgba(255, 255, 255, 0.87)); }

.md-chip.md-theme-default.md-accent {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent, #ff5252);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-chip.md-theme-default.md-accent .md-input-action {
  color: #fff;
  color: var(--md-theme-default-icon-on-disabled, #fff);
  background-color: rgba(0, 0, 0, 0.26);
  background-color: var(--md-theme-default-disabled, rgba(0, 0, 0, 0.26)); }

.md-chip.md-theme-default.md-accent.md-deletable:not(.md-disabled):hover, .md-chip.md-
        theme-default.md-accent.md-clickable:not(.md-disabled):hover {
  background-color: rgba(0, 0, 0, 0.54);
  background-color: var(--md-theme-default-icon, rgba(0, 0, 0, 0.54));
  color: #fff;
  color: var(--md-theme-default-text-primary-on-icon, #fff); }

.md-chip.md-theme-default.md-accent.md-deletable:not(.md-disabled):hover .md-input-
        action, .md-chip.md-theme-default.md-accent.md-clickable:not(.md-disabled):hover .md-
        input-action {
  background-color: rgba(255, 255, 255, 0.87);
  background-color: var(--md-theme-default-background, rgba(255, 255, 255, 0.87)); }

.md-chip.md-theme-default.md-disabled {
  background-color: rgba(0, 0, 0, 0.1);
  background-color: var(--md-theme-default-highlight, rgba(0, 0, 0, 0.1));
  color: rgba(0, 0, 0, 0.54);
  color: var(--md-theme-default-text-accent, rgba(0, 0, 0, 0.54)); }

.md-chips.md-theme-default .md-clear {
```

```
  background-color: rgba(0, 0, 0, 0.2); }

.md-content.md-theme-default {
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff);
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-content.md-theme-default.md-primary {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-content.md-theme-default.md-accent {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent, #ff5252);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-app .md-content.md-theme-default {
  border-left-color: rgba(0, 0, 0, 0.12);
  border-left-color: var(--md-theme-default-divider-on-background, rgba(0, 0, 0, 0.12)); }

.md-datepicker-dialog.md-theme-default {
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff);
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-datepicker-dialog.md-theme-default .md-datepicker-header {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-datepicker-dialog.md-theme-default .md-datepicker-body-header:after, .md-datepicker-
        dialog.md-theme-default .md-datepicker-body-header:before {
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff); }

.md-datepicker-dialog.md-theme-default .md-datepicker-body-footer {
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff);
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }
```

```
.md-datepicker-dialog.md-theme-default .md-datepicker-week {
  color: rgba(0, 0, 0, 0.54);
  color: var(--md-theme-default-text-accent-on-background, rgba(0, 0, 0, 0.54)); }

.md-datepicker-dialog.md-theme-default .md-datepicker-disabled {
  color: rgba(0, 0, 0, 0.26);
  color: var(--md-theme-default-disabled-on-background, rgba(0, 0, 0, 0.26)); }

.md-datepicker-dialog.md-theme-default .md-datepicker-today {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-datepicker-dialog.md-theme-default .md-datepicker-day-button:hover, .md-datepicker-
        dialog.md-theme-default .md-datepicker-month-button:hover, .md-datepicker-dialog.md-
        theme-default .md-datepicker-year-button:hover {
  background-color: rgba(0, 0, 0, 0.12);
  background-color: var(--md-theme-default-divider, rgba(0, 0, 0, 0.12)); }

.md-datepicker-dialog.md-theme-default .md-datepicker-day-button.md-datepicker-selected {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-datepicker-dialog.md-theme-default .md-datepicker-month-button.md-datepicker-
        selected, .md-datepicker-dialog.md-theme-default .md-datepicker-year-button.md-
        datepicker-selected {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-datepicker-dialog.md-theme-default .md-datepicker-year-selector {
  border-bottom-color: rgba(0, 0, 0, 0.12);
  border-bottom-color: var(--md-theme-default-divider-on-background, rgba(0, 0, 0, 0.12)); }

.md-dialog.md-theme-default {
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff);
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-divider.md-theme-default {
  background-color: rgba(0, 0, 0, 0.12);
  background-color: var(--md-theme-default-divider, rgba(0, 0, 0, 0.12)); }

.md-drawer.md-theme-default {
```

```
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff);
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-drawer.md-theme-default.md-persistent-mini {
  border-right-color: rgba(0, 0, 0, 0.12);
  border-right-color: var(--md-theme-default-divider-on-background, rgba(0, 0, 0, 0.12)); }

.md-empty-state.md-theme-default .md-empty-state-icon.md-icon-image svg {
  fill: rgba(0, 0, 0, 0.26);
  fill: var(--md-theme-default-disabled-on-background, rgba(0, 0, 0, 0.26)); }

.md-empty-state.md-theme-default .md-empty-state-icon.md-icon-font {
  color: rgba(0, 0, 0, 0.26);
  color: var(--md-theme-default-disabled-on-background, rgba(0, 0, 0, 0.26)); }

.md-empty-state.md-theme-default.md-rounded {
  background-color: rgba(0, 0, 0, 0.06);
  background-color: var(--md-theme-default-disabled, rgba(0, 0, 0, 0.06)); }

.md-empty-state.md-theme-default.md-primary .md-empty-state-icon.md-icon-image svg {
  fill: #448aff;
  fill: var(--md-theme-default-primary-on-background, #448aff); }

.md-empty-state.md-theme-default.md-primary .md-empty-state-icon.md-icon-font {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-empty-state.md-theme-default.md-accent .md-empty-state-icon.md-icon-image svg {
  fill: #ff5252;
  fill: var(--md-theme-default-accent-on-background, #ff5252); }

.md-empty-state.md-theme-default.md-accent .md-empty-state-icon.md-icon-font {
  color: #ff5252;
  color: var(--md-theme-default-accent-on-background, #ff5252); }

.md-field.md-theme-default:after {
  background-color: rgba(0, 0, 0, 0.42); }

.md-field.md-theme-default:before {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff); }

.md-field.md-theme-default .md-helper-text, .md-field.md-theme-default .md-count, .md-
        field.md-theme-default label {
```

```
  color: rgba(0, 0, 0, 0.54); }

.md-field.md-theme-default .md-input::-webkit-input-placeholder, .md-field.md-theme-
        default .md-textarea::-webkit-input-placeholder {
  color: rgba(0, 0, 0, 0.54); }

.md-field.md-theme-default.md-focused .md-input, .md-field.md-theme-default.md-focused .md-
        textarea, .md-field.md-theme-default.md-has-value .md-input, .md-field.md-theme-
        default.md-has-value .md-textarea {
  -webkit-text-fill-color: rgba(0, 0, 0, 0.87); }

.md-field.md-theme-default.md-has-textarea:not(.md-autogrow):after {
  border-color: rgba(0, 0, 0, 0.42); }

.md-field.md-theme-default.md-has-textarea:not(.md-autogrow):before {
  border-color: #448aff;
  border-color: var(--md-theme-default-primary, #448aff); }

.md-field.md-theme-default.md-disabled:after {
  background-image: -webkit-gradient(linear, left top, right top, from(rgba(0, 0, 0, 0.38)), color-
        stop(33%, rgba(0, 0, 0, 0.38)), color-stop(0%, transparent));
  background-image: linear-gradient(to right, rgba(0, 0, 0, 0.38) 0%, rgba(0, 0, 0, 0.38) 33%,
        transparent 0%); }

.md-field.md-theme-default.md-disabled label, .md-field.md-theme-default.md-disabled .md-
        input, .md-field.md-theme-default.md-disabled .md-textarea {
  color: rgba(0, 0, 0, 0.42); }

.md-field.md-theme-default > .md-icon:after {
  background-color: #fafafa;
  background-color: var(--md-theme-default-background-variant, #fafafa); }

.md-field.md-theme-default.md-invalid:after {
  background-color: #ff1744;
  background-color: var(--md-theme-default-fieldvariant, #ff1744); }

.md-field.md-theme-default.md-invalid.md-has-textarea:not(.md-autogrow):before {
  border-color: #ff1744;
  border-color: var(--md-theme-default-fieldvariant, #ff1744); }

.md-field.md-theme-default.md-invalid label {
  color: #ff1744;
  color: var(--md-theme-default-fieldvariant, #ff1744); }

.md-field.md-theme-default.md-invalid .md-error {
  color: #ff1744;
```

```
  color: var(--md-theme-default-fieldvariant, #ff1744); }

.md-field.md-theme-default.md-invalid .md-date-icon, .md-field.md-theme-default.md-
        invalid .md-date-icon svg {
  color: #ff1744;
  color: var(--md-theme-default-fieldvariant, #ff1744);
  fill: #ff1744;
  fill: var(--md-theme-default-fieldvariant, #ff1744); }

.md-field.md-theme-default.md-focused .md-input, .md-field.md-theme-default.md-focused .md-
        textarea, .md-field.md-theme-default.md-highlight .md-input, .md-field.md-theme-
        default.md-highlight .md-textarea {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-field.md-theme-default.md-focused > .md-icon, .md-field.md-theme-default.md-
        highlight > .md-icon {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff);
  fill: #448aff;
  fill: var(--md-theme-default-primary-on-background, #448aff); }

.md-field.md-theme-default.md-focused label {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-field.md-theme-default.md-disabled .md-icon svg {
  fill: rgba(0, 0, 0, 0.26);
  fill: var(--md-theme-default-disabled-on-background, rgba(0, 0, 0, 0.26)); }

.md-icon.md-theme-default.md-icon-image svg {
  fill: rgba(0, 0, 0, 0.54);
  fill: var(--md-theme-default-icon-on-background, rgba(0, 0, 0, 0.54)); }

.md-icon.md-theme-default.md-icon-image svg.md-primary {
  fill: #448aff;
  fill: var(--md-theme-default-primary-on-background, #448aff); }

.md-icon.md-theme-default.md-icon-image svg.md-accent {
  fill: #ff5252;
  fill: var(--md-theme-default-accent-on-background, #ff5252); }

.md-icon.md-theme-default.md-icon-font {
  color: rgba(0, 0, 0, 0.54);
  color: var(--md-theme-default-icon-on-background, rgba(0, 0, 0, 0.54)); }
```

```
.md-icon.md-theme-default.md-icon-font.md-primary {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-icon.md-theme-default.md-icon-font.md-accent {
  color: #ff5252;
  color: var(--md-theme-default-accent-on-background, #ff5252); }

.md-list.md-theme-default {
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff);
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-list.md-theme-default.md-double-line .md-list-item-text :nth-child(2) {
  color: rgba(0, 0, 0, 0.54);
  color: var(--md-theme-default-text-accent-on-background, rgba(0, 0, 0, 0.54)); }

.md-list.md-theme-default.md-triple-line .md-list-item-text :nth-child(3) {
  color: rgba(0, 0, 0, 0.54);
  color: var(--md-theme-default-text-accent-on-background, rgba(0, 0, 0, 0.54)); }

.md-list.md-theme-default .md-highlight .md-list-item-container {
  background-color: rgba(0, 0, 0, 0.12);
  background-color: var(--md-theme-default-divider-on-background, rgba(0, 0, 0, 0.12)); }

.md-list.md-theme-default .md-list-item-container {
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-list.md-theme-default .md-list-item-container:not(.md-list-item-
        default):not([disabled]):hover {
  background-color: rgba(0, 0, 0, 0.12);
  background-color: var(--md-theme-default-divider-on-background, rgba(0, 0, 0, 0.12));
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-list.md-theme-default [disabled] {
  color: rgba(0, 0, 0, 0.26);
  color: var(--md-theme-default-disabled-on-background, rgba(0, 0, 0, 0.26)); }

.md-list.md-theme-default .md-selected .md-list-item-content, .md-list.md-theme-default .router-
        link-exact-active .md-list-item-content {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }
```

```
.md-list.md-theme-default .md-list-item-expand.md-active {
  border-color: rgba(0, 0, 0, 0.12);
  border-color: var(--md-theme-default-divider-on-background, rgba(0, 0, 0, 0.12)); }

.md-menu-item.md-theme-default.md-primary .md-list-item-link, .md-menu-item.md-theme-
        default.md-primary .md-list-item-router, .md-menu-item.md-theme-default.md-
        primary .md-list-item-button {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-menu-item.md-theme-default.md-accent .md-list-item-link, .md-menu-item.md-theme-
        default.md-accent .md-list-item-router, .md-menu-item.md-theme-default.md-accent .md-
        list-item-button {
  color: #ff5252;
  color: var(--md-theme-default-accent-on-background, #ff5252); }

.md-progress-bar.md-theme-default.md-indeterminate, .md-progress-bar.md-theme-default.md-
        query {
  background-color: rgba(68, 138, 255, 0.38);
  background-color: var(--md-theme-default-primary-on-, rgba(68, 138, 255, 0.38)); }

.md-progress-bar.md-theme-default.md-indeterminate .md-progress-bar-track:after, .md-
        progress-bar.md-theme-default.md-indeterminate .md-progress-bar-fill:after, .md-
        progress-bar.md-theme-default.md-query .md-progress-bar-track:after, .md-progress-
        bar.md-theme-default.md-query .md-progress-bar-fill:after {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff); }

.md-progress-bar.md-theme-default.md-indeterminate.md-accent, .md-progress-bar.md-theme-
        default.md-query.md-accent {
  background-color: rgba(255, 82, 82, 0.38);
  background-color: var(--md-theme-default-accent-on-, rgba(255, 82, 82, 0.38)); }

.md-progress-bar.md-theme-default.md-indeterminate.md-accent .md-progress-bar-
        track:after, .md-progress-bar.md-theme-default.md-indeterminate.md-accent .md-
        progress-bar-fill:after, .md-progress-bar.md-theme-default.md-query.md-accent .md-
        progress-bar-track:after, .md-progress-bar.md-theme-default.md-query.md-accent .md-
        progress-bar-fill:after {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent, #ff5252); }

.md-progress-bar.md-theme-default.md-determinate {
  background-color: rgba(68, 138, 255, 0.38);
  background-color: var(--md-theme-default-primary-on-, rgba(68, 138, 255, 0.38)); }

.md-progress-bar.md-theme-default.md-determinate .md-progress-bar-fill {
```

```
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff); }

.md-progress-bar.md-theme-default.md-determinate.md-accent {
  background-color: rgba(255, 82, 82, 0.38);
  background-color: var(--md-theme-default-accent-on-, rgba(255, 82, 82, 0.38)); }

.md-progress-bar.md-theme-default.md-determinate.md-accent .md-progress-bar-fill {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent, #ff5252); }

.md-progress-bar.md-theme-default.md-buffer .md-progress-bar-fill {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff); }

.md-progress-bar.md-theme-default.md-buffer .md-progress-bar-track {
  background-color: rgba(68, 138, 255, 0.38);
  background-color: var(--md-theme-default-primary-on-, rgba(68, 138, 255, 0.38)); }

.md-progress-bar.md-theme-default.md-buffer .md-progress-bar-buffer {
  border-color: rgba(68, 138, 255, 0.38);
  border-color: var(--md-theme-default-primary-on-, rgba(68, 138, 255, 0.38)); }

.md-progress-bar.md-theme-default.md-buffer.md-accent .md-progress-bar-fill {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent, #ff5252); }

.md-progress-bar.md-theme-default.md-buffer.md-accent .md-progress-bar-track {
  background-color: rgba(255, 82, 82, 0.38);
  background-color: var(--md-theme-default-accent-on-, rgba(255, 82, 82, 0.38)); }

.md-progress-bar.md-theme-default.md-buffer.md-accent .md-progress-bar-buffer {
  border-color: rgba(255, 82, 82, 0.38);
  border-color: var(--md-theme-default-accent-on-, rgba(255, 82, 82, 0.38)); }

.md-progress-spinner.md-theme-default .md-progress-spinner-circle {
  stroke: #448aff;
  stroke: var(--md-theme-default-primary, #448aff); }

.md-progress-spinner.md-theme-default.md-accent .md-progress-spinner-circle {
  stroke: #ff5252;
  stroke: var(--md-theme-default-accent, #ff5252); }

.md-radio.md-theme-default.md-checked .md-radio-container {
  border-color: #ff5252;
  border-color: var(--md-theme-default-accent, #ff5252); }
```

```
.md-radio.md-theme-default.md-checked .md-radio-container:after {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent, #ff5252); }

.md-radio.md-theme-default.md-checked .md-ripple {
  color: #ff5252;
  color: var(--md-theme-default-accent, #ff5252); }

.md-radio.md-theme-default.md-checked.md-primary .md-radio-container {
  border-color: #448aff;
  border-color: var(--md-theme-default-primary, #448aff); }

.md-radio.md-theme-default.md-checked.md-primary .md-radio-container:after {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff); }

.md-radio.md-theme-default.md-checked.md-primary .md-ripple {
  color: #448aff;
  color: var(--md-theme-default-primary, #448aff); }

.md-radio.md-theme-default .md-radio-container {
  border-color: rgba(0, 0, 0, 0.54); }

.md-radio.md-theme-default.md-disabled .md-radio-container {
  border-color: rgba(0, 0, 0, 0.26); }

.md-radio.md-theme-default.md-disabled.md-checked .md-radio-container {
  border-color: rgba(0, 0, 0, 0.26); }

.md-radio.md-theme-default.md-disabled.md-checked .md-radio-container:after {
  background-color: rgba(0, 0, 0, 0.26); }

.md-snackbar.md-theme-default {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-text-primary, #fff);
  background-color: #323232; }

.md-steppers.md-theme-default {
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff);
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-steppers.md-theme-default .md-stepper-icon:after, .md-steppers.md-theme-default .md-
        stepper-icon:before, .md-steppers.md-theme-default .md-stepper-number:after, .md-
```

```
        steppers.md-theme-default .md-stepper-number:before, .md-steppers.md-theme-
        default .md-stepper:after, .md-steppers.md-theme-default .md-stepper:before {
  background-color: rgba(0, 0, 0, 0.12);
  background-color: var(--md-theme-default-divider-on-background, rgba(0, 0, 0, 0.12)); }

.md-steppers.md-theme-default .md-stepper-number {
  background-color: rgba(0, 0, 0, 0.38);
  background-color: var(--md-theme-default-text-hint-on-background, rgba(0, 0, 0, 0.38));
  color: #fff;
  color: var(--md-theme-default-text-primary-on-text-hint, #fff); }

.md-steppers.md-theme-default .md-stepper-number svg {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-text-hint, #fff);
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-text-hint, #fff); }

.md-steppers.md-theme-default .md-stepper-header .md-button-content {
  color: rgba(0, 0, 0, 0.38);
  color: var(--md-theme-default-text-hint-on-background, rgba(0, 0, 0, 0.38)); }

.md-steppers.md-theme-default .md-stepper-header .md-button-content:after, .md-steppers.md-
        theme-default .md-stepper-header .md-button-content:before {
  background-color: rgba(0, 0, 0, 0.12);
  background-color: var(--md-theme-default-divider-on-background, rgba(0, 0, 0, 0.12)); }

.md-steppers.md-theme-default .md-stepper-header.md-active .md-button-content, .md-
        steppers.md-theme-default .md-stepper-header.md-done .md-button-content {
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-steppers.md-theme-default .md-stepper-header.md-active .md-stepper-number, .md-
        steppers.md-theme-default .md-stepper-header.md-done .md-stepper-number {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary-on-background, #448aff);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-steppers.md-theme-default .md-stepper-header.md-active .md-stepper-number svg, .md-
        steppers.md-theme-default .md-stepper-header.md-done .md-stepper-number svg {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff);
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-steppers.md-theme-default .md-stepper-header.md-error .md-button-content {
```

```
  color: #ff1744;
  color: var(--md-theme-default-steppervariant, #ff1744); }

.md-steppers.md-theme-default .md-stepper-header.md-error .md-icon svg {
  color: #ff1744;
  color: var(--md-theme-default-steppervariant, #ff1744);
  fill: #ff1744;
  fill: var(--md-theme-default-steppervariant, #ff1744); }

.md-subheader.md-theme-default {
  color: rgba(0, 0, 0, 0.54);
  color: var(--md-theme-default-text-accent-on-background, rgba(0, 0, 0, 0.54)); }

.md-subheader.md-theme-default.md-primary {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-switch.md-theme-default.md-checked .md-switch-container {
  background-color: rgba(255, 82, 82, 0.38);
  background-color: var(--md-theme-default-accent-on-, rgba(255, 82, 82, 0.38)); }

.md-switch.md-theme-default.md-checked .md-switch-thumb {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent, #ff5252); }

.md-switch.md-theme-default.md-checked .md-ripple {
  color: #ff5252;
  color: var(--md-theme-default-accent, #ff5252); }

.md-switch.md-theme-default.md-checked.md-primary .md-switch-container {
  background-color: rgba(68, 138, 255, 0.38);
  background-color: var(--md-theme-default-primary-on-, rgba(68, 138, 255, 0.38)); }

.md-switch.md-theme-default.md-checked.md-primary .md-switch-thumb {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff); }

.md-switch.md-theme-default.md-checked.md-primary .md-ripple {
  color: #448aff;
  color: var(--md-theme-default-primary, #448aff); }

.md-switch.md-theme-default .md-switch-container {
  background-color: rgba(0, 0, 0, 0.38); }

.md-switch.md-theme-default .md-switch-thumb {
  background-color: #f5f5f5;
```

```
  background-color: var(--md-theme-default-switchvariant, #f5f5f5); }

.md-switch.md-theme-default.md-disabled .md-switch-container {
  background-color: rgba(0, 0, 0, 0.12); }

.md-switch.md-theme-default.md-disabled .md-switch-thumb {
  background-color: #bdbdbd;
  background-color: var(--md-theme-default-switchvariant, #bdbdbd); }

.md-table.md-theme-default .md-table-content, .md-table.md-theme-default .md-table-alternate-
        header {
  background-color: #fff;
  background-color: var(--md-theme-default-background, #fff); }

.md-table.md-theme-default .md-table-alternate-header .md-table-toolbar {
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87));
  background-color: rgba(255, 82, 82, 0.2);
  background-color: var(--md-theme-default-accent-on-, rgba(255, 82, 82, 0.2)); }

.md-table.md-theme-default .md-table-row:hover:not(.md-header-row) .md-table-cell {
  background-color: rgba(0, 0, 0, 0.08);
  background-color: var(--md-theme-default-highlight-on-background, rgba(0, 0, 0, 0.08)); }

.md-table.md-theme-default .md-table-row.md-selected, .md-table.md-theme-default .md-table-
        row.md-selected-single {
  background-color: #f5f5f5;
  background-color: var(--md-theme-default-rowvariant, #f5f5f5); }

.md-table.md-theme-default .md-table-row.md-selected.md-primary, .md-table.md-theme-
        default .md-table-row.md-selected-single.md-primary {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary-on-background, #448aff);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-table.md-theme-default .md-table-row.md-selected.md-primary .md-ripple, .md-table.md-
        theme-default .md-table-row.md-selected-single.md-primary .md-ripple {
  color: #fff; }

.md-table.md-theme-default .md-table-row.md-selected.md-primary .md-checkbox-
        container, .md-table.md-theme-default .md-table-row.md-selected-single.md-
        primary .md-checkbox-container {
  background-color: #fff;
  border-color: #fff; }
```

```
.md-table.md-theme-default .md-table-row.md-selected.md-primary .md-checkbox-
        container:after, .md-table.md-theme-default .md-table-row.md-selected-single.md-
        primary .md-checkbox-container:after {
  border-color: #448aff;
  border-color: var(--md-theme-default-primary, #448aff); }

.md-table.md-theme-default .md-table-row.md-selected.md-accent, .md-table.md-theme-
        default .md-table-row.md-selected-single.md-accent {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent-on-background, #ff5252);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-table.md-theme-default .md-table-row.md-selected.md-accent .md-ripple, .md-table.md-
        theme-default .md-table-row.md-selected-single.md-accent .md-ripple {
  color: #fff; }

.md-table.md-theme-default .md-table-row.md-selected.md-accent .md-checkbox-
        container, .md-table.md-theme-default .md-table-row.md-selected-single.md-accent .md-
        checkbox-container {
  background-color: #fff;
  border-color: #fff; }

.md-table.md-theme-default .md-table-row.md-selected.md-accent .md-checkbox-
        container:after, .md-table.md-theme-default .md-table-row.md-selected-single.md-
        accent .md-checkbox-container:after {
  border-color: #ff5252;
  border-color: var(--md-theme-default-accent, #ff5252); }

.md-table.md-theme-default .md-table-row td {
  border-top-color: rgba(0, 0, 0, 0.12);
  border-top-color: var(--md-theme-default-divider-on-background, rgba(0, 0, 0, 0.12)); }

.md-table.md-theme-default .md-table-head {
  color: rgba(0, 0, 0, 0.54);
  color: var(--md-theme-default-text-accent-on-background, rgba(0, 0, 0, 0.54)); }

.md-table.md-theme-default .md-table-fixed-header-active {
  border-bottom-color: rgba(0, 0, 0, 0.12);
  border-bottom-color: var(--md-theme-default-divider-on-background, rgba(0, 0, 0, 0.12)); }

.md-table.md-theme-default .md-sortable:hover, .md-table.md-theme-default .md-sortable.md-
        sorted {
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }
```

```
.md-table.md-theme-default .md-sortable:hover svg, .md-table.md-theme-default .md-
        sortable.md-sorted svg {
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87));
  fill: rgba(0, 0, 0, 0.87);
  fill: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-table.md-theme-default .md-table-pagination {
  border-top-color: rgba(0, 0, 0, 0.12);
  border-top-color: var(--md-theme-default-divider-on-background, rgba(0, 0, 0, 0.12)); }

.md-tabs.md-theme-default .md-tabs-navigation {
  background-color: #fff;
  background-color: var(--md-theme-default-background-on-background, #fff); }

.md-tabs.md-theme-default .md-tabs-navigation .md-button {
  color: rgba(0, 0, 0, 0.7);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.7)); }

.md-tabs.md-theme-default .md-tabs-navigation .md-button[disabled] {
  color: rgba(0, 0, 0, 0.38);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.38)); }

.md-tabs.md-theme-default .md-tabs-navigation .md-button .md-icon {
  color: rgba(0, 0, 0, 0.7);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.7)); }

.md-tabs.md-theme-default .md-tabs-navigation .md-button .md-icon svg {
  fill: rgba(0, 0, 0, 0.7);
  fill: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.7)); }

.md-tabs.md-theme-default .md-tabs-navigation .md-button.md-active {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-tabs.md-theme-default .md-tabs-navigation .md-button.md-active .md-icon {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-tabs.md-theme-default .md-tabs-navigation .md-button.md-active .md-icon svg {
  fill: #448aff;
  fill: var(--md-theme-default-primary-on-background, #448aff); }

.md-tabs.md-theme-default .md-tabs-indicator {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary-on-background, #448aff); }
```

```
.md-tabs.md-theme-default.md-primary .md-tabs-navigation {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary-on-background, #448aff); }

.md-tabs.md-theme-default.md-primary .md-tabs-navigation .md-button {
  color: rgba(255, 255, 255, 0.7);
  color: var(--md-theme-default-text-primary-on-primary, rgba(255, 255, 255, 0.7)); }

.md-tabs.md-theme-default.md-primary .md-tabs-navigation .md-button[disabled] {
  color: rgba(255, 255, 255, 0.38);
  color: var(--md-theme-default-text-primary-on-primary, rgba(255, 255, 255, 0.38)); }

.md-tabs.md-theme-default.md-primary .md-tabs-navigation .md-button .md-icon {
  color: rgba(255, 255, 255, 0.7);
  color: var(--md-theme-default-text-primary-on-primary, rgba(255, 255, 255, 0.7)); }

.md-tabs.md-theme-default.md-primary .md-tabs-navigation .md-button .md-icon svg {
  fill: rgba(255, 255, 255, 0.7);
  fill: var(--md-theme-default-text-primary-on-primary, rgba(255, 255, 255, 0.7)); }

.md-tabs.md-theme-default.md-primary .md-tabs-navigation .md-button.md-active {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-tabs.md-theme-default.md-primary .md-tabs-navigation .md-button.md-active .md-icon {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-tabs.md-theme-default.md-primary .md-tabs-navigation .md-button.md-active .md-icon svg
        {
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-tabs.md-theme-default.md-primary .md-tabs-indicator {
  background-color: #fff;
  background-color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-tabs.md-theme-default.md-accent .md-tabs-navigation {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent-on-background, #ff5252); }

.md-tabs.md-theme-default.md-accent .md-tabs-navigation .md-button {
  color: rgba(255, 255, 255, 0.7);
  color: var(--md-theme-default-text-primary-on-accent, rgba(255, 255, 255, 0.7)); }
```

```
.md-tabs.md-theme-default.md-accent .md-tabs-navigation .md-button[disabled] {
  color: rgba(255, 255, 255, 0.38);
  color: var(--md-theme-default-text-primary-on-accent, rgba(255, 255, 255, 0.38)); }

.md-tabs.md-theme-default.md-accent .md-tabs-navigation .md-button .md-icon {
  color: rgba(255, 255, 255, 0.7);
  color: var(--md-theme-default-text-primary-on-accent, rgba(255, 255, 255, 0.7)); }

.md-tabs.md-theme-default.md-accent .md-tabs-navigation .md-button .md-icon svg {
  fill: rgba(255, 255, 255, 0.7);
  fill: var(--md-theme-default-text-primary-on-accent, rgba(255, 255, 255, 0.7)); }

.md-tabs.md-theme-default.md-accent .md-tabs-navigation .md-button.md-active {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-tabs.md-theme-default.md-accent .md-tabs-navigation .md-button.md-active .md-icon {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-tabs.md-theme-default.md-accent .md-tabs-navigation .md-button.md-active .md-icon svg {
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-tabs.md-theme-default.md-accent .md-tabs-indicator {
  background-color: #fff;
  background-color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-tabs.md-theme-default .md-tabs-navigation {
  background-color: #fff;
  background-color: var(--md-theme-default-background-on-background, #fff); }

.md-tabs.md-theme-default .md-tabs-navigation .md-button {
  color: rgba(0, 0, 0, 0.7);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.7)); }

.md-tabs.md-theme-default .md-tabs-navigation .md-button[disabled] {
  color: rgba(0, 0, 0, 0.38);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.38)); }

.md-tabs.md-theme-default .md-tabs-navigation .md-button .md-icon {
  color: rgba(0, 0, 0, 0.7);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.7)); }

.md-tabs.md-theme-default .md-tabs-navigation .md-button .md-icon svg {
  fill: rgba(0, 0, 0, 0.7);
```

```
  fill: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.7)); }

.md-tabs.md-theme-default .md-tabs-navigation .md-button.md-active {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-tabs.md-theme-default .md-tabs-navigation .md-button.md-active .md-icon {
  color: #448aff;
  color: var(--md-theme-default-primary-on-background, #448aff); }

.md-tabs.md-theme-default .md-tabs-navigation .md-button.md-active .md-icon svg {
  fill: #448aff;
  fill: var(--md-theme-default-primary-on-background, #448aff); }

.md-tabs.md-theme-default .md-tabs-indicator {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary-on-background, #448aff); }

.md-tabs.md-theme-default.md-primary .md-tabs-navigation {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary-on-background, #448aff); }

.md-tabs.md-theme-default.md-primary .md-tabs-navigation .md-button {
  color: rgba(255, 255, 255, 0.7);
  color: var(--md-theme-default-text-primary-on-primary, rgba(255, 255, 255, 0.7)); }

.md-tabs.md-theme-default.md-primary .md-tabs-navigation .md-button[disabled] {
  color: rgba(255, 255, 255, 0.38);
  color: var(--md-theme-default-text-primary-on-primary, rgba(255, 255, 255, 0.38)); }

.md-tabs.md-theme-default.md-primary .md-tabs-navigation .md-button .md-icon {
  color: rgba(255, 255, 255, 0.7);
  color: var(--md-theme-default-text-primary-on-primary, rgba(255, 255, 255, 0.7)); }

.md-tabs.md-theme-default.md-primary .md-tabs-navigation .md-button .md-icon svg {
  fill: rgba(255, 255, 255, 0.7);
  fill: var(--md-theme-default-text-primary-on-primary, rgba(255, 255, 255, 0.7)); }

.md-tabs.md-theme-default.md-primary .md-tabs-navigation .md-button.md-active {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-tabs.md-theme-default.md-primary .md-tabs-navigation .md-button.md-active .md-icon {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }
```

```
.md-tabs.md-theme-default.md-primary .md-tabs-navigation .md-button.md-active .md-icon svg
        {
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-tabs.md-theme-default.md-primary .md-tabs-indicator {
  background-color: #fff;
  background-color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-tabs.md-theme-default.md-accent .md-tabs-navigation {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent-on-background, #ff5252); }

.md-tabs.md-theme-default.md-accent .md-tabs-navigation .md-button {
  color: rgba(255, 255, 255, 0.7);
  color: var(--md-theme-default-text-primary-on-accent, rgba(255, 255, 255, 0.7)); }

.md-tabs.md-theme-default.md-accent .md-tabs-navigation .md-button[disabled] {
  color: rgba(255, 255, 255, 0.38);
  color: var(--md-theme-default-text-primary-on-accent, rgba(255, 255, 255, 0.38)); }

.md-tabs.md-theme-default.md-accent .md-tabs-navigation .md-button .md-icon {
  color: rgba(255, 255, 255, 0.7);
  color: var(--md-theme-default-text-primary-on-accent, rgba(255, 255, 255, 0.7)); }

.md-tabs.md-theme-default.md-accent .md-tabs-navigation .md-button .md-icon svg {
  fill: rgba(255, 255, 255, 0.7);
  fill: var(--md-theme-default-text-primary-on-accent, rgba(255, 255, 255, 0.7)); }

.md-tabs.md-theme-default.md-accent .md-tabs-navigation .md-button.md-active {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-tabs.md-theme-default.md-accent .md-tabs-navigation .md-button.md-active .md-icon {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-tabs.md-theme-default.md-accent .md-tabs-navigation .md-button.md-active .md-icon svg {
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-tabs.md-theme-default.md-accent .md-tabs-indicator {
  background-color: #fff;
  background-color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-toolbar.md-theme-default {
```

```
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background-variant, rgba(0, 0, 0, 0.87));
  background-color: #f5f5f5;
  background-color: var(--md-theme-default-toolbarvariant, #f5f5f5); }

.md-toolbar.md-theme-default .md-icon {
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background-variant, rgba(0, 0, 0, 0.87)); }

.md-toolbar.md-theme-default .md-icon svg {
  fill: rgba(0, 0, 0, 0.87);
  fill: var(--md-theme-default-text-primary-on-background-variant, rgba(0, 0, 0, 0.87)); }

.md-toolbar.md-theme-default .md-title, .md-toolbar.md-theme-default .md-display-1, .md-
        toolbar.md-theme-default .md-display-2 {
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background-variant, rgba(0, 0, 0, 0.87)); }

.md-toolbar.md-theme-default.md-primary {
  background-color: #448aff;
  background-color: var(--md-theme-default-primary, #448aff);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-toolbar.md-theme-default.md-primary .md-icon {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-toolbar.md-theme-default.md-primary .md-icon svg {
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-toolbar.md-theme-default.md-primary .md-button:not([disabled]):not(.md-raised) {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-toolbar.md-theme-default.md-primary .md-title, .md-toolbar.md-theme-default.md-
        primary .md-display-1, .md-toolbar.md-theme-default.md-primary .md-display-2 {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-primary, #fff); }

.md-toolbar.md-theme-default.md-accent {
  background-color: #ff5252;
  background-color: var(--md-theme-default-accent, #ff5252);
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }
```

```
.md-toolbar.md-theme-default.md-accent .md-icon {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-toolbar.md-theme-default.md-accent .md-icon svg {
  fill: #fff;
  fill: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-toolbar.md-theme-default.md-accent .md-button:not([disabled]):not(.md-raised) {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-toolbar.md-theme-default.md-accent .md-title, .md-toolbar.md-theme-default.md-
        accent .md-display-1, .md-toolbar.md-theme-default.md-accent .md-display-2 {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-accent, #fff); }

.md-toolbar.md-theme-default.md-transparent {
  background-color: transparent;
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-toolbar.md-theme-default.md-transparent .md-icon {
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-toolbar.md-theme-default.md-transparent .md-icon svg {
  fill: rgba(0, 0, 0, 0.87);
  fill: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-toolbar.md-theme-default.md-transparent .md-title, .md-toolbar.md-theme-default.md-
        transparent .md-display-1, .md-toolbar.md-theme-default.md-transparent .md-display-2 {
  color: rgba(0, 0, 0, 0.87);
  color: var(--md-theme-default-text-primary-on-background, rgba(0, 0, 0, 0.87)); }

.md-tooltip.md-theme-default {
  color: #fff;
  color: var(--md-theme-default-text-primary-on-tooltip, #fff);
  background-color: rgba(97, 97, 97, 0.9);
  background-color: var(--md-theme-default-tooltip-on-background, rgba(97, 97, 97, 0.9)); }

/**
 * The layout system breakpoints
 * ---
 * @access private
```

```
 * @type layout
 * @group layout
 */
/**
 * The available gutter sizes
 * ---
 * @access private
 * @type layout
 * @group layout
 */
/**
 * Breakpoint
 */
/**
 * Base
 */
/**
 * Layout Item
 */
/**
 * Hide Element
 */
html, body, .app {
  height: 100%;
  margin: 0; }

body {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
      -ms-flex-flow: column wrap;
          flex-flow: column wrap;
  background-color: grey;
  --md-theme-default-background: transparent; }

.app, .map, .overlay {
  -webkit-box-flex: 1;
      -ms-flex: 1;
          flex: 1;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  overflow: hidden; }
```

```
.app {
  position: relative;
  font-family: "Lato", "Roboto", sans-serif;
  text-shadow: 0 0 1px transparent;
  text-rendering: optimizeLegibility; }

h1, h2, h3, h4, h5, h6, .md-title {
  color: #993333;
  font-family: "Playfair Display"; }

.md-title {
  font-size: 1.8em;
  font-weight: bold; }

.map {
  z-index: 1; }

.overlay {
  z-index: 2;
  position: absolute;
  top: 0;
  right: 0;
  bottom: 0;
  left: 0;
  pointer-events: none;
  -webkit-box-align: start;
      -ms-flex-align: start;
          align-items: flex-start;
  /*justify-content: space-between;*/ }
  .overlay > * {
    pointer-events: auto; }

.menu-button {
  margin: 0.5rem; }
  @media (min-width: 600px) {
    .menu-button {
      display: none; } }
  .menu-button .md-icon-button {
    margin: 0; }

.controls {
  /*margin: 1rem;*/
  width: auto; }
  .controls h1, .controls h2 {
    font-size: 1vw; }
```

```
.passage-pane {
  margin: 1rem;
  width: 33vw; }

/* required styles */
.leaflet-pane,
.leaflet-tile,
.leaflet-marker-icon,
.leaflet-marker-shadow,
.leaflet-tile-container,
.leaflet-pane > svg,
.leaflet-pane > canvas,
.leaflet-zoom-box,
.leaflet-image-layer,
.leaflet-layer {
  position: absolute;
  left: 0;
  top: 0; }

.leaflet-container {
  overflow: hidden; }

.leaflet-tile,
.leaflet-marker-icon,
.leaflet-marker-shadow {
  -webkit-user-select: none;
  -moz-user-select: none;
  -ms-user-select: none;
      user-select: none;
  -webkit-user-drag: none; }

/* Safari renders non-retina tile on retina better with this, but Chrome is worse */
.leaflet-safari .leaflet-tile {
  image-rendering: -webkit-optimize-contrast; }

/* hack that prevents hw layers "stretching" when loading new tiles */
.leaflet-safari .leaflet-tile-container {
  width: 1600px;
  height: 1600px;
  -webkit-transform-origin: 0 0; }

.leaflet-marker-icon,
.leaflet-marker-shadow {
  display: block; }

/* .leaflet-container svg: reset svg max-width decleration shipped in Joomla! (joomla.org) 3.x */
```

```
/* .leaflet-container img: map is broken in FF if you have max-width: 100% on tiles */
.leaflet-container .leaflet-overlay-pane svg,
.leaflet-container .leaflet-marker-pane img,
.leaflet-container .leaflet-shadow-pane img,
.leaflet-container .leaflet-tile-pane img,
.leaflet-container img.leaflet-image-layer {
  max-width: none !important;
  max-height: none !important; }

.leaflet-container.leaflet-touch-zoom {
  -ms-touch-action: pan-x pan-y;
  touch-action: pan-x pan-y; }

.leaflet-container.leaflet-touch-drag {
  -ms-touch-action: pinch-zoom;
  /* Fallback for FF which doesn't support pinch-zoom */
  touch-action: none;
  touch-action: pinch-zoom; }

.leaflet-container.leaflet-touch-drag.leaflet-touch-zoom {
  -ms-touch-action: none;
  touch-action: none; }

.leaflet-container {
  -webkit-tap-highlight-color: transparent; }

.leaflet-container a {
  -webkit-tap-highlight-color: rgba(51, 181, 229, 0.4); }

.leaflet-tile {
  -webkit-filter: inherit;
          filter: inherit;
  visibility: hidden; }

.leaflet-tile-loaded {
  visibility: inherit; }

.leaflet-zoom-box {
  width: 0;
  height: 0;
  -webkit-box-sizing: border-box;
          box-sizing: border-box;
  z-index: 800; }

/* workaround for https://bugzilla.mozilla.org/show_bug.cgi?id=888319 */
.leaflet-overlay-pane svg {
```

```
  -moz-user-select: none; }

.leaflet-pane {
  z-index: 400; }

.leaflet-tile-pane {
  z-index: 200; }

.leaflet-overlay-pane {
  z-index: 400; }

.leaflet-shadow-pane {
  z-index: 500; }

.leaflet-marker-pane {
  z-index: 600; }

.leaflet-tooltip-pane {
  z-index: 650; }

.leaflet-popup-pane {
  z-index: 700; }

.leaflet-map-pane canvas {
  z-index: 100; }

.leaflet-map-pane svg {
  z-index: 200; }

.leaflet-vml-shape {
  width: 1px;
  height: 1px; }

.lvml {
  behavior: url(#default#VML);
  display: inline-block;
  position: absolute; }

/* control positioning */
.leaflet-control {
  position: relative;
  z-index: 800;
  pointer-events: visiblePainted;
  /* IE 9-10 doesn't have auto */
  pointer-events: auto; }
```

```
.leaflet-top,
.leaflet-bottom {
  position: absolute;
  z-index: 1000;
  pointer-events: none; }

.leaflet-top {
  top: 0; }

.leaflet-right {
  right: 0; }

.leaflet-bottom {
  bottom: 0; }

.leaflet-left {
  left: 0; }

.leaflet-control {
  float: left;
  clear: both; }

.leaflet-right .leaflet-control {
  float: right; }

.leaflet-top .leaflet-control {
  margin-top: 10px; }

.leaflet-bottom .leaflet-control {
  margin-bottom: 10px; }

.leaflet-left .leaflet-control {
  margin-left: 10px; }

.leaflet-right .leaflet-control {
  margin-right: 10px; }

/* zoom and fade animations */
.leaflet-fade-anim .leaflet-tile {
  will-change: opacity; }

.leaflet-fade-anim .leaflet-popup {
  opacity: 0;
  -webkit-transition: opacity 0.2s linear;
  transition: opacity 0.2s linear; }
```

```
.leaflet-fade-anim .leaflet-map-pane .leaflet-popup {
  opacity: 1; }

.leaflet-zoom-animated {
  -webkit-transform-origin: 0 0;
  transform-origin: 0 0; }

.leaflet-zoom-anim .leaflet-zoom-animated {
  will-change: transform; }

.leaflet-zoom-anim .leaflet-zoom-animated {
  -webkit-transition: -webkit-transform 0.25s cubic-bezier(0, 0, 0.25, 1);
  transition: -webkit-transform 0.25s cubic-bezier(0, 0, 0.25, 1);
  transition: transform 0.25s cubic-bezier(0, 0, 0.25, 1);
  transition: transform 0.25s cubic-bezier(0, 0, 0.25, 1), -webkit-transform 0.25s cubic-bezier(0,
        0, 0.25, 1); }

.leaflet-zoom-anim .leaflet-tile,
.leaflet-pan-anim .leaflet-tile {
  -webkit-transition: none;
  transition: none; }

.leaflet-zoom-anim .leaflet-zoom-hide {
  visibility: hidden; }

/* cursors */
.leaflet-interactive {
  cursor: pointer; }

.leaflet-grab {
  cursor: -webkit-grab;
  cursor: -moz-grab; }

.leaflet-crosshair,
.leaflet-crosshair .leaflet-interactive {
  cursor: crosshair; }

.leaflet-popup-pane,
.leaflet-control {
  cursor: auto; }

.leaflet-dragging .leaflet-grab,
.leaflet-dragging .leaflet-grab .leaflet-interactive,
.leaflet-dragging .leaflet-marker-draggable {
  cursor: move;
  cursor: -webkit-grabbing;
```

```
  cursor: -moz-grabbing; }

/* marker & overlays interactivity */
.leaflet-marker-icon,
.leaflet-marker-shadow,
.leaflet-image-layer,
.leaflet-pane > svg path,
.leaflet-tile-container {
  pointer-events: none; }

.leaflet-marker-icon.leaflet-interactive,
.leaflet-image-layer.leaflet-interactive,
.leaflet-pane > svg path.leaflet-interactive {
  pointer-events: visiblePainted;
  /* IE 9-10 doesn't have auto */
  pointer-events: auto; }

/* visual tweaks */
.leaflet-container {
  background: #ddd;
  outline: 0; }

.leaflet-container a {
  color: #0078A8; }

.leaflet-container a.leaflet-active {
  outline: 2px solid orange; }

.leaflet-zoom-box {
  border: 2px dotted #38f;
  background: rgba(255, 255, 255, 0.5); }

/* general typography */
.leaflet-container {
  font: 12px/1.5 "Helvetica Neue", Arial, Helvetica, sans-serif; }

/* general toolbar styles */
.leaflet-bar {
  -webkit-box-shadow: 0 1px 5px rgba(0, 0, 0, 0.65);
          box-shadow: 0 1px 5px rgba(0, 0, 0, 0.65);
  border-radius: 4px; }

.leaflet-bar a,
.leaflet-bar a:hover {
  background-color: #fff;
  border-bottom: 1px solid #ccc;
```

```
  width: 26px;
  height: 26px;
  line-height: 26px;
  display: block;
  text-align: center;
  text-decoration: none;
  color: black; }

.leaflet-bar a,
.leaflet-control-layers-toggle {
  background-position: 50% 50%;
  background-repeat: no-repeat;
  display: block; }

.leaflet-bar a:hover {
  background-color: #f4f4f4; }

.leaflet-bar a:first-child {
  border-top-left-radius: 4px;
  border-top-right-radius: 4px; }

.leaflet-bar a:last-child {
  border-bottom-left-radius: 4px;
  border-bottom-right-radius: 4px;
  border-bottom: none; }

.leaflet-bar a.leaflet-disabled {
  cursor: default;
  background-color: #f4f4f4;
  color: #bbb; }

.leaflet-touch .leaflet-bar a {
  width: 30px;
  height: 30px;
  line-height: 30px; }

.leaflet-touch .leaflet-bar a:first-child {
  border-top-left-radius: 2px;
  border-top-right-radius: 2px; }

.leaflet-touch .leaflet-bar a:last-child {
  border-bottom-left-radius: 2px;
  border-bottom-right-radius: 2px; }

/* zoom control */
.leaflet-control-zoom-in,
```

```
.leaflet-control-zoom-out {
  font: bold 18px 'Lucida Console', Monaco, monospace;
  text-indent: 1px; }

.leaflet-touch .leaflet-control-zoom-in, .leaflet-touch .leaflet-control-zoom-out {
  font-size: 22px; }

/* layers control */
.leaflet-control-layers {
  -webkit-box-shadow: 0 1px 5px rgba(0, 0, 0, 0.4);
          box-shadow: 0 1px 5px rgba(0, 0, 0, 0.4);
  background: #fff;
  border-radius: 5px; }

.leaflet-control-layers-toggle {
  background-image: url(images/layers.png);
  width: 36px;
  height: 36px; }

.leaflet-retina .leaflet-control-layers-toggle {
  background-image: url(images/layers-2x.png);
  background-size: 26px 26px; }

.leaflet-touch .leaflet-control-layers-toggle {
  width: 44px;
  height: 44px; }

.leaflet-control-layers .leaflet-control-layers-list,
.leaflet-control-layers-expanded .leaflet-control-layers-toggle {
  display: none; }

.leaflet-control-layers-expanded .leaflet-control-layers-list {
  display: block;
  position: relative; }

.leaflet-control-layers-expanded {
  padding: 6px 10px 6px 6px;
  color: #333;
  background: #fff; }

.leaflet-control-layers-scrollbar {
  overflow-y: scroll;
  overflow-x: hidden;
  padding-right: 5px; }

.leaflet-control-layers-selector {
```

```
  margin-top: 2px;
  position: relative;
  top: 1px; }

.leaflet-control-layers label {
  display: block; }

.leaflet-control-layers-separator {
  height: 0;
  border-top: 1px solid #ddd;
  margin: 5px -10px 5px -6px; }

/* Default icon URLs */
.leaflet-default-icon-path {
  background-image: url(images/marker-icon.png); }

/* attribution and scale controls */
.leaflet-container .leaflet-control-attribution {
  background: #fff;
  background: rgba(255, 255, 255, 0.7);
  margin: 0; }

.leaflet-control-attribution,
.leaflet-control-scale-line {
  padding: 0 5px;
  color: #333; }

.leaflet-control-attribution a {
  text-decoration: none; }

.leaflet-control-attribution a:hover {
  text-decoration: underline; }

.leaflet-container .leaflet-control-attribution,
.leaflet-container .leaflet-control-scale {
  font-size: 11px; }

.leaflet-left .leaflet-control-scale {
  margin-left: 5px; }

.leaflet-bottom .leaflet-control-scale {
  margin-bottom: 5px; }

.leaflet-control-scale-line {
  border: 2px solid #777;
  border-top: none;
```

```
  line-height: 1.1;
  padding: 2px 5px 1px;
  font-size: 11px;
  white-space: nowrap;
  overflow: hidden;
  -webkit-box-sizing: border-box;
          box-sizing: border-box;
  background: #fff;
  background: rgba(255, 255, 255, 0.5); }

.leaflet-control-scale-line:not(:first-child) {
  border-top: 2px solid #777;
  border-bottom: none;
  margin-top: -2px; }

.leaflet-control-scale-line:not(:first-child):not(:last-child) {
  border-bottom: 2px solid #777; }

.leaflet-touch .leaflet-control-attribution,
.leaflet-touch .leaflet-control-layers,
.leaflet-touch .leaflet-bar {
  -webkit-box-shadow: none;
          box-shadow: none; }

.leaflet-touch .leaflet-control-layers,
.leaflet-touch .leaflet-bar {
  border: 2px solid rgba(0, 0, 0, 0.2);
  background-clip: padding-box; }

/* popup */
.leaflet-popup {
  position: absolute;
  text-align: center;
  margin-bottom: 20px; }

.leaflet-popup-content-wrapper {
  padding: 1px;
  text-align: left;
  border-radius: 12px; }

.leaflet-popup-content {
  margin: 13px 19px;
  line-height: 1.4; }

.leaflet-popup-content p {
  margin: 18px 0; }
```

```
.leaflet-popup-tip-container {
  width: 40px;
  height: 20px;
  position: absolute;
  left: 50%;
  margin-left: -20px;
  overflow: hidden;
  pointer-events: none; }

.leaflet-popup-tip {
  width: 17px;
  height: 17px;
  padding: 1px;
  margin: -10px auto 0;
  -webkit-transform: rotate(45deg);
  transform: rotate(45deg); }

.leaflet-popup-content-wrapper,
.leaflet-popup-tip {
  background: white;
  color: #333;
  -webkit-box-shadow: 0 3px 14px rgba(0, 0, 0, 0.4);
          box-shadow: 0 3px 14px rgba(0, 0, 0, 0.4); }

.leaflet-container a.leaflet-popup-close-button {
  position: absolute;
  top: 0;
  right: 0;
  padding: 4px 4px 0 0;
  border: none;
  text-align: center;
  width: 18px;
  height: 14px;
  font: 16px/14px Tahoma, Verdana, sans-serif;
  color: #c3c3c3;
  text-decoration: none;
  font-weight: bold;
  background: transparent; }

.leaflet-container a.leaflet-popup-close-button:hover {
  color: #999; }

.leaflet-popup-scrolled {
  overflow: auto;
  border-bottom: 1px solid #ddd;
```

```
  border-top: 1px solid #ddd; }

.leaflet-oldie .leaflet-popup-content-wrapper {
  zoom: 1; }

.leaflet-oldie .leaflet-popup-tip {
  width: 24px;
  margin: 0 auto;
  -ms-filter: "progid:DXImageTransform.Microsoft.Matrix(M11=0.70710678, M12=0.70710678,
        M21=-0.70710678, M22=0.70710678)";
  filter: progid:DXImageTransform.Microsoft.Matrix(M11=0.70710678, M12=0.70710678,
        M21=-0.70710678, M22=0.70710678); }

.leaflet-oldie .leaflet-popup-tip-container {
  margin-top: -1px; }

.leaflet-oldie .leaflet-control-zoom,
.leaflet-oldie .leaflet-control-layers,
.leaflet-oldie .leaflet-popup-content-wrapper,
.leaflet-oldie .leaflet-popup-tip {
  border: 1px solid #999; }

/* div icon */
.leaflet-div-icon {
  background: #fff;
  border: 1px solid #666; }

/* Tooltip */
/* Base styles for the element that has a tooltip */
.leaflet-tooltip {
  position: absolute;
  padding: 6px;
  background-color: #fff;
  border: 1px solid #fff;
  border-radius: 3px;
  color: #222;
  white-space: nowrap;
  -webkit-user-select: none;
  -moz-user-select: none;
  -ms-user-select: none;
  user-select: none;
  pointer-events: none;
  -webkit-box-shadow: 0 1px 3px rgba(0, 0, 0, 0.4);
        box-shadow: 0 1px 3px rgba(0, 0, 0, 0.4); }

.leaflet-tooltip.leaflet-clickable {
```

```
  cursor: pointer;
  pointer-events: auto; }

.leaflet-tooltip-top:before,
.leaflet-tooltip-bottom:before,
.leaflet-tooltip-left:before,
.leaflet-tooltip-right:before {
  position: absolute;
  pointer-events: none;
  border: 6px solid transparent;
  background: transparent;
  content: ""; }

/* Directions */
.leaflet-tooltip-bottom {
  margin-top: 6px; }

.leaflet-tooltip-top {
  margin-top: -6px; }

.leaflet-tooltip-bottom:before,
.leaflet-tooltip-top:before {
  left: 50%;
  margin-left: -6px; }

.leaflet-tooltip-top:before {
  bottom: 0;
  margin-bottom: -12px;
  border-top-color: #fff; }

.leaflet-tooltip-bottom:before {
  top: 0;
  margin-top: -12px;
  margin-left: -6px;
  border-bottom-color: #fff; }

.leaflet-tooltip-left {
  margin-left: -6px; }

.leaflet-tooltip-right {
  margin-left: 6px; }

.leaflet-tooltip-left:before,
.leaflet-tooltip-right:before {
  top: 50%;
  margin-top: -6px; }
```

```
.leaflet-tooltip-left:before {
  right: 0;
  margin-right: -12px;
  border-left-color: #fff; }

.leaflet-tooltip-right:before {
  left: 0;
  margin-left: -12px;
  border-right-color: #fff; }

.leaflet-cluster-anim .leaflet-marker-icon, .leaflet-cluster-anim .leaflet-marker-shadow {
  -webkit-transition: -webkit-transform 0.3s ease-out, opacity 0.3s ease-in;
  -webkit-transition: opacity 0.3s ease-in, -webkit-transform 0.3s ease-out;
  transition: opacity 0.3s ease-in, -webkit-transform 0.3s ease-out;
  transition: transform 0.3s ease-out, opacity 0.3s ease-in;
  transition: transform 0.3s ease-out, opacity 0.3s ease-in, -webkit-transform 0.3s ease-out; }

.leaflet-cluster-spider-leg {
  /* stroke-dashoffset (duration and function) should match with leaflet-marker-icon transform in
        order to track it exactly */
  -webkit-transition: -webkit-stroke-dashoffset 0.3s ease-out, -webkit-stroke-opacity 0.3s ease-in;
  -webkit-transition: stroke-dashoffset 0.3s ease-out, stroke-opacity 0.3s ease-in;
  transition: stroke-dashoffset 0.3s ease-out, stroke-opacity 0.3s ease-in; }

.marker-cluster-small {
  background-color: rgba(181, 226, 140, 0.6); }

.marker-cluster-small div {
  background-color: rgba(110, 204, 57, 0.6); }

.marker-cluster-medium {
  background-color: rgba(241, 211, 87, 0.6); }

.marker-cluster-medium div {
  background-color: rgba(240, 194, 12, 0.6); }

.marker-cluster-large {
  background-color: rgba(253, 156, 115, 0.6); }

.marker-cluster-large div {
  background-color: rgba(241, 128, 23, 0.6); }

/* IE 6-8 fallback colors */
.leaflet-oldie .marker-cluster-small {
  background-color: #b5e28c; }
```

```
.leaflet-oldie .marker-cluster-small div {
  background-color: #6ecc39; }

.leaflet-oldie .marker-cluster-medium {
  background-color: #f1d357; }

.leaflet-oldie .marker-cluster-medium div {
  background-color: #f0c20c; }

.leaflet-oldie .marker-cluster-large {
  background-color: #fd9c73; }

.leaflet-oldie .marker-cluster-large div {
  background-color: #f18017; }

.marker-cluster {
  background-clip: padding-box;
  border-radius: 20px; }

.marker-cluster div {
  width: 30px;
  height: 30px;
  margin-left: 5px;
  margin-top: 5px;
  text-align: center;
  border-radius: 15px;
  font: 12px "Helvetica Neue", Arial, Helvetica, sans-serif; }

.marker-cluster span {
  line-height: 30px; }

/*@import 'node_modules/Leaflet.vector-markers/dist/leaflet-vector-markers';*/
#leaflet {
  width: 100%;
  height: 100%; }

.leaflet-popup-content-wrapper {
  font: inherit;
  background: url(assets/paper_fibers_@2X.png) repeat; }

.circ {
  border-radius: 50%;
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
```

```
  -webkit-box-align: center;
     -ms-flex-align: center;
         align-items: center;
  -webkit-box-pack: center;
     -ms-flex-pack: center;
         justify-content: center;
  font-size: 15px;
  font-weight: bold;
  color: white; }

.leaflet-div-icon {
  border: none;
  background-color: transparent; }

.vector-marker {
  -webkit-transition: -webkit-transform 1s ease-out;
  transition: -webkit-transform 1s ease-out;
  transition: transform 1s ease-out;
  transition: transform 1s ease-out, -webkit-transform 1s ease-out; }

.vector-marker svg {
  -webkit-transition: opacity 0.7s ease-out, -webkit-transform 0.7s ease-out;
  transition: opacity 0.7s ease-out, -webkit-transform 0.7s ease-out;
  transition: opacity 0.7s ease-out, transform 0.7s ease-out;
  transition: opacity 0.7s ease-out, transform 0.7s ease-out, -webkit-transform 0.7s ease-out; }

.vector-marker path {
  stroke: none; }

.related svg {
  -webkit-transform: scale(1.5);
          transform: scale(1.5); }

.unrelated svg {
  -webkit-transform: scale(0.75);
          transform: scale(0.75);
  opacity: 0.55; }

a {
  cursor: pointer;
  margin-right: 1rem; }

.md-drawer {
  background: linear-gradient(145deg, rgba(255, 255, 255, 0.7) 0%, rgba(255, 255, 255, 0.3)
          100%), url(assets/ricepaper_v3_@2X.png) repeat; }
```

```
.body {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
      -ms-flex-direction: column;
          flex-direction: column; }

.md-tabs-content {
  height: 100%; }

.wrap {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
      -ms-flex-direction: column;
          flex-direction: column;
  -webkit-box-pack: justify;
      -ms-flex-pack: justify;
          justify-content: space-between;
  height: 100%; }

.content {
  overflow-y: auto;
  overflow-x: hidden; }

.passage {
  margin-bottom: 1em; }

.reference {
  text-align: right;
  font-style: italic; }

.morality {
  border-left: solid 6px;
  padding-left: 0.5rem; }
  .morality.positive {
    border-color: #4169e1; }
  .morality.negative {
    border-color: #b22222; }
  .morality.neutral {
    border-color: #555555; }
```

```
.passage-text {
  white-space: pre; }

.main {
  background: url(assets/paper_fibers_@2X.png) repeat;
  height: 100%; }

.md-list.transparent {
  background-color: transparent; }

.md-list-item.genesis {
  -webkit-box-align: space-between;
     -ms-flex-align: space-between;
         align-items: space-between; }

.inset .md-list-item-content {
  padding-left: 2em; }

.md-list-item-expand {
  border-top: 0; }

.selectable {
  -webkit-box-align: space-between;
     -ms-flex-align: space-between;
         align-items: space-between; }
  .selectable.selected .md-list-item-container {
    font-weight: bold; }
  .selectable .md-icon {
    display: none; }
  .selectable.selected .md-icon {
    display: -webkit-inline-box;
    display: -ms-inline-flexbox;
    display: inline-flex; }

.title {
  display: -webkit-box;
  display: -ms-flexbox;
  display: flex;
  -webkit-box-align: center;
     -ms-flex-align: center;
         align-items: center;
  -webkit-box-orient: vertical;
  -webkit-box-direction: normal;
     -ms-flex-direction: column;
         flex-direction: column;
  font-family: "Playfair Display", "Lato", sans-serif;
```

```
  font-weight: bold;
  text-transform: uppercase;
  color: #993333;
  padding-bottom: 1rem; }
  .title .line-1 {
    font-size: 16px;
    line-height: 15px; }
  .title .line-2 {
    display: -webkit-box;
    display: -ms-flexbox;
    display: flex;
    -webkit-box-orient: horizontal;
    -webkit-box-direction: normal;
       -ms-flex-direction: row;
           flex-direction: row;
    width: 100%;
    line-height: 12px;
    font-size: 12px;
    -webkit-box-align: center;
       -ms-flex-align: center;
           align-items: center; }
    .title .line-2 .heading-line {
      -webkit-box-flex: 1;
         -ms-flex: 1;
             flex: 1;
      background-color: #993333;
      height: 5px; }
    .title .line-2 .heading-of {
      padding: 0 5px 0 5px; }
  .title .line-3 {
    font-size: 26px; }
```

File: paradise-lost/dist/main.js

```
(function(l, i, v, e) { v = l.createElement(i); v.async = 1; v.src = '//' + (location.host ||
          'localhost').split(':')[0] + ':35729/livereload.js?snipver=1'; e =
          l.getElementsByTagName(i)[0]; e.parentNode.insertBefore(v, e)})(document, 'script');
(function () {
'use strict';

// Import all external styles in here like:  import 'path/to/css/file.css'

var global$1 = typeof global !== "undefined" ? global :
          typeof self !== "undefined" ? self :
          typeof window !== "undefined" ? window : {}
```

```
// shim for using process in browser
// based off https://github.com/defunctzombie/node-process/blob/master/browser.js

function defaultSetTimout() {
    throw new Error('setTimeout has not been defined');
}
function defaultClearTimeout () {
    throw new Error('clearTimeout has not been defined');
}
var cachedSetTimeout = defaultSetTimout;
var cachedClearTimeout = defaultClearTimeout;
if (typeof global$1.setTimeout === 'function') {
    cachedSetTimeout = setTimeout;
}
if (typeof global$1.clearTimeout === 'function') {
    cachedClearTimeout = clearTimeout;
}

function runTimeout(fun) {
    if (cachedSetTimeout === setTimeout) {
        //normal enviroments in sane situations
        return setTimeout(fun, 0);
    }
    // if setTimeout wasn't available but was latter defined
    if ((cachedSetTimeout === defaultSetTimout || !cachedSetTimeout) && setTimeout) {
        cachedSetTimeout = setTimeout;
        return setTimeout(fun, 0);
    }
    try {
        // when when somebody has screwed with setTimeout but no I.E. maddness
        return cachedSetTimeout(fun, 0);
    } catch(e){
        try {
            // When we are in I.E. but the script has been evaled so I.E. doesn't trust the global object
            when called normally
            return cachedSetTimeout.call(null, fun, 0);
        } catch(e){
            // same as above but when it's a version of I.E. that must have the global object for 'this',
            hopfully our context correct otherwise it will throw a global error
            return cachedSetTimeout.call(this, fun, 0);
        }
    }


}
```

```
function runClearTimeout(marker) {
    if (cachedClearTimeout === clearTimeout) {
        //normal enviroments in sane situations
        return clearTimeout(marker);
    }
    // if clearTimeout wasn't available but was latter defined
    if ((cachedClearTimeout === defaultClearTimeout || !cachedClearTimeout) && clearTimeout)
            {
        cachedClearTimeout = clearTimeout;
        return clearTimeout(marker);
    }
    try {
        // when when somebody has screwed with setTimeout but no I.E. maddness
        return cachedClearTimeout(marker);
    } catch (e){
        try {
            // When we are in I.E. but the script has been evaled so I.E. doesn't  trust the global object
            when called normally
            return cachedClearTimeout.call(null, marker);
        } catch (e){
            // same as above but when it's a version of I.E. that must have the global object for 'this',
            hopfully our context correct otherwise it will throw a global error.
            // Some versions of I.E. have different rules for clearTimeout vs setTimeout
            return cachedClearTimeout.call(this, marker);
        }
    }



}
var queue = [];
var draining = false;
var currentQueue;
var queueIndex = -1;

function cleanUpNextTick() {
    if (!draining || !currentQueue) {
        return;
    }
    draining = false;
    if (currentQueue.length) {
        queue = currentQueue.concat(queue);
    } else {
        queueIndex = -1;
    }
    if (queue.length) {
```

```
        drainQueue();
    }
}

function drainQueue() {
    if (draining) {
        return;
    }
    var timeout = runTimeout(cleanUpNextTick);
    draining = true;

    var len = queue.length;
    while(len) {
        currentQueue = queue;
        queue = [];
        while (++queueIndex < len) {
            if (currentQueue) {
                currentQueue[queueIndex].run();
            }
        }
        queueIndex = -1;
        len = queue.length;
    }
    currentQueue = null;
    draining = false;
    runClearTimeout(timeout);
}
function nextTick(fun) {
    var arguments$1 = arguments;

    var args = new Array(arguments.length - 1);
    if (arguments.length > 1) {
        for (var i = 1; i < arguments.length; i++) {
            args[i - 1] = arguments$1[i];
        }
    }
    queue.push(new Item(fun, args));
    if (queue.length === 1 && !draining) {
        runTimeout(drainQueue);
    }
}
// v8 likes predictible objects
function Item(fun, array) {
    this.fun = fun;
    this.array = array;
}
```

```
Item.prototype.run = function () {
   this.fun.apply(null, this.array);
};
var title = 'browser';
var platform = 'browser';
var browser = true;
var env = {};
var argv = [];
var version = ''; // empty string to avoid regexp issues
var versions = {};
var release = {};
var config = {};

function noop() {}

var on = noop;
var addListener = noop;
var once = noop;
var off = noop;
var removeListener = noop;
var removeAllListeners = noop;
var emit = noop;

function binding(name) {
   throw new Error('process.binding is not supported');
}

function cwd () { return '/' }
function chdir (dir) {
   throw new Error('process.chdir is not supported');
}function umask() { return 0; }

// from https://github.com/kumavis/browser-process-hrtime/blob/master/index.js
var performance$1 = global$1.performance || {};
var performanceNow =
  performance$1.now        ||
  performance$1.mozNow     ||
  performance$1.msNow      ||
  performance$1.oNow       ||
  performance$1.webkitNow  ||
  function(){ return (new Date()).getTime() };

// generate timestamp or delta
// see http://nodejs.org/api/process.html#process_process_hrtime
function hrtime(previousTimestamp){
  var clocktime = performanceNow.call(performance$1)*1e-3;
```

```
  var seconds = Math.floor(clocktime);
  var nanoseconds = Math.floor((clocktime%1)*1e9);
  if (previousTimestamp) {
    seconds = seconds - previousTimestamp[0];
    nanoseconds = nanoseconds - previousTimestamp[1];
    if (nanoseconds<0) {
      seconds--;
      nanoseconds += 1e9;
    }
  }
  return [seconds,nanoseconds]
}

var startTime = new Date();
function uptime() {
  var currentTime = new Date();
  var dif = currentTime - startTime;
  return dif / 1000;
}

var process = {
  nextTick: nextTick,
  title: title,
  browser: browser,
  env: env,
  argv: argv,
  version: version,
  versions: versions,
  on: on,
  addListener: addListener,
  once: once,
  off: off,
  removeListener: removeListener,
  removeAllListeners: removeAllListeners,
  emit: emit,
  binding: binding,
  cwd: cwd,
  chdir: chdir,
  umask: umask,
  hrtime: hrtime,
  platform: platform,
  release: release,
  config: config,
  uptime: uptime
};
```

```
/*!
 * Vue.js v2.5.13
 * (c) 2014-2017 Evan You
 * Released under the MIT License.
 */
/*  */

var emptyObject = Object.freeze({});

// these helpers produces better vm code in JS engines due to their
// explicitness and function inlining
function isUndef (v) {
  return v === undefined || v === null
}

function isDef (v) {
  return v !== undefined && v !== null
}

function isTrue (v) {
  return v === true
}

function isFalse (v) {
  return v === false
}

/**
 * Check if value is primitive
 */
function isPrimitive (value) {
  return (
    typeof value === 'string' ||
    typeof value === 'number' ||
    // $flow-disable-line
    typeof value === 'symbol' ||
    typeof value === 'boolean'
  )
}

/**
 * Quick object check - this is primarily used to tell
 * Objects from primitive values when we know the value
 * is a JSON-compliant type.
 */
function isObject (obj) {
```

```
  return obj !== null && typeof obj === 'object'
}

/**
 * Get the raw type string of a value e.g. [object Object]
 */
var _toString = Object.prototype.toString;

function toRawType (value) {
  return _toString.call(value).slice(8, -1)
}

/**
 * Strict object type check. Only returns true
 * for plain JavaScript objects.
 */
function isPlainObject (obj) {
  return _toString.call(obj) === '[object Object]'
}

function isRegExp (v) {
  return _toString.call(v) === '[object RegExp]'
}

/**
 * Check if val is a valid array index.
 */
function isValidArrayIndex (val) {
  var n = parseFloat(String(val));
  return n >= 0 && Math.floor(n) === n && isFinite(val)
}

/**
 * Convert a value to a string that is actually rendered.
 */
function toString$1 (val) {
  return val == null
    ? ''
    : typeof val === 'object'
      ? JSON.stringify(val, null, 2)
      : String(val)
}

/**
 * Convert a input value to a number for persistence.
 * If the conversion fails, return original string.
```

```
 */
function toNumber (val) {
  var n = parseFloat(val);
  return isNaN(n) ? val : n
}

/**
 * Make a map and return a function for checking if a key
 * is in that map.
 */
function makeMap (
  str,
  expectsLowerCase
) {
  var map = Object.create(null);
  var list = str.split(',');
  for (var i = 0; i < list.length; i++) {
    map[list[i]] = true;
  }
  return expectsLowerCase
    ? function (val) { return map[val.toLowerCase()]; }
    : function (val) { return map[val]; }
}

/**
 * Check if a tag is a built-in tag.
 */
var isBuiltInTag = makeMap('slot,component', true);

/**
 * Check if a attribute is a reserved attribute.
 */
var isReservedAttribute = makeMap('key,ref,slot,slot-scope,is');

/**
 * Remove an item from an array
 */
function remove (arr, item) {
  if (arr.length) {
    var index = arr.indexOf(item);
    if (index > -1) {
      return arr.splice(index, 1)
    }
  }
}
```

```
/**
 * Check whether the object has the property.
 */
var hasOwnProperty = Object.prototype.hasOwnProperty;
function hasOwn (obj, key) {
  return hasOwnProperty.call(obj, key)
}

/**
 * Create a cached version of a pure function.
 */
function cached (fn) {
  var cache = Object.create(null);
  return (function cachedFn (str) {
    var hit = cache[str];
    return hit || (cache[str] = fn(str))
  })
}

/**
 * Camelize a hyphen-delimited string.
 */
var camelizeRE = /-(\w)/g;
var camelize = cached(function (str) {
  return str.replace(camelizeRE, function (_, c) { return c ? c.toUpperCase() : ''; })
});

/**
 * Capitalize a string.
 */
var capitalize = cached(function (str) {
  return str.charAt(0).toUpperCase() + str.slice(1)
});

/**
 * Hyphenate a camelCase string.
 */
var hyphenateRE = /\B([A-Z])/g;
var hyphenate = cached(function (str) {
  return str.replace(hyphenateRE, '-$1').toLowerCase()
});

/**
 * Simple bind, faster than native
 */
function bind (fn, ctx) {
```

```
  function boundFn (a) {
    var l = arguments.length;
    return l
      ? l > 1
        ? fn.apply(ctx, arguments)
        : fn.call(ctx, a)
      : fn.call(ctx)
  }
  // record original fn length
  boundFn._length = fn.length;
  return boundFn
}

/**
 * Convert an Array-like object to a real Array.
 */
function toArray (list, start) {
  start = start || 0;
  var i = list.length - start;
  var ret = new Array(i);
  while (i--) {
    ret[i] = list[i + start];
  }
  return ret
}

/**
 * Mix properties into target object.
 */
function extend (to, _from) {
  for (var key in _from) {
    to[key] = _from[key];
  }
  return to
}

/**
 * Merge an Array of Objects into a single Object.
 */
function toObject (arr) {
  var res = {};
  for (var i = 0; i < arr.length; i++) {
    if (arr[i]) {
      extend(res, arr[i]);
    }
  }
```

```
  return res
}

/**
 * Perform no operation.
 * Stubbing args to make Flow happy without leaving useless transpiled code
 * with ...rest (https://flow.org/blog/2017/05/07/Strict-Function-Call-Arity/)
 */
function noop$1 (a, b, c) {}

/**
 * Always return false.
 */
var no = function (a, b, c) { return false; };

/**
 * Return same value
 */
var identity = function (_) { return _; };

/**
 * Generate a static keys string from compiler modules.
 */


/**
 * Check if two values are loosely equal - that is,
 * if they are plain objects, do they have the same shape?
 */
function looseEqual (a, b) {
  if (a === b) { return true }
  var isObjectA = isObject(a);
  var isObjectB = isObject(b);
  if (isObjectA && isObjectB) {
    try {
      var isArrayA = Array.isArray(a);
      var isArrayB = Array.isArray(b);
      if (isArrayA && isArrayB) {
        return a.length === b.length && a.every(function (e, i) {
          return looseEqual(e, b[i])
        })
      } else if (!isArrayA && !isArrayB) {
        var keysA = Object.keys(a);
        var keysB = Object.keys(b);
        return keysA.length === keysB.length && keysA.every(function (key) {
          return looseEqual(a[key], b[key])
```

```
      })
    } else {
      /* istanbul ignore next */
      return false
    }
  } catch (e) {
    /* istanbul ignore next */
    return false
  }
} else if (!isObjectA && !isObjectB) {
  return String(a) === String(b)
} else {
  return false
}
}

function looseIndexOf (arr, val) {
for (var i = 0; i < arr.length; i++) {
  if (looseEqual(arr[i], val)) { return i }
}
return -1
}

/**
* Ensure a function is called only once.
*/
function once$1 (fn) {
var called = false;
return function () {
  if (!called) {
    called = true;
    fn.apply(this, arguments);
  }
}
}

var SSR_ATTR = 'data-server-rendered';

var ASSET_TYPES = [
'component',
'directive',
'filter'
];

var LIFECYCLE_HOOKS = [
'beforeCreate',
```

```
  'created',
  'beforeMount',
  'mounted',
  'beforeUpdate',
  'updated',
  'beforeDestroy',
  'destroyed',
  'activated',
  'deactivated',
  'errorCaptured'
];

/*  */

var config$1 = ({
  /**
   * Option merge strategies (used in core/util/options)
   */
  // $flow-disable-line
  optionMergeStrategies: Object.create(null),

  /**
   * Whether to suppress warnings.
   */
  silent: false,

  /**
   * Show production mode tip message on boot?
   */
  productionTip: process.env.NODE_ENV !== 'production',

  /**
   * Whether to enable devtools
   */
  devtools: process.env.NODE_ENV !== 'production',

  /**
   * Whether to record perf
   */
  performance: false,

  /**
   * Error handler for watcher errors
   */
  errorHandler: null,
```

```
/**
 * Warn handler for watcher warns
 */
warnHandler: null,

/**
 * Ignore certain custom elements
 */
ignoredElements: [],

/**
 * Custom user key aliases for v-on
 */
// $flow-disable-line
keyCodes: Object.create(null),

/**
 * Check if a tag is reserved so that it cannot be registered as a
 * component. This is platform-dependent and may be overwritten.
 */
isReservedTag: no,

/**
 * Check if an attribute is reserved so that it cannot be used as a component
 * prop. This is platform-dependent and may be overwritten.
 */
isReservedAttr: no,

/**
 * Check if a tag is an unknown element.
 * Platform-dependent.
 */
isUnknownElement: no,

/**
 * Get the namespace of an element
 */
getTagNamespace: noop$1,

/**
 * Parse the real tag name for the specific platform.
 */
parsePlatformTagName: identity,

/**
 * Check if an attribute must be bound using property, e.g. value
```

```
   * Platform-dependent.
   */
  mustUseProp: no,

  /**
   * Exposed for legacy reasons
   */
  _lifecycleHooks: LIFECYCLE_HOOKS
});

/*  */

/**
 * Check if a string starts with $ or _
 */
function isReserved (str) {
  var c = (str + '').charCodeAt(0);
  return c === 0x24 || c === 0x5F
}

/**
 * Define a property.
 */
function def (obj, key, val, enumerable) {
  Object.defineProperty(obj, key, {
    value: val,
    enumerable: !!enumerable,
    writable: true,
    configurable: true
  });
}

/**
 * Parse simple path.
 */
var bailRE = /[^\w.$]/;
function parsePath (path) {
  if (bailRE.test(path)) {
    return
  }
  var segments = path.split('.');
  return function (obj) {
    for (var i = 0; i < segments.length; i++) {
      if (!obj) { return }
      obj = obj[segments[i]];
    }
```

```
    return obj
  }
}

/*  */


// can we use __proto__?
var hasProto = '__proto__' in {};

// Browser environment sniffing
var inBrowser = typeof window !== 'undefined';
var inWeex = typeof WXEnvironment !== 'undefined' && !!WXEnvironment.platform;
var weexPlatform = inWeex && WXEnvironment.platform.toLowerCase();
var UA = inBrowser && window.navigator.userAgent.toLowerCase();
var isIE = UA && /msie|trident/.test(UA);
var isIE9 = UA && UA.indexOf('msie 9.0') > 0;
var isEdge = UA && UA.indexOf('edge/') > 0;
var isAndroid = (UA && UA.indexOf('android') > 0) || (weexPlatform === 'android');
var isIOS = (UA && /iphone|ipad|ipod|ios/.test(UA)) || (weexPlatform === 'ios');
var isChrome = UA && /chrome\/\d+/.test(UA) && !isEdge;

// Firefox has a "watch" function on Object.prototype...
var nativeWatch = ({}).watch;

var supportsPassive = false;
if (inBrowser) {
  try {
    var opts = {};
    Object.defineProperty(opts, 'passive', ({
      get: function get () {
        /* istanbul ignore next */
        supportsPassive = true;
      }
    })); // https://github.com/facebook/flow/issues/285
    window.addEventListener('test-passive', null, opts);
  } catch (e) {}
}

// this needs to be lazy-evaled because vue may be required before
// vue-server-renderer can set VUE_ENV
var _isServer;
var isServerRendering = function () {
  if (_isServer === undefined) {
    /* istanbul ignore if */
    if (!inBrowser && typeof global$1 !== 'undefined') {
```

```
      // detect presence of vue-server-renderer and avoid
      // Webpack shimming the process
      _isServer = global$1['process'].env.VUE_ENV === 'server';
    } else {
      _isServer = false;
    }
  }
  return _isServer
};

// detect devtools
var devtools = inBrowser && window.__VUE_DEVTOOLS_GLOBAL_HOOK__;

/* istanbul ignore next */
function isNative (Ctor) {
  return typeof Ctor === 'function' && /native code/.test(Ctor.toString())
}

var hasSymbol =
  typeof Symbol !== 'undefined' && isNative(Symbol) &&
  typeof Reflect !== 'undefined' && isNative(Reflect.ownKeys);

var _Set;
/* istanbul ignore if */ // $flow-disable-line
if (typeof Set !== 'undefined' && isNative(Set)) {
  // use native Set when available.
  _Set = Set;
} else {
  // a non-standard Set polyfill that only works with primitive keys.
  _Set = (function () {
    function Set () {
      this.set = Object.create(null);
    }
    Set.prototype.has = function has (key) {
      return this.set[key] === true
    };
    Set.prototype.add = function add (key) {
      this.set[key] = true;
    };
    Set.prototype.clear = function clear () {
      this.set = Object.create(null);
    };

    return Set;
  }());
}
```

```
/*  */

var warn = noop$1;
var tip = noop$1;
var generateComponentTrace = (noop$1); // work around flow check
var formatComponentName = (noop$1);

if (process.env.NODE_ENV !== 'production') {
  var hasConsole = typeof console !== 'undefined';
  var classifyRE = /(?:^|[-_])(\w)/g;
  var classify = function (str) { return str
    .replace(classifyRE, function (c) { return c.toUpperCase(); })
    .replace(/[-_]/g, ''); };

  warn = function (msg, vm) {
    var trace = vm ? generateComponentTrace(vm) : '';

    if (config$1.warnHandler) {
      config$1.warnHandler.call(null, msg, vm, trace);
    } else if (hasConsole && (!config$1.silent)) {
      console.error(("[Vue warn]: " + msg + trace));
    }
  };

  tip = function (msg, vm) {
    if (hasConsole && (!config$1.silent)) {
      console.warn("[Vue tip]: " + msg + (
        vm ? generateComponentTrace(vm) : ''
      ));
    }
  };

  formatComponentName = function (vm, includeFile) {
    if (vm.$root === vm) {
      return '<Root>'
    }
    var options = typeof vm === 'function' && vm.cid != null
      ? vm.options
      : vm._isVue
        ? vm.$options || vm.constructor.options
        : vm || {};
    var name = options.name || options._componentTag;
    var file = options.__file;
    if (!name && file) {
      var match = file.match(/([^/\\]+)\.vue$/);
```

```
    name = match && match[1];
  }

  return (
    (name ? ("<" + (classify(name)) + ">") : "<Anonymous>") +
    (file && includeFile !== false ? (" at " + file) : '')
  )
};

var repeat = function (str, n) {
  var res = '';
  while (n) {
    if (n % 2 === 1) { res += str; }
    if (n > 1) { str += str; }
    n >>= 1;
  }
  return res
};

generateComponentTrace = function (vm) {
  if (vm._isVue && vm.$parent) {
    var tree = [];
    var currentRecursiveSequence = 0;
    while (vm) {
      if (tree.length > 0) {
        var last = tree[tree.length - 1];
        if (last.constructor === vm.constructor) {
          currentRecursiveSequence++;
          vm = vm.$parent;
          continue
        } else if (currentRecursiveSequence > 0) {
          tree[tree.length - 1] = [last, currentRecursiveSequence];
          currentRecursiveSequence = 0;
        }
      }
      tree.push(vm);
      vm = vm.$parent;
    }
    return '\n\nfound in\n\n' + tree
      .map(function (vm, i) { return ("" + (i === 0 ? '---> ' : repeat(' ', 5 + i * 2)) +
          (Array.isArray(vm)
          ? ((formatComponentName(vm[0])) + "... (" + (vm[1]) + " recursive calls)")
          : formatComponentName(vm))); })
      .join('\n')
  } else {
    return ("\n\n(found in " + (formatComponentName(vm)) + ")")
```

```
    }
  };
}

/*  */


var uid$1 = 0;

/**
 * A dep is an observable that can have multiple
 * directives subscribing to it.
 */
var Dep = function Dep () {
  this.id = uid$1++;
  this.subs = [];
};

Dep.prototype.addSub = function addSub (sub) {
  this.subs.push(sub);
};

Dep.prototype.removeSub = function removeSub (sub) {
  remove(this.subs, sub);
};

Dep.prototype.depend = function depend () {
  if (Dep.target) {
    Dep.target.addDep(this);
  }
};

Dep.prototype.notify = function notify () {
  // stabilize the subscriber list first
  var subs = this.subs.slice();
  for (var i = 0, l = subs.length; i < l; i++) {
    subs[i].update();
  }
};

// the current target watcher being evaluated.
// this is globally unique because there could be only one
// watcher being evaluated at any time.
Dep.target = null;
var targetStack = [];
```

```
function pushTarget (_target) {
  if (Dep.target) { targetStack.push(Dep.target); }
  Dep.target = _target;
}

function popTarget () {
  Dep.target = targetStack.pop();
}

/*  */

var VNode = function VNode (
  tag,
  data,
  children,
  text,
  elm,
  context,
  componentOptions,
  asyncFactory
) {
  this.tag = tag;
  this.data = data;
  this.children = children;
  this.text = text;
  this.elm = elm;
  this.ns = undefined;
  this.context = context;
  this.fnContext = undefined;
  this.fnOptions = undefined;
  this.fnScopeId = undefined;
  this.key = data && data.key;
  this.componentOptions = componentOptions;
  this.componentInstance = undefined;
  this.parent = undefined;
  this.raw = false;
  this.isStatic = false;
  this.isRootInsert = true;
  this.isComment = false;
  this.isCloned = false;
  this.isOnce = false;
  this.asyncFactory = asyncFactory;
  this.asyncMeta = undefined;
  this.isAsyncPlaceholder = false;
};
```

```
var prototypeAccessors = { child: { configurable: true } };

// DEPRECATED: alias for componentInstance for backwards compat.
/* istanbul ignore next */
prototypeAccessors.child.get = function () {
  return this.componentInstance
};

Object.defineProperties( VNode.prototype, prototypeAccessors );

var createEmptyVNode = function (text) {
  if ( text === void 0 ) { text = ''; }

  var node = new VNode();
  node.text = text;
  node.isComment = true;
  return node
};

function createTextVNode (val) {
  return new VNode(undefined, undefined, undefined, String(val))
}

// optimized shallow clone
// used for static nodes and slot nodes because they may be reused across
// multiple renders, cloning them avoids errors when DOM manipulations rely
// on their elm reference.
function cloneVNode (vnode, deep) {
  var componentOptions = vnode.componentOptions;
  var cloned = new VNode(
    vnode.tag,
    vnode.data,
    vnode.children,
    vnode.text,
    vnode.elm,
    vnode.context,
    componentOptions,
    vnode.asyncFactory
  );
  cloned.ns = vnode.ns;
  cloned.isStatic = vnode.isStatic;
  cloned.key = vnode.key;
  cloned.isComment = vnode.isComment;
  cloned.fnContext = vnode.fnContext;
  cloned.fnOptions = vnode.fnOptions;
  cloned.fnScopeId = vnode.fnScopeId;
```

```
  cloned.isCloned = true;
  if (deep) {
    if (vnode.children) {
      cloned.children = cloneVNodes(vnode.children, true);
    }
    if (componentOptions && componentOptions.children) {
      componentOptions.children = cloneVNodes(componentOptions.children, true);
    }
  }
  return cloned
}

function cloneVNodes (vnodes, deep) {
  var len = vnodes.length;
  var res = new Array(len);
  for (var i = 0; i < len; i++) {
    res[i] = cloneVNode(vnodes[i], deep);
  }
  return res
}

/*
 * not type checking this file because flow doesn't play well with
 * dynamically accessing methods on Array prototype
 */

var arrayProto = Array.prototype;
var arrayMethods = Object.create(arrayProto);[
  'push',
  'pop',
  'shift',
  'unshift',
  'splice',
  'sort',
  'reverse'
].forEach(function (method) {
  // cache original method
  var original = arrayProto[method];
  def(arrayMethods, method, function mutator () {
    var arguments$1 = arguments;

    var args = [], len = arguments.length;
    while ( len-- ) { args[ len ] = arguments$1[ len ]; }

    var result = original.apply(this, args);
    var ob = this.__ob__;
```

```
    var inserted;
    switch (method) {
      case 'push':
      case 'unshift':
        inserted = args;
        break
      case 'splice':
        inserted = args.slice(2);
        break
    }
    if (inserted) { ob.observeArray(inserted); }
    // notify change
    ob.dep.notify();
    return result
  });
});

/*  */

var arrayKeys = Object.getOwnPropertyNames(arrayMethods);

/**
 * By default, when a reactive property is set, the new value is
 * also converted to become reactive. However when passing down props,
 * we don't want to force conversion because the value may be a nested value
 * under a frozen data structure. Converting it would defeat the optimization.
 */
var observerState = {
  shouldConvert: true
};

/**
 * Observer class that are attached to each observed
 * object. Once attached, the observer converts target
 * object's property keys into getter/setters that
 * collect dependencies and dispatches updates.
 */
var Observer = function Observer (value) {
  this.value = value;
  this.dep = new Dep();
  this.vmCount = 0;
  def(value, '__ob__', this);
  if (Array.isArray(value)) {
    var augment = hasProto
      ? protoAugment
      : copyAugment;
```

```
    augment(value, arrayMethods, arrayKeys);
    this.observeArray(value);
  } else {
    this.walk(value);
  }
};

/**
 * Walk through each property and convert them into
 * getter/setters. This method should only be called when
 * value type is Object.
 */
Observer.prototype.walk = function walk (obj) {
  var keys = Object.keys(obj);
  for (var i = 0; i < keys.length; i++) {
    defineReactive(obj, keys[i], obj[keys[i]]);
  }
};

/**
 * Observe a list of Array items.
 */
Observer.prototype.observeArray = function observeArray (items) {
  for (var i = 0, l = items.length; i < l; i++) {
    observe(items[i]);
  }
};

// helpers

/**
 * Augment an target Object or Array by intercepting
 * the prototype chain using __proto__
 */
function protoAugment (target, src, keys) {
  /* eslint-disable no-proto */
  target.__proto__ = src;
  /* eslint-enable no-proto */
}

/**
 * Augment an target Object or Array by defining
 * hidden properties.
 */
/* istanbul ignore next */
function copyAugment (target, src, keys) {
```

```
  for (var i = 0, l = keys.length; i < l; i++) {
    var key = keys[i];
    def(target, key, src[key]);
  }
}

/**
 * Attempt to create an observer instance for a value,
 * returns the new observer if successfully observed,
 * or the existing observer if the value already has one.
 */
function observe (value, asRootData) {
  if (!isObject(value) || value instanceof VNode) {
    return
  }
  var ob;
  if (hasOwn(value, '__ob__') && value.__ob__ instanceof Observer) {
    ob = value.__ob__;
  } else if (
    observerState.shouldConvert &&
    !isServerRendering() &&
    (Array.isArray(value) || isPlainObject(value)) &&
    Object.isExtensible(value) &&
    !value._isVue
  ) {
    ob = new Observer(value);
  }
  if (asRootData && ob) {
    ob.vmCount++;
  }
  return ob
}

/**
 * Define a reactive property on an Object.
 */
function defineReactive (
  obj,
  key,
  val,
  customSetter,
  shallow
) {
  var dep = new Dep();

  var property = Object.getOwnPropertyDescriptor(obj, key);
```

```
  if (property && property.configurable === false) {
    return
  }

  // cater for pre-defined getter/setters
  var getter = property && property.get;
  var setter = property && property.set;

  var childOb = !shallow && observe(val);
  Object.defineProperty(obj, key, {
    enumerable: true,
    configurable: true,
    get: function reactiveGetter () {
      var value = getter ? getter.call(obj) : val;
      if (Dep.target) {
        dep.depend();
        if (childOb) {
          childOb.dep.depend();
          if (Array.isArray(value)) {
            dependArray(value);
          }
        }
      }
      return value
    },
    set: function reactiveSetter (newVal) {
      var value = getter ? getter.call(obj) : val;
      /* eslint-disable no-self-compare */
      if (newVal === value || (newVal !== newVal && value !== value)) {
        return
      }
      /* eslint-enable no-self-compare */
      if (process.env.NODE_ENV !== 'production' && customSetter) {
        customSetter();
      }
      if (setter) {
        setter.call(obj, newVal);
      } else {
        val = newVal;
      }
      childOb = !shallow && observe(newVal);
      dep.notify();
    }
  });
}
```

```
/**
 * Set a property on an object. Adds the new property and
 * triggers change notification if the property doesn't
 * already exist.
 */
function set (target, key, val) {
  if (Array.isArray(target) && isValidArrayIndex(key)) {
    target.length = Math.max(target.length, key);
    target.splice(key, 1, val);
    return val
  }
  if (key in target && !(key in Object.prototype)) {
    target[key] = val;
    return val
  }
  var ob = (target).__ob__;
  if (target._isVue || (ob && ob.vmCount)) {
    process.env.NODE_ENV !== 'production' && warn(
      'Avoid adding reactive properties to a Vue instance or its root $data ' +
      'at runtime - declare it upfront in the data option.'
    );
    return val
  }
  if (!ob) {
    target[key] = val;
    return val
  }
  defineReactive(ob.value, key, val);
  ob.dep.notify();
  return val
}

/**
 * Delete a property and trigger change if necessary.
 */
function del (target, key) {
  if (Array.isArray(target) && isValidArrayIndex(key)) {
    target.splice(key, 1);
    return
  }
  var ob = (target).__ob__;
  if (target._isVue || (ob && ob.vmCount)) {
    process.env.NODE_ENV !== 'production' && warn(
      'Avoid deleting properties on a Vue instance or its root $data ' +
      '- just set it to null.'
    );
```

```
    return
  }
  if (!hasOwn(target, key)) {
    return
  }
  delete target[key];
  if (!ob) {
    return
  }
  ob.dep.notify();
}

/**
 * Collect dependencies on array elements when the array is touched, since
 * we cannot intercept array element access like property getters.
 */
function dependArray (value) {
  for (var e = (void 0), i = 0, l = value.length; i < l; i++) {
    e = value[i];
    e && e.__ob__ && e.__ob__.dep.depend();
    if (Array.isArray(e)) {
      dependArray(e);
    }
  }
}

/*  */

/**
 * Option overwriting strategies are functions that handle
 * how to merge a parent option value and a child option
 * value into the final value.
 */
var strats = config$1.optionMergeStrategies;

/**
 * Options with restrictions
 */
if (process.env.NODE_ENV !== 'production') {
  strats.el = strats.propsData = function (parent, child, vm, key) {
    if (!vm) {
      warn(
        "option \"" + key + "\" can only be used during instance " +
        'creation with the `new` keyword.'
      );
    }
```

```
    return defaultStrat(parent, child)
  };
}

/**
 * Helper that recursively merges two data objects together.
 */
function mergeData (to, from) {
  if (!from) { return to }
  var key, toVal, fromVal;
  var keys = Object.keys(from);
  for (var i = 0; i < keys.length; i++) {
    key = keys[i];
    toVal = to[key];
    fromVal = from[key];
    if (!hasOwn(to, key)) {
      set(to, key, fromVal);
    } else if (isPlainObject(toVal) && isPlainObject(fromVal)) {
      mergeData(toVal, fromVal);
    }
  }
  return to
}

/**
 * Data
 */
function mergeDataOrFn (
  parentVal,
  childVal,
  vm
) {
  if (!vm) {
    // in a Vue.extend merge, both should be functions
    if (!childVal) {
      return parentVal
    }
    if (!parentVal) {
      return childVal
    }
    // when parentVal & childVal are both present,
    // we need to return a function that returns the
    // merged result of both functions... no need to
    // check if parentVal is a function here because
    // it has to be a function to pass previous merges.
    return function mergedDataFn () {
```

```
      return mergeData(
        typeof childVal === 'function' ? childVal.call(this, this) : childVal,
        typeof parentVal === 'function' ? parentVal.call(this, this) : parentVal
      )
    }
  } else {
    return function mergedInstanceDataFn () {
      // instance merge
      var instanceData = typeof childVal === 'function'
        ? childVal.call(vm, vm)
        : childVal;
      var defaultData = typeof parentVal === 'function'
        ? parentVal.call(vm, vm)
        : parentVal;
      if (instanceData) {
        return mergeData(instanceData, defaultData)
      } else {
        return defaultData
      }
    }
  }
}

strats.data = function (
  parentVal,
  childVal,
  vm
) {
  if (!vm) {
    if (childVal && typeof childVal !== 'function') {
      process.env.NODE_ENV !== 'production' && warn(
        'The "data" option should be a function ' +
        'that returns a per-instance value in component ' +
        'definitions.',
        vm
      );

      return parentVal
    }
    return mergeDataOrFn(parentVal, childVal)
  }

  return mergeDataOrFn(parentVal, childVal, vm)
};

/**
```

```
 * Hooks and props are merged as arrays.
 */
function mergeHook (
  parentVal,
  childVal
) {
  return childVal
    ? parentVal
      ? parentVal.concat(childVal)
      : Array.isArray(childVal)
        ? childVal
        : [childVal]
    : parentVal
}

LIFECYCLE_HOOKS.forEach(function (hook) {
  strats[hook] = mergeHook;
});

/**
 * Assets
 *
 * When a vm is present (instance creation), we need to do
 * a three-way merge between constructor options, instance
 * options and parent options.
 */
function mergeAssets (
  parentVal,
  childVal,
  vm,
  key
) {
  var res = Object.create(parentVal || null);
  if (childVal) {
    process.env.NODE_ENV !== 'production' && assertObjectType(key, childVal, vm);
    return extend(res, childVal)
  } else {
    return res
  }
}

ASSET_TYPES.forEach(function (type) {
  strats[type + 's'] = mergeAssets;
});

/**
```

```
 * Watchers.
 *
 * Watchers hashes should not overwrite one
 * another, so we merge them as arrays.
 */
strats.watch = function (
  parentVal,
  childVal,
  vm,
  key
) {
  // work around Firefox's Object.prototype.watch...
  if (parentVal === nativeWatch) { parentVal = undefined; }
  if (childVal === nativeWatch) { childVal = undefined; }
  /* istanbul ignore if */
  if (!childVal) { return Object.create(parentVal || null) }
  if (process.env.NODE_ENV !== 'production') {
    assertObjectType(key, childVal, vm);
  }
  if (!parentVal) { return childVal }
  var ret = {};
  extend(ret, parentVal);
  for (var key$1 in childVal) {
    var parent = ret[key$1];
    var child = childVal[key$1];
    if (parent && !Array.isArray(parent)) {
      parent = [parent];
    }
    ret[key$1] = parent
      ? parent.concat(child)
      : Array.isArray(child) ? child : [child];
  }
  return ret
};

/**
 * Other object hashes.
 */
strats.props =
strats.methods =
strats.inject =
strats.computed = function (
  parentVal,
  childVal,
  vm,
  key
```

```
) {
  if (childVal && process.env.NODE_ENV !== 'production') {
    assertObjectType(key, childVal, vm);
  }
  if (!parentVal) { return childVal }
  var ret = Object.create(null);
  extend(ret, parentVal);
  if (childVal) { extend(ret, childVal); }
  return ret
};
strats.provide = mergeDataOrFn;

/**
 * Default strategy.
 */
var defaultStrat = function (parentVal, childVal) {
  return childVal === undefined
    ? parentVal
    : childVal
};

/**
 * Validate component names
 */
function checkComponents (options) {
  for (var key in options.components) {
    validateComponentName(key);
  }
}

function validateComponentName (name) {
  if (!/^[a-zA-Z][\w-]*$/.test(name)) {
    warn(
      'Invalid component name: "' + name + '". Component names ' +
      'can only contain alphanumeric characters and the hyphen, ' +
      'and must start with a letter.'
    );
  }
  if (isBuiltInTag(name) || config$1.isReservedTag(name)) {
    warn(
      'Do not use built-in or reserved HTML elements as component ' +
      'id: ' + name
    );
  }
}
```

```
/**
 * Ensure all props option syntax are normalized into the
 * Object-based format.
 */
function normalizeProps (options, vm) {
  var props = options.props;
  if (!props) { return }
  var res = {};
  var i, val, name;
  if (Array.isArray(props)) {
    i = props.length;
    while (i--) {
      val = props[i];
      if (typeof val === 'string') {
        name = camelize(val);
        res[name] = { type: null };
      } else if (process.env.NODE_ENV !== 'production') {
        warn('props must be strings when using array syntax.');
      }
    }
  } else if (isPlainObject(props)) {
    for (var key in props) {
      val = props[key];
      name = camelize(key);
      res[name] = isPlainObject(val)
        ? val
        : { type: val };
    }
  } else if (process.env.NODE_ENV !== 'production') {
    warn(
      "Invalid value for option \"props\": expected an Array or an Object, " +
      "but got " + (toRawType(props)) + ".",
      vm
    );
  }
  options.props = res;
}

/**
 * Normalize all injections into Object-based format
 */
function normalizeInject (options, vm) {
  var inject = options.inject;
  if (!inject) { return }
  var normalized = options.inject = {};
  if (Array.isArray(inject)) {
```

```
    for (var i = 0; i < inject.length; i++) {
      normalized[inject[i]] = { from: inject[i] };
    }
  } else if (isPlainObject(inject)) {
    for (var key in inject) {
      var val = inject[key];
      normalized[key] = isPlainObject(val)
        ? extend({ from: key }, val)
        : { from: val };
    }
  } else if (process.env.NODE_ENV !== 'production') {
    warn(
      "Invalid value for option \"inject\": expected an Array or an Object, " +
      "but got " + (toRawType(inject)) + ".",
      vm
    );
  }
}

/**
 * Normalize raw function directives into object format.
 */
function normalizeDirectives (options) {
  var dirs = options.directives;
  if (dirs) {
    for (var key in dirs) {
      var def = dirs[key];
      if (typeof def === 'function') {
        dirs[key] = { bind: def, update: def };
      }
    }
  }
}

function assertObjectType (name, value, vm) {
  if (!isPlainObject(value)) {
    warn(
      "Invalid value for option \"" + name + "\": expected an Object, " +
      "but got " + (toRawType(value)) + ".",
      vm
    );
  }
}

/**
 * Merge two option objects into a new one.
```

```
 * Core utility used in both instantiation and inheritance.
 */
function mergeOptions (
  parent,
  child,
  vm
) {
  if (process.env.NODE_ENV !== 'production') {
    checkComponents(child);
  }

  if (typeof child === 'function') {
    child = child.options;
  }

  normalizeProps(child, vm);
  normalizeInject(child, vm);
  normalizeDirectives(child);
  var extendsFrom = child.extends;
  if (extendsFrom) {
    parent = mergeOptions(parent, extendsFrom, vm);
  }
  if (child.mixins) {
    for (var i = 0, l = child.mixins.length; i < l; i++) {
      parent = mergeOptions(parent, child.mixins[i], vm);
    }
  }
  var options = {};
  var key;
  for (key in parent) {
    mergeField(key);
  }
  for (key in child) {
    if (!hasOwn(parent, key)) {
      mergeField(key);
    }
  }
  function mergeField (key) {
    var strat = strats[key] || defaultStrat;
    options[key] = strat(parent[key], child[key], vm, key);
  }
  return options
}

/**
 * Resolve an asset.
```

```
 * This function is used because child instances need access
 * to assets defined in its ancestor chain.
 */
function resolveAsset (
  options,
  type,
  id,
  warnMissing
) {
  /* istanbul ignore if */
  if (typeof id !== 'string') {
    return
  }
  var assets = options[type];
  // check local registration variations first
  if (hasOwn(assets, id)) { return assets[id] }
  var camelizedId = camelize(id);
  if (hasOwn(assets, camelizedId)) { return assets[camelizedId] }
  var PascalCaseId = capitalize(camelizedId);
  if (hasOwn(assets, PascalCaseId)) { return assets[PascalCaseId] }
  // fallback to prototype chain
  var res = assets[id] || assets[camelizedId] || assets[PascalCaseId];
  if (process.env.NODE_ENV !== 'production' && warnMissing && !res) {
    warn(
      'Failed to resolve ' + type.slice(0, -1) + ': ' + id,
      options
    );
  }
  return res
}

/*  */

function validateProp (
  key,
  propOptions,
  propsData,
  vm
) {
  var prop = propOptions[key];
  var absent = !hasOwn(propsData, key);
  var value = propsData[key];
  // handle boolean props
  if (isType(Boolean, prop.type)) {
    if (absent && !hasOwn(prop, 'default')) {
      value = false;
```

```
    } else if (!isType(String, prop.type) && (value === '' || value === hyphenate(key))) {
      value = true;
    }
  }
  // check default value
  if (value === undefined) {
    value = getPropDefaultValue(vm, prop, key);
    // since the default value is a fresh copy,
    // make sure to observe it.
    var prevShouldConvert = observerState.shouldConvert;
    observerState.shouldConvert = true;
    observe(value);
    observerState.shouldConvert = prevShouldConvert;
  }
  if (
    process.env.NODE_ENV !== 'production' &&
    // skip validation for weex recycle-list child component props
    !(false && isObject(value) && ('@binding' in value))
  ) {
    assertProp(prop, key, value, vm, absent);
  }
  return value
}

/**
 * Get the default value of a prop.
 */
function getPropDefaultValue (vm, prop, key) {
  // no default, return undefined
  if (!hasOwn(prop, 'default')) {
    return undefined
  }
  var def = prop.default;
  // warn against non-factory defaults for Object & Array
  if (process.env.NODE_ENV !== 'production' && isObject(def)) {
    warn(
      'Invalid default value for prop "' + key + '": ' +
      'Props with type Object/Array must use a factory function ' +
      'to return the default value.',
      vm
    );
  }
  // the raw prop value was also undefined from previous render,
  // return previous default value to avoid unnecessary watcher trigger
  if (vm && vm.$options.propsData &&
    vm.$options.propsData[key] === undefined &&
```

```
    vm._props[key] !== undefined
  ) {
    return vm._props[key]
  }
  // call factory function for non-Function types
  // a value is Function if its prototype is function even across different execution context
  return typeof def === 'function' && getType(prop.type) !== 'Function'
    ? def.call(vm)
    : def
}

/**
 * Assert whether a prop is valid.
 */
function assertProp (
  prop,
  name,
  value,
  vm,
  absent
) {
  if (prop.required && absent) {
    warn(
      'Missing required prop: "' + name + '"',
      vm
    );
    return
  }
  if (value == null && !prop.required) {
    return
  }
  var type = prop.type;
  var valid = !type || type === true;
  var expectedTypes = [];
  if (type) {
    if (!Array.isArray(type)) {
      type = [type];
    }
    for (var i = 0; i < type.length && !valid; i++) {
      var assertedType = assertType(value, type[i]);
      expectedTypes.push(assertedType.expectedType || '');
      valid = assertedType.valid;
    }
  }
  if (!valid) {
    warn(
```

```
      "Invalid prop: type check failed for prop \"" + name + "\"." +
      " Expected " + (expectedTypes.map(capitalize).join(', ')) +
      ", got " + (toRawType(value)) + ".",
      vm
    );
    return
  }
  var validator = prop.validator;
  if (validator) {
    if (!validator(value)) {
      warn(
        'Invalid prop: custom validator check failed for prop "' + name + '".',
        vm
      );
    }
  }
}

var simpleCheckRE = /^(String|Number|Boolean|Function|Symbol)$/;

function assertType (value, type) {
  var valid;
  var expectedType = getType(type);
  if (simpleCheckRE.test(expectedType)) {
    var t = typeof value;
    valid = t === expectedType.toLowerCase();
    // for primitive wrapper objects
    if (!valid && t === 'object') {
      valid = value instanceof type;
    }
  } else if (expectedType === 'Object') {
    valid = isPlainObject(value);
  } else if (expectedType === 'Array') {
    valid = Array.isArray(value);
  } else {
    valid = value instanceof type;
  }
  return {
    valid: valid,
    expectedType: expectedType
  }
}

/**
 * Use function string name to check built-in types,
 * because a simple equality check will fail when running
```

```
 * across different vms / iframes.
 */
function getType (fn) {
  var match = fn && fn.toString().match(/^\s*function (\w+)/);
  return match ? match[1] : ''
}

function isType (type, fn) {
  if (!Array.isArray(fn)) {
    return getType(fn) === getType(type)
  }
  for (var i = 0, len = fn.length; i < len; i++) {
    if (getType(fn[i]) === getType(type)) {
      return true
    }
  }
  /* istanbul ignore next */
  return false
}

/*  */

function handleError (err, vm, info) {
  if (vm) {
    var cur = vm;
    while ((cur = cur.$parent)) {
      var hooks = cur.$options.errorCaptured;
      if (hooks) {
        for (var i = 0; i < hooks.length; i++) {
          try {
            var capture = hooks[i].call(cur, err, vm, info) === false;
            if (capture) { return }
          } catch (e) {
            globalHandleError(e, cur, 'errorCaptured hook');
          }
        }
      }
    }
  }
  globalHandleError(err, vm, info);
}

function globalHandleError (err, vm, info) {
  if (config$1.errorHandler) {
    try {
      return config$1.errorHandler.call(null, err, vm, info)
```

```
    } catch (e) {
      logError(e, null, 'config.errorHandler');
    }
  }
  logError(err, vm, info);
}

function logError (err, vm, info) {
  if (process.env.NODE_ENV !== 'production') {
    warn(("Error in " + info + ": \"" + (err.toString()) + "\""), vm);
  }
  /* istanbul ignore else */
  if ((inBrowser || inWeex) && typeof console !== 'undefined') {
    console.error(err);
  } else {
    throw err
  }
}

/*  */
/* globals MessageChannel */

var callbacks = [];
var pending = false;

function flushCallbacks () {
  pending = false;
  var copies = callbacks.slice(0);
  callbacks.length = 0;
  for (var i = 0; i < copies.length; i++) {
    copies[i]();
  }
}

// Here we have async deferring wrappers using both micro and macro tasks.
// In < 2.4 we used micro tasks everywhere, but there are some scenarios where
// micro tasks have too high a priority and fires in between supposedly
// sequential events (e.g. #4521, #6690) or even between bubbling of the same
// event (#6566). However, using macro tasks everywhere also has subtle problems
// when state is changed right before repaint (e.g. #6813, out-in transitions).
// Here we use micro task by default, but expose a way to force macro task when
// needed (e.g. in event handlers attached by v-on).
var microTimerFunc;
var macroTimerFunc;
var useMacroTask = false;
```

```
// Determine (macro) Task defer implementation.
// Technically setImmediate should be the ideal choice, but it's only available
// in IE. The only polyfill that consistently queues the callback after all DOM
// events triggered in the same loop is by using MessageChannel.
/* istanbul ignore if */
if (typeof setImmediate !== 'undefined' && isNative(setImmediate)) {
  macroTimerFunc = function () {
    setImmediate(flushCallbacks);
  };
} else if (typeof MessageChannel !== 'undefined' && (
  isNative(MessageChannel) ||
  // PhantomJS
  MessageChannel.toString() === '[object MessageChannelConstructor]'
)) {
  var channel = new MessageChannel();
  var port = channel.port2;
  channel.port1.onmessage = flushCallbacks;
  macroTimerFunc = function () {
    port.postMessage(1);
  };
} else {
  /* istanbul ignore next */
  macroTimerFunc = function () {
    setTimeout(flushCallbacks, 0);
  };
}

// Determine MicroTask defer implementation.
/* istanbul ignore next, $flow-disable-line */
if (typeof Promise !== 'undefined' && isNative(Promise)) {
  var p = Promise.resolve();
  microTimerFunc = function () {
    p.then(flushCallbacks);
    // in problematic UIWebViews, Promise.then doesn't completely break, but
    // it can get stuck in a weird state where callbacks are pushed into the
    // microtask queue but the queue isn't being flushed, until the browser
    // needs to do some other work, e.g. handle a timer. Therefore we can
    // "force" the microtask queue to be flushed by adding an empty timer.
    if (isIOS) { setTimeout(noop$1); }
  };
} else {
  // fallback to macro
  microTimerFunc = macroTimerFunc;
}

/**
```

```
 * Wrap a function so that if any code inside triggers state change,
 * the changes are queued using a Task instead of a MicroTask.
 */
function withMacroTask (fn) {
  return fn._withTask || (fn._withTask = function () {
    useMacroTask = true;
    var res = fn.apply(null, arguments);
    useMacroTask = false;
    return res
  })
}

function nextTick$1 (cb, ctx) {
  var _resolve;
  callbacks.push(function () {
    if (cb) {
      try {
        cb.call(ctx);
      } catch (e) {
        handleError(e, ctx, 'nextTick');
      }
    } else if (_resolve) {
      _resolve(ctx);
    }
  });
  if (!pending) {
    pending = true;
    if (useMacroTask) {
      macroTimerFunc();
    } else {
      microTimerFunc();
    }
  }
  // $flow-disable-line
  if (!cb && typeof Promise !== 'undefined') {
    return new Promise(function (resolve) {
      _resolve = resolve;
    })
  }
}

/*  */

/* not type checking this file because flow doesn't play well with Proxy */

var initProxy;
```

```
if (process.env.NODE_ENV !== 'production') {
  var allowedGlobals = makeMap(
    'Infinity,undefined,NaN,isFinite,isNaN,' +
    'parseFloat,parseInt,decodeURI,decodeURIComponent,encodeURI,encodeURIComponent,' +
    'Math,Number,Date,Array,Object,Boolean,String,RegExp,Map,Set,JSON,Intl,' +
    'require' // for Webpack/Browserify
  );

  var warnNonPresent = function (target, key) {
    warn(
      "Property or method \"" + key + "\" is not defined on the instance but " +
      'referenced during render. Make sure that this property is reactive, ' +
      'either in the data option, or for class-based components, by ' +
      'initializing the property. ' +
      'See: https://vuejs.org/v2/guide/reactivity.html#Declaring-Reactive-Properties.',
      target
    );
  };

  var hasProxy =
    typeof Proxy !== 'undefined' &&
    Proxy.toString().match(/native code/);

  if (hasProxy) {
    var isBuiltInModifier = makeMap('stop,prevent,self,ctrl,shift,alt,meta,exact');
    config$1.keyCodes = new Proxy(config$1.keyCodes, {
      set: function set (target, key, value) {
        if (isBuiltInModifier(key)) {
          warn(("Avoid overwriting built-in modifier in config.keyCodes: ." + key));
          return false
        } else {
          target[key] = value;
          return true
        }
      }
    });
  }

  var hasHandler = {
    has: function has (target, key) {
      var has = key in target;
      var isAllowed = allowedGlobals(key) || key.charAt(0) === '_';
      if (!has && !isAllowed) {
        warnNonPresent(target, key);
      }
```

```
    return has || !isAllowed
   }
  };

  var getHandler = {
   get: function get (target, key) {
    if (typeof key === 'string' && !(key in target)) {
     warnNonPresent(target, key);
    }
    return target[key]
   }
  };

  initProxy = function initProxy (vm) {
   if (hasProxy) {
    // determine which proxy handler to use
    var options = vm.$options;
    var handlers = options.render && options.render._withStripped
     ? getHandler
     : hasHandler;
    vm._renderProxy = new Proxy(vm, handlers);
   } else {
    vm._renderProxy = vm;
   }
  };
}

/*  */

var seenObjects = new _Set();

/**
 * Recursively traverse an object to evoke all converted
 * getters, so that every nested property inside the object
 * is collected as a "deep" dependency.
 */
function traverse (val) {
  _traverse(val, seenObjects);
  seenObjects.clear();
}

function _traverse (val, seen) {
  var i, keys;
  var isA = Array.isArray(val);
  if ((!isA && !isObject(val)) || Object.isFrozen(val)) {
   return
```

```
  }
  if (val.__ob__) {
    var depId = val.__ob__.dep.id;
    if (seen.has(depId)) {
      return
    }
    seen.add(depId);
  }
  if (isA) {
    i = val.length;
    while (i--) { _traverse(val[i], seen); }
  } else {
    keys = Object.keys(val);
    i = keys.length;
    while (i--) { _traverse(val[keys[i]], seen); }
  }
}

var mark;
var measure;

if (process.env.NODE_ENV !== 'production') {
  var perf = inBrowser && window.performance;
  /* istanbul ignore if */
  if (
    perf &&
    perf.mark &&
    perf.measure &&
    perf.clearMarks &&
    perf.clearMeasures
  ) {
    mark = function (tag) { return perf.mark(tag); };
    measure = function (name, startTag, endTag) {
      perf.measure(name, startTag, endTag);
      perf.clearMarks(startTag);
      perf.clearMarks(endTag);
      perf.clearMeasures(name);
    };
  }
}

/*  */

var normalizeEvent = cached(function (name) {
  var passive = name.charAt(0) === '&';
  name = passive ? name.slice(1) : name;
```

```
  var once$$1 = name.charAt(0) === '~'; // Prefixed last, checked first
  name = once$$1 ? name.slice(1) : name;
  var capture = name.charAt(0) === '!';
  name = capture ? name.slice(1) : name;
  return {
    name: name,
    once: once$$1,
    capture: capture,
    passive: passive
  }
});

function createFnInvoker (fns) {
  function invoker () {
    var arguments$1 = arguments;

    var fns = invoker.fns;
    if (Array.isArray(fns)) {
      var cloned = fns.slice();
      for (var i = 0; i < cloned.length; i++) {
        cloned[i].apply(null, arguments$1);
      }
    } else {
      // return handler return value for single handlers
      return fns.apply(null, arguments)
    }
  }
  invoker.fns = fns;
  return invoker
}

function updateListeners (
  on$$1,
  oldOn,
  add,
  remove$$1,
  vm
) {
  var name, def, cur, old, event;
  for (name in on$$1) {
    def = cur = on$$1[name];
    old = oldOn[name];
    event = normalizeEvent(name);
    /* istanbul ignore if */
    if (isUndef(cur)) {
      process.env.NODE_ENV !== 'production' && warn(
```

```
      "Invalid handler for event \"" + (event.name) + "\": got " + String(cur),
      vm
    );
   } else if (isUndef(old)) {
    if (isUndef(cur.fns)) {
     cur = on$$1[name] = createFnInvoker(cur);
    }
    add(event.name, cur, event.once, event.capture, event.passive, event.params);
   } else if (cur !== old) {
    old.fns = cur;
    on$$1[name] = old;
   }
  }
  for (name in oldOn) {
   if (isUndef(on$$1[name])) {
    event = normalizeEvent(name);
    remove$$1(event.name, oldOn[name], event.capture);
   }
  }
}

/*  */

function mergeVNodeHook (def, hookKey, hook) {
  if (def instanceof VNode) {
   def = def.data.hook || (def.data.hook = {});
  }
  var invoker;
  var oldHook = def[hookKey];

  function wrappedHook () {
   hook.apply(this, arguments);
   // important: remove merged hook to ensure it's called only once
   // and prevent memory leak
   remove(invoker.fns, wrappedHook);
  }

  if (isUndef(oldHook)) {
   // no existing hook
   invoker = createFnInvoker([wrappedHook]);
  } else {
   /* istanbul ignore if */
   if (isDef(oldHook.fns) && isTrue(oldHook.merged)) {
    // already a merged invoker
    invoker = oldHook;
    invoker.fns.push(wrappedHook);
```

```
    } else {
      // existing plain hook
      invoker = createFnInvoker([oldHook, wrappedHook]);
    }
  }

  invoker.merged = true;
  def[hookKey] = invoker;
}

/*  */

function extractPropsFromVNodeData (
  data,
  Ctor,
  tag
) {
  // we are only extracting raw values here.
  // validation and default values are handled in the child
  // component itself.
  var propOptions = Ctor.options.props;
  if (isUndef(propOptions)) {
    return
  }
  var res = {};
  var attrs = data.attrs;
  var props = data.props;
  if (isDef(attrs) || isDef(props)) {
    for (var key in propOptions) {
      var altKey = hyphenate(key);
      if (process.env.NODE_ENV !== 'production') {
        var keyInLowerCase = key.toLowerCase();
        if (
          key !== keyInLowerCase &&
          attrs && hasOwn(attrs, keyInLowerCase)
        ) {
          tip(
            "Prop \"" + keyInLowerCase + "\" is passed to component " +
            (formatComponentName(tag || Ctor)) + ", but the declared prop name is" +
            " \"" + key + "\". " +
            "Note that HTML attributes are case-insensitive and camelCased " +
            "props need to use their kebab-case equivalents when using in-DOM " +
            "templates. You should probably use \"" + altKey + "\" instead of \"" + key + "\"."
          );
        }
      }
```

```
      checkProp(res, props, key, altKey, true) ||
      checkProp(res, attrs, key, altKey, false);
    }
  }
  return res
}

function checkProp (
  res,
  hash,
  key,
  altKey,
  preserve
) {
  if (isDef(hash)) {
    if (hasOwn(hash, key)) {
      res[key] = hash[key];
      if (!preserve) {
        delete hash[key];
      }
      return true
    } else if (hasOwn(hash, altKey)) {
      res[key] = hash[altKey];
      if (!preserve) {
        delete hash[altKey];
      }
      return true
    }
  }
  return false
}

/*  */

// The template compiler attempts to minimize the need for normalization by
// statically analyzing the template at compile time.
//
// For plain HTML markup, normalization can be completely skipped because the
// generated render function is guaranteed to return Array<VNode>. There are
// two cases where extra normalization is needed:

// 1. When the children contains components - because a functional component
// may return an Array instead of a single root. In this case, just a simple
// normalization is needed - if any child is an Array, we flatten the whole
// thing with Array.prototype.concat. It is guaranteed to be only 1-level deep
// because functional components already normalize their own children.
```

```
function simpleNormalizeChildren (children) {
  for (var i = 0; i < children.length; i++) {
    if (Array.isArray(children[i])) {
      return Array.prototype.concat.apply([], children)
    }
  }
  return children
}

// 2. When the children contains constructs that always generated nested Arrays,
// e.g. <template>, <slot>, v-for, or when the children is provided by user
// with hand-written render functions / JSX. In such cases a full normalization
// is needed to cater to all possible types of children values.
function normalizeChildren (children) {
  return isPrimitive(children)
    ? [createTextVNode(children)]
    : Array.isArray(children)
      ? normalizeArrayChildren(children)
      : undefined
}

function isTextNode (node) {
  return isDef(node) && isDef(node.text) && isFalse(node.isComment)
}

function normalizeArrayChildren (children, nestedIndex) {
  var res = [];
  var i, c, lastIndex, last;
  for (i = 0; i < children.length; i++) {
    c = children[i];
    if (isUndef(c) || typeof c === 'boolean') { continue }
    lastIndex = res.length - 1;
    last = res[lastIndex];
    //  nested
    if (Array.isArray(c)) {
      if (c.length > 0) {
        c = normalizeArrayChildren(c, ((nestedIndex || '') + "_" + i));
        // merge adjacent text nodes
        if (isTextNode(c[0]) && isTextNode(last)) {
          res[lastIndex] = createTextVNode(last.text + (c[0]).text);
          c.shift();
        }
        res.push.apply(res, c);
      }
    } else if (isPrimitive(c)) {
      if (isTextNode(last)) {
```

```
        // merge adjacent text nodes
        // this is necessary for SSR hydration because text nodes are
        // essentially merged when rendered to HTML strings
        res[lastIndex] = createTextVNode(last.text + c);
      } else if (c !== '') {
        // convert primitive to vnode
        res.push(createTextVNode(c));
      }
    } else {
      if (isTextNode(c) && isTextNode(last)) {
        // merge adjacent text nodes
        res[lastIndex] = createTextVNode(last.text + c.text);
      } else {
        // default key for nested array children (likely generated by v-for)
        if (isTrue(children._isVList) &&
          isDef(c.tag) &&
          isUndef(c.key) &&
          isDef(nestedIndex)) {
          c.key = "__vlist" + nestedIndex + "_" + i + "__";
        }
        res.push(c);
      }
    }
  }
  return res
}

/*  */

function ensureCtor (comp, base) {
  if (
    comp.__esModule ||
    (hasSymbol && comp[Symbol.toStringTag] === 'Module')
  ) {
    comp = comp.default;
  }
  return isObject(comp)
    ? base.extend(comp)
    : comp
}

function createAsyncPlaceholder (
  factory,
  data,
  context,
  children,
```

```
  tag
) {
  var node = createEmptyVNode();
  node.asyncFactory = factory;
  node.asyncMeta = { data: data, context: context, children: children, tag: tag };
  return node
}

function resolveAsyncComponent (
  factory,
  baseCtor,
  context
) {
  if (isTrue(factory.error) && isDef(factory.errorComp)) {
    return factory.errorComp
  }

  if (isDef(factory.resolved)) {
    return factory.resolved
  }

  if (isTrue(factory.loading) && isDef(factory.loadingComp)) {
    return factory.loadingComp
  }

  if (isDef(factory.contexts)) {
    // already pending
    factory.contexts.push(context);
  } else {
    var contexts = factory.contexts = [context];
    var sync = true;

    var forceRender = function () {
      for (var i = 0, l = contexts.length; i < l; i++) {
        contexts[i].$forceUpdate();
      }
    };

    var resolve = once$1(function (res) {
      // cache resolved
      factory.resolved = ensureCtor(res, baseCtor);
      // invoke callbacks only if this is not a synchronous resolve
      // (async resolves are shimmed as synchronous during SSR)
      if (!sync) {
        forceRender();
      }
```

```
});

var reject = once$1(function (reason) {
  process.env.NODE_ENV !== 'production' && warn(
    "Failed to resolve async component: " + (String(factory)) +
    (reason ? ("\nReason: " + reason) : '')
  );
  if (isDef(factory.errorComp)) {
    factory.error = true;
    forceRender();
  }
});

var res = factory(resolve, reject);

if (isObject(res)) {
  if (typeof res.then === 'function') {
    // () => Promise
    if (isUndef(factory.resolved)) {
      res.then(resolve, reject);
    }
  } else if (isDef(res.component) && typeof res.component.then === 'function') {
    res.component.then(resolve, reject);

    if (isDef(res.error)) {
      factory.errorComp = ensureCtor(res.error, baseCtor);
    }

    if (isDef(res.loading)) {
      factory.loadingComp = ensureCtor(res.loading, baseCtor);
      if (res.delay === 0) {
        factory.loading = true;
      } else {
        setTimeout(function () {
          if (isUndef(factory.resolved) && isUndef(factory.error)) {
            factory.loading = true;
            forceRender();
          }
        }, res.delay || 200);
      }
    }

    if (isDef(res.timeout)) {
      setTimeout(function () {
        if (isUndef(factory.resolved)) {
          reject(
```

```
            process.env.NODE_ENV !== 'production'
              ? ("timeout (" + (res.timeout) + "ms)")
              : null
          );
        }
      }, res.timeout);
    }
  }
}

  sync = false;
  // return in case resolved synchronously
  return factory.loading
    ? factory.loadingComp
    : factory.resolved
 }
}

/*  */

function isAsyncPlaceholder (node) {
 return node.isComment && node.asyncFactory
}

/*  */

function getFirstComponentChild (children) {
 if (Array.isArray(children)) {
  for (var i = 0; i < children.length; i++) {
   var c = children[i];
   if (isDef(c) && (isDef(c.componentOptions) || isAsyncPlaceholder(c))) {
    return c
   }
  }
 }
}

/*  */

/*  */

function initEvents (vm) {
 vm._events = Object.create(null);
 vm._hasHookEvent = false;
 // init parent attached events
 var listeners = vm.$options._parentListeners;
```

```
  if (listeners) {
    updateComponentListeners(vm, listeners);
  }
}

var target;

function add (event, fn, once$$1) {
  if (once$$1) {
    target.$once(event, fn);
  } else {
    target.$on(event, fn);
  }
}

function remove$1 (event, fn) {
  target.$off(event, fn);
}

function updateComponentListeners (
  vm,
  listeners,
  oldListeners
) {
  target = vm;
  updateListeners(listeners, oldListeners || {}, add, remove$1, vm);
  target = undefined;
}

function eventsMixin (Vue) {
  var hookRE = /^hook:/;
  Vue.prototype.$on = function (event, fn) {
    var this$1 = this;

    var vm = this;
    if (Array.isArray(event)) {
      for (var i = 0, l = event.length; i < l; i++) {
        this$1.$on(event[i], fn);
      }
    } else {
      (vm._events[event] || (vm._events[event] = [])).push(fn);
      // optimize hook:event cost by using a boolean flag marked at registration
      // instead of a hash lookup
      if (hookRE.test(event)) {
        vm._hasHookEvent = true;
      }
```

```
  }
  return vm
};

Vue.prototype.$once = function (event, fn) {
  var vm = this;
  function on$$1 () {
    vm.$off(event, on$$1);
    fn.apply(vm, arguments);
  }
  on$$1.fn = fn;
  vm.$on(event, on$$1);
  return vm
};

Vue.prototype.$off = function (event, fn) {
  var this$1 = this;

  var vm = this;
  // all
  if (!arguments.length) {
    vm._events = Object.create(null);
    return vm
  }
  // array of events
  if (Array.isArray(event)) {
    for (var i = 0, l = event.length; i < l; i++) {
      this$1.$off(event[i], fn);
    }
    return vm
  }
  // specific event
  var cbs = vm._events[event];
  if (!cbs) {
    return vm
  }
  if (!fn) {
    vm._events[event] = null;
    return vm
  }
  if (fn) {
    // specific handler
    var cb;
    var i$1 = cbs.length;
    while (i$1--) {
      cb = cbs[i$1];
```

```
      if (cb === fn || cb.fn === fn) {
        cbs.splice(i$1, 1);
        break
      }
    }
  }
  return vm
};

Vue.prototype.$emit = function (event) {
  var vm = this;
  if (process.env.NODE_ENV !== 'production') {
    var lowerCaseEvent = event.toLowerCase();
    if (lowerCaseEvent !== event && vm._events[lowerCaseEvent]) {
      tip(
        "Event \"" + lowerCaseEvent + "\" is emitted in component " +
        (formatComponentName(vm)) + " but the handler is registered for \"" + event + "\". " +
        "Note that HTML attributes are case-insensitive and you cannot use " +
        "v-on to listen to camelCase events when using in-DOM templates. " +
        "You should probably use \"" + (hyphenate(event)) + "\" instead of \"" + event + "\"."
      );
    }
  }
  var cbs = vm._events[event];
  if (cbs) {
    cbs = cbs.length > 1 ? toArray(cbs) : cbs;
    var args = toArray(arguments, 1);
    for (var i = 0, l = cbs.length; i < l; i++) {
      try {
        cbs[i].apply(vm, args);
      } catch (e) {
        handleError(e, vm, ("event handler for \"" + event + "\""));
      }
    }
  }
  return vm
};
}

/*  */



/**
 * Runtime helper for resolving raw children VNodes into a slot object.
 */
```

```
function resolveSlots (
  children,
  context
) {
  var slots = {};
  if (!children) {
    return slots
  }
  for (var i = 0, l = children.length; i < l; i++) {
    var child = children[i];
    var data = child.data;
    // remove slot attribute if the node is resolved as a Vue slot node
    if (data && data.attrs && data.attrs.slot) {
      delete data.attrs.slot;
    }
    // named slots should only be respected if the vnode was rendered in the
    // same context.
    if ((child.context === context || child.fnContext === context) &&
      data && data.slot != null
    ) {
      var name = data.slot;
      var slot = (slots[name] || (slots[name] = []));
      if (child.tag === 'template') {
        slot.push.apply(slot, child.children || []);
      } else {
        slot.push(child);
      }
    } else {
      (slots.default || (slots.default = [])).push(child);
    }
  }
  // ignore slots that contains only whitespace
  for (var name$1 in slots) {
    if (slots[name$1].every(isWhitespace)) {
      delete slots[name$1];
    }
  }
  return slots
}

function isWhitespace (node) {
  return (node.isComment && !node.asyncFactory) || node.text === ' '
}

function resolveScopedSlots (
  fns, // see flow/vnode
```

```
  res
) {
  res = res || {};
  for (var i = 0; i < fns.length; i++) {
    if (Array.isArray(fns[i])) {
      resolveScopedSlots(fns[i], res);
    } else {
      res[fns[i].key] = fns[i].fn;
    }
  }
  return res
}

/*  */

var activeInstance = null;
var isUpdatingChildComponent = false;

function initLifecycle (vm) {
  var options = vm.$options;

  // locate first non-abstract parent
  var parent = options.parent;
  if (parent && !options.abstract) {
    while (parent.$options.abstract && parent.$parent) {
      parent = parent.$parent;
    }
    parent.$children.push(vm);
  }

  vm.$parent = parent;
  vm.$root = parent ? parent.$root : vm;

  vm.$children = [];
  vm.$refs = {};

  vm._watcher = null;
  vm._inactive = null;
  vm._directInactive = false;
  vm._isMounted = false;
  vm._isDestroyed = false;
  vm._isBeingDestroyed = false;
}

function lifecycleMixin (Vue) {
  Vue.prototype._update = function (vnode, hydrating) {
```

```
  var vm = this;
  if (vm._isMounted) {
    callHook(vm, 'beforeUpdate');
  }
  var prevEl = vm.$el;
  var prevVnode = vm._vnode;
  var prevActiveInstance = activeInstance;
  activeInstance = vm;
  vm._vnode = vnode;
  // Vue.prototype.__patch__ is injected in entry points
  // based on the rendering backend used.
  if (!prevVnode) {
    // initial render
    vm.$el = vm.__patch__(
      vm.$el, vnode, hydrating, false /* removeOnly */,
      vm.$options._parentElm,
      vm.$options._refElm
    );
    // no need for the ref nodes after initial patch
    // this prevents keeping a detached DOM tree in memory (#5851)
    vm.$options._parentElm = vm.$options._refElm = null;
  } else {
    // updates
    vm.$el = vm.__patch__(prevVnode, vnode);
  }
  activeInstance = prevActiveInstance;
  // update __vue__ reference
  if (prevEl) {
    prevEl.__vue__ = null;
  }
  if (vm.$el) {
    vm.$el.__vue__ = vm;
  }
  // if parent is an HOC, update its $el as well
  if (vm.$vnode && vm.$parent && vm.$vnode === vm.$parent._vnode) {
    vm.$parent.$el = vm.$el;
  }
  // updated hook is called by the scheduler to ensure that children are
  // updated in a parent's updated hook.
};

Vue.prototype.$forceUpdate = function () {
  var vm = this;
  if (vm._watcher) {
    vm._watcher.update();
  }
```

```
  };

  Vue.prototype.$destroy = function () {
    var vm = this;
    if (vm._isBeingDestroyed) {
      return
    }
    callHook(vm, 'beforeDestroy');
    vm._isBeingDestroyed = true;
    // remove self from parent
    var parent = vm.$parent;
    if (parent && !parent._isBeingDestroyed && !vm.$options.abstract) {
      remove(parent.$children, vm);
    }
    // teardown watchers
    if (vm._watcher) {
      vm._watcher.teardown();
    }
    var i = vm._watchers.length;
    while (i--) {
      vm._watchers[i].teardown();
    }
    // remove reference from data ob
    // frozen object may not have observer.
    if (vm._data.__ob__) {
      vm._data.__ob__.vmCount--;
    }
    // call the last hook...
    vm._isDestroyed = true;
    // invoke destroy hooks on current rendered tree
    vm.__patch__(vm._vnode, null);
    // fire destroyed hook
    callHook(vm, 'destroyed');
    // turn off all instance listeners.
    vm.$off();
    // remove __vue__ reference
    if (vm.$el) {
      vm.$el.__vue__ = null;
    }
    // release circular reference (#6759)
    if (vm.$vnode) {
      vm.$vnode.parent = null;
    }
  };
}
```

```
function mountComponent (
  vm,
  el,
  hydrating
) {
  vm.$el = el;
  if (!vm.$options.render) {
    vm.$options.render = createEmptyVNode;
    if (process.env.NODE_ENV !== 'production') {
      /* istanbul ignore if */
      if ((vm.$options.template && vm.$options.template.charAt(0) !== '#') ||
        vm.$options.el || el) {
        warn(
          'You are using the runtime-only build of Vue where the template ' +
          'compiler is not available. Either pre-compile the templates into ' +
          'render functions, or use the compiler-included build.',
          vm
        );
      } else {
        warn(
          'Failed to mount component: template or render function not defined.',
          vm
        );
      }
    }
  }
  callHook(vm, 'beforeMount');

  var updateComponent;
  /* istanbul ignore if */
  if (process.env.NODE_ENV !== 'production' && config$1.performance && mark) {
    updateComponent = function () {
      var name = vm._name;
      var id = vm._uid;
      var startTag = "vue-perf-start:" + id;
      var endTag = "vue-perf-end:" + id;

      mark(startTag);
      var vnode = vm._render();
      mark(endTag);
      measure(("vue " + name + " render"), startTag, endTag);

      mark(startTag);
      vm._update(vnode, hydrating);
      mark(endTag);
      measure(("vue " + name + " patch"), startTag, endTag);
```

```
    };
  } else {
    updateComponent = function () {
      vm._update(vm._render(), hydrating);
    };
  }

  // we set this to vm._watcher inside the watcher's constructor
  // since the watcher's initial patch may call $forceUpdate (e.g. inside child
  // component's mounted hook), which relies on vm._watcher being already defined
  new Watcher(vm, updateComponent, noop$1, null, true /* isRenderWatcher */);
  hydrating = false;

  // manually mounted instance, call mounted on self
  // mounted is called for render-created child components in its inserted hook
  if (vm.$vnode == null) {
    vm._isMounted = true;
    callHook(vm, 'mounted');
  }
  return vm
}

function updateChildComponent (
  vm,
  propsData,
  listeners,
  parentVnode,
  renderChildren
) {
  if (process.env.NODE_ENV !== 'production') {
    isUpdatingChildComponent = true;
  }

  // determine whether component has slot children
  // we need to do this before overwriting $options._renderChildren
  var hasChildren = !!(
    renderChildren ||               // has new static slots
    vm.$options._renderChildren ||  // has old static slots
    parentVnode.data.scopedSlots || // has new scoped slots
    vm.$scopedSlots !== emptyObject // has old scoped slots
  );

  vm.$options._parentVnode = parentVnode;
  vm.$vnode = parentVnode; // update vm's placeholder node without re-render

  if (vm._vnode) { // update child tree's parent
```

```
    vm._vnode.parent = parentVnode;
  }
  vm.$options._renderChildren = renderChildren;

  // update $attrs and $listeners hash
  // these are also reactive so they may trigger child update if the child
  // used them during render
  vm.$attrs = (parentVnode.data && parentVnode.data.attrs) || emptyObject;
  vm.$listeners = listeners || emptyObject;

  // update props
  if (propsData && vm.$options.props) {
    observerState.shouldConvert = false;
    var props = vm._props;
    var propKeys = vm.$options._propKeys || [];
    for (var i = 0; i < propKeys.length; i++) {
      var key = propKeys[i];
      props[key] = validateProp(key, vm.$options.props, propsData, vm);
    }
    observerState.shouldConvert = true;
    // keep a copy of raw propsData
    vm.$options.propsData = propsData;
  }

  // update listeners
  if (listeners) {
    var oldListeners = vm.$options._parentListeners;
    vm.$options._parentListeners = listeners;
    updateComponentListeners(vm, listeners, oldListeners);
  }
  // resolve slots + force update if has children
  if (hasChildren) {
    vm.$slots = resolveSlots(renderChildren, parentVnode.context);
    vm.$forceUpdate();
  }

  if (process.env.NODE_ENV !== 'production') {
    isUpdatingChildComponent = false;
  }
}

function isInInactiveTree (vm) {
  while (vm && (vm = vm.$parent)) {
    if (vm._inactive) { return true }
  }
  return false
```

```
}

function activateChildComponent (vm, direct) {
  if (direct) {
    vm._directInactive = false;
    if (isInInactiveTree(vm)) {
      return
    }
  } else if (vm._directInactive) {
    return
  }
  if (vm._inactive || vm._inactive === null) {
    vm._inactive = false;
    for (var i = 0; i < vm.$children.length; i++) {
      activateChildComponent(vm.$children[i]);
    }
    callHook(vm, 'activated');
  }
}

function deactivateChildComponent (vm, direct) {
  if (direct) {
    vm._directInactive = true;
    if (isInInactiveTree(vm)) {
      return
    }
  }
  if (!vm._inactive) {
    vm._inactive = true;
    for (var i = 0; i < vm.$children.length; i++) {
      deactivateChildComponent(vm.$children[i]);
    }
    callHook(vm, 'deactivated');
  }
}

function callHook (vm, hook) {
  var handlers = vm.$options[hook];
  if (handlers) {
    for (var i = 0, j = handlers.length; i < j; i++) {
      try {
        handlers[i].call(vm);
      } catch (e) {
        handleError(e, vm, (hook + " hook"));
      }
    }
```

```
  }
  if (vm._hasHookEvent) {
    vm.$emit('hook:' + hook);
  }
}

/*  */


var MAX_UPDATE_COUNT = 100;

var queue$1 = [];
var activatedChildren = [];
var has = {};
var circular = {};
var waiting = false;
var flushing = false;
var index = 0;

/**
 * Reset the scheduler's state.
 */
function resetSchedulerState () {
  index = queue$1.length = activatedChildren.length = 0;
  has = {};
  if (process.env.NODE_ENV !== 'production') {
    circular = {};
  }
  waiting = flushing = false;
}

/**
 * Flush both queues and run the watchers.
 */
function flushSchedulerQueue () {
  flushing = true;
  var watcher, id;

  // Sort queue before flush.
  // This ensures that:
  // 1. Components are updated from parent to child. (because parent is always
  //    created before the child)
  // 2. A component's user watchers are run before its render watcher (because
  //    user watchers are created before the render watcher)
  // 3. If a component is destroyed during a parent component's watcher run,
  //    its watchers can be skipped.
```

```
  queue$1.sort(function (a, b) { return a.id - b.id; });

  // do not cache length because more watchers might be pushed
  // as we run existing watchers
  for (index = 0; index < queue$1.length; index++) {
    watcher = queue$1[index];
    id = watcher.id;
    has[id] = null;
    watcher.run();
    // in dev build, check and stop circular updates.
    if (process.env.NODE_ENV !== 'production' && has[id] != null) {
      circular[id] = (circular[id] || 0) + 1;
      if (circular[id] > MAX_UPDATE_COUNT) {
        warn(
          'You may have an infinite update loop ' + (
            watcher.user
              ? ("in watcher with expression \"" + (watcher.expression) + "\"")
              : "in a component render function."
          ),
          watcher.vm
        );
        break
      }
    }
  }

  // keep copies of post queues before resetting state
  var activatedQueue = activatedChildren.slice();
  var updatedQueue = queue$1.slice();

  resetSchedulerState();

  // call component updated and activated hooks
  callActivatedHooks(activatedQueue);
  callUpdatedHooks(updatedQueue);

  // devtool hook
  /* istanbul ignore if */
  if (devtools && config$1.devtools) {
    devtools.emit('flush');
  }
}

function callUpdatedHooks (queue) {
  var i = queue.length;
  while (i--) {
```

```
    var watcher = queue[i];
    var vm = watcher.vm;
    if (vm._watcher === watcher && vm._isMounted) {
      callHook(vm, 'updated');
    }
  }
}

/**
 * Queue a kept-alive component that was activated during patch.
 * The queue will be processed after the entire tree has been patched.
 */
function queueActivatedComponent (vm) {
  // setting _inactive to false here so that a render function can
  // rely on checking whether it's in an inactive tree (e.g. router-view)
  vm._inactive = false;
  activatedChildren.push(vm);
}

function callActivatedHooks (queue) {
  for (var i = 0; i < queue.length; i++) {
    queue[i]._inactive = true;
    activateChildComponent(queue[i], true /* true */);
  }
}

/**
 * Push a watcher into the watcher queue.
 * Jobs with duplicate IDs will be skipped unless it's
 * pushed when the queue is being flushed.
 */
function queueWatcher (watcher) {
  var id = watcher.id;
  if (has[id] == null) {
    has[id] = true;
    if (!flushing) {
      queue$1.push(watcher);
    } else {
      // if already flushing, splice the watcher based on its id
      // if already past its id, it will be run next immediately.
      var i = queue$1.length - 1;
      while (i > index && queue$1[i].id > watcher.id) {
        i--;
      }
      queue$1.splice(i + 1, 0, watcher);
    }
```

```
    // queue the flush
    if (!waiting) {
      waiting = true;
      nextTick$1(flushSchedulerQueue);
    }
  }
}

/*  */

var uid$2 = 0;

/**
 * A watcher parses an expression, collects dependencies,
 * and fires callback when the expression value changes.
 * This is used for both the $watch() api and directives.
 */
var Watcher = function Watcher (
  vm,
  expOrFn,
  cb,
  options,
  isRenderWatcher
) {
  this.vm = vm;
  if (isRenderWatcher) {
    vm._watcher = this;
  }
  vm._watchers.push(this);
  // options
  if (options) {
    this.deep = !!options.deep;
    this.user = !!options.user;
    this.lazy = !!options.lazy;
    this.sync = !!options.sync;
  } else {
    this.deep = this.user = this.lazy = this.sync = false;
  }
  this.cb = cb;
  this.id = ++uid$2; // uid for batching
  this.active = true;
  this.dirty = this.lazy; // for lazy watchers
  this.deps = [];
  this.newDeps = [];
  this.depIds = new _Set();
  this.newDepIds = new _Set();
```

```
  this.expression = process.env.NODE_ENV !== 'production'
    ? expOrFn.toString()
    : '';
  // parse expression for getter
  if (typeof expOrFn === 'function') {
    this.getter = expOrFn;
  } else {
    this.getter = parsePath(expOrFn);
    if (!this.getter) {
      this.getter = function () {};
      process.env.NODE_ENV !== 'production' && warn(
        "Failed watching path: \"" + expOrFn + "\" " +
        'Watcher only accepts simple dot-delimited paths. ' +
        'For full control, use a function instead.',
        vm
      );
    }
  }
  this.value = this.lazy
    ? undefined
    : this.get();
};

/**
 * Evaluate the getter, and re-collect dependencies.
 */
Watcher.prototype.get = function get () {
  pushTarget(this);
  var value;
  var vm = this.vm;
  try {
    value = this.getter.call(vm, vm);
  } catch (e) {
    if (this.user) {
      handleError(e, vm, ("getter for watcher \"" + (this.expression) + "\""));
    } else {
      throw e
    }
  } finally {
    // "touch" every property so they are all tracked as
    // dependencies for deep watching
    if (this.deep) {
      traverse(value);
    }
    popTarget();
    this.cleanupDeps();
```

```
  }
  return value
};

/**
 * Add a dependency to this directive.
 */
Watcher.prototype.addDep = function addDep (dep) {
  var id = dep.id;
  if (!this.newDepIds.has(id)) {
    this.newDepIds.add(id);
    this.newDeps.push(dep);
    if (!this.depIds.has(id)) {
      dep.addSub(this);
    }
  }
};

/**
 * Clean up for dependency collection.
 */
Watcher.prototype.cleanupDeps = function cleanupDeps () {
    var this$1 = this;

  var i = this.deps.length;
  while (i--) {
    var dep = this$1.deps[i];
    if (!this$1.newDepIds.has(dep.id)) {
      dep.removeSub(this$1);
    }
  }
  var tmp = this.depIds;
  this.depIds = this.newDepIds;
  this.newDepIds = tmp;
  this.newDepIds.clear();
  tmp = this.deps;
  this.deps = this.newDeps;
  this.newDeps = tmp;
  this.newDeps.length = 0;
};

/**
 * Subscriber interface.
 * Will be called when a dependency changes.
 */
Watcher.prototype.update = function update () {
```

```
  /* istanbul ignore else */
  if (this.lazy) {
    this.dirty = true;
  } else if (this.sync) {
    this.run();
  } else {
    queueWatcher(this);
  }
};

/**
 * Scheduler job interface.
 * Will be called by the scheduler.
 */
Watcher.prototype.run = function run () {
  if (this.active) {
    var value = this.get();
    if (
      value !== this.value ||
      // Deep watchers and watchers on Object/Arrays should fire even
      // when the value is the same, because the value may
      // have mutated.
      isObject(value) ||
      this.deep
    ) {
      // set new value
      var oldValue = this.value;
      this.value = value;
      if (this.user) {
        try {
          this.cb.call(this.vm, value, oldValue);
        } catch (e) {
          handleError(e, this.vm, ("callback for watcher \"" + (this.expression) + "\""));
        }
      } else {
        this.cb.call(this.vm, value, oldValue);
      }
    }
  }
};

/**
 * Evaluate the value of the watcher.
 * This only gets called for lazy watchers.
 */
Watcher.prototype.evaluate = function evaluate () {
```

```
  this.value = this.get();
  this.dirty = false;
};

/**
 * Depend on all deps collected by this watcher.
 */
Watcher.prototype.depend = function depend () {
    var this$1 = this;

  var i = this.deps.length;
  while (i--) {
    this$1.deps[i].depend();
  }
};

/**
 * Remove self from all dependencies' subscriber list.
 */
Watcher.prototype.teardown = function teardown () {
    var this$1 = this;

  if (this.active) {
    // remove self from vm's watcher list
    // this is a somewhat expensive operation so we skip it
    // if the vm is being destroyed.
    if (!this.vm._isBeingDestroyed) {
      remove(this.vm._watchers, this);
    }
    var i = this.deps.length;
    while (i--) {
      this$1.deps[i].removeSub(this$1);
    }
    this.active = false;
  }
};

/*  */

var sharedPropertyDefinition = {
  enumerable: true,
  configurable: true,
  get: noop$1,
  set: noop$1
};
```

```
function proxy (target, sourceKey, key) {
  sharedPropertyDefinition.get = function proxyGetter () {
    return this[sourceKey][key]
  };
  sharedPropertyDefinition.set = function proxySetter (val) {
    this[sourceKey][key] = val;
  };
  Object.defineProperty(target, key, sharedPropertyDefinition);
}

function initState (vm) {
  vm._watchers = [];
  var opts = vm.$options;
  if (opts.props) { initProps(vm, opts.props); }
  if (opts.methods) { initMethods(vm, opts.methods); }
  if (opts.data) {
    initData(vm);
  } else {
    observe(vm._data = {}, true /* asRootData */);
  }
  if (opts.computed) { initComputed(vm, opts.computed); }
  if (opts.watch && opts.watch !== nativeWatch) {
    initWatch(vm, opts.watch);
  }
}

function initProps (vm, propsOptions) {
  var propsData = vm.$options.propsData || {};
  var props = vm._props = {};
  // cache prop keys so that future props updates can iterate using Array
  // instead of dynamic object key enumeration.
  var keys = vm.$options._propKeys = [];
  var isRoot = !vm.$parent;
  // root instance props should be converted
  observerState.shouldConvert = isRoot;
  var loop = function ( key ) {
    keys.push(key);
    var value = validateProp(key, propsOptions, propsData, vm);
    /* istanbul ignore else */
    if (process.env.NODE_ENV !== 'production') {
      var hyphenatedKey = hyphenate(key);
      if (isReservedAttribute(hyphenatedKey) ||
          config$1.isReservedAttr(hyphenatedKey)) {
        warn(
          ("\"" + hyphenatedKey + "\" is a reserved attribute and cannot be used as component
            prop."),
```

```
          vm
        );
      }
      defineReactive(props, key, value, function () {
        if (vm.$parent && !isUpdatingChildComponent) {
          warn(
            "Avoid mutating a prop directly since the value will be " +
            "overwritten whenever the parent component re-renders. " +
            "Instead, use a data or computed property based on the prop's " +
            "value. Prop being mutated: \"" + key + "\"",
            vm
          );
        }
      });
    } else {
      defineReactive(props, key, value);
    }
    // static props are already proxied on the component's prototype
    // during Vue.extend(). We only need to proxy props defined at
    // instantiation here.
    if (!(key in vm)) {
      proxy(vm, "_props", key);
    }
  };

  for (var key in propsOptions) { loop( key ); }
  observerState.shouldConvert = true;
}

function initData (vm) {
  var data = vm.$options.data;
  data = vm._data = typeof data === 'function'
    ? getData(data, vm)
    : data || {};
  if (!isPlainObject(data)) {
    data = {};
    process.env.NODE_ENV !== 'production' && warn(
      'data functions should return an object:\n' +
      'https://vuejs.org/v2/guide/components.html#data-Must-Be-a-Function',
      vm
    );
  }
  // proxy data on instance
  var keys = Object.keys(data);
  var props = vm.$options.props;
  var methods = vm.$options.methods;
```

```
  var i = keys.length;
  while (i--) {
    var key = keys[i];
    if (process.env.NODE_ENV !== 'production') {
      if (methods && hasOwn(methods, key)) {
        warn(
          ("Method \"" + key + "\" has already been defined as a data property."),
          vm
        );
      }
    }
    if (props && hasOwn(props, key)) {
      process.env.NODE_ENV !== 'production' && warn(
        "The data property \"" + key + "\" is already declared as a prop. " +
        "Use prop default value instead.",
        vm
      );
    } else if (!isReserved(key)) {
      proxy(vm, "_data", key);
    }
  }
  // observe data
  observe(data, true /* asRootData */);
}

function getData (data, vm) {
  try {
    return data.call(vm, vm)
  } catch (e) {
    handleError(e, vm, "data()");
    return {}
  }
}

var computedWatcherOptions = { lazy: true };

function initComputed (vm, computed) {
  // $flow-disable-line
  var watchers = vm._computedWatchers = Object.create(null);
  // computed properties are just getters during SSR
  var isSSR = isServerRendering();

  for (var key in computed) {
    var userDef = computed[key];
    var getter = typeof userDef === 'function' ? userDef : userDef.get;
    if (process.env.NODE_ENV !== 'production' && getter == null) {
```

```
      warn(
        ("Getter is missing for computed property \"" + key + "\"."),
        vm
      );
    }

    if (!isSSR) {
      // create internal watcher for the computed property.
      watchers[key] = new Watcher(
        vm,
        getter || noop$1,
        noop$1,
        computedWatcherOptions
      );
    }

    // component-defined computed properties are already defined on the
    // component prototype. We only need to define computed properties defined
    // at instantiation here.
    if (!(key in vm)) {
      defineComputed(vm, key, userDef);
    } else if (process.env.NODE_ENV !== 'production') {
      if (key in vm.$data) {
        warn(("The computed property \"" + key + "\" is already defined in data."), vm);
      } else if (vm.$options.props && key in vm.$options.props) {
        warn(("The computed property \"" + key + "\" is already defined as a prop."), vm);
      }
    }
  }
}

function defineComputed (
  target,
  key,
  userDef
) {
  var shouldCache = !isServerRendering();
  if (typeof userDef === 'function') {
    sharedPropertyDefinition.get = shouldCache
      ? createComputedGetter(key)
      : userDef;
    sharedPropertyDefinition.set = noop$1;
  } else {
    sharedPropertyDefinition.get = userDef.get
      ? shouldCache && userDef.cache !== false
        ? createComputedGetter(key)
```

```
      : userDef.get
    : noop$1;
  sharedPropertyDefinition.set = userDef.set
    ? userDef.set
    : noop$1;
 }
 if (process.env.NODE_ENV !== 'production' &&
    sharedPropertyDefinition.set === noop$1) {
  sharedPropertyDefinition.set = function () {
    warn(
      ("Computed property \"" + key + "\" was assigned to but it has no setter."),
      this
    );
  };
 }
 Object.defineProperty(target, key, sharedPropertyDefinition);
}

function createComputedGetter (key) {
 return function computedGetter () {
  var watcher = this._computedWatchers && this._computedWatchers[key];
  if (watcher) {
    if (watcher.dirty) {
      watcher.evaluate();
    }
    if (Dep.target) {
      watcher.depend();
    }
    return watcher.value
  }
 }
}

function initMethods (vm, methods) {
 var props = vm.$options.props;
 for (var key in methods) {
  if (process.env.NODE_ENV !== 'production') {
    if (methods[key] == null) {
      warn(
        "Method \"" + key + "\" has an undefined value in the component definition. " +
        "Did you reference the function correctly?",
        vm
      );
    }
    if (props && hasOwn(props, key)) {
      warn(
```

```
        ("Method \"" + key + "\" has already been defined as a prop."),
        vm
      );
    }
    if ((key in vm) && isReserved(key)) {
      warn(
        "Method \"" + key + "\" conflicts with an existing Vue instance method. " +
        "Avoid defining component methods that start with _ or $."
      );
    }
  }
  vm[key] = methods[key] == null ? noop$1 : bind(methods[key], vm);
 }
}

function initWatch (vm, watch) {
 for (var key in watch) {
  var handler = watch[key];
  if (Array.isArray(handler)) {
   for (var i = 0; i < handler.length; i++) {
    createWatcher(vm, key, handler[i]);
   }
  } else {
   createWatcher(vm, key, handler);
  }
 }
}

function createWatcher (
 vm,
 keyOrFn,
 handler,
 options
) {
 if (isPlainObject(handler)) {
  options = handler;
  handler = handler.handler;
 }
 if (typeof handler === 'string') {
  handler = vm[handler];
 }
 return vm.$watch(keyOrFn, handler, options)
}

function stateMixin (Vue) {
 // flow somehow has problems with directly declared definition object
```

```
  // when using Object.defineProperty, so we have to procedurally build up
  // the object here.
  var dataDef = {};
  dataDef.get = function () { return this._data };
  var propsDef = {};
  propsDef.get = function () { return this._props };
  if (process.env.NODE_ENV !== 'production') {
    dataDef.set = function (newData) {
      warn(
        'Avoid replacing instance root $data. ' +
        'Use nested data properties instead.',
        this
      );
    };
    propsDef.set = function () {
      warn("$props is readonly.", this);
    };
  }
  Object.defineProperty(Vue.prototype, '$data', dataDef);
  Object.defineProperty(Vue.prototype, '$props', propsDef);

  Vue.prototype.$set = set;
  Vue.prototype.$delete = del;

  Vue.prototype.$watch = function (
    expOrFn,
    cb,
    options
  ) {
    var vm = this;
    if (isPlainObject(cb)) {
      return createWatcher(vm, expOrFn, cb, options)
    }
    options = options || {};
    options.user = true;
    var watcher = new Watcher(vm, expOrFn, cb, options);
    if (options.immediate) {
      cb.call(vm, watcher.value);
    }
    return function unwatchFn () {
      watcher.teardown();
    }
  };
}

/*  */
```

```
function initProvide (vm) {
  var provide = vm.$options.provide;
  if (provide) {
    vm._provided = typeof provide === 'function'
      ? provide.call(vm)
      : provide;
  }
}

function initInjections (vm) {
  var result = resolveInject(vm.$options.inject, vm);
  if (result) {
    observerState.shouldConvert = false;
    Object.keys(result).forEach(function (key) {
      /* istanbul ignore else */
      if (process.env.NODE_ENV !== 'production') {
        defineReactive(vm, key, result[key], function () {
          warn(
            "Avoid mutating an injected value directly since the changes will be " +
            "overwritten whenever the provided component re-renders. " +
            "injection being mutated: \"" + key + "\"",
            vm
          );
        });
      } else {
        defineReactive(vm, key, result[key]);
      }
    });
    observerState.shouldConvert = true;
  }
}

function resolveInject (inject, vm) {
  if (inject) {
    // inject is :any because flow is not smart enough to figure out cached
    var result = Object.create(null);
    var keys = hasSymbol
      ? Reflect.ownKeys(inject).filter(function (key) {
        /* istanbul ignore next */
        return Object.getOwnPropertyDescriptor(inject, key).enumerable
      })
      : Object.keys(inject);

    for (var i = 0; i < keys.length; i++) {
      var key = keys[i];
```

```
      var provideKey = inject[key].from;
      var source = vm;
      while (source) {
        if (source._provided && provideKey in source._provided) {
          result[key] = source._provided[provideKey];
          break
        }
        source = source.$parent;
      }
      if (!source) {
        if ('default' in inject[key]) {
          var provideDefault = inject[key].default;
          result[key] = typeof provideDefault === 'function'
            ? provideDefault.call(vm)
            : provideDefault;
        } else if (process.env.NODE_ENV !== 'production') {
          warn(("Injection \"" + key + "\" not found"), vm);
        }
      }
    }
    return result
  }
}

/*  */

/**
 * Runtime helper for rendering v-for lists.
 */
function renderList (
  val,
  render
) {
  var ret, i, l, keys, key;
  if (Array.isArray(val) || typeof val === 'string') {
    ret = new Array(val.length);
    for (i = 0, l = val.length; i < l; i++) {
      ret[i] = render(val[i], i);
    }
  } else if (typeof val === 'number') {
    ret = new Array(val);
    for (i = 0; i < val; i++) {
      ret[i] = render(i + 1, i);
    }
  } else if (isObject(val)) {
    keys = Object.keys(val);
```

```
    ret = new Array(keys.length);
    for (i = 0, l = keys.length; i < l; i++) {
      key = keys[i];
      ret[i] = render(val[key], key, i);
    }
  }
  if (isDef(ret)) {
    (ret)._isVList = true;
  }
  return ret
}

/*  */

/**
 * Runtime helper for rendering <slot>
 */
function renderSlot (
  name,
  fallback,
  props,
  bindObject
) {
  var scopedSlotFn = this.$scopedSlots[name];
  var nodes;
  if (scopedSlotFn) { // scoped slot
    props = props || {};
    if (bindObject) {
      if (process.env.NODE_ENV !== 'production' && !isObject(bindObject)) {
        warn(
          'slot v-bind without argument expects an Object',
          this
        );
      }
      props = extend(extend({}, bindObject), props);
    }
    nodes = scopedSlotFn(props) || fallback;
  } else {
    var slotNodes = this.$slots[name];
    // warn duplicate slot usage
    if (slotNodes) {
      if (process.env.NODE_ENV !== 'production' && slotNodes._rendered) {
        warn(
          "Duplicate presence of slot \"" + name + "\" found in the same render tree " +
          "- this will likely cause render errors.",
          this
```

```
        );
      }
      slotNodes._rendered = true;
    }
    nodes = slotNodes || fallback;
  }

  var target = props && props.slot;
  if (target) {
    return this.$createElement('template', { slot: target }, nodes)
  } else {
    return nodes
  }
}

/*  */

/**
 * Runtime helper for resolving filters
 */
function resolveFilter (id) {
  return resolveAsset(this.$options, 'filters', id, true) || identity
}

/*  */

/**
 * Runtime helper for checking keyCodes from config.
 * exposed as Vue.prototype._k
 * passing in eventKeyName as last argument separately for backwards compat
 */
function checkKeyCodes (
  eventKeyCode,
  key,
  builtInAlias,
  eventKeyName
) {
  var keyCodes = config$1.keyCodes[key] || builtInAlias;
  if (keyCodes) {
    if (Array.isArray(keyCodes)) {
      return keyCodes.indexOf(eventKeyCode) === -1
    } else {
      return keyCodes !== eventKeyCode
    }
  } else if (eventKeyName) {
    return hyphenate(eventKeyName) !== key
```

```
  }
}

/*  */

/**
 * Runtime helper for merging v-bind="object" into a VNode's data.
 */
function bindObjectProps (
  data,
  tag,
  value,
  asProp,
  isSync
) {
  if (value) {
    if (!isObject(value)) {
      process.env.NODE_ENV !== 'production' && warn(
        'v-bind without argument expects an Object or Array value',
        this
      );
    } else {
      if (Array.isArray(value)) {
        value = toObject(value);
      }
      var hash;
      var loop = function ( key ) {
        if (
          key === 'class' ||
          key === 'style' ||
          isReservedAttribute(key)
        ) {
          hash = data;
        } else {
          var type = data.attrs && data.attrs.type;
          hash = asProp || config$1.mustUseProp(tag, type, key)
            ? data.domProps || (data.domProps = {})
            : data.attrs || (data.attrs = {});
        }
        if (!(key in hash)) {
          hash[key] = value[key];

          if (isSync) {
            var on$$1 = data.on || (data.on = {});
            on$$1[("update:" + key)] = function ($event) {
              value[key] = $event;
```

```
          };
        }
      }
    };

    for (var key in value) { loop( key ); }
  }
 }
 return data
}

/*  */

/**
 * Runtime helper for rendering static trees.
 */
function renderStatic (
 index,
 isInFor
) {
 var cached = this._staticTrees || (this._staticTrees = []);
 var tree = cached[index];
 // if has already-rendered static tree and not inside v-for,
 // we can reuse the same tree by doing a shallow clone.
 if (tree && !isInFor) {
  return Array.isArray(tree)
    ? cloneVNodes(tree)
    : cloneVNode(tree)
 }
 // otherwise, render a fresh tree.
 tree = cached[index] = this.$options.staticRenderFns[index].call(
  this._renderProxy,
  null,
  this // for render fns generated for functional component templates
 );
 markStatic(tree, ("__static__" + index), false);
 return tree
}

/**
 * Runtime helper for v-once.
 * Effectively it means marking the node as static with a unique key.
 */
function markOnce (
 tree,
 index,
```

```
  key
) {
  markStatic(tree, ("__once__" + index + (key ? ("_" + key) : "")), true);
  return tree
}

function markStatic (
  tree,
  key,
  isOnce
) {
  if (Array.isArray(tree)) {
    for (var i = 0; i < tree.length; i++) {
      if (tree[i] && typeof tree[i] !== 'string') {
        markStaticNode(tree[i], (key + "_" + i), isOnce);
      }
    }
  } else {
    markStaticNode(tree, key, isOnce);
  }
}

function markStaticNode (node, key, isOnce) {
  node.isStatic = true;
  node.key = key;
  node.isOnce = isOnce;
}

/*  */

function bindObjectListeners (data, value) {
  if (value) {
    if (!isPlainObject(value)) {
      process.env.NODE_ENV !== 'production' && warn(
        'v-on without argument expects an Object value',
        this
      );
    } else {
      var on$$1 = data.on = data.on ? extend({}, data.on) : {};
      for (var key in value) {
        var existing = on$$1[key];
        var ours = value[key];
        on$$1[key] = existing ? [].concat(existing, ours) : ours;
      }
    }
  }
```

```
  return data
}

/*  */

function installRenderHelpers (target) {
  target._o = markOnce;
  target._n = toNumber;
  target._s = toString$1;
  target._l = renderList;
  target._t = renderSlot;
  target._q = looseEqual;
  target._i = looseIndexOf;
  target._m = renderStatic;
  target._f = resolveFilter;
  target._k = checkKeyCodes;
  target._b = bindObjectProps;
  target._v = createTextVNode;
  target._e = createEmptyVNode;
  target._u = resolveScopedSlots;
  target._g = bindObjectListeners;
}

/*  */

function FunctionalRenderContext (
  data,
  props,
  children,
  parent,
  Ctor
) {
  var options = Ctor.options;
  this.data = data;
  this.props = props;
  this.children = children;
  this.parent = parent;
  this.listeners = data.on || emptyObject;
  this.injections = resolveInject(options.inject, parent);
  this.slots = function () { return resolveSlots(children, parent); };

  // ensure the createElement function in functional components
  // gets a unique context - this is necessary for correct named slot check
  var contextVm = Object.create(parent);
  var isCompiled = isTrue(options._compiled);
  var needNormalization = !isCompiled;
```

```
  // support for compiled functional template
  if (isCompiled) {
    // exposing $options for renderStatic()
    this.$options = options;
    // pre-resolve slots for renderSlot()
    this.$slots = this.slots();
    this.$scopedSlots = data.scopedSlots || emptyObject;
  }

  if (options._scopeId) {
    this._c = function (a, b, c, d) {
      var vnode = createElement(contextVm, a, b, c, d, needNormalization);
      if (vnode) {
        vnode.fnScopeId = options._scopeId;
        vnode.fnContext = parent;
      }
      return vnode
    };
  } else {
    this._c = function (a, b, c, d) { return createElement(contextVm, a, b, c, d,
          needNormalization); };
  }
}

installRenderHelpers(FunctionalRenderContext.prototype);

function createFunctionalComponent (
  Ctor,
  propsData,
  data,
  contextVm,
  children
) {
  var options = Ctor.options;
  var props = {};
  var propOptions = options.props;
  if (isDef(propOptions)) {
    for (var key in propOptions) {
      props[key] = validateProp(key, propOptions, propsData || emptyObject);
    }
  } else {
    if (isDef(data.attrs)) { mergeProps(props, data.attrs); }
    if (isDef(data.props)) { mergeProps(props, data.props); }
  }
```

```
  var renderContext = new FunctionalRenderContext(
    data,
    props,
    children,
    contextVm,
    Ctor
  );

  var vnode = options.render.call(null, renderContext._c, renderContext);

  if (vnode instanceof VNode) {
    vnode.fnContext = contextVm;
    vnode.fnOptions = options;
    if (data.slot) {
      (vnode.data || (vnode.data = {})).slot = data.slot;
    }
  }

  return vnode
}

function mergeProps (to, from) {
  for (var key in from) {
    to[camelize(key)] = from[key];
  }
}

/*  */




// Register the component hook to weex native render engine.
// The hook will be triggered by native, not javascript.


// Updates the state of the component to weex native render engine.

/*  */

// https://github.com/Hanks10100/weex-native-directive/tree/master/component

// listening on native callback

/*  */
```

```
/*  */

// hooks to be invoked on component VNodes during patch
var componentVNodeHooks = {
  init: function init (
    vnode,
    hydrating,
    parentElm,
    refElm
  ) {
    if (!vnode.componentInstance || vnode.componentInstance._isDestroyed) {
      var child = vnode.componentInstance = createComponentInstanceForVnode(
        vnode,
        activeInstance,
        parentElm,
        refElm
      );
      child.$mount(hydrating ? vnode.elm : undefined, hydrating);
    } else if (vnode.data.keepAlive) {
      // kept-alive components, treat as a patch
      var mountedNode = vnode; // work around flow
      componentVNodeHooks.prepatch(mountedNode, mountedNode);
    }
  },

  prepatch: function prepatch (oldVnode, vnode) {
    var options = vnode.componentOptions;
    var child = vnode.componentInstance = oldVnode.componentInstance;
    updateChildComponent(
      child,
      options.propsData, // updated props
      options.listeners, // updated listeners
      vnode, // new parent vnode
      options.children // new children
    );
  },

  insert: function insert (vnode) {
    var context = vnode.context;
    var componentInstance = vnode.componentInstance;
    if (!componentInstance._isMounted) {
      componentInstance._isMounted = true;
      callHook(componentInstance, 'mounted');
    }
    if (vnode.data.keepAlive) {
      if (context._isMounted) {
```

```
      // vue-router#1212
      // During updates, a kept-alive component's child components may
      // change, so directly walking the tree here may call activated hooks
      // on incorrect children. Instead we push them into a queue which will
      // be processed after the whole patch process ended.
      queueActivatedComponent(componentInstance);
    } else {
      activateChildComponent(componentInstance, true /* direct */);
    }
  }
 },

 destroy: function destroy (vnode) {
  var componentInstance = vnode.componentInstance;
  if (!componentInstance._isDestroyed) {
   if (!vnode.data.keepAlive) {
    componentInstance.$destroy();
   } else {
    deactivateChildComponent(componentInstance, true /* direct */);
   }
  }
 }
};

var hooksToMerge = Object.keys(componentVNodeHooks);

function createComponent (
 Ctor,
 data,
 context,
 children,
 tag
) {
 if (isUndef(Ctor)) {
  return
 }

 var baseCtor = context.$options._base;

 // plain options object: turn it into a constructor
 if (isObject(Ctor)) {
  Ctor = baseCtor.extend(Ctor);
 }

 // if at this stage it's not a constructor or an async component factory,
 // reject.
```

```
if (typeof Ctor !== 'function') {
  if (process.env.NODE_ENV !== 'production') {
    warn(("Invalid Component definition: " + (String(Ctor))), context);
  }
  return
}

// async component
var asyncFactory;
if (isUndef(Ctor.cid)) {
  asyncFactory = Ctor;
  Ctor = resolveAsyncComponent(asyncFactory, baseCtor, context);
  if (Ctor === undefined) {
    // return a placeholder node for async component, which is rendered
    // as a comment node but preserves all the raw information for the node.
    // the information will be used for async server-rendering and hydration.
    return createAsyncPlaceholder(
      asyncFactory,
      data,
      context,
      children,
      tag
    )
  }
}

data = data || {};

// resolve constructor options in case global mixins are applied after
// component constructor creation
resolveConstructorOptions(Ctor);

// transform component v-model data into props & events
if (isDef(data.model)) {
  transformModel(Ctor.options, data);
}

// extract props
var propsData = extractPropsFromVNodeData(data, Ctor, tag);

// functional component
if (isTrue(Ctor.options.functional)) {
  return createFunctionalComponent(Ctor, propsData, data, context, children)
}

// extract listeners, since these needs to be treated as
```

```
  // child component listeners instead of DOM listeners
  var listeners = data.on;
  // replace with listeners with .native modifier
  // so it gets processed during parent component patch.
  data.on = data.nativeOn;

  if (isTrue(Ctor.options.abstract)) {
    // abstract components do not keep anything
    // other than props & listeners & slot

    // work around flow
    var slot = data.slot;
    data = {};
    if (slot) {
      data.slot = slot;
    }
  }

  // merge component management hooks onto the placeholder node
  mergeHooks(data);

  // return a placeholder vnode
  var name = Ctor.options.name || tag;
  var vnode = new VNode(
    ("vue-component-" + (Ctor.cid) + (name ? ("-" + name) : ")),
    data, undefined, undefined, undefined, context,
    { Ctor: Ctor, propsData: propsData, listeners: listeners, tag: tag, children: children },
    asyncFactory
  );

  // Weex specific: invoke recycle-list optimized @render function for
  // extracting cell-slot template.
  // https://github.com/Hanks10100/weex-native-directive/tree/master/component
  /* istanbul ignore if */
  return vnode
}

function createComponentInstanceForVnode (
  vnode, // we know it's MountedComponentVNode but flow doesn't
  parent, // activeInstance in lifecycle state
  parentElm,
  refElm
) {
  var options = {
    _isComponent: true,
    parent: parent,
```

```
    _parentVnode: vnode,
    _parentElm: parentElm || null,
    _refElm: refElm || null
  };
  // check inline-template render functions
  var inlineTemplate = vnode.data.inlineTemplate;
  if (isDef(inlineTemplate)) {
    options.render = inlineTemplate.render;
    options.staticRenderFns = inlineTemplate.staticRenderFns;
  }
  return new vnode.componentOptions.Ctor(options)
}

function mergeHooks (data) {
  if (!data.hook) {
    data.hook = {};
  }
  for (var i = 0; i < hooksToMerge.length; i++) {
    var key = hooksToMerge[i];
    var fromParent = data.hook[key];
    var ours = componentVNodeHooks[key];
    data.hook[key] = fromParent ? mergeHook$1(ours, fromParent) : ours;
  }
}

function mergeHook$1 (one, two) {
  return function (a, b, c, d) {
    one(a, b, c, d);
    two(a, b, c, d);
  }
}

// transform component v-model info (value and callback) into
// prop and event handler respectively.
function transformModel (options, data) {
  var prop = (options.model && options.model.prop) || 'value';
  var event = (options.model && options.model.event) || 'input';(data.props || (data.props =
          {}))[prop] = data.model.value;
  var on$$1 = data.on || (data.on = {});
  if (isDef(on$$1[event])) {
    on$$1[event] = [data.model.callback].concat(on$$1[event]);
  } else {
    on$$1[event] = data.model.callback;
  }
}
```

```
/*  */

var SIMPLE_NORMALIZE = 1;
var ALWAYS_NORMALIZE = 2;

// wrapper function for providing a more flexible interface
// without getting yelled at by flow
function createElement (
  context,
  tag,
  data,
  children,
  normalizationType,
  alwaysNormalize
) {
  if (Array.isArray(data) || isPrimitive(data)) {
    normalizationType = children;
    children = data;
    data = undefined;
  }
  if (isTrue(alwaysNormalize)) {
    normalizationType = ALWAYS_NORMALIZE;
  }
  return _createElement(context, tag, data, children, normalizationType)
}

function _createElement (
  context,
  tag,
  data,
  children,
  normalizationType
) {
  if (isDef(data) && isDef((data).__ob__)) {
    process.env.NODE_ENV !== 'production' && warn(
      "Avoid using observed data object as vnode data: " + (JSON.stringify(data)) + "\n" +
      'Always create fresh vnode data objects in each render!',
      context
    );
    return createEmptyVNode()
  }
  // object syntax in v-bind
  if (isDef(data) && isDef(data.is)) {
    tag = data.is;
  }
  if (!tag) {
```

```
  // in case of component :is set to falsy value
  return createEmptyVNode()
}
// warn against non-primitive key
if (process.env.NODE_ENV !== 'production' &&
  isDef(data) && isDef(data.key) && !isPrimitive(data.key)
) {
  {
    warn(
      'Avoid using non-primitive value as key, ' +
      'use string/number value instead.',
      context
    );
  }
}
// support single function children as default scoped slot
if (Array.isArray(children) &&
  typeof children[0] === 'function'
) {
  data = data || {};
  data.scopedSlots = { default: children[0] };
  children.length = 0;
}
if (normalizationType === ALWAYS_NORMALIZE) {
  children = normalizeChildren(children);
} else if (normalizationType === SIMPLE_NORMALIZE) {
  children = simpleNormalizeChildren(children);
}
var vnode, ns;
if (typeof tag === 'string') {
  var Ctor;
  ns = (context.$vnode && context.$vnode.ns) || config$1.getTagNamespace(tag);
  if (config$1.isReservedTag(tag)) {
    // platform built-in elements
    vnode = new VNode(
      config$1.parsePlatformTagName(tag), data, children,
      undefined, undefined, context
    );
  } else if (isDef(Ctor = resolveAsset(context.$options, 'components', tag))) {
    // component
    vnode = createComponent(Ctor, data, context, children, tag);
  } else {
    // unknown or unlisted namespaced elements
    // check at runtime because it may get assigned a namespace when its
    // parent normalizes children
    vnode = new VNode(
```

```
        tag, data, children,
        undefined, undefined, context
      );
    }
  } else {
    // direct component options / constructor
    vnode = createComponent(tag, data, context, children);
  }
  if (isDef(vnode)) {
    if (ns) { applyNS(vnode, ns); }
    return vnode
  } else {
    return createEmptyVNode()
  }
}

function applyNS (vnode, ns, force) {
  vnode.ns = ns;
  if (vnode.tag === 'foreignObject') {
    // use default namespace inside foreignObject
    ns = undefined;
    force = true;
  }
  if (isDef(vnode.children)) {
    for (var i = 0, l = vnode.children.length; i < l; i++) {
      var child = vnode.children[i];
      if (isDef(child.tag) && (isUndef(child.ns) || isTrue(force))) {
        applyNS(child, ns, force);
      }
    }
  }
}

/*  */

function initRender (vm) {
  vm._vnode = null; // the root of the child tree
  vm._staticTrees = null; // v-once cached trees
  var options = vm.$options;
  var parentVnode = vm.$vnode = options._parentVnode; // the placeholder node in parent tree
  var renderContext = parentVnode && parentVnode.context;
  vm.$slots = resolveSlots(options._renderChildren, renderContext);
  vm.$scopedSlots = emptyObject;
  // bind the createElement fn to this instance
  // so that we get proper render context inside it.
  // args order: tag, data, children, normalizationType, alwaysNormalize
```

```
  // internal version is used by render functions compiled from templates
  vm._c = function (a, b, c, d) { return createElement(vm, a, b, c, d, false); };
  // normalization is always applied for the public version, used in
  // user-written render functions.
  vm.$createElement = function (a, b, c, d) { return createElement(vm, a, b, c, d, true); };

  // $attrs & $listeners are exposed for easier HOC creation.
  // they need to be reactive so that HOCs using them are always updated
  var parentData = parentVnode && parentVnode.data;

  /* istanbul ignore else */
  if (process.env.NODE_ENV !== 'production') {
    defineReactive(vm, '$attrs', parentData && parentData.attrs || emptyObject, function () {
      !isUpdatingChildComponent && warn("$attrs is readonly.", vm);
    }, true);
    defineReactive(vm, '$listeners', options._parentListeners || emptyObject, function () {
      !isUpdatingChildComponent && warn("$listeners is readonly.", vm);
    }, true);
  } else {
    defineReactive(vm, '$attrs', parentData && parentData.attrs || emptyObject, null, true);
    defineReactive(vm, '$listeners', options._parentListeners || emptyObject, null, true);
  }
}

function renderMixin (Vue) {
  // install runtime convenience helpers
  installRenderHelpers(Vue.prototype);

  Vue.prototype.$nextTick = function (fn) {
    return nextTick$1(fn, this)
  };

  Vue.prototype._render = function () {
    var vm = this;
    var ref = vm.$options;
    var render = ref.render;
    var _parentVnode = ref._parentVnode;

    if (vm._isMounted) {
      // if the parent didn't update, the slot nodes will be the ones from
      // last render. They need to be cloned to ensure "freshness" for this render.
      for (var key in vm.$slots) {
        var slot = vm.$slots[key];
        // _rendered is a flag added by renderSlot, but may not be present
        // if the slot is passed from manually written render functions
        if (slot._rendered || (slot[0] && slot[0].elm)) {
```

```
      vm.$slots[key] = cloneVNodes(slot, true /* deep */);
    }
  }
}

vm.$scopedSlots = (_parentVnode && _parentVnode.data.scopedSlots) || emptyObject;

// set parent vnode. this allows render functions to have access
// to the data on the placeholder node.
vm.$vnode = _parentVnode;
// render self
var vnode;
try {
  vnode = render.call(vm._renderProxy, vm.$createElement);
} catch (e) {
  handleError(e, vm, "render");
  // return error render result,
  // or previous vnode to prevent render error causing blank component
  /* istanbul ignore else */
  if (process.env.NODE_ENV !== 'production') {
    if (vm.$options.renderError) {
      try {
        vnode = vm.$options.renderError.call(vm._renderProxy, vm.$createElement, e);
      } catch (e) {
        handleError(e, vm, "renderError");
        vnode = vm._vnode;
      }
    } else {
      vnode = vm._vnode;
    }
  } else {
    vnode = vm._vnode;
  }
}
// return empty vnode in case the render function errored out
if (!(vnode instanceof VNode)) {
  if (process.env.NODE_ENV !== 'production' && Array.isArray(vnode)) {
    warn(
      'Multiple root nodes returned from render function. Render function ' +
      'should return a single root node.',
      vm
    );
  }
  vnode = createEmptyVNode();
}
// set parent
```

```
    vnode.parent = _parentVnode;
    return vnode
  };
}

/*  */

var uid = 0;

function initMixin (Vue) {
  Vue.prototype._init = function (options) {
    var vm = this;
    // a uid
    vm._uid = uid++;

    var startTag, endTag;
    /* istanbul ignore if */
    if (process.env.NODE_ENV !== 'production' && config$1.performance && mark) {
      startTag = "vue-perf-start:" + (vm._uid);
      endTag = "vue-perf-end:" + (vm._uid);
      mark(startTag);
    }

    // a flag to avoid this being observed
    vm._isVue = true;
    // merge options
    if (options && options._isComponent) {
      // optimize internal component instantiation
      // since dynamic options merging is pretty slow, and none of the
      // internal component options needs special treatment.
      initInternalComponent(vm, options);
    } else {
      vm.$options = mergeOptions(
        resolveConstructorOptions(vm.constructor),
        options || {},
        vm
      );
    }
    /* istanbul ignore else */
    if (process.env.NODE_ENV !== 'production') {
      initProxy(vm);
    } else {
      vm._renderProxy = vm;
    }
    // expose real self
    vm._self = vm;
```

```
    initLifecycle(vm);
    initEvents(vm);
    initRender(vm);
    callHook(vm, 'beforeCreate');
    initInjections(vm); // resolve injections before data/props
    initState(vm);
    initProvide(vm); // resolve provide after data/props
    callHook(vm, 'created');

    /* istanbul ignore if */
    if (process.env.NODE_ENV !== 'production' && config$1.performance && mark) {
      vm._name = formatComponentName(vm, false);
      mark(endTag);
      measure(("vue " + (vm._name) + " init"), startTag, endTag);
    }

    if (vm.$options.el) {
      vm.$mount(vm.$options.el);
    }
  };
}

function initInternalComponent (vm, options) {
  var opts = vm.$options = Object.create(vm.constructor.options);
  // doing this because it's faster than dynamic enumeration.
  var parentVnode = options._parentVnode;
  opts.parent = options.parent;
  opts._parentVnode = parentVnode;
  opts._parentElm = options._parentElm;
  opts._refElm = options._refElm;

  var vnodeComponentOptions = parentVnode.componentOptions;
  opts.propsData = vnodeComponentOptions.propsData;
  opts._parentListeners = vnodeComponentOptions.listeners;
  opts._renderChildren = vnodeComponentOptions.children;
  opts._componentTag = vnodeComponentOptions.tag;

  if (options.render) {
    opts.render = options.render;
    opts.staticRenderFns = options.staticRenderFns;
  }
}

function resolveConstructorOptions (Ctor) {
  var options = Ctor.options;
  if (Ctor.super) {
```

```
    var superOptions = resolveConstructorOptions(Ctor.super);
    var cachedSuperOptions = Ctor.superOptions;
    if (superOptions !== cachedSuperOptions) {
      // super option changed,
      // need to resolve new options.
      Ctor.superOptions = superOptions;
      // check if there are any late-modified/attached options (#4976)
      var modifiedOptions = resolveModifiedOptions(Ctor);
      // update base extend options
      if (modifiedOptions) {
        extend(Ctor.extendOptions, modifiedOptions);
      }
      options = Ctor.options = mergeOptions(superOptions, Ctor.extendOptions);
      if (options.name) {
        options.components[options.name] = Ctor;
      }
    }
  }
  return options
}

function resolveModifiedOptions (Ctor) {
  var modified;
  var latest = Ctor.options;
  var extended = Ctor.extendOptions;
  var sealed = Ctor.sealedOptions;
  for (var key in latest) {
    if (latest[key] !== sealed[key]) {
      if (!modified) { modified = {}; }
      modified[key] = dedupe(latest[key], extended[key], sealed[key]);
    }
  }
  return modified
}

function dedupe (latest, extended, sealed) {
  // compare latest and sealed to ensure lifecycle hooks won't be duplicated
  // between merges
  if (Array.isArray(latest)) {
    var res = [];
    sealed = Array.isArray(sealed) ? sealed : [sealed];
    extended = Array.isArray(extended) ? extended : [extended];
    for (var i = 0; i < latest.length; i++) {
      // push original options and not sealed options to exclude duplicated options
      if (extended.indexOf(latest[i]) >= 0 || sealed.indexOf(latest[i]) < 0) {
        res.push(latest[i]);
```

```
      }
    }
    return res
  } else {
    return latest
  }
}

function Vue$3 (options) {
  if (process.env.NODE_ENV !== 'production' &&
    !(this instanceof Vue$3)
  ) {
    warn('Vue is a constructor and should be called with the `new` keyword');
  }
  this._init(options);
}

initMixin(Vue$3);
stateMixin(Vue$3);
eventsMixin(Vue$3);
lifecycleMixin(Vue$3);
renderMixin(Vue$3);

/*  */

function initUse (Vue) {
  Vue.use = function (plugin) {
    var installedPlugins = (this._installedPlugins || (this._installedPlugins = []));
    if (installedPlugins.indexOf(plugin) > -1) {
      return this
    }

    // additional parameters
    var args = toArray(arguments, 1);
    args.unshift(this);
    if (typeof plugin.install === 'function') {
      plugin.install.apply(plugin, args);
    } else if (typeof plugin === 'function') {
      plugin.apply(null, args);
    }
    installedPlugins.push(plugin);
    return this
  };
}

/*  */
```

```
function initMixin$1 (Vue) {
  Vue.mixin = function (mixin) {
    this.options = mergeOptions(this.options, mixin);
    return this
  };
}

/*  */

function initExtend (Vue) {
  /**
   * Each instance constructor, including Vue, has a unique
   * cid. This enables us to create wrapped "child
   * constructors" for prototypal inheritance and cache them.
   */
  Vue.cid = 0;
  var cid = 1;

  /**
   * Class inheritance
   */
  Vue.extend = function (extendOptions) {
    extendOptions = extendOptions || {};
    var Super = this;
    var SuperId = Super.cid;
    var cachedCtors = extendOptions._Ctor || (extendOptions._Ctor = {});
    if (cachedCtors[SuperId]) {
      return cachedCtors[SuperId]
    }

    var name = extendOptions.name || Super.options.name;
    if (process.env.NODE_ENV !== 'production' && name) {
      validateComponentName(name);
    }

    var Sub = function VueComponent (options) {
      this._init(options);
    };
    Sub.prototype = Object.create(Super.prototype);
    Sub.prototype.constructor = Sub;
    Sub.cid = cid++;
    Sub.options = mergeOptions(
      Super.options,
      extendOptions
    );
```

```
    Sub['super'] = Super;

    // For props and computed properties, we define the proxy getters on
    // the Vue instances at extension time, on the extended prototype. This
    // avoids Object.defineProperty calls for each instance created.
    if (Sub.options.props) {
      initProps$1(Sub);
    }
    if (Sub.options.computed) {
      initComputed$1(Sub);
    }

    // allow further extension/mixin/plugin usage
    Sub.extend = Super.extend;
    Sub.mixin = Super.mixin;
    Sub.use = Super.use;

    // create asset registers, so extended classes
    // can have their private assets too.
    ASSET_TYPES.forEach(function (type) {
      Sub[type] = Super[type];
    });
    // enable recursive self-lookup
    if (name) {
      Sub.options.components[name] = Sub;
    }

    // keep a reference to the super options at extension time.
    // later at instantiation we can check if Super's options have
    // been updated.
    Sub.superOptions = Super.options;
    Sub.extendOptions = extendOptions;
    Sub.sealedOptions = extend({}, Sub.options);

    // cache constructor
    cachedCtors[SuperId] = Sub;
    return Sub
  };
}

function initProps$1 (Comp) {
  var props = Comp.options.props;
  for (var key in props) {
    proxy(Comp.prototype, "_props", key);
  }
}
```

```
function initComputed$1 (Comp) {
  var computed = Comp.options.computed;
  for (var key in computed) {
    defineComputed(Comp.prototype, key, computed[key]);
  }
}

/*  */

function initAssetRegisters (Vue) {
  /**
   * Create asset registration methods.
   */
  ASSET_TYPES.forEach(function (type) {
    Vue[type] = function (
      id,
      definition
    ) {
      if (!definition) {
        return this.options[type + 's'][id]
      } else {
        /* istanbul ignore if */
        if (process.env.NODE_ENV !== 'production' && type === 'component') {
          validateComponentName(id);
        }
        if (type === 'component' && isPlainObject(definition)) {
          definition.name = definition.name || id;
          definition = this.options._base.extend(definition);
        }
        if (type === 'directive' && typeof definition === 'function') {
          definition = { bind: definition, update: definition };
        }
        this.options[type + 's'][id] = definition;
        return definition
      }
    };
  });
}

/*  */

function getComponentName (opts) {
  return opts && (opts.Ctor.options.name || opts.tag)
}
```

```
function matches (pattern, name) {
  if (Array.isArray(pattern)) {
    return pattern.indexOf(name) > -1
  } else if (typeof pattern === 'string') {
    return pattern.split(',').indexOf(name) > -1
  } else if (isRegExp(pattern)) {
    return pattern.test(name)
  }
  /* istanbul ignore next */
  return false
}

function pruneCache (keepAliveInstance, filter) {
  var cache = keepAliveInstance.cache;
  var keys = keepAliveInstance.keys;
  var _vnode = keepAliveInstance._vnode;
  for (var key in cache) {
    var cachedNode = cache[key];
    if (cachedNode) {
      var name = getComponentName(cachedNode.componentOptions);
      if (name && !filter(name)) {
        pruneCacheEntry(cache, key, keys, _vnode);
      }
    }
  }
}

function pruneCacheEntry (
  cache,
  key,
  keys,
  current
) {
  var cached$$1 = cache[key];
  if (cached$$1 && (!current || cached$$1.tag !== current.tag)) {
    cached$$1.componentInstance.$destroy();
  }
  cache[key] = null;
  remove(keys, key);
}

var patternTypes = [String, RegExp, Array];

var KeepAlive = {
  name: 'keep-alive',
  abstract: true,
```

```
props: {
  include: patternTypes,
  exclude: patternTypes,
  max: [String, Number]
},

created: function created () {
  this.cache = Object.create(null);
  this.keys = [];
},

destroyed: function destroyed () {
  var this$1 = this;

  for (var key in this$1.cache) {
    pruneCacheEntry(this$1.cache, key, this$1.keys);
  }
},

watch: {
  include: function include (val) {
    pruneCache(this, function (name) { return matches(val, name); });
  },
  exclude: function exclude (val) {
    pruneCache(this, function (name) { return !matches(val, name); });
  }
},

render: function render () {
  var slot = this.$slots.default;
  var vnode = getFirstComponentChild(slot);
  var componentOptions = vnode && vnode.componentOptions;
  if (componentOptions) {
    // check pattern
    var name = getComponentName(componentOptions);
    var ref = this;
    var include = ref.include;
    var exclude = ref.exclude;
    if (
      // not included
      (include && (!name || !matches(include, name))) ||
      // excluded
      (exclude && name && matches(exclude, name))
    ) {
      return vnode
```

```
    }

    var ref$1 = this;
    var cache = ref$1.cache;
    var keys = ref$1.keys;
    var key = vnode.key == null
      // same constructor may get registered as different local components
      // so cid alone is not enough (#3269)
      ? componentOptions.Ctor.cid + (componentOptions.tag ? ("::" + (componentOptions.tag)) :
          '')
      : vnode.key;
    if (cache[key]) {
      vnode.componentInstance = cache[key].componentInstance;
      // make current key freshest
      remove(keys, key);
      keys.push(key);
    } else {
      cache[key] = vnode;
      keys.push(key);
      // prune oldest entry
      if (this.max && keys.length > parseInt(this.max)) {
        pruneCacheEntry(cache, keys[0], keys, this._vnode);
      }
    }

    vnode.data.keepAlive = true;
  }
  return vnode || (slot && slot[0])
 }
};

var builtInComponents = {
 KeepAlive: KeepAlive
};

/*  */

function initGlobalAPI (Vue) {
 // config
 var configDef = {};
 configDef.get = function () { return config$1; };
 if (process.env.NODE_ENV !== 'production') {
  configDef.set = function () {
    warn(
      'Do not replace the Vue.config object, set individual fields instead.'
    );
```

```
    };
  }
  Object.defineProperty(Vue, 'config', configDef);

  // exposed util methods.
  // NOTE: these are not considered part of the public API - avoid relying on
  // them unless you are aware of the risk.
  Vue.util = {
    warn: warn,
    extend: extend,
    mergeOptions: mergeOptions,
    defineReactive: defineReactive
  };

  Vue.set = set;
  Vue.delete = del;
  Vue.nextTick = nextTick$1;

  Vue.options = Object.create(null);
  ASSET_TYPES.forEach(function (type) {
    Vue.options[type + 's'] = Object.create(null);
  });

  // this is used to identify the "base" constructor to extend all plain-object
  // components with in Weex's multi-instance scenarios.
  Vue.options._base = Vue;

  extend(Vue.options.components, builtInComponents);

  initUse(Vue);
  initMixin$1(Vue);
  initExtend(Vue);
  initAssetRegisters(Vue);
}

initGlobalAPI(Vue$3);

Object.defineProperty(Vue$3.prototype, '$isServer', {
  get: isServerRendering
});

Object.defineProperty(Vue$3.prototype, '$ssrContext', {
  get: function get () {
    /* istanbul ignore next */
    return this.$vnode && this.$vnode.ssrContext
  }
```

```
});

Vue$3.version = '2.5.13';

/*  */

// these are reserved for web because they are directly compiled away
// during template compilation
var isReservedAttr = makeMap('style,class');

// attributes that should be using props for binding
var acceptValue = makeMap('input,textarea,option,select,progress');
var mustUseProp = function (tag, type, attr) {
  return (
    (attr === 'value' && acceptValue(tag)) && type !== 'button' ||
    (attr === 'selected' && tag === 'option') ||
    (attr === 'checked' && tag === 'input') ||
    (attr === 'muted' && tag === 'video')
  )
};

var isEnumeratedAttr = makeMap('contenteditable,draggable,spellcheck');

var isBooleanAttr = makeMap(
  'allowfullscreen,async,autofocus,autoplay,checked,compact,controls,declare,' +
  'default,defaultchecked,defaultmuted,defaultselected,defer,disabled,' +
  'enabled,formnovalidate,hidden,indeterminate,inert,ismap,itemscope,loop,multiple,' +
  'muted,nohref,noresize,noshade,novalidate,nowrap,open,pauseonexit,readonly,' +
  'required,reversed,scoped,seamless,selected,sortable,translate,' +
  'truespeed,typemustmatch,visible'
);

var xlinkNS = 'http://www.w3.org/1999/xlink';

var isXlink = function (name) {
  return name.charAt(5) === ':' && name.slice(0, 5) === 'xlink'
};

var getXlinkProp = function (name) {
  return isXlink(name) ? name.slice(6, name.length) : ''
};

var isFalsyAttrValue = function (val) {
  return val == null || val === false
};
```

```
/*  */

function genClassForVnode (vnode) {
  var data = vnode.data;
  var parentNode = vnode;
  var childNode = vnode;
  while (isDef(childNode.componentInstance)) {
    childNode = childNode.componentInstance._vnode;
    if (childNode && childNode.data) {
      data = mergeClassData(childNode.data, data);
    }
  }
  while (isDef(parentNode = parentNode.parent)) {
    if (parentNode && parentNode.data) {
      data = mergeClassData(data, parentNode.data);
    }
  }
  return renderClass(data.staticClass, data.class)
}

function mergeClassData (child, parent) {
  return {
    staticClass: concat(child.staticClass, parent.staticClass),
    class: isDef(child.class)
      ? [child.class, parent.class]
      : parent.class
  }
}

function renderClass (
  staticClass,
  dynamicClass
) {
  if (isDef(staticClass) || isDef(dynamicClass)) {
    return concat(staticClass, stringifyClass(dynamicClass))
  }
  /* istanbul ignore next */
  return ''
}

function concat (a, b) {
  return a ? b ? (a + ' ' + b) : a : (b || '')
}

function stringifyClass (value) {
  if (Array.isArray(value)) {
```

```
    return stringifyArray(value)
  }
  if (isObject(value)) {
    return stringifyObject(value)
  }
  if (typeof value === 'string') {
    return value
  }
  /* istanbul ignore next */
  return ''
}

function stringifyArray (value) {
  var res = '';
  var stringified;
  for (var i = 0, l = value.length; i < l; i++) {
    if (isDef(stringified = stringifyClass(value[i])) && stringified !== '') {
      if (res) { res += ' '; }
      res += stringified;
    }
  }
  return res
}

function stringifyObject (value) {
  var res = '';
  for (var key in value) {
    if (value[key]) {
      if (res) { res += ' '; }
      res += key;
    }
  }
  return res
}

/*  */

var namespaceMap = {
  svg: 'http://www.w3.org/2000/svg',
  math: 'http://www.w3.org/1998/Math/MathML'
};

var isHTMLTag = makeMap(
  'html,body,base,head,link,meta,style,title,' +
  'address,article,aside,footer,header,h1,h2,h3,h4,h5,h6,hgroup,nav,section,' +
  'div,dd,dl,dt,figcaption,figure,picture,hr,img,li,main,ol,p,pre,ul,' +
```

```
  'a,b,abbr,bdi,bdo,br,cite,code,data,dfn,em,i,kbd,mark,q,rp,rt,rtc,ruby,' +
  's,samp,small,span,strong,sub,sup,time,u,var,wbr,area,audio,map,track,video,' +
  'embed,object,param,source,canvas,script,noscript,del,ins,' +
  'caption,col,colgroup,table,thead,tbody,td,th,tr,' +
  'button,datalist,fieldset,form,input,label,legend,meter,optgroup,option,' +
  'output,progress,select,textarea,' +
  'details,dialog,menu,menuitem,summary,' +
  'content,element,shadow,template,blockquote,iframe,tfoot'
);

// this map is intentionally selective, only covering SVG elements that may
// contain child elements.
var isSVG = makeMap(
  'svg,animate,circle,clippath,cursor,defs,desc,ellipse,filter,font-face,' +
  'foreignObject,g,glyph,image,line,marker,mask,missing-glyph,path,pattern,' +
  'polygon,polyline,rect,switch,symbol,text,textpath,tspan,use,view',
  true
);



var isReservedTag = function (tag) {
  return isHTMLTag(tag) || isSVG(tag)
};

function getTagNamespace (tag) {
  if (isSVG(tag)) {
    return 'svg'
  }
  // basic support for MathML
  // note it doesn't support other MathML elements being component roots
  if (tag === 'math') {
    return 'math'
  }
}

var unknownElementCache = Object.create(null);
function isUnknownElement (tag) {
  /* istanbul ignore if */
  if (!inBrowser) {
    return true
  }
  if (isReservedTag(tag)) {
    return false
  }
  tag = tag.toLowerCase();
```

```
  /* istanbul ignore if */
  if (unknownElementCache[tag] != null) {
    return unknownElementCache[tag]
  }
  var el = document.createElement(tag);
  if (tag.indexOf('-') > -1) {
    // http://stackoverflow.com/a/28210364/1070244
    return (unknownElementCache[tag] = (
      el.constructor === window.HTMLUnknownElement ||
      el.constructor === window.HTMLElement
    ))
  } else {
    return (unknownElementCache[tag] = /HTMLUnknownElement/.test(el.toString()))
  }
}

var isTextInputType = makeMap('text,number,password,search,email,tel,url');

/*  */

/**
 * Query an element selector if it's not an element already.
 */
function query (el) {
  if (typeof el === 'string') {
    var selected = document.querySelector(el);
    if (!selected) {
      process.env.NODE_ENV !== 'production' && warn(
        'Cannot find element: ' + el
      );
      return document.createElement('div')
    }
    return selected
  } else {
    return el
  }
}

/*  */

function createElement$1 (tagName, vnode) {
  var elm = document.createElement(tagName);
  if (tagName !== 'select') {
    return elm
  }
  // false or null will remove the attribute but undefined will not
```

```
  if (vnode.data && vnode.data.attrs && vnode.data.attrs.multiple !== undefined) {
    elm.setAttribute('multiple', 'multiple');
  }
  return elm
}

function createElementNS (namespace, tagName) {
  return document.createElementNS(namespaceMap[namespace], tagName)
}

function createTextNode (text) {
  return document.createTextNode(text)
}

function createComment (text) {
  return document.createComment(text)
}

function insertBefore (parentNode, newNode, referenceNode) {
  parentNode.insertBefore(newNode, referenceNode);
}

function removeChild (node, child) {
  node.removeChild(child);
}

function appendChild (node, child) {
  node.appendChild(child);
}

function parentNode (node) {
  return node.parentNode
}

function nextSibling (node) {
  return node.nextSibling
}

function tagName (node) {
  return node.tagName
}

function setTextContent (node, text) {
  node.textContent = text;
}
```

```
function setAttribute (node, key, val) {
  node.setAttribute(key, val);
}


var nodeOps = Object.freeze({
        createElement: createElement$1,
        createElementNS: createElementNS,
        createTextNode: createTextNode,
        createComment: createComment,
        insertBefore: insertBefore,
        removeChild: removeChild,
        appendChild: appendChild,
        parentNode: parentNode,
        nextSibling: nextSibling,
        tagName: tagName,
        setTextContent: setTextContent,
        setAttribute: setAttribute
});

/*  */

var ref = {
  create: function create (_, vnode) {
    registerRef(vnode);
  },
  update: function update (oldVnode, vnode) {
    if (oldVnode.data.ref !== vnode.data.ref) {
      registerRef(oldVnode, true);
      registerRef(vnode);
    }
  },
  destroy: function destroy (vnode) {
    registerRef(vnode, true);
  }
};

function registerRef (vnode, isRemoval) {
  var key = vnode.data.ref;
  if (!key) { return }

  var vm = vnode.context;
  var ref = vnode.componentInstance || vnode.elm;
  var refs = vm.$refs;
  if (isRemoval) {
    if (Array.isArray(refs[key])) {
```

```
      remove(refs[key], ref);
    } else if (refs[key] === ref) {
      refs[key] = undefined;
    }
  } else {
    if (vnode.data.refInFor) {
      if (!Array.isArray(refs[key])) {
        refs[key] = [ref];
      } else if (refs[key].indexOf(ref) < 0) {
        // $flow-disable-line
        refs[key].push(ref);
      }
    } else {
      refs[key] = ref;
    }
  }
}

/**
 * Virtual DOM patching algorithm based on Snabbdom by
 * Simon Friis Vindum (@paldepind)
 * Licensed under the MIT License
 * https://github.com/paldepind/snabbdom/blob/master/LICENSE
 *
 * modified by Evan You (@yyx990803)
 *
 * Not type-checking this because this file is perf-critical and the cost
 * of making flow understand it is not worth it.
 */

var emptyNode = new VNode('', {}, []);

var hooks = ['create', 'activate', 'update', 'remove', 'destroy'];

function sameVnode (a, b) {
  return (
    a.key === b.key && (
      (
        a.tag === b.tag &&
        a.isComment === b.isComment &&
        isDef(a.data) === isDef(b.data) &&
        sameInputType(a, b)
      ) || (
        isTrue(a.isAsyncPlaceholder) &&
        a.asyncFactory === b.asyncFactory &&
        isUndef(b.asyncFactory.error)
```

```
      )
    )
  )
}

function sameInputType (a, b) {
  if (a.tag !== 'input') { return true }
  var i;
  var typeA = isDef(i = a.data) && isDef(i = i.attrs) && i.type;
  var typeB = isDef(i = b.data) && isDef(i = i.attrs) && i.type;
  return typeA === typeB || isTextInputType(typeA) && isTextInputType(typeB)
}

function createKeyToOldIdx (children, beginIdx, endIdx) {
  var i, key;
  var map = {};
  for (i = beginIdx; i <= endIdx; ++i) {
    key = children[i].key;
    if (isDef(key)) { map[key] = i; }
  }
  return map
}

function createPatchFunction (backend) {
  var i, j;
  var cbs = {};

  var modules = backend.modules;
  var nodeOps = backend.nodeOps;

  for (i = 0; i < hooks.length; ++i) {
    cbs[hooks[i]] = [];
    for (j = 0; j < modules.length; ++j) {
      if (isDef(modules[j][hooks[i]])) {
        cbs[hooks[i]].push(modules[j][hooks[i]]);
      }
    }
  }

  function emptyNodeAt (elm) {
    return new VNode(nodeOps.tagName(elm).toLowerCase(), {}, [], undefined, elm)
  }

  function createRmCb (childElm, listeners) {
    function remove () {
      if (--remove.listeners === 0) {
```

```
      removeNode(childElm);
    }
  }
  remove.listeners = listeners;
  return remove
}

function removeNode (el) {
  var parent = nodeOps.parentNode(el);
  // element may have already been removed due to v-html / v-text
  if (isDef(parent)) {
    nodeOps.removeChild(parent, el);
  }
}

function isUnknownElement$$1 (vnode, inVPre) {
  return (
    !inVPre &&
    !vnode.ns &&
    !(
      config$1.ignoredElements.length &&
      config$1.ignoredElements.some(function (ignore) {
        return isRegExp(ignore)
          ? ignore.test(vnode.tag)
          : ignore === vnode.tag
      })
    ) &&
    config$1.isUnknownElement(vnode.tag)
  )
}

var creatingElmInVPre = 0;
function createElm (vnode, insertedVnodeQueue, parentElm, refElm, nested) {
  vnode.isRootInsert = !nested; // for transition enter check
  if (createComponent(vnode, insertedVnodeQueue, parentElm, refElm)) {
    return
  }

  var data = vnode.data;
  var children = vnode.children;
  var tag = vnode.tag;
  if (isDef(tag)) {
    if (process.env.NODE_ENV !== 'production') {
      if (data && data.pre) {
        creatingElmInVPre++;
      }
```

```
      if (isUnknownElement$$1(vnode, creatingElmInVPre)) {
        warn(
          'Unknown custom element: <' + tag + '> - did you ' +
          'register the component correctly? For recursive components, ' +
          'make sure to provide the "name" option.',
          vnode.context
        );
      }
    }
    vnode.elm = vnode.ns
      ? nodeOps.createElementNS(vnode.ns, tag)
      : nodeOps.createElement(tag, vnode);
    setScope(vnode);

    /* istanbul ignore if */
    {
      createChildren(vnode, children, insertedVnodeQueue);
      if (isDef(data)) {
        invokeCreateHooks(vnode, insertedVnodeQueue);
      }
      insert(parentElm, vnode.elm, refElm);
    }

    if (process.env.NODE_ENV !== 'production' && data && data.pre) {
      creatingElmInVPre--;
    }
  } else if (isTrue(vnode.isComment)) {
    vnode.elm = nodeOps.createComment(vnode.text);
    insert(parentElm, vnode.elm, refElm);
  } else {
    vnode.elm = nodeOps.createTextNode(vnode.text);
    insert(parentElm, vnode.elm, refElm);
  }
}

function createComponent (vnode, insertedVnodeQueue, parentElm, refElm) {
  var i = vnode.data;
  if (isDef(i)) {
    var isReactivated = isDef(vnode.componentInstance) && i.keepAlive;
    if (isDef(i = i.hook) && isDef(i = i.init)) {
      i(vnode, false /* hydrating */, parentElm, refElm);
    }
    // after calling the init hook, if the vnode is a child component
    // it should've created a child instance and mounted it. the child
    // component also has set the placeholder vnode's elm.
    // in that case we can just return the element and be done.
```

```
    if (isDef(vnode.componentInstance)) {
      initComponent(vnode, insertedVnodeQueue);
      if (isTrue(isReactivated)) {
        reactivateComponent(vnode, insertedVnodeQueue, parentElm, refElm);
      }
      return true
    }
  }
}

function initComponent (vnode, insertedVnodeQueue) {
  if (isDef(vnode.data.pendingInsert)) {
    insertedVnodeQueue.push.apply(insertedVnodeQueue, vnode.data.pendingInsert);
    vnode.data.pendingInsert = null;
  }
  vnode.elm = vnode.componentInstance.$el;
  if (isPatchable(vnode)) {
    invokeCreateHooks(vnode, insertedVnodeQueue);
    setScope(vnode);
  } else {
    // empty component root.
    // skip all element-related modules except for ref (#3455)
    registerRef(vnode);
    // make sure to invoke the insert hook
    insertedVnodeQueue.push(vnode);
  }
}

function reactivateComponent (vnode, insertedVnodeQueue, parentElm, refElm) {
  var i;
  // hack for #4339: a reactivated component with inner transition
  // does not trigger because the inner node's created hooks are not called
  // again. It's not ideal to involve module-specific logic in here but
  // there doesn't seem to be a better way to do it.
  var innerNode = vnode;
  while (innerNode.componentInstance) {
    innerNode = innerNode.componentInstance._vnode;
    if (isDef(i = innerNode.data) && isDef(i = i.transition)) {
      for (i = 0; i < cbs.activate.length; ++i) {
        cbs.activate[i](emptyNode, innerNode);
      }
      insertedVnodeQueue.push(innerNode);
      break
    }
  }
  // unlike a newly created component,
```

```
  // a reactivated keep-alive component doesn't insert itself
  insert(parentElm, vnode.elm, refElm);
}

function insert (parent, elm, ref$$1) {
  if (isDef(parent)) {
    if (isDef(ref$$1)) {
      if (ref$$1.parentNode === parent) {
        nodeOps.insertBefore(parent, elm, ref$$1);
      }
    } else {
      nodeOps.appendChild(parent, elm);
    }
  }
}

function createChildren (vnode, children, insertedVnodeQueue) {
  if (Array.isArray(children)) {
    if (process.env.NODE_ENV !== 'production') {
      checkDuplicateKeys(children);
    }
    for (var i = 0; i < children.length; ++i) {
      createElm(children[i], insertedVnodeQueue, vnode.elm, null, true);
    }
  } else if (isPrimitive(vnode.text)) {
    nodeOps.appendChild(vnode.elm, nodeOps.createTextNode(String(vnode.text)));
  }
}

function isPatchable (vnode) {
  while (vnode.componentInstance) {
    vnode = vnode.componentInstance._vnode;
  }
  return isDef(vnode.tag)
}

function invokeCreateHooks (vnode, insertedVnodeQueue) {
  for (var i$1 = 0; i$1 < cbs.create.length; ++i$1) {
    cbs.create[i$1](emptyNode, vnode);
  }
  i = vnode.data.hook; // Reuse variable
  if (isDef(i)) {
    if (isDef(i.create)) { i.create(emptyNode, vnode); }
    if (isDef(i.insert)) { insertedVnodeQueue.push(vnode); }
  }
}
```

```
// set scope id attribute for scoped CSS.
// this is implemented as a special case to avoid the overhead
// of going through the normal attribute patching process.
function setScope (vnode) {
  var i;
  if (isDef(i = vnode.fnScopeId)) {
    nodeOps.setAttribute(vnode.elm, i, '');
  } else {
    var ancestor = vnode;
    while (ancestor) {
      if (isDef(i = ancestor.context) && isDef(i = i.$options._scopeId)) {
        nodeOps.setAttribute(vnode.elm, i, '');
      }
      ancestor = ancestor.parent;
    }
  }
  // for slot content they should also get the scopeId from the host instance.
  if (isDef(i = activeInstance) &&
    i !== vnode.context &&
    i !== vnode.fnContext &&
    isDef(i = i.$options._scopeId)
  ) {
    nodeOps.setAttribute(vnode.elm, i, '');
  }
}

function addVnodes (parentElm, refElm, vnodes, startIdx, endIdx, insertedVnodeQueue) {
  for (; startIdx <= endIdx; ++startIdx) {
    createElm(vnodes[startIdx], insertedVnodeQueue, parentElm, refElm);
  }
}

function invokeDestroyHook (vnode) {
  var i, j;
  var data = vnode.data;
  if (isDef(data)) {
    if (isDef(i = data.hook) && isDef(i = i.destroy)) { i(vnode); }
    for (i = 0; i < cbs.destroy.length; ++i) { cbs.destroy[i](vnode); }
  }
  if (isDef(i = vnode.children)) {
    for (j = 0; j < vnode.children.length; ++j) {
      invokeDestroyHook(vnode.children[j]);
    }
  }
}
```

```
function removeVnodes (parentElm, vnodes, startIdx, endIdx) {
  for (; startIdx <= endIdx; ++startIdx) {
    var ch = vnodes[startIdx];
    if (isDef(ch)) {
      if (isDef(ch.tag)) {
        removeAndInvokeRemoveHook(ch);
        invokeDestroyHook(ch);
      } else { // Text node
        removeNode(ch.elm);
      }
    }
  }
}

function removeAndInvokeRemoveHook (vnode, rm) {
  if (isDef(rm) || isDef(vnode.data)) {
    var i;
    var listeners = cbs.remove.length + 1;
    if (isDef(rm)) {
      // we have a recursively passed down rm callback
      // increase the listeners count
      rm.listeners += listeners;
    } else {
      // directly removing
      rm = createRmCb(vnode.elm, listeners);
    }
    // recursively invoke hooks on child component root node
    if (isDef(i = vnode.componentInstance) && isDef(i = i._vnode) && isDef(i.data)) {
      removeAndInvokeRemoveHook(i, rm);
    }
    for (i = 0; i < cbs.remove.length; ++i) {
      cbs.remove[i](vnode, rm);
    }
    if (isDef(i = vnode.data.hook) && isDef(i = i.remove)) {
      i(vnode, rm);
    } else {
      rm();
    }
  } else {
    removeNode(vnode.elm);
  }
}

function updateChildren (parentElm, oldCh, newCh, insertedVnodeQueue, removeOnly) {
  var oldStartIdx = 0;
```

```
var newStartIdx = 0;
var oldEndIdx = oldCh.length - 1;
var oldStartVnode = oldCh[0];
var oldEndVnode = oldCh[oldEndIdx];
var newEndIdx = newCh.length - 1;
var newStartVnode = newCh[0];
var newEndVnode = newCh[newEndIdx];
var oldKeyToIdx, idxInOld, vnodeToMove, refElm;

// removeOnly is a special flag used only by <transition-group>
// to ensure removed elements stay in correct relative positions
// during leaving transitions
var canMove = !removeOnly;

if (process.env.NODE_ENV !== 'production') {
  checkDuplicateKeys(newCh);
}

while (oldStartIdx <= oldEndIdx && newStartIdx <= newEndIdx) {
  if (isUndef(oldStartVnode)) {
    oldStartVnode = oldCh[++oldStartIdx]; // Vnode has been moved left
  } else if (isUndef(oldEndVnode)) {
    oldEndVnode = oldCh[--oldEndIdx];
  } else if (sameVnode(oldStartVnode, newStartVnode)) {
    patchVnode(oldStartVnode, newStartVnode, insertedVnodeQueue);
    oldStartVnode = oldCh[++oldStartIdx];
    newStartVnode = newCh[++newStartIdx];
  } else if (sameVnode(oldEndVnode, newEndVnode)) {
    patchVnode(oldEndVnode, newEndVnode, insertedVnodeQueue);
    oldEndVnode = oldCh[--oldEndIdx];
    newEndVnode = newCh[--newEndIdx];
  } else if (sameVnode(oldStartVnode, newEndVnode)) { // Vnode moved right
    patchVnode(oldStartVnode, newEndVnode, insertedVnodeQueue);
    canMove && nodeOps.insertBefore(parentElm, oldStartVnode.elm,
       nodeOps.nextSibling(oldEndVnode.elm));
    oldStartVnode = oldCh[++oldStartIdx];
    newEndVnode = newCh[--newEndIdx];
  } else if (sameVnode(oldEndVnode, newStartVnode)) { // Vnode moved left
    patchVnode(oldEndVnode, newStartVnode, insertedVnodeQueue);
    canMove && nodeOps.insertBefore(parentElm, oldEndVnode.elm, oldStartVnode.elm);
    oldEndVnode = oldCh[--oldEndIdx];
    newStartVnode = newCh[++newStartIdx];
  } else {
    if (isUndef(oldKeyToIdx)) { oldKeyToIdx = createKeyToOldIdx(oldCh, oldStartIdx,
       oldEndIdx); }
    idxInOld = isDef(newStartVnode.key)
```

```
        ? oldKeyToIdx[newStartVnode.key]
        : findIdxInOld(newStartVnode, oldCh, oldStartIdx, oldEndIdx);
      if (isUndef(idxInOld)) { // New element
        createElm(newStartVnode, insertedVnodeQueue, parentElm, oldStartVnode.elm);
      } else {
        vnodeToMove = oldCh[idxInOld];
        if (sameVnode(vnodeToMove, newStartVnode)) {
          patchVnode(vnodeToMove, newStartVnode, insertedVnodeQueue);
          oldCh[idxInOld] = undefined;
          canMove && nodeOps.insertBefore(parentElm, vnodeToMove.elm, oldStartVnode.elm);
        } else {
          // same key but different element. treat as new element
          createElm(newStartVnode, insertedVnodeQueue, parentElm, oldStartVnode.elm);
        }
      }
      newStartVnode = newCh[++newStartIdx];
    }
  }
  if (oldStartIdx > oldEndIdx) {
    refElm = isUndef(newCh[newEndIdx + 1]) ? null : newCh[newEndIdx + 1].elm;
    addVnodes(parentElm, refElm, newCh, newStartIdx, newEndIdx, insertedVnodeQueue);
  } else if (newStartIdx > newEndIdx) {
    removeVnodes(parentElm, oldCh, oldStartIdx, oldEndIdx);
  }
}

function checkDuplicateKeys (children) {
  var seenKeys = {};
  for (var i = 0; i < children.length; i++) {
    var vnode = children[i];
    var key = vnode.key;
    if (isDef(key)) {
      if (seenKeys[key]) {
        warn(
          ("Duplicate keys detected: '" + key + "'. This may cause an update error."),
          vnode.context
        );
      } else {
        seenKeys[key] = true;
      }
    }
  }
}

function findIdxInOld (node, oldCh, start, end) {
  for (var i = start; i < end; i++) {
```

```
    var c = oldCh[i];
    if (isDef(c) && sameVnode(node, c)) { return i }
  }
}

function patchVnode (oldVnode, vnode, insertedVnodeQueue, removeOnly) {
  if (oldVnode === vnode) {
    return
  }

  var elm = vnode.elm = oldVnode.elm;

  if (isTrue(oldVnode.isAsyncPlaceholder)) {
    if (isDef(vnode.asyncFactory.resolved)) {
      hydrate(oldVnode.elm, vnode, insertedVnodeQueue);
    } else {
      vnode.isAsyncPlaceholder = true;
    }
    return
  }

  // reuse element for static trees.
  // note we only do this if the vnode is cloned -
  // if the new node is not cloned it means the render functions have been
  // reset by the hot-reload-api and we need to do a proper re-render.
  if (isTrue(vnode.isStatic) &&
    isTrue(oldVnode.isStatic) &&
    vnode.key === oldVnode.key &&
    (isTrue(vnode.isCloned) || isTrue(vnode.isOnce))
  ) {
    vnode.componentInstance = oldVnode.componentInstance;
    return
  }

  var i;
  var data = vnode.data;
  if (isDef(data) && isDef(i = data.hook) && isDef(i = i.prepatch)) {
    i(oldVnode, vnode);
  }

  var oldCh = oldVnode.children;
  var ch = vnode.children;
  if (isDef(data) && isPatchable(vnode)) {
    for (i = 0; i < cbs.update.length; ++i) { cbs.update[i](oldVnode, vnode); }
    if (isDef(i = data.hook) && isDef(i = i.update)) { i(oldVnode, vnode); }
  }
```

```
  if (isUndef(vnode.text)) {
    if (isDef(oldCh) && isDef(ch)) {
      if (oldCh !== ch) { updateChildren(elm, oldCh, ch, insertedVnodeQueue, removeOnly); }
    } else if (isDef(ch)) {
      if (isDef(oldVnode.text)) { nodeOps.setTextContent(elm, ''); }
      addVnodes(elm, null, ch, 0, ch.length - 1, insertedVnodeQueue);
    } else if (isDef(oldCh)) {
      removeVnodes(elm, oldCh, 0, oldCh.length - 1);
    } else if (isDef(oldVnode.text)) {
      nodeOps.setTextContent(elm, '');
    }
  } else if (oldVnode.text !== vnode.text) {
    nodeOps.setTextContent(elm, vnode.text);
  }
  if (isDef(data)) {
    if (isDef(i = data.hook) && isDef(i = i.postpatch)) { i(oldVnode, vnode); }
  }
}

function invokeInsertHook (vnode, queue, initial) {
  // delay insert hooks for component root nodes, invoke them after the
  // element is really inserted
  if (isTrue(initial) && isDef(vnode.parent)) {
    vnode.parent.data.pendingInsert = queue;
  } else {
    for (var i = 0; i < queue.length; ++i) {
      queue[i].data.hook.insert(queue[i]);
    }
  }
}

var hydrationBailed = false;
// list of modules that can skip create hook during hydration because they
// are already rendered on the client or has no need for initialization
// Note: style is excluded because it relies on initial clone for future
// deep updates (#7063).
var isRenderedModule = makeMap('attrs,class,staticClass,staticStyle,key');

// Note: this is a browser-only function so we can assume elms are DOM nodes.
function hydrate (elm, vnode, insertedVnodeQueue, inVPre) {
  var i;
  var tag = vnode.tag;
  var data = vnode.data;
  var children = vnode.children;
  inVPre = inVPre || (data && data.pre);
  vnode.elm = elm;
```

```
if (isTrue(vnode.isComment) && isDef(vnode.asyncFactory)) {
  vnode.isAsyncPlaceholder = true;
  return true
}
// assert node match
if (process.env.NODE_ENV !== 'production') {
  if (!assertNodeMatch(elm, vnode, inVPre)) {
    return false
  }
}
if (isDef(data)) {
  if (isDef(i = data.hook) && isDef(i = i.init)) { i(vnode, true /* hydrating */); }
  if (isDef(i = vnode.componentInstance)) {
    // child component. it should have hydrated its own tree.
    initComponent(vnode, insertedVnodeQueue);
    return true
  }
}
if (isDef(tag)) {
  if (isDef(children)) {
    // empty element, allow client to pick up and populate children
    if (!elm.hasChildNodes()) {
      createChildren(vnode, children, insertedVnodeQueue);
    } else {
      // v-html and domProps: innerHTML
      if (isDef(i = data) && isDef(i = i.domProps) && isDef(i = i.innerHTML)) {
        if (i !== elm.innerHTML) {
          /* istanbul ignore if */
          if (process.env.NODE_ENV !== 'production' &&
            typeof console !== 'undefined' &&
            !hydrationBailed
          ) {
            hydrationBailed = true;
            console.warn('Parent: ', elm);
            console.warn('server innerHTML: ', i);
            console.warn('client innerHTML: ', elm.innerHTML);
          }
          return false
        }
      } else {
        // iterate and compare children lists
        var childrenMatch = true;
        var childNode = elm.firstChild;
        for (var i$1 = 0; i$1 < children.length; i$1++) {
          if (!childNode || !hydrate(childNode, children[i$1], insertedVnodeQueue, inVPre)) {
```

```
            childrenMatch = false;
            break
          }
          childNode = childNode.nextSibling;
        }
        // if childNode is not null, it means the actual childNodes list is
        // longer than the virtual children list.
        if (!childrenMatch || childNode) {
          /* istanbul ignore if */
          if (process.env.NODE_ENV !== 'production' &&
            typeof console !== 'undefined' &&
            !hydrationBailed
          ) {
            hydrationBailed = true;
            console.warn('Parent: ', elm);
            console.warn('Mismatching childNodes vs. VNodes: ', elm.childNodes, children);
          }
          return false
        }
      }
    }
    if (isDef(data)) {
      var fullInvoke = false;
      for (var key in data) {
        if (!isRenderedModule(key)) {
          fullInvoke = true;
          invokeCreateHooks(vnode, insertedVnodeQueue);
          break
        }
      }
      if (!fullInvoke && data['class']) {
        // ensure collecting deps for deep class bindings for future updates
        traverse(data['class']);
      }
    }
  } else if (elm.data !== vnode.text) {
    elm.data = vnode.text;
  }
  return true
}

function assertNodeMatch (node, vnode, inVPre) {
  if (isDef(vnode.tag)) {
    return vnode.tag.indexOf('vue-component') === 0 || (
      !isUnknownElement$$1(vnode, inVPre) &&
```

```
      vnode.tag.toLowerCase() === (node.tagName && node.tagName.toLowerCase())
    )
  } else {
    return node.nodeType === (vnode.isComment ? 8 : 3)
  }
}

return function patch (oldVnode, vnode, hydrating, removeOnly, parentElm, refElm) {
  if (isUndef(vnode)) {
    if (isDef(oldVnode)) { invokeDestroyHook(oldVnode); }
    return
  }

  var isInitialPatch = false;
  var insertedVnodeQueue = [];

  if (isUndef(oldVnode)) {
    // empty mount (likely as component), create new root element
    isInitialPatch = true;
    createElm(vnode, insertedVnodeQueue, parentElm, refElm);
  } else {
    var isRealElement = isDef(oldVnode.nodeType);
    if (!isRealElement && sameVnode(oldVnode, vnode)) {
      // patch existing root node
      patchVnode(oldVnode, vnode, insertedVnodeQueue, removeOnly);
    } else {
      if (isRealElement) {
        // mounting to a real element
        // check if this is server-rendered content and if we can perform
        // a successful hydration.
        if (oldVnode.nodeType === 1 && oldVnode.hasAttribute(SSR_ATTR)) {
          oldVnode.removeAttribute(SSR_ATTR);
          hydrating = true;
        }
        if (isTrue(hydrating)) {
          if (hydrate(oldVnode, vnode, insertedVnodeQueue)) {
            invokeInsertHook(vnode, insertedVnodeQueue, true);
            return oldVnode
          } else if (process.env.NODE_ENV !== 'production') {
            warn(
              'The client-side rendered virtual DOM tree is not matching ' +
              'server-rendered content. This is likely caused by incorrect ' +
              'HTML markup, for example nesting block-level elements inside ' +
              '<p>, or missing <tbody>. Bailing hydration and performing ' +
              'full client-side render.'
            );
```

```
    }
  }
  // either not server-rendered, or hydration failed.
  // create an empty node and replace it
  oldVnode = emptyNodeAt(oldVnode);
}

// replacing existing element
var oldElm = oldVnode.elm;
var parentElm$1 = nodeOps.parentNode(oldElm);

// create new node
createElm(
  vnode,
  insertedVnodeQueue,
  // extremely rare edge case: do not insert if old element is in a
  // leaving transition. Only happens when combining transition +
  // keep-alive + HOCs. (#4590)
  oldElm._leaveCb ? null : parentElm$1,
  nodeOps.nextSibling(oldElm)
);

// update parent placeholder node element, recursively
if (isDef(vnode.parent)) {
  var ancestor = vnode.parent;
  var patchable = isPatchable(vnode);
  while (ancestor) {
    for (var i = 0; i < cbs.destroy.length; ++i) {
      cbs.destroy[i](ancestor);
    }
    ancestor.elm = vnode.elm;
    if (patchable) {
      for (var i$1 = 0; i$1 < cbs.create.length; ++i$1) {
        cbs.create[i$1](emptyNode, ancestor);
      }
      // #6513
      // invoke insert hooks that may have been merged by create hooks.
      // e.g. for directives that uses the "inserted" hook.
      var insert = ancestor.data.hook.insert;
      if (insert.merged) {
        // start at index 1 to avoid re-invoking component mounted hook
        for (var i$2 = 1; i$2 < insert.fns.length; i$2++) {
          insert.fns[i$2]();
        }
      }
    } else {
```

```
            registerRef(ancestor);
          }
          ancestor = ancestor.parent;
        }
      }

      // destroy old node
      if (isDef(parentElm$1)) {
        removeVnodes(parentElm$1, [oldVnode], 0, 0);
      } else if (isDef(oldVnode.tag)) {
        invokeDestroyHook(oldVnode);
      }
    }
  }

  invokeInsertHook(vnode, insertedVnodeQueue, isInitialPatch);
  return vnode.elm
 }
}

/*  */

var directives = {
 create: updateDirectives,
 update: updateDirectives,
 destroy: function unbindDirectives (vnode) {
  updateDirectives(vnode, emptyNode);
 }
};

function updateDirectives (oldVnode, vnode) {
 if (oldVnode.data.directives || vnode.data.directives) {
  _update(oldVnode, vnode);
 }
}

function _update (oldVnode, vnode) {
 var isCreate = oldVnode === emptyNode;
 var isDestroy = vnode === emptyNode;
 var oldDirs = normalizeDirectives$1(oldVnode.data.directives, oldVnode.context);
 var newDirs = normalizeDirectives$1(vnode.data.directives, vnode.context);

 var dirsWithInsert = [];
 var dirsWithPostpatch = [];

 var key, oldDir, dir;
```

```
for (key in newDirs) {
  oldDir = oldDirs[key];
  dir = newDirs[key];
  if (!oldDir) {
    // new directive, bind
    callHook$1(dir, 'bind', vnode, oldVnode);
    if (dir.def && dir.def.inserted) {
      dirsWithInsert.push(dir);
    }
  } else {
    // existing directive, update
    dir.oldValue = oldDir.value;
    callHook$1(dir, 'update', vnode, oldVnode);
    if (dir.def && dir.def.componentUpdated) {
      dirsWithPostpatch.push(dir);
    }
  }
}

if (dirsWithInsert.length) {
  var callInsert = function () {
    for (var i = 0; i < dirsWithInsert.length; i++) {
      callHook$1(dirsWithInsert[i], 'inserted', vnode, oldVnode);
    }
  };
  if (isCreate) {
    mergeVNodeHook(vnode, 'insert', callInsert);
  } else {
    callInsert();
  }
}

if (dirsWithPostpatch.length) {
  mergeVNodeHook(vnode, 'postpatch', function () {
    for (var i = 0; i < dirsWithPostpatch.length; i++) {
      callHook$1(dirsWithPostpatch[i], 'componentUpdated', vnode, oldVnode);
    }
  });
}

if (!isCreate) {
  for (key in oldDirs) {
    if (!newDirs[key]) {
      // no longer present, unbind
      callHook$1(oldDirs[key], 'unbind', oldVnode, oldVnode, isDestroy);
    }
```

```
    }
  }
}

var emptyModifiers = Object.create(null);

function normalizeDirectives$1 (
  dirs,
  vm
) {
  var res = Object.create(null);
  if (!dirs) {
    // $flow-disable-line
    return res
  }
  var i, dir;
  for (i = 0; i < dirs.length; i++) {
    dir = dirs[i];
    if (!dir.modifiers) {
      // $flow-disable-line
      dir.modifiers = emptyModifiers;
    }
    res[getRawDirName(dir)] = dir;
    dir.def = resolveAsset(vm.$options, 'directives', dir.name, true);
  }
  // $flow-disable-line
  return res
}

function getRawDirName (dir) {
  return dir.rawName || ((dir.name) + "." + (Object.keys(dir.modifiers || {}).join('.')))
}

function callHook$1 (dir, hook, vnode, oldVnode, isDestroy) {
  var fn = dir.def && dir.def[hook];
  if (fn) {
    try {
      fn(vnode.elm, dir, vnode, oldVnode, isDestroy);
    } catch (e) {
      handleError(e, vnode.context, ("directive " + (dir.name) + " " + hook + " hook"));
    }
  }
}

var baseModules = [
  ref,
```

```
  directives
];

/*  */

function updateAttrs (oldVnode, vnode) {
  var opts = vnode.componentOptions;
  if (isDef(opts) && opts.Ctor.options.inheritAttrs === false) {
    return
  }
  if (isUndef(oldVnode.data.attrs) && isUndef(vnode.data.attrs)) {
    return
  }
  var key, cur, old;
  var elm = vnode.elm;
  var oldAttrs = oldVnode.data.attrs || {};
  var attrs = vnode.data.attrs || {};
  // clone observed objects, as the user probably wants to mutate it
  if (isDef(attrs.__ob__)) {
    attrs = vnode.data.attrs = extend({}, attrs);
  }

  for (key in attrs) {
    cur = attrs[key];
    old = oldAttrs[key];
    if (old !== cur) {
      setAttr(elm, key, cur);
    }
  }
  // #4391: in IE9, setting type can reset value for input[type=radio]
  // #6666: IE/Edge forces progress value down to 1 before setting a max
  /* istanbul ignore if */
  if ((isIE || isEdge) && attrs.value !== oldAttrs.value) {
    setAttr(elm, 'value', attrs.value);
  }
  for (key in oldAttrs) {
    if (isUndef(attrs[key])) {
      if (isXlink(key)) {
        elm.removeAttributeNS(xlinkNS, getXlinkProp(key));
      } else if (!isEnumeratedAttr(key)) {
        elm.removeAttribute(key);
      }
    }
  }
}
```

```
function setAttr (el, key, value) {
  if (isBooleanAttr(key)) {
    // set attribute for blank value
    // e.g. <option disabled>Select one</option>
    if (isFalsyAttrValue(value)) {
      el.removeAttribute(key);
    } else {
      // technically allowfullscreen is a boolean attribute for <iframe>,
      // but Flash expects a value of "true" when used on <embed> tag
      value = key === 'allowfullscreen' && el.tagName === 'EMBED'
        ? 'true'
        : key;
      el.setAttribute(key, value);
    }
  } else if (isEnumeratedAttr(key)) {
    el.setAttribute(key, isFalsyAttrValue(value) || value === 'false' ? 'false' : 'true');
  } else if (isXlink(key)) {
    if (isFalsyAttrValue(value)) {
      el.removeAttributeNS(xlinkNS, getXlinkProp(key));
    } else {
      el.setAttributeNS(xlinkNS, key, value);
    }
  } else {
    if (isFalsyAttrValue(value)) {
      el.removeAttribute(key);
    } else {
      // #7138: IE10 & 11 fires input event when setting placeholder on
      // <textarea>... block the first input event and remove the blocker
      // immediately.
      /* istanbul ignore if */
      if (
        isIE && !isIE9 &&
        el.tagName === 'TEXTAREA' &&
        key === 'placeholder' && !el.__ieph
      ) {
        var blocker = function (e) {
          e.stopImmediatePropagation();
          el.removeEventListener('input', blocker);
        };
        el.addEventListener('input', blocker);
        // $flow-disable-line
        el.__ieph = true; /* IE placeholder patched */
      }
      el.setAttribute(key, value);
    }
  }
```

```
}

var attrs = {
  create: updateAttrs,
  update: updateAttrs
};

/*  */

function updateClass (oldVnode, vnode) {
  var el = vnode.elm;
  var data = vnode.data;
  var oldData = oldVnode.data;
  if (
    isUndef(data.staticClass) &&
    isUndef(data.class) && (
      isUndef(oldData) || (
        isUndef(oldData.staticClass) &&
        isUndef(oldData.class)
      )
    )
  ) {
    return
  }

  var cls = genClassForVnode(vnode);

  // handle transition classes
  var transitionClass = el._transitionClasses;
  if (isDef(transitionClass)) {
    cls = concat(cls, stringifyClass(transitionClass));
  }

  // set the class
  if (cls !== el._prevClass) {
    el.setAttribute('class', cls);
    el._prevClass = cls;
  }
}

var klass = {
  create: updateClass,
  update: updateClass
};

/*  */
```

```
/*  */
```

```
// add a raw attr (use this in preTransforms)
```

```
// note: this only removes the attr from the Array (attrsList) so that it
// doesn't get processed by processAttrs.
// By default it does NOT remove it from the map (attrsMap) because the map is
// needed during codegen.

/*  */

/**
 * Cross-platform code generation for component v-model
 */


/**
 * Cross-platform codegen helper for generating v-model value assignment code.
 */

/*  */

// in some cases, the event used has to be determined at runtime
// so we used some reserved tokens during compile.
var RANGE_TOKEN = '__r';
var CHECKBOX_RADIO_TOKEN = '__c';

/*  */

// normalize v-model event tokens that can only be determined at runtime.
```

```
// it's important to place the event as the first in the array because
// the whole point is ensuring the v-model callback gets called before
// user-attached handlers.
function normalizeEvents (on$$1) {
  /* istanbul ignore if */
  if (isDef(on$$1[RANGE_TOKEN])) {
    // IE input[type=range] only supports `change` event
    var event = isIE ? 'change' : 'input';
    on$$1[event] = [].concat(on$$1[RANGE_TOKEN], on$$1[event] || []);
    delete on$$1[RANGE_TOKEN];
  }
  // This was originally intended to fix #4521 but no longer necessary
  // after 2.5. Keeping it for backwards compat with generated code from < 2.4
  /* istanbul ignore if */
  if (isDef(on$$1[CHECKBOX_RADIO_TOKEN])) {
    on$$1.change = [].concat(on$$1[CHECKBOX_RADIO_TOKEN], on$$1.change || []);
    delete on$$1[CHECKBOX_RADIO_TOKEN];
  }
}

var target$1;

function createOnceHandler (handler, event, capture) {
  var _target = target$1; // save current target element in closure
  return function onceHandler () {
    var res = handler.apply(null, arguments);
    if (res !== null) {
      remove$2(event, onceHandler, capture, _target);
    }
  }
}

function add$1 (
  event,
  handler,
  once$$1,
  capture,
  passive
) {
  handler = withMacroTask(handler);
  if (once$$1) { handler = createOnceHandler(handler, event, capture); }
  target$1.addEventListener(
    event,
    handler,
    supportsPassive
      ? { capture: capture, passive: passive }
```

```
      : capture
  );
}

function remove$2 (
  event,
  handler,
  capture,
  _target
) {
  (_target || target$1).removeEventListener(
    event,
    handler._withTask || handler,
    capture
  );
}

function updateDOMListeners (oldVnode, vnode) {
  if (isUndef(oldVnode.data.on) && isUndef(vnode.data.on)) {
    return
  }
  var on$$1 = vnode.data.on || {};
  var oldOn = oldVnode.data.on || {};
  target$1 = vnode.elm;
  normalizeEvents(on$$1);
  updateListeners(on$$1, oldOn, add$1, remove$2, vnode.context);
  target$1 = undefined;
}

var events = {
  create: updateDOMListeners,
  update: updateDOMListeners
};

/*  */

function updateDOMProps (oldVnode, vnode) {
  if (isUndef(oldVnode.data.domProps) && isUndef(vnode.data.domProps)) {
    return
  }
  var key, cur;
  var elm = vnode.elm;
  var oldProps = oldVnode.data.domProps || {};
  var props = vnode.data.domProps || {};
  // clone observed objects, as the user probably wants to mutate it
  if (isDef(props.__ob__)) {
```

```
    props = vnode.data.domProps = extend({}, props);
  }

  for (key in oldProps) {
    if (isUndef(props[key])) {
      elm[key] = '';
    }
  }
  for (key in props) {
    cur = props[key];
    // ignore children if the node has textContent or innerHTML,
    // as these will throw away existing DOM nodes and cause removal errors
    // on subsequent patches (#3360)
    if (key === 'textContent' || key === 'innerHTML') {
      if (vnode.children) { vnode.children.length = 0; }
      if (cur === oldProps[key]) { continue }
      // #6601 work around Chrome version <= 55 bug where single textNode
      // replaced by innerHTML/textContent retains its parentNode property
      if (elm.childNodes.length === 1) {
        elm.removeChild(elm.childNodes[0]);
      }
    }

    if (key === 'value') {
      // store value as _value as well since
      // non-string values will be stringified
      elm._value = cur;
      // avoid resetting cursor position when value is the same
      var strCur = isUndef(cur) ? '' : String(cur);
      if (shouldUpdateValue(elm, strCur)) {
        elm.value = strCur;
      }
    } else {
      elm[key] = cur;
    }
  }
}

// check platforms/web/util/attrs.js acceptValue


function shouldUpdateValue (elm, checkVal) {
  return (!elm.composing && (
    elm.tagName === 'OPTION' ||
    isNotInFocusAndDirty(elm, checkVal) ||
    isDirtyWithModifiers(elm, checkVal)
```

```
  ))
}

function isNotInFocusAndDirty (elm, checkVal) {
  // return true when textbox (.number and .trim) loses focus and its value is
  // not equal to the updated value
  var notInFocus = true;
  // #6157
  // work around IE bug when accessing document.activeElement in an iframe
  try { notInFocus = document.activeElement !== elm; } catch (e) {}
  return notInFocus && elm.value !== checkVal
}

function isDirtyWithModifiers (elm, newVal) {
  var value = elm.value;
  var modifiers = elm._vModifiers; // injected by v-model runtime
  if (isDef(modifiers)) {
    if (modifiers.lazy) {
      // inputs with lazy should only be updated when not in focus
      return false
    }
    if (modifiers.number) {
      return toNumber(value) !== toNumber(newVal)
    }
    if (modifiers.trim) {
      return value.trim() !== newVal.trim()
    }
  }
  return value !== newVal
}

var domProps = {
  create: updateDOMProps,
  update: updateDOMProps
};

/*  */

var parseStyleText = cached(function (cssText) {
  var res = {};
  var listDelimiter = /;(?![^(]*\))/g;
  var propertyDelimiter = /:(.+)/;
  cssText.split(listDelimiter).forEach(function (item) {
    if (item) {
      var tmp = item.split(propertyDelimiter);
      tmp.length > 1 && (res[tmp[0].trim()] = tmp[1].trim());
```

```
    }
  });
  return res
});

// merge static and dynamic style data on the same vnode
function normalizeStyleData (data) {
  var style = normalizeStyleBinding(data.style);
  // static style is pre-processed into an object during compilation
  // and is always a fresh object, so it's safe to merge into it
  return data.staticStyle
    ? extend(data.staticStyle, style)
    : style
}

// normalize possible array / string values into Object
function normalizeStyleBinding (bindingStyle) {
  if (Array.isArray(bindingStyle)) {
    return toObject(bindingStyle)
  }
  if (typeof bindingStyle === 'string') {
    return parseStyleText(bindingStyle)
  }
  return bindingStyle
}

/**
 * parent component style should be after child's
 * so that parent component's style could override it
 */
function getStyle (vnode, checkChild) {
  var res = {};
  var styleData;

  if (checkChild) {
    var childNode = vnode;
    while (childNode.componentInstance) {
      childNode = childNode.componentInstance._vnode;
      if (
        childNode && childNode.data &&
        (styleData = normalizeStyleData(childNode.data))
      ) {
        extend(res, styleData);
      }
    }
  }
```

```
  if ((styleData = normalizeStyleData(vnode.data))) {
    extend(res, styleData);
  }

  var parentNode = vnode;
  while ((parentNode = parentNode.parent)) {
    if (parentNode.data && (styleData = normalizeStyleData(parentNode.data))) {
      extend(res, styleData);
    }
  }
  return res
}

/*  */

var cssVarRE = /^--/;
var importantRE = /\s*!important$/;
var setProp = function (el, name, val) {
  /* istanbul ignore if */
  if (cssVarRE.test(name)) {
    el.style.setProperty(name, val);
  } else if (importantRE.test(val)) {
    el.style.setProperty(name, val.replace(importantRE, ''), 'important');
  } else {
    var normalizedName = normalize(name);
    if (Array.isArray(val)) {
      // Support values array created by autoprefixer, e.g.
      // {display: ["-webkit-box", "-ms-flexbox", "flex"]}
      // Set them one by one, and the browser will only set those it can recognize
      for (var i = 0, len = val.length; i < len; i++) {
        el.style[normalizedName] = val[i];
      }
    } else {
      el.style[normalizedName] = val;
    }
  }
};

var vendorNames = ['Webkit', 'Moz', 'ms'];

var emptyStyle;
var normalize = cached(function (prop) {
  emptyStyle = emptyStyle || document.createElement('div').style;
  prop = camelize(prop);
  if (prop !== 'filter' && (prop in emptyStyle)) {
```

```
    return prop
  }
  var capName = prop.charAt(0).toUpperCase() + prop.slice(1);
  for (var i = 0; i < vendorNames.length; i++) {
    var name = vendorNames[i] + capName;
    if (name in emptyStyle) {
      return name
    }
  }
});

function updateStyle (oldVnode, vnode) {
  var data = vnode.data;
  var oldData = oldVnode.data;

  if (isUndef(data.staticStyle) && isUndef(data.style) &&
    isUndef(oldData.staticStyle) && isUndef(oldData.style)
  ) {
    return
  }

  var cur, name;
  var el = vnode.elm;
  var oldStaticStyle = oldData.staticStyle;
  var oldStyleBinding = oldData.normalizedStyle || oldData.style || {};

  // if static style exists, stylebinding already merged into it when doing normalizeStyleData
  var oldStyle = oldStaticStyle || oldStyleBinding;

  var style = normalizeStyleBinding(vnode.data.style) || {};

  // store normalized style under a different key for next diff
  // make sure to clone it if it's reactive, since the user likely wants
  // to mutate it.
  vnode.data.normalizedStyle = isDef(style.__ob__)
    ? extend({}, style)
    : style;

  var newStyle = getStyle(vnode, true);

  for (name in oldStyle) {
    if (isUndef(newStyle[name])) {
      setProp(el, name, '');
    }
  }
  for (name in newStyle) {
```

```
    cur = newStyle[name];
    if (cur !== oldStyle[name]) {
      // ie9 setting to null has no effect, must use empty string
      setProp(el, name, cur == null ? '' : cur);
    }
  }
}

var style = {
  create: updateStyle,
  update: updateStyle
};

/*  */

/**
 * Add class with compatibility for SVG since classList is not supported on
 * SVG elements in IE
 */
function addClass (el, cls) {
  /* istanbul ignore if */
  if (!cls || !(cls = cls.trim())) {
    return
  }

  /* istanbul ignore else */
  if (el.classList) {
    if (cls.indexOf(' ') > -1) {
      cls.split(/\s+/).forEach(function (c) { return el.classList.add(c); });
    } else {
      el.classList.add(cls);
    }
  } else {
    var cur = ' ' + (el.getAttribute('class') || '') + ' ';
    if (cur.indexOf(' ' + cls + ' ') < 0) {
      el.setAttribute('class', (cur + cls).trim());
    }
  }
}

/**
 * Remove class with compatibility for SVG since classList is not supported on
 * SVG elements in IE
 */
function removeClass (el, cls) {
  /* istanbul ignore if */
```

```
  if (!cls || !(cls = cls.trim())) {
    return
  }

  /* istanbul ignore else */
  if (el.classList) {
    if (cls.indexOf(' ') > -1) {
      cls.split(/\s+/).forEach(function (c) { return el.classList.remove(c); });
    } else {
      el.classList.remove(cls);
    }
    if (!el.classList.length) {
      el.removeAttribute('class');
    }
  } else {
    var cur = " " + (el.getAttribute('class') || '') + " ";
    var tar = ' ' + cls + ' ';
    while (cur.indexOf(tar) >= 0) {
      cur = cur.replace(tar, ' ');
    }
    cur = cur.trim();
    if (cur) {
      el.setAttribute('class', cur);
    } else {
      el.removeAttribute('class');
    }
  }
}

/*  */

function resolveTransition (def) {
  if (!def) {
    return
  }
  /* istanbul ignore else */
  if (typeof def === 'object') {
    var res = {};
    if (def.css !== false) {
      extend(res, autoCssTransition(def.name || 'v'));
    }
    extend(res, def);
    return res
  } else if (typeof def === 'string') {
    return autoCssTransition(def)
  }
```

```
}

var autoCssTransition = cached(function (name) {
  return {
    enterClass: (name + "-enter"),
    enterToClass: (name + "-enter-to"),
    enterActiveClass: (name + "-enter-active"),
    leaveClass: (name + "-leave"),
    leaveToClass: (name + "-leave-to"),
    leaveActiveClass: (name + "-leave-active")
  }
});

var hasTransition = inBrowser && !isIE9;
var TRANSITION = 'transition';
var ANIMATION = 'animation';

// Transition property/event sniffing
var transitionProp = 'transition';
var transitionEndEvent = 'transitionend';
var animationProp = 'animation';
var animationEndEvent = 'animationend';
if (hasTransition) {
  /* istanbul ignore if */
  if (window.ontransitionend === undefined &&
    window.onwebkittransitionend !== undefined
  ) {
    transitionProp = 'WebkitTransition';
    transitionEndEvent = 'webkitTransitionEnd';
  }
  if (window.onanimationend === undefined &&
    window.onwebkitanimationend !== undefined
  ) {
    animationProp = 'WebkitAnimation';
    animationEndEvent = 'webkitAnimationEnd';
  }
}

// binding to window is necessary to make hot reload work in IE in strict mode
var raf = inBrowser
  ? window.requestAnimationFrame
    ? window.requestAnimationFrame.bind(window)
    : setTimeout
  : /* istanbul ignore next */ function (fn) { return fn(); };

function nextFrame (fn) {
```

```
  raf(function () {
    raf(fn);
  });
}

function addTransitionClass (el, cls) {
  var transitionClasses = el._transitionClasses || (el._transitionClasses = []);
  if (transitionClasses.indexOf(cls) < 0) {
    transitionClasses.push(cls);
    addClass(el, cls);
  }
}

function removeTransitionClass (el, cls) {
  if (el._transitionClasses) {
    remove(el._transitionClasses, cls);
  }
  removeClass(el, cls);
}

function whenTransitionEnds (
  el,
  expectedType,
  cb
) {
  var ref = getTransitionInfo(el, expectedType);
  var type = ref.type;
  var timeout = ref.timeout;
  var propCount = ref.propCount;
  if (!type) { return cb() }
  var event = type === TRANSITION ? transitionEndEvent : animationEndEvent;
  var ended = 0;
  var end = function () {
    el.removeEventListener(event, onEnd);
    cb();
  };
  var onEnd = function (e) {
    if (e.target === el) {
      if (++ended >= propCount) {
        end();
      }
    }
  };
  setTimeout(function () {
    if (ended < propCount) {
      end();
```

```
    }
  }, timeout + 1);
  el.addEventListener(event, onEnd);
}

var transformRE = /\b(transform|all)(,|$)/;

function getTransitionInfo (el, expectedType) {
  var styles = window.getComputedStyle(el);
  var transitionDelays = styles[transitionProp + 'Delay'].split(', ');
  var transitionDurations = styles[transitionProp + 'Duration'].split(', ');
  var transitionTimeout = getTimeout(transitionDelays, transitionDurations);
  var animationDelays = styles[animationProp + 'Delay'].split(', ');
  var animationDurations = styles[animationProp + 'Duration'].split(', ');
  var animationTimeout = getTimeout(animationDelays, animationDurations);

  var type;
  var timeout = 0;
  var propCount = 0;
  /* istanbul ignore if */
  if (expectedType === TRANSITION) {
    if (transitionTimeout > 0) {
      type = TRANSITION;
      timeout = transitionTimeout;
      propCount = transitionDurations.length;
    }
  } else if (expectedType === ANIMATION) {
    if (animationTimeout > 0) {
      type = ANIMATION;
      timeout = animationTimeout;
      propCount = animationDurations.length;
    }
  } else {
    timeout = Math.max(transitionTimeout, animationTimeout);
    type = timeout > 0
      ? transitionTimeout > animationTimeout
        ? TRANSITION
        : ANIMATION
      : null;
    propCount = type
      ? type === TRANSITION
        ? transitionDurations.length
        : animationDurations.length
      : 0;
  }
  var hasTransform =
```

```
    type === TRANSITION &&
    transformRE.test(styles[transitionProp + 'Property']);
  return {
    type: type,
    timeout: timeout,
    propCount: propCount,
    hasTransform: hasTransform
  }
}

function getTimeout (delays, durations) {
  /* istanbul ignore next */
  while (delays.length < durations.length) {
    delays = delays.concat(delays);
  }

  return Math.max.apply(null, durations.map(function (d, i) {
    return toMs(d) + toMs(delays[i])
  }))
}

function toMs (s) {
  return Number(s.slice(0, -1)) * 1000
}

/*  */

function enter (vnode, toggleDisplay) {
  var el = vnode.elm;

  // call leave callback now
  if (isDef(el._leaveCb)) {
    el._leaveCb.cancelled = true;
    el._leaveCb();
  }

  var data = resolveTransition(vnode.data.transition);
  if (isUndef(data)) {
    return
  }

  /* istanbul ignore if */
  if (isDef(el._enterCb) || el.nodeType !== 1) {
    return
  }
```

```
var css = data.css;
var type = data.type;
var enterClass = data.enterClass;
var enterToClass = data.enterToClass;
var enterActiveClass = data.enterActiveClass;
var appearClass = data.appearClass;
var appearToClass = data.appearToClass;
var appearActiveClass = data.appearActiveClass;
var beforeEnter = data.beforeEnter;
var enter = data.enter;
var afterEnter = data.afterEnter;
var enterCancelled = data.enterCancelled;
var beforeAppear = data.beforeAppear;
var appear = data.appear;
var afterAppear = data.afterAppear;
var appearCancelled = data.appearCancelled;
var duration = data.duration;

// activeInstance will always be the <transition> component managing this
// transition. One edge case to check is when the <transition> is placed
// as the root node of a child component. In that case we need to check
// <transition>'s parent for appear check.
var context = activeInstance;
var transitionNode = activeInstance.$vnode;
while (transitionNode && transitionNode.parent) {
  transitionNode = transitionNode.parent;
  context = transitionNode.context;
}

var isAppear = !context._isMounted || !vnode.isRootInsert;

if (isAppear && !appear && appear !== '') {
  return
}

var startClass = isAppear && appearClass
  ? appearClass
  : enterClass;
var activeClass = isAppear && appearActiveClass
  ? appearActiveClass
  : enterActiveClass;
var toClass = isAppear && appearToClass
  ? appearToClass
  : enterToClass;

var beforeEnterHook = isAppear
```

```
  ? (beforeAppear || beforeEnter)
  : beforeEnter;
var enterHook = isAppear
  ? (typeof appear === 'function' ? appear : enter)
  : enter;
var afterEnterHook = isAppear
  ? (afterAppear || afterEnter)
  : afterEnter;
var enterCancelledHook = isAppear
  ? (appearCancelled || enterCancelled)
  : enterCancelled;

var explicitEnterDuration = toNumber(
  isObject(duration)
    ? duration.enter
    : duration
);

if (process.env.NODE_ENV !== 'production' && explicitEnterDuration != null) {
  checkDuration(explicitEnterDuration, 'enter', vnode);
}

var expectsCSS = css !== false && !isIE9;
var userWantsControl = getHookArgumentsLength(enterHook);

var cb = el._enterCb = once$1(function () {
  if (expectsCSS) {
    removeTransitionClass(el, toClass);
    removeTransitionClass(el, activeClass);
  }
  if (cb.cancelled) {
    if (expectsCSS) {
      removeTransitionClass(el, startClass);
    }
    enterCancelledHook && enterCancelledHook(el);
  } else {
    afterEnterHook && afterEnterHook(el);
  }
  el._enterCb = null;
});

if (!vnode.data.show) {
  // remove pending leave element on enter by injecting an insert hook
  mergeVNodeHook(vnode, 'insert', function () {
    var parent = el.parentNode;
    var pendingNode = parent && parent._pending && parent._pending[vnode.key];
```

```
    if (pendingNode &&
      pendingNode.tag === vnode.tag &&
      pendingNode.elm._leaveCb
    ) {
      pendingNode.elm._leaveCb();
    }
    enterHook && enterHook(el, cb);
  });
 }

 // start enter transition
 beforeEnterHook && beforeEnterHook(el);
 if (expectsCSS) {
  addTransitionClass(el, startClass);
  addTransitionClass(el, activeClass);
  nextFrame(function () {
   addTransitionClass(el, toClass);
   removeTransitionClass(el, startClass);
   if (!cb.cancelled && !userWantsControl) {
    if (isValidDuration(explicitEnterDuration)) {
     setTimeout(cb, explicitEnterDuration);
    } else {
     whenTransitionEnds(el, type, cb);
    }
   }
  });
 }

 if (vnode.data.show) {
  toggleDisplay && toggleDisplay();
  enterHook && enterHook(el, cb);
 }

 if (!expectsCSS && !userWantsControl) {
  cb();
 }
}

function leave (vnode, rm) {
 var el = vnode.elm;

 // call enter callback now
 if (isDef(el._enterCb)) {
  el._enterCb.cancelled = true;
  el._enterCb();
 }
```

```
var data = resolveTransition(vnode.data.transition);
if (isUndef(data) || el.nodeType !== 1) {
  return rm()
}

/* istanbul ignore if */
if (isDef(el._leaveCb)) {
  return
}

var css = data.css;
var type = data.type;
var leaveClass = data.leaveClass;
var leaveToClass = data.leaveToClass;
var leaveActiveClass = data.leaveActiveClass;
var beforeLeave = data.beforeLeave;
var leave = data.leave;
var afterLeave = data.afterLeave;
var leaveCancelled = data.leaveCancelled;
var delayLeave = data.delayLeave;
var duration = data.duration;

var expectsCSS = css !== false && !isIE9;
var userWantsControl = getHookArgumentsLength(leave);

var explicitLeaveDuration = toNumber(
  isObject(duration)
    ? duration.leave
    : duration
);

if (process.env.NODE_ENV !== 'production' && isDef(explicitLeaveDuration)) {
  checkDuration(explicitLeaveDuration, 'leave', vnode);
}

var cb = el._leaveCb = once$1(function () {
  if (el.parentNode && el.parentNode._pending) {
    el.parentNode._pending[vnode.key] = null;
  }
  if (expectsCSS) {
    removeTransitionClass(el, leaveToClass);
    removeTransitionClass(el, leaveActiveClass);
  }
  if (cb.cancelled) {
    if (expectsCSS) {
```

```
      removeTransitionClass(el, leaveClass);
    }
    leaveCancelled && leaveCancelled(el);
  } else {
    rm();
    afterLeave && afterLeave(el);
  }
  el._leaveCb = null;
});

if (delayLeave) {
  delayLeave(performLeave);
} else {
  performLeave();
}

function performLeave () {
  // the delayed leave may have already been cancelled
  if (cb.cancelled) {
    return
  }
  // record leaving element
  if (!vnode.data.show) {
    (el.parentNode._pending || (el.parentNode._pending = {}))[(vnode.key)] = vnode;
  }
  beforeLeave && beforeLeave(el);
  if (expectsCSS) {
    addTransitionClass(el, leaveClass);
    addTransitionClass(el, leaveActiveClass);
    nextFrame(function () {
      addTransitionClass(el, leaveToClass);
      removeTransitionClass(el, leaveClass);
      if (!cb.cancelled && !userWantsControl) {
        if (isValidDuration(explicitLeaveDuration)) {
          setTimeout(cb, explicitLeaveDuration);
        } else {
          whenTransitionEnds(el, type, cb);
        }
      }
    });
  }
  leave && leave(el, cb);
  if (!expectsCSS && !userWantsControl) {
    cb();
  }
}
```

```
}

// only used in dev mode
function checkDuration (val, name, vnode) {
  if (typeof val !== 'number') {
    warn(
      "<transition> explicit " + name + " duration is not a valid number - " +
      "got " + (JSON.stringify(val)) + ".",
      vnode.context
    );
  } else if (isNaN(val)) {
    warn(
      "<transition> explicit " + name + " duration is NaN - " +
      'the duration expression might be incorrect.',
      vnode.context
    );
  }
}

function isValidDuration (val) {
  return typeof val === 'number' && !isNaN(val)
}

/**
 * Normalize a transition hook's argument length. The hook may be:
 * - a merged hook (invoker) with the original in .fns
 * - a wrapped component method (check ._length)
 * - a plain function (.length)
 */
function getHookArgumentsLength (fn) {
  if (isUndef(fn)) {
    return false
  }
  var invokerFns = fn.fns;
  if (isDef(invokerFns)) {
    // invoker
    return getHookArgumentsLength(
      Array.isArray(invokerFns)
        ? invokerFns[0]
        : invokerFns
    )
  } else {
    return (fn._length || fn.length) > 1
  }
}
```

```
function _enter (_, vnode) {
  if (vnode.data.show !== true) {
    enter(vnode);
  }
}

var transition = inBrowser ? {
  create: _enter,
  activate: _enter,
  remove: function remove$$1 (vnode, rm) {
    /* istanbul ignore else */
    if (vnode.data.show !== true) {
      leave(vnode, rm);
    } else {
      rm();
    }
  }
} : {};

var platformModules = [
  attrs,
  klass,
  events,
  domProps,
  style,
  transition
];

/*  */

// the directive module should be applied last, after all
// built-in modules have been applied.
var modules$1 = platformModules.concat(baseModules);

var patch = createPatchFunction({ nodeOps: nodeOps, modules: modules$1 });

/**
 * Not type checking this file because flow doesn't like attaching
 * properties to Elements.
 */

/* istanbul ignore if */
if (isIE9) {
  // http://www.matts411.com/post/internet-explorer-9-oninput/
  document.addEventListener('selectionchange', function () {
    var el = document.activeElement;
```

```
    if (el && el.vmodel) {
      trigger(el, 'input');
    }
  });
}

var directive = {
  inserted: function inserted (el, binding$$1, vnode, oldVnode) {
    if (vnode.tag === 'select') {
      // #6903
      if (oldVnode.elm && !oldVnode.elm._vOptions) {
        mergeVNodeHook(vnode, 'postpatch', function () {
          directive.componentUpdated(el, binding$$1, vnode);
        });
      } else {
        setSelected(el, binding$$1, vnode.context);
      }
      el._vOptions = [].map.call(el.options, getValue);
    } else if (vnode.tag === 'textarea' || isTextInputType(el.type)) {
      el._vModifiers = binding$$1.modifiers;
      if (!binding$$1.modifiers.lazy) {
        // Safari < 10.2 & UIWebView doesn't fire compositionend when
        // switching focus before confirming composition choice
        // this also fixes the issue where some browsers e.g. iOS Chrome
        // fires "change" instead of "input" on autocomplete.
        el.addEventListener('change', onCompositionEnd);
        if (!isAndroid) {
          el.addEventListener('compositionstart', onCompositionStart);
          el.addEventListener('compositionend', onCompositionEnd);
        }
        /* istanbul ignore if */
        if (isIE9) {
          el.vmodel = true;
        }
      }
    }
  },

  componentUpdated: function componentUpdated (el, binding$$1, vnode) {
    if (vnode.tag === 'select') {
      setSelected(el, binding$$1, vnode.context);
      // in case the options rendered by v-for have changed,
      // it's possible that the value is out-of-sync with the rendered options.
      // detect such cases and filter out values that no longer has a matching
      // option in the DOM.
      var prevOptions = el._vOptions;
```

```
    var curOptions = el._vOptions = [].map.call(el.options, getValue);
    if (curOptions.some(function (o, i) { return !looseEqual(o, prevOptions[i]); })) {
      // trigger change event if
      // no matching option found for at least one value
      var needReset = el.multiple
        ? binding$$1.value.some(function (v) { return hasNoMatchingOption(v, curOptions); })
        : binding$$1.value !== binding$$1.oldValue &&
          hasNoMatchingOption(binding$$1.value, curOptions);
      if (needReset) {
        trigger(el, 'change');
      }
    }
  }
};

function setSelected (el, binding$$1, vm) {
  actuallySetSelected(el, binding$$1, vm);
  /* istanbul ignore if */
  if (isIE || isEdge) {
    setTimeout(function () {
      actuallySetSelected(el, binding$$1, vm);
    }, 0);
  }
}

function actuallySetSelected (el, binding$$1, vm) {
  var value = binding$$1.value;
  var isMultiple = el.multiple;
  if (isMultiple && !Array.isArray(value)) {
    process.env.NODE_ENV !== 'production' && warn(
      "<select multiple v-model=\"" + (binding$$1.expression) + "\"> " +
      "expects an Array value for its binding, but got " +
          (Object.prototype.toString.call(value).slice(8, -1)),
      vm
    );
    return
  }
  var selected, option;
  for (var i = 0, l = el.options.length; i < l; i++) {
    option = el.options[i];
    if (isMultiple) {
      selected = looseIndexOf(value, getValue(option)) > -1;
      if (option.selected !== selected) {
        option.selected = selected;
      }
```

```
    } else {
      if (looseEqual(getValue(option), value)) {
        if (el.selectedIndex !== i) {
          el.selectedIndex = i;
        }
        return
      }
    }
  }
  if (!isMultiple) {
    el.selectedIndex = -1;
  }
}

function hasNoMatchingOption (value, options) {
  return options.every(function (o) { return !looseEqual(o, value); })
}

function getValue (option) {
  return '_value' in option
    ? option._value
    : option.value
}

function onCompositionStart (e) {
  e.target.composing = true;
}

function onCompositionEnd (e) {
  // prevent triggering an input event for no reason
  if (!e.target.composing) { return }
  e.target.composing = false;
  trigger(e.target, 'input');
}

function trigger (el, type) {
  var e = document.createEvent('HTMLEvents');
  e.initEvent(type, true, true);
  el.dispatchEvent(e);
}

/*  */

// recursively search for possible transition defined inside the component root
function locateNode (vnode) {
  return vnode.componentInstance && (!vnode.data || !vnode.data.transition)
```

```
    ? locateNode(vnode.componentInstance._vnode)
    : vnode
}

var show = {
  bind: function bind (el, ref, vnode) {
    var value = ref.value;

    vnode = locateNode(vnode);
    var transition$$1 = vnode.data && vnode.data.transition;
    var originalDisplay = el.__vOriginalDisplay =
      el.style.display === 'none' ? '' : el.style.display;
    if (value && transition$$1) {
      vnode.data.show = true;
      enter(vnode, function () {
        el.style.display = originalDisplay;
      });
    } else {
      el.style.display = value ? originalDisplay : 'none';
    }
  },

  update: function update (el, ref, vnode) {
    var value = ref.value;
    var oldValue = ref.oldValue;

    /* istanbul ignore if */
    if (value === oldValue) { return }
    vnode = locateNode(vnode);
    var transition$$1 = vnode.data && vnode.data.transition;
    if (transition$$1) {
      vnode.data.show = true;
      if (value) {
        enter(vnode, function () {
          el.style.display = el.__vOriginalDisplay;
        });
      } else {
        leave(vnode, function () {
          el.style.display = 'none';
        });
      }
    } else {
      el.style.display = value ? el.__vOriginalDisplay : 'none';
    }
  },
```

```
  unbind: function unbind (
    el,
    binding$$1,
    vnode,
    oldVnode,
    isDestroy
  ) {
    if (!isDestroy) {
      el.style.display = el.__vOriginalDisplay;
    }
  }
};

var platformDirectives = {
  model: directive,
  show: show
};

/*  */

// Provides transition support for a single element/component.
// supports transition mode (out-in / in-out)

var transitionProps = {
  name: String,
  appear: Boolean,
  css: Boolean,
  mode: String,
  type: String,
  enterClass: String,
  leaveClass: String,
  enterToClass: String,
  leaveToClass: String,
  enterActiveClass: String,
  leaveActiveClass: String,
  appearClass: String,
  appearActiveClass: String,
  appearToClass: String,
  duration: [Number, String, Object]
};

// in case the child is also an abstract component, e.g. <keep-alive>
// we want to recursively retrieve the real component to be rendered
function getRealChild (vnode) {
  var compOptions = vnode && vnode.componentOptions;
  if (compOptions && compOptions.Ctor.options.abstract) {
```

```
    return getRealChild(getFirstComponentChild(compOptions.children))
  } else {
    return vnode
  }
}

function extractTransitionData (comp) {
  var data = {};
  var options = comp.$options;
  // props
  for (var key in options.propsData) {
    data[key] = comp[key];
  }
  // events.
  // extract listeners and pass them directly to the transition methods
  var listeners = options._parentListeners;
  for (var key$1 in listeners) {
    data[camelize(key$1)] = listeners[key$1];
  }
  return data
}

function placeholder (h, rawChild) {
  if (/\d-keep-alive$/.test(rawChild.tag)) {
    return h('keep-alive', {
      props: rawChild.componentOptions.propsData
    })
  }
}

function hasParentTransition (vnode) {
  while ((vnode = vnode.parent)) {
    if (vnode.data.transition) {
      return true
    }
  }
}

function isSameChild (child, oldChild) {
  return oldChild.key === child.key && oldChild.tag === child.tag
}

var Transition = {
  name: 'transition',
  props: transitionProps,
  abstract: true,
```

```
render: function render (h) {
  var this$1 = this;

  var children = this.$slots.default;
  if (!children) {
    return
  }

  // filter out text nodes (possible whitespaces)
  children = children.filter(function (c) { return c.tag || isAsyncPlaceholder(c); });
  /* istanbul ignore if */
  if (!children.length) {
    return
  }

  // warn multiple elements
  if (process.env.NODE_ENV !== 'production' && children.length > 1) {
    warn(
      '<transition> can only be used on a single element. Use ' +
      '<transition-group> for lists.',
      this.$parent
    );
  }

  var mode = this.mode;

  // warn invalid mode
  if (process.env.NODE_ENV !== 'production' &&
    mode && mode !== 'in-out' && mode !== 'out-in'
  ) {
    warn(
      'invalid <transition> mode: ' + mode,
      this.$parent
    );
  }

  var rawChild = children[0];

  // if this is a component root node and the component's
  // parent container node also has transition, skip.
  if (hasParentTransition(this.$vnode)) {
    return rawChild
  }

  // apply transition data to child
```

```
// use getRealChild() to ignore abstract components e.g. keep-alive
var child = getRealChild(rawChild);
/* istanbul ignore if */
if (!child) {
  return rawChild
}

if (this._leaving) {
  return placeholder(h, rawChild)
}

// ensure a key that is unique to the vnode type and to this transition
// component instance. This key will be used to remove pending leaving nodes
// during entering.
var id = "__transition-" + (this._uid) + "-";
child.key = child.key == null
  ? child.isComment
    ? id + 'comment'
    : id + child.tag
  : isPrimitive(child.key)
    ? (String(child.key).indexOf(id) === 0 ? child.key : id + child.key)
    : child.key;

var data = (child.data || (child.data = {})).transition = extractTransitionData(this);
var oldRawChild = this._vnode;
var oldChild = getRealChild(oldRawChild);

// mark v-show
// so that the transition module can hand over the control to the directive
if (child.data.directives && child.data.directives.some(function (d) { return d.name ===
       'show'; })) {
  child.data.show = true;
}

if (
  oldChild &&
  oldChild.data &&
  !isSameChild(child, oldChild) &&
  !isAsyncPlaceholder(oldChild) &&
  // #6687 component root is a comment node
  !(oldChild.componentInstance && oldChild.componentInstance._vnode.isComment)
) {
  // replace old child transition data with fresh one
  // important for dynamic transitions!
  var oldData = oldChild.data.transition = extend({}, data);
  // handle transition mode
```

```
      if (mode === 'out-in') {
        // return placeholder node and queue update when leave finishes
        this._leaving = true;
        mergeVNodeHook(oldData, 'afterLeave', function () {
          this$1._leaving = false;
          this$1.$forceUpdate();
        });
        return placeholder(h, rawChild)
      } else if (mode === 'in-out') {
        if (isAsyncPlaceholder(child)) {
          return oldRawChild
        }
        var delayedLeave;
        var performLeave = function () { delayedLeave(); };
        mergeVNodeHook(data, 'afterEnter', performLeave);
        mergeVNodeHook(data, 'enterCancelled', performLeave);
        mergeVNodeHook(oldData, 'delayLeave', function (leave) { delayedLeave = leave; });
      }
    }

    return rawChild
  }
};

/*  */

// Provides transition support for list items.
// supports move transitions using the FLIP technique.

// Because the vdom's children update algorithm is "unstable" - i.e.
// it doesn't guarantee the relative positioning of removed elements,
// we force transition-group to update its children into two passes:
// in the first pass, we remove all nodes that need to be removed,
// triggering their leaving transition; in the second pass, we insert/move
// into the final desired state. This way in the second pass removed
// nodes will remain where they should be.

var props = extend({
  tag: String,
  moveClass: String
}, transitionProps);

delete props.mode;

var TransitionGroup = {
  props: props,
```

```
render: function render (h) {
  var tag = this.tag || this.$vnode.data.tag || 'span';
  var map = Object.create(null);
  var prevChildren = this.prevChildren = this.children;
  var rawChildren = this.$slots.default || [];
  var children = this.children = [];
  var transitionData = extractTransitionData(this);

  for (var i = 0; i < rawChildren.length; i++) {
    var c = rawChildren[i];
    if (c.tag) {
      if (c.key != null && String(c.key).indexOf('__vlist') !== 0) {
        children.push(c);
        map[c.key] = c
        ;(c.data || (c.data = {})).transition = transitionData;
      } else if (process.env.NODE_ENV !== 'production') {
        var opts = c.componentOptions;
        var name = opts ? (opts.Ctor.options.name || opts.tag || '') : c.tag;
        warn(("<transition-group> children must be keyed: <" + name + ">"));
      }
    }
  }

  if (prevChildren) {
    var kept = [];
    var removed = [];
    for (var i$1 = 0; i$1 < prevChildren.length; i$1++) {
      var c$1 = prevChildren[i$1];
      c$1.data.transition = transitionData;
      c$1.data.pos = c$1.elm.getBoundingClientRect();
      if (map[c$1.key]) {
        kept.push(c$1);
      } else {
        removed.push(c$1);
      }
    }
    this.kept = h(tag, null, kept);
    this.removed = removed;
  }

  return h(tag, null, children)
},

beforeUpdate: function beforeUpdate () {
  // force removing pass
```

```
  this.__patch__(
    this._vnode,
    this.kept,
    false, // hydrating
    true // removeOnly (!important avoids unnecessary moves)
  );
  this._vnode = this.kept;
},

updated: function updated () {
  var children = this.prevChildren;
  var moveClass = this.moveClass || ((this.name || 'v') + '-move');
  if (!children.length || !this.hasMove(children[0].elm, moveClass)) {
    return
  }

  // we divide the work into three loops to avoid mixing DOM reads and writes
  // in each iteration - which helps prevent layout thrashing.
  children.forEach(callPendingCbs);
  children.forEach(recordPosition);
  children.forEach(applyTranslation);

  // force reflow to put everything in position
  // assign to this to avoid being removed in tree-shaking
  // $flow-disable-line
  this._reflow = document.body.offsetHeight;

  children.forEach(function (c) {
    if (c.data.moved) {
      var el = c.elm;
      var s = el.style;
      addTransitionClass(el, moveClass);
      s.transform = s.WebkitTransform = s.transitionDuration = '';
      el.addEventListener(transitionEndEvent, el._moveCb = function cb (e) {
        if (!e || /transform$/.test(e.propertyName)) {
          el.removeEventListener(transitionEndEvent, cb);
          el._moveCb = null;
          removeTransitionClass(el, moveClass);
        }
      });
    }
  });
},

methods: {
  hasMove: function hasMove (el, moveClass) {
```

```
      /* istanbul ignore if */
      if (!hasTransition) {
        return false
      }
      /* istanbul ignore if */
      if (this._hasMove) {
        return this._hasMove
      }
      // Detect whether an element with the move class applied has
      // CSS transitions. Since the element may be inside an entering
      // transition at this very moment, we make a clone of it and remove
      // all other transition classes applied to ensure only the move class
      // is applied.
      var clone = el.cloneNode();
      if (el._transitionClasses) {
        el._transitionClasses.forEach(function (cls) { removeClass(clone, cls); });
      }
      addClass(clone, moveClass);
      clone.style.display = 'none';
      this.$el.appendChild(clone);
      var info = getTransitionInfo(clone);
      this.$el.removeChild(clone);
      return (this._hasMove = info.hasTransform)
    }
  }
};

function callPendingCbs (c) {
  /* istanbul ignore if */
  if (c.elm._moveCb) {
    c.elm._moveCb();
  }
  /* istanbul ignore if */
  if (c.elm._enterCb) {
    c.elm._enterCb();
  }
}

function recordPosition (c) {
  c.data.newPos = c.elm.getBoundingClientRect();
}

function applyTranslation (c) {
  var oldPos = c.data.pos;
  var newPos = c.data.newPos;
  var dx = oldPos.left - newPos.left;
```

```
  var dy = oldPos.top - newPos.top;
  if (dx || dy) {
    c.data.moved = true;
    var s = c.elm.style;
    s.transform = s.WebkitTransform = "translate(" + dx + "px," + dy + "px)";
    s.transitionDuration = '0s';
  }
}

var platformComponents = {
  Transition: Transition,
  TransitionGroup: TransitionGroup
};

/*  */

// install platform specific utils
Vue$3.config.mustUseProp = mustUseProp;
Vue$3.config.isReservedTag = isReservedTag;
Vue$3.config.isReservedAttr = isReservedAttr;
Vue$3.config.getTagNamespace = getTagNamespace;
Vue$3.config.isUnknownElement = isUnknownElement;

// install platform runtime directives & components
extend(Vue$3.options.directives, platformDirectives);
extend(Vue$3.options.components, platformComponents);

// install platform patch function
Vue$3.prototype.__patch__ = inBrowser ? patch : noop$1;

// public mount method
Vue$3.prototype.$mount = function (
  el,
  hydrating
) {
  el = el && inBrowser ? query(el) : undefined;
  return mountComponent(this, el, hydrating)
};

// devtools global hook
/* istanbul ignore next */
Vue$3.nextTick(function () {
  if (config$1.devtools) {
    if (devtools) {
      devtools.emit('init', Vue$3);
    } else if (process.env.NODE_ENV !== 'production' && isChrome) {
```

```
    console[console.info ? 'info' : 'log'](
      'Download the Vue Devtools extension for a better development experience:\n' +
      'https://github.com/vuejs/vue-devtools'
    );
   }
  }
  if (process.env.NODE_ENV !== 'production' &&
   config$1.productionTip !== false &&
   inBrowser && typeof console !== 'undefined'
  ) {
   console[console.info ? 'info' : 'log'](
    "You are running Vue in development mode.\n" +
    "Make sure to turn on production mode when deploying for production.\n" +
    "See more tips at https://vuejs.org/guide/deployment.html"
   );
  }
}, 0);

var vue_runtime_esm = /*#__PURE__*/Object.freeze({
default: Vue$3
});

var commonjsGlobal = typeof window !== 'undefined' ? window : typeof global !==
        'undefined' ? global : typeof self !== 'undefined' ? self : {};

function unwrapExports (x) {
        return x && x.__esModule && Object.prototype.hasOwnProperty.call(x, 'default') ?
        x['default'] : x;
}

function createCommonjsModule(fn, module) {
        return module = { exports: {} }, fn(module, module.exports), module.exports;
}

var require$$0 = ( vue_runtime_esm && Vue$3 ) || vue_runtime_esm;

var vueMaterial = createCommonjsModule(function (module, exports) {
/*!
 * vue-material v1.0.0-beta-7
 * Made with <3 by marcosmoura 2017
 * Released under the MIT License.
 */
(function webpackUniversalModuleDefinition(root, factory) {
        { module.exports = factory(require$$0); }
})(commonjsGlobal, function(__WEBPACK_EXTERNAL_MODULE_7__) {
return /******/ (function(modules) { // webpackBootstrap
```

```
/******/ 	// The module cache
/******/ 	var installedModules = {};
/******/
/******/ 	// The require function
/******/ 	function __webpack_require__(moduleId) {
/******/
/******/ 		// Check if module is in cache
/******/ 		if(installedModules[moduleId]) {
/******/ 			return installedModules[moduleId].exports;
/******/ 		}
/******/ 		// Create a new module (and put it into the cache)
/******/ 		var module = installedModules[moduleId] = {
/******/ 			i: moduleId,
/******/ 			l: false,
/******/ 			exports: {}
/******/ 		};
/******/
/******/ 		// Execute the module function
/******/ 		modules[moduleId].call(module.exports, module, module.exports,
    __webpack_require__);
/******/
/******/ 		// Flag the module as loaded
/******/ 		module.l = true;
/******/
/******/ 		// Return the exports of the module
/******/ 		return module.exports;
/******/ 	}
/******/
/******/
/******/ 	// expose the modules object (__webpack_modules__)
/******/ 	__webpack_require__.m = modules;
/******/
/******/ 	// expose the module cache
/******/ 	__webpack_require__.c = installedModules;
/******/
/******/ 	// define getter function for harmony exports
/******/ 	__webpack_require__.d = function(exports, name, getter) {
/******/ 		if(!__webpack_require__.o(exports, name)) {
/******/ 			Object.defineProperty(exports, name, {
/******/ 				configurable: false,
/******/ 				enumerable: true,
/******/ 				get: getter
/******/ 			});
/******/ 		}
/******/ 	};
/******/
```

```
/******/ 	// getDefaultExport function for compatibility with non-harmony modules
/******/ 	__webpack_require__.n = function(module) {
/******/ 		var getter = module && module.__esModule ?
/******/ 			function getDefault() { return module['default']; } :
/******/ 			function getModuleExports() { return module; };
/******/ 		__webpack_require__.d(getter, 'a', getter);
/******/ 		return getter;
/******/ 	};
/******/
/******/ 	// Object.prototype.hasOwnProperty.call
/******/ 	__webpack_require__.o = function(object, property) { return
        Object.prototype.hasOwnProperty.call(object, property); };
/******/
/******/ 	// __webpack_public_path__
/******/ 	__webpack_require__.p = "";
/******/
/******/ 	// Load entry module and return exports
/******/ 	return __webpack_require__(__webpack_require__.s = 54);
/******/ })
/************************************************************************/
/******/ ([
/* 0 */
/***/ (function(module, exports) {

/* globals __VUE_SSR_CONTEXT__ */

// IMPORTANT: Do NOT use ES2015 features in this file.
// This module is a runtime utility for cleaner component module output and will
// be included in the final webpack user bundle.

module.exports = function normalizeComponent (
  rawScriptExports,
  compiledTemplate,
  functionalTemplate,
  injectStyles,
  scopeId,
  moduleIdentifier /* server only */
) {
  var esModule;
  var scriptExports = rawScriptExports = rawScriptExports || {};

  // ES6 modules interop
  var type = typeof rawScriptExports.default;
  if (type === 'object' || type === 'function') {
    esModule = rawScriptExports;
    scriptExports = rawScriptExports.default;
```

```
}

// Vue.extend constructor export interop
var options = typeof scriptExports === 'function'
  ? scriptExports.options
  : scriptExports;

// render functions
if (compiledTemplate) {
  options.render = compiledTemplate.render;
  options.staticRenderFns = compiledTemplate.staticRenderFns;
  options._compiled = true;
}

// functional template
if (functionalTemplate) {
  options.functional = true;
}

// scopedId
if (scopeId) {
  options._scopeId = scopeId;
}

var hook;
if (moduleIdentifier) { // server build
  hook = function (context) {
    // 2.3 injection
    context =
      context || // cached call
      (this.$vnode && this.$vnode.ssrContext) || // stateful
      (this.parent && this.parent.$vnode && this.parent.$vnode.ssrContext); // functional
    // 2.2 with runInNewContext: true
    if (!context && typeof __VUE_SSR_CONTEXT__ !== 'undefined') {
      context = __VUE_SSR_CONTEXT__;
    }
    // inject component styles
    if (injectStyles) {
      injectStyles.call(this, context);
    }
    // register component module identifier for async chunk inferrence
    if (context && context._registeredComponents) {
      context._registeredComponents.add(moduleIdentifier);
    }
  };
  // used by ssr in case component is cached and beforeCreate
```

```
    // never gets called
    options._ssrRegister = hook;
  } else if (injectStyles) {
    hook = injectStyles;
  }

  if (hook) {
    var functional = options.functional;
    var existing = functional
      ? options.render
      : options.beforeCreate;

    if (!functional) {
      // inject component registration as beforeCreate hook
      options.beforeCreate = existing
        ? [].concat(existing, hook)
        : [hook];
    } else {
      // for template-only hot-reload because in that case the render fn doesn't
      // go through the normalizer
      options._injectStyles = hook;
      // register for functioal component in vue file
      options.render = function renderWithStyleInjection (h, context) {
        hook.call(context);
        return existing(h, context)
      };
    }
  }

  return {
    esModule: esModule,
    exports: scriptExports,
    options: options
  }
};


/***/ }),
/* 1 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
```

```
__webpack_require__(56);

var _MdReactive = __webpack_require__(28);

var _MdReactive2 = _interopRequireDefault(_MdReactive);

var _MdTheme = __webpack_require__(29);

var _MdTheme2 = _interopRequireDefault(_MdTheme);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

var init = function init() {
  var material = new _MdReactive2.default({
    ripple: true,
    theming: {},
    locale: {
      startYear: 1900,
      endYear: 2099,
      dateFormat: 'YYYY-MM-DD',
      days: ['Sunday', 'Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday'],
      shortDays: ['Sun', 'Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat'],
      shorterDays: ['S', 'M', 'T', 'W', 'T', 'F', 'S'],
      months: ['January', 'February', 'March', 'April', 'May', 'June', 'July', 'August', 'September',
          'October', 'November', 'December'],
      shortMonths: ['Jan', 'Feb', 'Mar', 'Apr', 'May', 'June', 'July', 'Aug', 'Sept', 'Oct', 'Nov', 'Dec'],
      shorterMonths: ['J', 'F', 'M', 'A', 'M', 'Ju', 'Ju', 'A', 'Se', 'O', 'N', 'D']
    }
  });

  Object.defineProperties(material.theming, {
    metaColors: {
      get: function get() {
        return _MdTheme2.default.metaColors;
      },
      set: function set(metaColors) {
        _MdTheme2.default.metaColors = metaColors;
      }
    },
    theme: {
      get: function get() {
        return _MdTheme2.default.theme;
      },
      set: function set(theme) {
        _MdTheme2.default.theme = theme;
      }
```

```
    },
    enabled: {
      get: function get() {
        return _MdTheme2.default.enabled;
      },
      set: function set(enabled) {
        _MdTheme2.default.enabled = enabled;
      }
    }
  });

  return material;
};

exports.default = function (Vue) {
  if (!Vue.material) {
    Vue.material = init();
    Vue.prototype.$material = Vue.material;
  }
};

/***/ }),
/* 2 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

exports.default = function (newComponent) {
  var defaults = {
    props: {
      mdTheme: null
    },
    computed: {
      $mdActiveTheme: function $mdActiveTheme() {
        var enabled = _MdTheme2.default.enabled,
            getThemeName = _MdTheme2.default.getThemeName,
            getAncestorTheme = _MdTheme2.default.getAncestorTheme;


        if (enabled && this.mdTheme !== false) {
          return getThemeName(this.mdTheme || getAncestorTheme(this));
        }
```

```
      return null;
    }
  }
};

 return (0, _deepmerge2.default)(defaults, newComponent);
};

var _MdTheme = __webpack_require__(29);

var _MdTheme2 = _interopRequireDefault(_MdTheme);

var _deepmerge = __webpack_require__(30);

var _deepmerge2 = _interopRequireDefault(_deepmerge);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

/***/ }),
/* 3 */
/***/ (function(module, exports, __webpack_require__) {

var isDate = __webpack_require__(36);

var MILLISECONDS_IN_HOUR = 3600000;
var MILLISECONDS_IN_MINUTE = 60000;
var DEFAULT_ADDITIONAL_DIGITS = 2;

var parseTokenDateTimeDelimeter = /[T ]/;
var parseTokenPlainTime = /:/;

// year tokens
var parseTokenYY = /^(\d{2})$/;
var parseTokensYYY = [
  /^([+-]\d{2})$/, // 0 additional digits
  /^([+-]\d{3})$/, // 1 additional digit
  /^([+-]\d{4})$/ // 2 additional digits
];

var parseTokenYYYY = /^(\d{4})/;
var parseTokensYYYYY = [
  /^([+-]\d{4})/, // 0 additional digits
  /^([+-]\d{5})/, // 1 additional digit
  /^([+-]\d{6})/ // 2 additional digits
];
```

```
// date tokens
var parseTokenMM = /^-(\d{2})$/;
var parseTokenDDD = /^-?(\d{3})$/;
var parseTokenMMDD = /^-?(\d{2})-?(\d{2})$/;
var parseTokenWww = /^-?W(\d{2})$/;
var parseTokenWwwD = /^-?W(\d{2})-?(\d{1})$/;

// time tokens
var parseTokenHH = /^(\d{2}([.,]\d*)?)$/;
var parseTokenHHMM = /^(\d{2}):?(\d{2}([.,]\d*)?)$/;
var parseTokenHHMMSS = /^(\d{2}):?(\d{2}):?(\d{2}([.,]\d*)?)$/;

// timezone tokens
var parseTokenTimezone = /([Z+-].*)$/;
var parseTokenTimezoneZ = /^(Z)$/;
var parseTokenTimezoneHH = /^([+-])(\d{2})$/;
var parseTokenTimezoneHHMM = /^([+-])(\d{2}):?(\d{2})$/;

/**
 * @category Common Helpers
 * @summary Convert the given argument to an instance of Date.
 *
 * @description
 * Convert the given argument to an instance of Date.
 *
 * If the argument is an instance of Date, the function returns its clone.
 *
 * If the argument is a number, it is treated as a timestamp.
 *
 * If an argument is a string, the function tries to parse it.
 * Function accepts complete ISO 8601 formats as well as partial implementations.
 * ISO 8601: http://en.wikipedia.org/wiki/ISO_8601
 *
 * If all above fails, the function passes the given argument to Date constructor.
 *
 * @param {Date|String|Number} argument - the value to convert
 * @param {Object} [options] - the object with options
 * @param {0 | 1 | 2} [options.additionalDigits=2] - the additional number of digits in the
        extended year format
 * @returns {Date} the parsed date in the local time zone
 *
 * @example
 * // Convert string '2014-02-11T11:30:30' to date:
 * var result = parse('2014-02-11T11:30:30')
 * //=> Tue Feb 11 2014 11:30:30
 *
```

```
 * @example
 * // Parse string '+02014101',
 * // if the additional number of digits in the extended year format is 1:
 * var result = parse('+02014101', {additionalDigits: 1})
 * //=> Fri Apr 11 2014 00:00:00
 */
function parse (argument, dirtyOptions) {
  if (isDate(argument)) {
    // Prevent the date to lose the milliseconds when passed to new Date() in IE10
    return new Date(argument.getTime())
  } else if (typeof argument !== 'string') {
    return new Date(argument)
  }

  var options = dirtyOptions || {};
  var additionalDigits = options.additionalDigits;
  if (additionalDigits == null) {
    additionalDigits = DEFAULT_ADDITIONAL_DIGITS;
  } else {
    additionalDigits = Number(additionalDigits);
  }

  var dateStrings = splitDateString(argument);

  var parseYearResult = parseYear(dateStrings.date, additionalDigits);
  var year = parseYearResult.year;
  var restDateString = parseYearResult.restDateString;

  var date = parseDate(restDateString, year);

  if (date) {
    var timestamp = date.getTime();
    var time = 0;
    var offset;

    if (dateStrings.time) {
      time = parseTime(dateStrings.time);
    }

    if (dateStrings.timezone) {
      offset = parseTimezone(dateStrings.timezone);
    } else {
      // get offset accurate to hour in timezones that change offset
      offset = new Date(timestamp + time).getTimezoneOffset();
      offset = new Date(timestamp + time + offset *
          MILLISECONDS_IN_MINUTE).getTimezoneOffset();
```

```
    }

    return new Date(timestamp + time + offset * MILLISECONDS_IN_MINUTE)
  } else {
    return new Date(argument)
  }
}

function splitDateString (dateString) {
  var dateStrings = {};
  var array = dateString.split(parseTokenDateTimeDelimeter);
  var timeString;

  if (parseTokenPlainTime.test(array[0])) {
    dateStrings.date = null;
    timeString = array[0];
  } else {
    dateStrings.date = array[0];
    timeString = array[1];
  }

  if (timeString) {
    var token = parseTokenTimezone.exec(timeString);
    if (token) {
      dateStrings.time = timeString.replace(token[1], '');
      dateStrings.timezone = token[1];
    } else {
      dateStrings.time = timeString;
    }
  }

  return dateStrings
}

function parseYear (dateString, additionalDigits) {
  var parseTokenYYY = parseTokensYYY[additionalDigits];
  var parseTokenYYYYY = parseTokensYYYYY[additionalDigits];

  var token;

  // YYYY or ±YYYYY
  token = parseTokenYYYY.exec(dateString) || parseTokenYYYYY.exec(dateString);
  if (token) {
    var yearString = token[1];
    return {
      year: parseInt(yearString, 10),
```

```
      restDateString: dateString.slice(yearString.length)
    }
  }

  // YY or ±YYY
  token = parseTokenYY.exec(dateString) || parseTokenYYY.exec(dateString);
  if (token) {
    var centuryString = token[1];
    return {
      year: parseInt(centuryString, 10) * 100,
      restDateString: dateString.slice(centuryString.length)
    }
  }

  // Invalid ISO-formatted year
  return {
    year: null
  }
}

function parseDate (dateString, year) {
  // Invalid ISO-formatted year
  if (year === null) {
    return null
  }

  var token;
  var date;
  var month;
  var week;

  // YYYY
  if (dateString.length === 0) {
    date = new Date(0);
    date.setUTCFullYear(year);
    return date
  }

  // YYYY-MM
  token = parseTokenMM.exec(dateString);
  if (token) {
    date = new Date(0);
    month = parseInt(token[1], 10) - 1;
    date.setUTCFullYear(year, month);
    return date
  }
```

```
  // YYYY-DDD or YYYYDDD
  token = parseTokenDDD.exec(dateString);
  if (token) {
    date = new Date(0);
    var dayOfYear = parseInt(token[1], 10);
    date.setUTCFullYear(year, 0, dayOfYear);
    return date
  }

  // YYYY-MM-DD or YYYYMMDD
  token = parseTokenMMDD.exec(dateString);
  if (token) {
    date = new Date(0);
    month = parseInt(token[1], 10) - 1;
    var day = parseInt(token[2], 10);
    date.setUTCFullYear(year, month, day);
    return date
  }

  // YYYY-Www or YYYYWww
  token = parseTokenWww.exec(dateString);
  if (token) {
    week = parseInt(token[1], 10) - 1;
    return dayOfISOYear(year, week)
  }

  // YYYY-Www-D or YYYYWwwD
  token = parseTokenWwwD.exec(dateString);
  if (token) {
    week = parseInt(token[1], 10) - 1;
    var dayOfWeek = parseInt(token[2], 10) - 1;
    return dayOfISOYear(year, week, dayOfWeek)
  }

  // Invalid ISO-formatted date
  return null
}

function parseTime (timeString) {
  var token;
  var hours;
  var minutes;

  // hh
  token = parseTokenHH.exec(timeString);
```

```
  if (token) {
    hours = parseFloat(token[1].replace(',', '.'));
    return (hours % 24) * MILLISECONDS_IN_HOUR
  }

  // hh:mm or hhmm
  token = parseTokenHHMM.exec(timeString);
  if (token) {
    hours = parseInt(token[1], 10);
    minutes = parseFloat(token[2].replace(',', '.'));
    return (hours % 24) * MILLISECONDS_IN_HOUR +
      minutes * MILLISECONDS_IN_MINUTE
  }

  // hh:mm:ss or hhmmss
  token = parseTokenHHMMSS.exec(timeString);
  if (token) {
    hours = parseInt(token[1], 10);
    minutes = parseInt(token[2], 10);
    var seconds = parseFloat(token[3].replace(',', '.'));
    return (hours % 24) * MILLISECONDS_IN_HOUR +
      minutes * MILLISECONDS_IN_MINUTE +
      seconds * 1000
  }

  // Invalid ISO-formatted time
  return null
}

function parseTimezone (timezoneString) {
  var token;
  var absoluteOffset;

  // Z
  token = parseTokenTimezoneZ.exec(timezoneString);
  if (token) {
    return 0
  }

  // ±hh
  token = parseTokenTimezoneHH.exec(timezoneString);
  if (token) {
    absoluteOffset = parseInt(token[2], 10) * 60;
    return (token[1] === '+') ? -absoluteOffset : absoluteOffset
  }
```

```
  // ±hh:mm or ±hhmm
  token = parseTokenTimezoneHHMM.exec(timezoneString);
  if (token) {
    absoluteOffset = parseInt(token[2], 10) * 60 + parseInt(token[3], 10);
    return (token[1] === '+') ? -absoluteOffset : absoluteOffset
  }

  return 0
}

function dayOfISOYear (isoYear, week, day) {
  week = week || 0;
  day = day || 0;
  var date = new Date(0);
  date.setUTCFullYear(isoYear, 0, 4);
  var fourthOfJanuaryDay = date.getUTCDay() || 7;
  var diff = week * 7 + day + 1 - fourthOfJanuaryDay;
  date.setUTCDate(date.getUTCDate() + diff);
  return date
}

module.exports = parse;


/***/ }),
/* 4 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _vue = __webpack_require__(7);

var _vue2 = _interopRequireDefault(_vue);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (name, options) {
  return {
    validator: function validator(value) {
      if (options.includes(value)) {
        return true;
      }
```

```
    _vue2.default.util.warn('The ' + name + ' prop is invalid. Given value: ' + value + '. Available
        options: ' + options.join(', ') + '.', undefined);

    return false;
   }
  };
};

/***/ }),
/* 5 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdIcon/MdIco
        n.vue
var MdIcon = __webpack_require__(150);
var MdIcon_default = /*#__PURE__*/__webpack_require__.n(MdIcon);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        59c14b8f","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdIcon/MdI
        con.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm.mdSrc
    ? _c("md-svg-loader", {
        staticClass: "md-icon md-icon-image",
        class: [_vm.$mdActiveTheme],
        attrs: { "md-src": _vm.mdSrc },
        on: {
          "md-loaded": function($event) {
            _vm.$emit("md-loaded");
          }
        }
      })
    : _c(
        "i",
        { staticClass: "md-icon md-icon-font", class: [_vm.$mdActiveTheme] },
        [_vm._t("default")],
        2
      )
};
```

```
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdIcon_MdIcon = (esExports);
// CONCATENATED MODULE: ./src/components/MdIcon/MdIcon.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(149);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdIcon_default.a,
  MdIcon_MdIcon,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdIcon/MdIcon.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdIcon_MdIcon =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 6 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
```

```
  value: true
});
var MdUuid = function MdUuid() {
  return Math.random().toString(36).slice(4);
};

exports.default = MdUuid;

/***/ }),
/* 7 */
/***/ (function(module, exports) {

module.exports = __WEBPACK_EXTERNAL_MODULE_7__;

/***/ }),
/* 8 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdRipple/MdR
        ipple.vue
var MdRipple = __webpack_require__(93);
var MdRipple_default = /*#__PURE__*/__webpack_require__.n(MdRipple);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        7692b1af","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdRipple/M
        dRipple.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    {
      staticClass: "md-ripple",
      class: _vm.rippleClasses,
      on: {
        "&touchstart": function($event) {
          $event.stopPropagation();
          _vm.touchStartCheck($event);
        },
        "&touchmove": function($event) {
          $event.stopPropagation();
```

```
        _vm.touchMoveCheck($event);
      },
      "&mousedown": function($event) {
        $event.stopPropagation();
        _vm.startRipple($event);
      }
    }
  },
  [
    _vm._t("default"),
    _vm._v(" "),
    !_vm.isDisabled
      ? _c(
          "transition",
          {
            attrs: { name: "md-ripple" },
            on: { "after-enter": _vm.clearWave }
          },
          [
            _vm.animating
              ? _c("span", {
                  ref: "rippleWave",
                  staticClass: "md-ripple-wave",
                  class: _vm.waveClasses,
                  style: _vm.waveStyles
                })
              : _vm._e()
          ]
        )
      : _vm._e()
  ],
  2
)
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdRipple_MdRipple = (esExports);
// CONCATENATED MODULE: ./src/components/MdRipple/MdRipple.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(92);
}
var normalizeComponent = __webpack_require__(0);
/* script */
```

```
/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdRipple_default.a,
  MdRipple_MdRipple,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdRipple/MdRipple.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdRipple_MdRipple =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 9 */
/***/ (function(module, exports, __webpack_require__) {

/* WEBPACK VAR INJECTION */(function(global) {var now = __webpack_require__(65)
  , root = typeof window === 'undefined' ? global : window
  , vendors = ['moz', 'webkit']
  , suffix = 'AnimationFrame'
  , raf = root['request' + suffix]
  , caf = root['cancel' + suffix] || root['cancelRequest' + suffix];

for(var i = 0; !raf && i < vendors.length; i++) {
  raf = root[vendors[i] + 'Request' + suffix];
  caf = root[vendors[i] + 'Cancel' + suffix]
      || root[vendors[i] + 'CancelRequest' + suffix];
}

// Some versions of FF have rAF but not cAF
```

```
if(!raf || !caf) {
  var last = 0
    , id = 0
    , queue = []
    , frameDuration = 1000 / 60;

  raf = function(callback) {
    if(queue.length === 0) {
      var _now = now()
        , next = Math.max(0, frameDuration - (_now - last));
      last = next + _now;
      setTimeout(function() {
        var cp = queue.slice(0);
        // Clear queue here to prevent
        // callbacks from appending listeners
        // to the current frame's queue
        queue.length = 0;
        for(var i = 0; i < cp.length; i++) {
          if(!cp[i].cancelled) {
            try{
              cp[i].callback(last);
            } catch(e) {
              setTimeout(function() { throw e }, 0);
            }
          }
        }
      }, Math.round(next));
    }
    queue.push({
      handle: ++id,
      callback: callback,
      cancelled: false
    });
    return id
  };

  caf = function(handle) {
    for(var i = 0; i < queue.length; i++) {
      if(queue[i].handle === handle) {
        queue[i].cancelled = true;
      }
    }
  };
}

module.exports = function(fn) {
```

```
  // Wrap in a new function to prevent
  // `cancel` potentially being assigned
  // to the native rAF function
  return raf.call(root, fn)
};
module.exports.cancel = function() {
  caf.apply(root, arguments);
};
module.exports.polyfill = function(object) {
  if (!object) {
    object = root;
  }
  object.requestAnimationFrame = raf;
  object.cancelAnimationFrame = caf;
};

/* WEBPACK VAR INJECTION */}.call(exports, __webpack_require__(17)));

/***/ }),
/* 10 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdDialog/MdD
        ialog.vue
var MdDialog = __webpack_require__(205);
var MdDialog_default = /*#__PURE__*/__webpack_require__.n(MdDialog);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        f080a6a2","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdDialog/M
        dDialog.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-portal",
    [
      _c("transition", { attrs: { name: "md-dialog" } }, [
        _vm.mdActive
          ? _c(
              "div",
              _vm._g(
```

```
  {
   staticClass: "md-dialog",
   class: [_vm.dialogClasses, _vm.$mdActiveTheme],
   on: {
    keydown: function($event) {
     if (
      !("button" in $event) &&
      _vm._k($event.keyCode, "esc", 27, $event.key)
     ) {
      return null
     }
     _vm.onEsc($event);
    }
   }
  },
  _vm.$listeners
 ),
 [
  _c("md-focus-trap", [
   _c(
    "div",
    { staticClass: "md-dialog-container" },
    [
     _vm._t("default"),
     _vm._v(" "),
     _c(
      "keep-alive",
      [
       _vm.mdBackdrop
        ? _c("md-overlay", {
          class: _vm.mdBackdropClass,
          attrs: {
           "md-fixed": "",
           "md-active": _vm.mdActive
          },
          on: { click: _vm.onClick }
         })
        : _vm._e()
      ],
      1
     )
    ],
    2
   )
  ])
 ],
```

```
            1
          )
        : _vm._e()
    ])
   ],
   1
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdDialog_MdDialog = (esExports);
// CONCATENATED MODULE: ./src/components/MdDialog/MdDialog.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(204);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdDialog_default.a,
  MdDialog_MdDialog,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdDialog/MdDialog.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdDialog_MdDialog =
        __webpack_exports__["default"] = (Component.exports);
```

```
/***/ }),
/* 11 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdRipple = __webpack_require__(19);

var _MdRipple2 = _interopRequireDefault(_MdRipple);

var _MdListItemContent = __webpack_require__(282);

var _MdListItemContent2 = _interopRequireDefault(_MdListItemContent);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  mixins: [_MdRipple2.default],
  components: {
    MdListItemContent: _MdListItemContent2.default
  },
  props: {
    disabled: Boolean
  },
  computed: {
    isDisabled: function isDisabled() {
      return !this.mdRipple || this.disabled;
    }
  }
};

/***/ }),
/* 12 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
```

```
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; };

exports.default = function (context, props) {
  return _extends({}, props, context.$options.components['router-link'].options.props);
};

/***/ }),
/* 13 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdButton_vue__ =
        __webpack_require__(98);
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdButton_vue___default =
        __webpack_require__.n(__WEBPACK_IMPORTED_MODULE_0__babel_loader_node
        _modules_vue_loader_lib_selector_type_script_index_0_bustCache_MdButton_vue__);
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(97);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */
var __vue_template__ = null;
/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(

        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdButton_vue___default.a,
  __vue_template__,
  __vue_template_functional__,
```

```
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdButton/MdButton.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 14 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdField/MdInp
        ut/MdInput.vue
var MdInput = __webpack_require__(158);
var MdInput_default = /*#__PURE__*/__webpack_require__.n(MdInput);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        69de42aa","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdField/Md
        Input/MdInput.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "input",
    _vm._g(
      _vm._b(
        {
          directives: [
            {
              name: "model",
              rawName: "v-model",
              value: _vm.model,
              expression: "model"
            }
          ],
          staticClass: "md-input",
```

```
        domProps: { value: _vm.model },
        on: {
          focus: _vm.onFocus,
          blur: _vm.onBlur,
          input: function($event) {
            if ($event.target.composing) {
              return
            }
            _vm.model = $event.target.value;
          }
        }
      },
      "input",
      _vm.attributes,
      false
    ),
    _vm.listeners
  )
 )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdInput_MdInput = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
 var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
 MdInput_default.a,
 MdInput_MdInput,
 __vue_template_functional__,
 __vue_styles__,
 __vue_scopeId__,
 __vue_module_identifier__
);
Component.options.__file = "src/components/MdField/MdInput/MdInput.vue";
```

```
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdField_MdInput_MdInput = __webpack_exports__["default"]
        = (Component.exports);


/***/ }),
/* 15 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; };

exports.default = {
  props: {
    value: {},
    placeholder: String,
    maxlength: [String, Number],
    readonly: Boolean,
    required: Boolean,
    disabled: Boolean,
    mdCounter: [String, Number]
  },
  data: function data() {
    return {
      localValue: this.value,
      textareaHeight: false
    };
  },

  computed: {
    model: {
      get: function get() {
        return this.localValue;
      },
      set: function set(value) {
```

```
      var _this = this;

      if (value.constructor.name.toLowerCase() !== 'inputevent') {
        this.$nextTick(function () {
          _this.localValue = value;
        });
      }
    }
  },
  clear: function clear() {
    return this.MdField.clear;
  },
  attributes: function attributes() {
    return _extends({}, this.$attrs, {
      type: this.type,
      id: this.id,
      name: this.name,
      disabled: this.disabled,
      required: this.required,
      placeholder: this.placeholder,
      readonly: this.readonly,
      maxlength: this.maxlength
    });
  }
},
watch: {
  model: function model() {
    this.setFieldValue();
  },
  clear: function clear(_clear) {
    if (_clear) {
      this.clearField();
    }
  },
  placeholder: function placeholder() {
    this.setPlaceholder();
  },
  disabled: function disabled() {
    this.setDisabled();
  },
  required: function required() {
    this.setRequired();
  },
  maxlength: function maxlength() {
    this.setMaxlength();
  },
```

```
  mdCounter: function mdCounter() {
    this.setMaxlength();
  },
  localValue: function localValue(val) {
    this.$emit('input', val);
  },
  value: function value(val) {
    this.localValue = val;
  }
},
methods: {
  clearField: function clearField() {
    this.$el.value = '';
    this.model = '';
    this.setFieldValue();
  },
  setLabelFor: function setLabelFor() {
    if (this.$el.parentNode) {
      var label = this.$el.parentNode.querySelector('label');

      if (label) {
        var forAttribute = label.getAttribute('for');

        if (!forAttribute || forAttribute.indexOf('md-') >= 0) {
          label.setAttribute('for', this.id);
        }
      }
    }
  },
  setFieldValue: function setFieldValue() {
    this.MdField.value = this.model;
  },
  setPlaceholder: function setPlaceholder() {
    this.MdField.placeholder = Boolean(this.placeholder);
  },
  setDisabled: function setDisabled() {
    this.MdField.disabled = Boolean(this.disabled);
  },
  setRequired: function setRequired() {
    this.MdField.required = Boolean(this.required);
  },
  setMaxlength: function setMaxlength() {
    if (this.mdCounter) {
      this.MdField.counter = parseInt(this.mdCounter, 10);
    } else {
      this.MdField.maxlength = parseInt(this.maxlength, 10);
```

```
    }
   },
   onFocus: function onFocus() {
    this.MdField.focused = true;
   },
   onBlur: function onBlur() {
    this.MdField.focused = false;
   }
  },
  created: function created() {
   this.setFieldValue();
   this.setPlaceholder();
   this.setDisabled();
   this.setRequired();
   this.setMaxlength();
  },
  mounted: function mounted() {
   this.setLabelFor();
  }
};

/***/ }),
/* 16 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _vue = __webpack_require__(7);

var _vue2 = _interopRequireDefault(_vue);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; }

exports.default = {
  name: 'MdPortal',
  abstract: true,
```

```
props: {
  mdAttachToParent: Boolean,
  mdTarget: {
    type: null,
    validator: function validator(value) {
      if (HTMLElement && value && value instanceof HTMLElement) {
        return true;
      }

      _vue2.default.util.warn('The md-target-el prop is invalid. You should pass a valid
          HTMLElement.', this);

      return false;
    }
  }
},
data: function data() {
  return {
    leaveTimeout: null,
    originalParentEl: null
  };
},
computed: {
  transitionName: function transitionName() {
    var childrenComponent = this._vnode.componentOptions.children[0];

    if (childrenComponent) {
      var transition = childrenComponent.data.transition;

      if (transition) {
        return transition.name;
      } else {
        var _transition = childrenComponent.componentOptions.propsData.name;

        if (_transition) {
          return _transition;
        }
      }
    }

    return 'v';
  },
  leaveClass: function leaveClass() {
    return this.transitionName + '-leave';
  },
  leaveActiveClass: function leaveActiveClass() {
```

```
    return this.transitionName + '-leave-active';
  },
  leaveToClass: function leaveToClass() {
    return this.transitionName + '-leave-to';
  }
},
watch: {
  mdTarget: function mdTarget(newTarget, oldTarget) {
    this.changeParentEl(newTarget);

    if (oldTarget) {
      this.$forceUpdate();
    }
  }
},
methods: {
  getTransitionDuration: function getTransitionDuration(el) {
    var duration = getComputedStyle(el).transitionDuration;
    var num = parseFloat(duration, 10);
    var unit = duration.match(/m?s/);
    var milliseconds = null;

    if (unit) {
      unit = unit[0];
    }

    switch (unit) {
      case 's':
        milliseconds = num * 1000;
        break;

      case 'ms':
        milliseconds = num;
        break;

      default:
        milliseconds = 0;
        break;
    }

    return milliseconds;
  },
  killGhostElement: function killGhostElement(el) {
    if (el.parentNode) {
      this.changeParentEl(this.originalParentEl);
      this.$options._parentElm = this.originalParentEl;
```

```
    el.parentNode.removeChild(el);
  }
},
initDestroy: function () {
  var _ref = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function
      _callee(manualCall) {
    var _this = this;

    var el;
    return regeneratorRuntime.wrap(function _callee$(_context) {
      var this$1 = this;

      while (1) {
        switch (_context.prev = _context.next) {
          case 0:
            el = this$1.$el;


            if (manualCall && this$1.$el.constructor.name.toLowerCase() === 'comment') {
              el = this$1.$vnode.elm;
            }

            el.classList.add(this$1.leaveClass);
            el.classList.add(this$1.leaveActiveClass);
            _context.next = 6;
            return this$1.$nextTick();

          case 6:
            el.classList.add(this$1.leaveToClass);

            clearTimeout(this$1.leaveTimeout);
            this$1.leaveTimeout = setTimeout(function () {
              _this.destroyElement(el);
            }, this$1.getTransitionDuration(el));

          case 9:
          case 'end':
            return _context.stop();
        }
      }
    }, _callee, this);
  }));

  function initDestroy(_x) {
    return _ref.apply(this, arguments);
  }
```

```
    return initDestroy;
  }(),
  destroyElement: function destroyElement(el) {
    var _this2 = this;

    requestAnimationFrame(function () {
      el.classList.remove(_this2.leaveClass);
      el.classList.remove(_this2.leaveActiveClass);
      el.classList.remove(_this2.leaveToClass);
      _this2.$emit('md-destroy');
      _this2.killGhostElement(el);
    });
  },
  changeParentEl: function changeParentEl(newTarget) {
    newTarget && newTarget.appendChild(this.$el);
  }
},
mounted: function mounted() {
  if (!this.originalParentEl) {
    this.originalParentEl = this.$el.parentNode;
    this.$emit('md-initial-parent', this.$el.parentNode);
  }

  if (this.mdAttachToParent && this.$el.parentNode.parentNode) {
    this.changeParentEl(this.$el.parentNode.parentNode);
  } else if (document) {
    this.changeParentEl(this.mdTarget || document.body);
  }
},
beforeDestroy: function beforeDestroy() {
  if (this.$el.classList) {
    this.initDestroy();
  } else {
    this.killGhostElement(this.$el);
  }
},
render: function render(createElement) {
  var defaultSlot = this.$slots.default;

  if (defaultSlot && defaultSlot[0]) {
    return defaultSlot[0];
  }
}
};
```

```
/***/ }),
/* 17 */
/***/ (function(module, exports) {

var g;

// This works in non-strict mode
g = (function() {
	return this;
})();

try {
	// This works if eval is allowed (see CSP)
	g = g || Function("return this")() || (eval)("this");
} catch(e) {
	// This works if the window reference is available
	if(typeof window === "object")
	{ g = window; }
}

// g can still be undefined, but nothing to do about it...
// We return undefined, instead of nothing here, so it's
// easier to handle this case. if(!global) { ...}

module.exports = g;


/***/ }),
/* 18 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
exports.default = {
  methods: {
    isAssetIcon: function isAssetIcon(icon) {
      return (/\w+[/\\.]\w+/.test(icon)
      );
    }
  }
};

/***/ }),
/* 19 */
```

```
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdRipple = __webpack_require__(8);

var _MdRipple2 = _interopRequireDefault(_MdRipple);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  components: {
    MdRipple: _MdRipple2.default
  },
  props: {
    mdRipple: {
      type: Boolean,
      default: true
    }
  }
};

/***/ }),
/* 20 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdField/MdFie
        ld.vue
var MdField = __webpack_require__(147);
var MdField_default = /*#__PURE__*/__webpack_require__.n(MdField);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        2ecd7b97","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdField/Md
        Field.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
```

```
"div",
{
 staticClass: "md-field",
 class: [_vm.$mdActiveTheme, _vm.fieldClasses],
 on: { blur: _vm.onBlur }
},
[
 _vm._t("default"),
 _vm._v(" "),
 _vm.hasCounter
  ? _c("span", { staticClass: "md-count" }, [
      _vm._v(
        _vm._s(_vm.valueLength) +
          " / " +
          _vm._s(_vm.MdField.maxlength || _vm.MdField.counter)
      )
    ])
  : _vm._e(),
 _vm._v(" "),
 _c(
  "transition",
  { attrs: { name: "md-input-action", appear: "" } },
  [
    _vm.hasValue && _vm.mdClearable
      ? _c(
          "md-button",
          {
            staticClass:
              "md-icon-button md-dense md-input-action md-clear",
            attrs: { tabindex: "-1" },
            on: { click: _vm.clearInput }
          },
          [_c("md-clear-icon")],
          1
        )
      : _vm._e()
  ],
  1
 ),
 _vm._v(" "),
 _c(
  "transition",
  { attrs: { name: "md-input-action", appear: "" } },
  [
    _vm.hasPasswordToggle
      ? _c(
```

```
            "md-button",
            {
              staticClass:
                "md-icon-button md-dense md-input-action md-toggle-password",
              attrs: { tabindex: "-1" },
              on: { click: _vm.togglePassword }
            },
            [
              _vm.MdField.togglePassword
                ? _c("md-password-off-icon")
                : _c("md-password-on-icon")
            ],
            1
          )
        : _vm._e()
    ],
    1
  )
 ],
 2
)
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdField_MdField = (esExports);
// CONCATENATED MODULE: ./src/components/MdField/MdField.vue
var disposed = false;
function injectStyle (ssrContext) {
 if (disposed) { return }
 __webpack_require__(146);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
 var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
```

```
  MdField_default.a,
  MdField_MdField,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdField/MdField.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdField_MdField =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 21 */
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);

/**
 * @category Day Helpers
 * @summary Return the start of a day for the given date.
 *
 * @description
 * Return the start of a day for the given date.
 * The result will be in the local timezone.
 *
 * @param {Date|String|Number} date - the original date
 * @returns {Date} the start of a day
 *
 * @example
 * // The start of a day for 2 September 2014 11:55:00:
 * var result = startOfDay(new Date(2014, 8, 2, 11, 55, 0))
 * //=> Tue Sep 02 2014 00:00:00
 */
function startOfDay (dirtyDate) {
  var date = parse(dirtyDate);
  date.setHours(0, 0, 0, 0);
  return date
}

module.exports = startOfDay;
```

```
/***/ }),
/* 22 */
/***/ (function(module, exports, __webpack_require__) {

var startOfWeek = __webpack_require__(174);

/**
 * @category ISO Week Helpers
 * @summary Return the start of an ISO week for the given date.
 *
 * @description
 * Return the start of an ISO week for the given date.
 * The result will be in the local timezone.
 *
 * ISO week-numbering year: http://en.wikipedia.org/wiki/ISO_week_date
 *
 * @param {Date|String|Number} date - the original date
 * @returns {Date} the start of an ISO week
 *
 * @example
 * // The start of an ISO week for 2 September 2014 11:55:00:
 * var result = startOfISOWeek(new Date(2014, 8, 2, 11, 55, 0))
 * //=> Mon Sep 01 2014 00:00:00
 */
function startOfISOWeek (dirtyDate) {
  return startOfWeek(dirtyDate, {weekStartsOn: 1})
}

module.exports = startOfISOWeek;


/***/ }),
/* 23 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdOverlay/Md
        Overlay.vue
var MdOverlay = __webpack_require__(181);
var MdOverlay_default = /*#__PURE__*/__webpack_require__.n(MdOverlay);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        0e05c97a","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
```

```
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdOverlay/
        MdOverlay.vue

var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-portal",
    { attrs: { "md-attach-to-parent": _vm.mdAttachToParent } },
    [
      _c("transition", { attrs: { name: "md-overlay" } }, [
        _vm.mdActive
          ? _c(
              "div",
              _vm._g(
                { staticClass: "md-overlay", class: _vm.overlayClasses },
                _vm.$listeners
              )
            )
          : _vm._e()
      ])
    ],
    1
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdOverlay_MdOverlay = (esExports);
// CONCATENATED MODULE: ./src/components/MdOverlay/MdOverlay.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(180);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
```

```
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdOverlay_default.a,
  MdOverlay_MdOverlay,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdOverlay/MdOverlay.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdOverlay_MdOverlay =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 24 */
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);

/**
 * @category Month Helpers
 * @summary Get the number of days in a month of the given date.
 *
 * @description
 * Get the number of days in a month of the given date.
 *
 * @param {Date|String|Number} date - the given date
 * @returns {Number} the number of days in a month
 *
 * @example
 * // How many days are in February 2000?
 * var result = getDaysInMonth(new Date(2000, 1))
 * //=> 29
 */
function getDaysInMonth (dirtyDate) {
  var date = parse(dirtyDate);
  var year = date.getFullYear();
  var monthIndex = date.getMonth();
  var lastDayOfMonth = new Date(0);
```

```
  lastDayOfMonth.setFullYear(year, monthIndex + 1, 0);
  lastDayOfMonth.setHours(0, 0, 0, 0);
  return lastDayOfMonth.getDate()
}

module.exports = getDaysInMonth;


/***/ }),
/* 25 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdPopover_vue__ =
        __webpack_require__(198);
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdPopover_vue___default =
        __webpack_require__.n(__WEBPACK_IMPORTED_MODULE_0__babel_loader_node
        _modules_vue_loader_lib_selector_type_script_index_0_bustCache_MdPopover_vue__)
        ;
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(197);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */
var __vue_template__ = null;
/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(

        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdPopover_vue___default.a,
  __vue_template__,
  __vue_template_functional__,
```

```
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdPopover/MdPopover.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 26 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

exports.default = function (el, config, cb) {
  if ('MutationObserver' in window) {
    var observer = new window.MutationObserver(cb);

    observer.observe(el, config);

    return {
      disconnect: function disconnect() {
        observer.disconnect();
      }
    };
  }
};

/***/ }),
/* 27 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdTable/MdTa
        bleHead.vue
var MdTableHead = __webpack_require__(360);
var MdTableHead_default = /*#__PURE__*/__webpack_require__.n(MdTableHead);
```

```
// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        98ddc082","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdTable/M
        dTableHead.vue

var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "th",
    {
      staticClass: "md-table-head",
      class: _vm.headClasses,
      style: _vm.headStyles,
      on: { click: _vm.changeSort }
    },
    [
      _vm.$slots.default
        ? _c("div", { staticClass: "md-table-head-container" }, [
            _c(
              "div",
              { staticClass: "md-table-head-label" },
              [_vm._t("default")],
              2
            )
          ])
        : _c(
            "md-ripple",
            {
              staticClass: "md-table-head-container",
              attrs: { "md-disabled": !_vm.hasSort }
            },
            [
              _c(
                "div",
                { staticClass: "md-table-head-label" },
                [
                  _vm.hasSort
                    ? _c(
                        "md-upward-icon",
                        { staticClass: "md-table-sortable-icon" },
                        [_vm._v("arrow_upward")]
                      )
                    : _vm._e(),
```

```
              _vm._v("\n\n      " + _vm._s(_vm.label) + "\n\n      "),
              _vm.tooltip
                ? _c("md-tooltip", [_vm._v(_vm._s(_vm.tooltip))])
                : _vm._e()
            ],
            1
          )
        ]
      )
    ],
    1
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdTable_MdTableHead = (esExports);
// CONCATENATED MODULE: ./src/components/MdTable/MdTableHead.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(359);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdTableHead_default.a,
  MdTable_MdTableHead,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdTable/MdTableHead.vue";
```

```
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdTable_MdTableHead =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 28 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

exports.default = function (data) {
  var Instance = {};

  _vue2.default.util.defineReactive(Instance, 'reactive', data);

  return Instance.reactive;
};

var _vue = __webpack_require__(7);

var _vue2 = _interopRequireDefault(_vue);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

/***/ }),
/* 29 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _vue = __webpack_require__(7);

var _vue2 = _interopRequireDefault(_vue);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }
```

```
var msColor = null;
var themeColor = null;
var maskIcon = null;

exports.default = new _vue2.default({
  data: function data() {
    return {
      prefix: 'md-theme-',
      theme: 'default',
      enabled: true,
      metaColors: false
    };
  },
  computed: {
    themeTarget: function themeTarget() {
      if (!this.$isServer) {
        return document.documentElement;
      }

      return false;
    },
    fullThemeName: function fullThemeName() {
      return this.getThemeName();
    }
  },
  watch: {
    enabled: {
      immediate: true,
      handler: function handler() {
        var fullThemeName = this.fullThemeName,
            themeTarget = this.themeTarget,
            enabled = this.enabled;


        if (themeTarget) {
          if (enabled) {
            themeTarget.classList.add(fullThemeName);
            this.metaColors && this.setHtmlMetaColors(fullThemeName);
          } else {
            themeTarget.classList.remove(fullThemeName);
            this.metaColors && this.setHtmlMetaColors();
          }
        }
      }
    },
    theme: function theme(newTheme, oldTheme) {
```

```
    var getThemeName = this.getThemeName,
        themeTarget = this.themeTarget;


    newTheme = getThemeName(newTheme);

    themeTarget.classList.remove(getThemeName(oldTheme));
    themeTarget.classList.add(newTheme);

    if (this.metaColors) {
      this.setHtmlMetaColors(newTheme);
    }
  },
  metaColors: function metaColors(meta) {
    if (meta) {
      this.setHtmlMetaColors(this.fullThemeName);
    } else {
      this.setHtmlMetaColors();
    }
  }
},
methods: {
  getAncestorTheme: function getAncestorTheme(component) {
    var _this = this;

    if (component) {
      var currentTheme = component.mdTheme;
      var getParentThemeName = function getParentThemeName(parent) {
        if (parent) {
          var mdTheme = parent.mdTheme,
              $parent = parent.$parent;


          if (mdTheme && mdTheme !== currentTheme) {
            return mdTheme;
          }

          return getParentThemeName($parent);
        }

        return _this.theme;
      };

      return getParentThemeName(component.$parent);
    }
```

```
    return null;
  },
  getThemeName: function getThemeName(theme) {
    var themeName = theme || this.theme;

    return this.prefix + themeName;
  },
  setMicrosoftColors: function setMicrosoftColors(primaryColor) {
    if (msColor) {
      msColor.setAttribute('content', primaryColor);
    }
  },
  setThemeColors: function setThemeColors(primaryColor) {
    if (themeColor) {
      themeColor.setAttribute('content', primaryColor);
    }
  },
  setMaskColors: function setMaskColors(primaryColor) {
    if (maskIcon) {
      maskIcon.setAttribute('color', primaryColor);
    }
  },
  setHtmlMetaColors: function setHtmlMetaColors(themeName) {
    var primaryColor = '#fff';

    if (themeName) {
      var computedStyle = window.getComputedStyle(document.documentElement);

      primaryColor = computedStyle.getPropertyValue('--' + themeName + '-primary');
    }

    if (primaryColor) {
      this.setMicrosoftColors(primaryColor);
      this.setThemeColors(primaryColor);
      this.setMaskColors(primaryColor);
    }
  }
},
mounted: function mounted() {
  var _this2 = this;

  msColor = document.querySelector('[name="msapplication-TileColor"]');
  themeColor = document.querySelector('[name="theme-color"]');
  maskIcon = document.querySelector('[rel="mask-icon"]');

  if (this.enabled && this.metaColors) {
```

```
    window.addEventListener('load', function () {
      _this2.setHtmlMetaColors(_this2.fullThemeName);
    });
  }
 }
});

/***/ }),
/* 30 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
var isMergeableObject = function isMergeableObject(value) {
	return isNonNullObject(value)
	&& !isSpecial(value)
};

function isNonNullObject(value) {
	return !!value && typeof value === 'object'
}

function isSpecial(value) {
	var stringValue = Object.prototype.toString.call(value);

	return stringValue === '[object RegExp]'
	|| stringValue === '[object Date]'
	|| isReactElement(value)
}

// see
	https://github.com/facebook/react/blob/b5ac963fb791d1298e7f396236383bc955f916c1/sr
	c/isomorphic/classic/element/ReactElement.js#L21-L25
var canUseSymbol = typeof Symbol === 'function' && Symbol.for;
var REACT_ELEMENT_TYPE = canUseSymbol ? Symbol.for('react.element') : 0xeac7;

function isReactElement(value) {
	return value.$$typeof === REACT_ELEMENT_TYPE
}

function emptyTarget(val) {
	return Array.isArray(val) ? [] : {}
}

function cloneUnlessOtherwiseSpecified(value, optionsArgument) {
	var clone = !optionsArgument || optionsArgument.clone !== false;

	return (clone && isMergeableObject(value))
```

```
        ? deepmerge(emptyTarget(value), value, optionsArgument)
        : value
}

function defaultArrayMerge(target, source, optionsArgument) {
        return target.concat(source).map(function(element) {
        return cloneUnlessOtherwiseSpecified(element, optionsArgument)
        })
}

function mergeObject(target, source, optionsArgument) {
        var destination = {};
        if (isMergeableObject(target)) {
        Object.keys(target).forEach(function(key) {
                destination[key] = cloneUnlessOtherwiseSpecified(target[key],
        optionsArgument);
        });
        }
        Object.keys(source).forEach(function(key) {
        if (!isMergeableObject(source[key]) || !target[key]) {
                destination[key] = cloneUnlessOtherwiseSpecified(source[key],
        optionsArgument);
        } else {
                destination[key] = deepmerge(target[key], source[key], optionsArgument);
        }
        });
        return destination
}

function deepmerge(target, source, optionsArgument) {
        var sourceIsArray = Array.isArray(source);
        var targetIsArray = Array.isArray(target);
        var options = optionsArgument || { arrayMerge: defaultArrayMerge };
        var sourceAndTargetTypesMatch = sourceIsArray === targetIsArray;

        if (!sourceAndTargetTypesMatch) {
        return cloneUnlessOtherwiseSpecified(source, optionsArgument)
        } else if (sourceIsArray) {
        var arrayMerge = options.arrayMerge || defaultArrayMerge;
        return arrayMerge(target, source, optionsArgument)
        } else {
        return mergeObject(target, source, optionsArgument)
        }
}

deepmerge.all = function deepmergeAll(array, optionsArgument) {
```

```
        if (!Array.isArray(array)) {
        throw new Error('first argument should be an array')
        }

        return array.reduce(function(prev, next) {
        return deepmerge(prev, next, optionsArgument)
        }, {})
};

var deepmerge_1 = deepmerge;

/* harmony default export */ __webpack_exports__["default"] = (deepmerge_1);


/***/ }),
/* 31 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; };

var _raf = __webpack_require__(9);

var _raf2 = _interopRequireDefault(_raf);

var _MdPropValidator = __webpack_require__(4);

var _MdPropValidator2 = _interopRequireDefault(_MdPropValidator);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

var mdAppModes = ['fixed', 'fixed-last', 'reveal', 'overlap', 'flexible'];

exports.default = {
  props: {
    mdMode: _extends({
      type: String
    }, (0, _MdPropValidator2.default)('md-mode', mdAppModes)),
```

```
  mdWaterfall: Boolean,
  mdScrollbar: {
    type: Boolean,
    default: true
  }
},
data: function data() {
  return {
    revealTimer: null,
    revealLastPos: 0,
    manualTick: false,
    MdApp: {
      options: {
        mode: null,
        waterfall: false,
        flexible: false
      },
      toolbar: {
        element: null,
        titleElement: null,
        height: '0px',
        initialHeight: 0,
        top: 0,
        titleSize: 20,
        hasElevation: true,
        revealActive: false,
        fixedLastActive: false,
        fixedLastHeight: false,
        overlapOff: false
      },
      drawer: {
        initialWidth: 0,
        active: false,
        mode: 'temporary',
        width: 0
      }
    }
  };
},
provide: function provide() {
  return {
    MdApp: this.MdApp
  };
},

computed: {
```

```
  contentStyles: function contentStyles() {
    var drawer = this.MdApp.drawer;

    if (drawer.active && drawer.mode === 'persistent' && drawer.submode === 'full') {
      return {
        'padding-left': drawer.width
      };
    }
  },
  containerStyles: function containerStyles() {
    var drawer = this.MdApp.drawer;
    var styles = {};

    if (this.mdMode && this.mdMode !== 'fixed') {
      styles['margin-top'] = this.MdApp.toolbar.initialHeight + 'px';
    }

    if (drawer.mode === 'persistent' && drawer.submode === 'mini') {
      styles['padding-left'] = !drawer.active ? drawer.initialWidth + 'px' : 0;
    }

    return styles;
  },
  scrollerClasses: function scrollerClasses() {
    if (this.mdScrollbar) {
      return 'md-scrollbar';
    }
  },
  appClasses: function appClasses() {
    return {
      'md-waterfall': this.mdWaterfall,
      'md-flexible': this.mdMode === 'flexible',
      'md-fixed': this.mdMode === 'fixed',
      'md-fixed-last': this.mdMode === 'fixed-last',
      'md-reveal': this.mdMode === 'reveal',
      'md-overlap': this.mdMode === 'overlap',
      'md-drawer-active': this.MdApp.drawer.active
    };
  }
},
watch: {
  mdMode: function mdMode(mode) {
    this.MdApp.options.mode = mode;
  },
  mdWaterfall: function mdWaterfall(waterfall) {
    this.MdApp.options.waterfall = waterfall;
```

```
    this.setToolbarElevation();
   }
  },
  methods: {
   setToolbarElevation: function setToolbarElevation() {
    this.MdApp.toolbar.hasElevation = !this.mdWaterfall;
   },
   setToolbarTimer: function setToolbarTimer(scrollTop) {
    var _this = this;

    window.clearTimeout(this.revealTimer);

    this.revealTimer = window.setTimeout(function () {
     _this.revealLastPos = scrollTop;
    }, 100);
   },
   setToolbarMarginAndHeight: function setToolbarMarginAndHeight(margin, height) {
    this.MdApp.toolbar.top = margin;
    this.MdApp.toolbar.height = height;
   },
   getToolbarConstrants: function getToolbarConstrants($event) {
    var toolbarHeight = this.MdApp.toolbar.element.offsetHeight;
    var safeAmount = 10;
    var threshold = toolbarHeight + safeAmount;
    var scrollTop = $event.target.scrollTop;

    if (!this.MdApp.toolbar.initialHeight) {
     this.MdApp.toolbar.initialHeight = toolbarHeight;
    }

    return {
     toolbarHeight: toolbarHeight,
     safeAmount: safeAmount,
     threshold: threshold,
     scrollTop: scrollTop,
     initialHeight: this.MdApp.toolbar.initialHeight
    };
   },
   handleWaterfallScroll: function handleWaterfallScroll($event) {
    var _getToolbarConstrants = this.getToolbarConstrants($event),
       threshold = _getToolbarConstrants.threshold,
       scrollTop = _getToolbarConstrants.scrollTop;

    var elevationMark = 4;

    if (this.mdMode === 'reveal') {
```

```
    elevationMark = threshold;
  }

  this.MdApp.toolbar.hasElevation = scrollTop >= elevationMark;
},
handleFlexibleMode: function handleFlexibleMode($event) {
  var _getToolbarConstrants2 = this.getToolbarConstrants($event),
      scrollTop = _getToolbarConstrants2.scrollTop,
      initialHeight = _getToolbarConstrants2.initialHeight;

  var toolbar = this.MdApp.toolbar.element;
  var firstRow = toolbar.querySelector('.md-toolbar-row:first-child');
  var firstRowHeight = firstRow.offsetHeight;
  var scrollAmount = initialHeight - scrollTop;
  var shouldKeepFlexible = scrollTop < initialHeight - firstRowHeight;

  if (firstRowHeight) {
    if (shouldKeepFlexible) {
      toolbar.style.height = scrollAmount + 'px';
    } else {
      toolbar.style.height = firstRowHeight + 'px';
    }
  }

  var titleElement = this.MdApp.toolbar.titleElement;
  if (titleElement) {
    var targetSize = 20;
    var initialSize = this.MdApp.toolbar.titleSize;

    if (shouldKeepFlexible) {
      var newSize = Math.max(0, 1 - (scrollTop - initialSize) / (scrollAmount + initialSize +
        0.000001)) * (initialSize - targetSize) + targetSize;

      titleElement.style.fontSize = newSize + 'px';
    } else {
      titleElement.style.fontSize = '20px';
    }
  }

  var _getToolbarConstrants3 = this.getToolbarConstrants($event),
      threshold = _getToolbarConstrants3.threshold,
      toolbarHeight = _getToolbarConstrants3.toolbarHeight;

  this.setToolbarMarginAndHeight(scrollTop - threshold, toolbarHeight);
},
handleRevealMode: function handleRevealMode($event) {
```

```
  var _getToolbarConstrants4 = this.getToolbarConstrants($event),
      toolbarHeight = _getToolbarConstrants4.toolbarHeight,
      safeAmount = _getToolbarConstrants4.safeAmount,
      threshold = _getToolbarConstrants4.threshold,
      scrollTop = _getToolbarConstrants4.scrollTop;

  this.setToolbarTimer(scrollTop);
  this.setToolbarMarginAndHeight(scrollTop - threshold, toolbarHeight);

  if (scrollTop >= threshold) {
    this.MdApp.toolbar.revealActive = this.revealLastPos > scrollTop + safeAmount;
  } else {
    this.MdApp.toolbar.revealActive = true;
  }
},
handleFixedLastMode: function handleFixedLastMode($event) {
  var _getToolbarConstrants5 = this.getToolbarConstrants($event),
      scrollTop = _getToolbarConstrants5.scrollTop,
      toolbarHeight = _getToolbarConstrants5.toolbarHeight,
      safeAmount = _getToolbarConstrants5.safeAmount;

  var toolbar = this.MdApp.toolbar.element;
  var firstRow = toolbar.querySelector('.md-toolbar-row:first-child');
  var firstRowHeight = firstRow.offsetHeight;

  this.setToolbarTimer(scrollTop);
  this.setToolbarMarginAndHeight(scrollTop - firstRowHeight, toolbarHeight);
  this.MdApp.toolbar.fixedLastHeight = firstRowHeight;

  if (scrollTop >= firstRowHeight) {
    this.MdApp.toolbar.fixedLastActive = this.revealLastPos > scrollTop + safeAmount;
  } else {
    this.MdApp.toolbar.fixedLastActive = true;
  }
},
handleOverlapMode: function handleOverlapMode($event) {
  var _getToolbarConstrants6 = this.getToolbarConstrants($event),
      toolbarHeight = _getToolbarConstrants6.toolbarHeight,
      scrollTop = _getToolbarConstrants6.scrollTop,
      initialHeight = _getToolbarConstrants6.initialHeight;

  var toolbar = this.MdApp.toolbar.element;
  var firstRow = toolbar.querySelector('.md-toolbar-row:first-child');
  var firstRowHeight = firstRow.offsetHeight;
  var newHeight = initialHeight - scrollTop - scrollTop * 100 / (initialHeight - firstRowHeight
      - firstRowHeight / 1.5);
```

```
    if (firstRowHeight) {
      if (scrollTop < initialHeight - firstRowHeight && newHeight >= firstRowHeight) {
        this.MdApp.toolbar.overlapOff = false;
        toolbar.style.height = newHeight + 'px';
      } else {
        this.MdApp.toolbar.overlapOff = true;
        toolbar.style.height = firstRowHeight + 'px';
      }
    }

    this.setToolbarMarginAndHeight(scrollTop, toolbarHeight);
  },
  handleModeScroll: function handleModeScroll($event) {
    if (this.mdMode === 'reveal') {
      this.handleRevealMode($event);
    } else if (this.mdMode === 'fixed-last') {
      this.handleFixedLastMode($event);
    } else if (this.mdMode === 'overlap') {
      this.handleOverlapMode($event);
    } else if (this.mdMode === 'flexible') {
      this.handleFlexibleMode($event);
    }
  },
  handleScroll: function handleScroll($event) {
    var _this2 = this;

    if (this.MdApp.toolbar.element) {
      (0, _raf2.default)(function () {
        if (_this2.mdWaterfall) {
          _this2.handleWaterfallScroll($event);
        }

        if (_this2.mdMode) {
          _this2.handleModeScroll($event);
        }
      });
    }
  }
},
created: function created() {
  this.MdApp.options.mode = this.mdMode;
  this.MdApp.options.waterfall = this.mdWaterfall;
  this.setToolbarElevation();
},
mounted: function mounted() {
```

```
    var fakeEvent = {
      target: {
        scrollTop: 0
      }
    };

    if (this.mdMode === 'reveal') {
      this.MdApp.toolbar.revealActive = true;
      this.handleRevealMode(fakeEvent);
    }

    if (this.mdMode === 'flexible') {
      this.MdApp.toolbar.revealActive = true;
      this.handleFlexibleMode(fakeEvent);
    }

    if (this.mdMode === 'fixed-last') {
      this.MdApp.toolbar.fixedLastActive = true;
      this.handleFixedLastMode(fakeEvent);
    }

    if (this.mdMode === 'overlap') {
      this.handleOverlapMode(fakeEvent);
    }
  }
};

/***/ }),
/* 32 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdReactive = __webpack_require__(28);

var _MdReactive2 = _interopRequireDefault(_MdReactive);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

var hasEvents = false;
var eventTarget = null;
var supportsPassiveEvent = false;
var MdFocused = new _MdReactive2.default({
```

```
  currentElement: null
});

function checkPassiveEventSupport() {
  try {
    var opts = Object.defineProperty({}, 'passive', {
      get: function get() {
        supportsPassiveEvent = { passive: true };
      }
    });
    window.addEventListener('ghost', null, opts);
  } catch (e) {}
}

function setKeyboardInteraction(_ref) {
  var keyCode = _ref.keyCode,
      target = _ref.target;

  MdFocused.currentElement = target;
}

function setMouseAndTouchInteraction(event) {
  MdFocused.currentElement = null;
}

function createKeyboardEvents() {
  eventTarget.addEventListener('keyup', setKeyboardInteraction);
}

function createPointerEvents() {
  eventTarget.addEventListener('pointerup', setMouseAndTouchInteraction);
}

function createMSPointerEvents() {
  eventTarget.addEventListener('MSPointerUp', setMouseAndTouchInteraction);
}

function createMouseAndTouchEvents() {
  eventTarget.addEventListener('mouseup', setMouseAndTouchInteraction);

  if ('ontouchend' in window) {
    eventTarget.addEventListener('touchend', setMouseAndTouchInteraction,
          supportsPassiveEvent);
  }
}
```

```
function bindEvents() {
  if (window.PointerEvent) {
    createPointerEvents();
  } else if (window.MSPointerEvent) {
    createMSPointerEvents();
  } else {
    createMouseAndTouchEvents();
  }

  createKeyboardEvents();
}

function createEvents() {
  if (!hasEvents) {
    eventTarget = document.body;
    checkPassiveEventSupport();
    bindEvents();
    hasEvents = true;
  }
}

exports.default = {
  data: function data() {
    return {
      mdHasFocus: false
    };
  },
  computed: {
    focusedElement: function focusedElement() {
      return MdFocused.currentElement;
    }
  },
  watch: {
    focusedElement: function focusedElement(el) {
      this.mdHasFocus = el === this.$el;
    }
  },
  mounted: function mounted() {
    createEvents();
  }
};

/***/ }),
/* 33 */
/***/ (function(module, exports, __webpack_require__) {
```

```
Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdRipple = __webpack_require__(8);

var _MdRipple2 = _interopRequireDefault(_MdRipple);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  components: {
    MdRipple: _MdRipple2.default
  },
  props: {
    model: [String, Number, Boolean, Array],
    value: {
      type: [String, Number, Boolean],
      default: 'on'
    },
    name: [String, Number],
    required: Boolean,
    disabled: Boolean
  },
  model: {
    prop: 'model',
    event: 'change'
  },
  data: function data() {
    return {
      rippleActive: false
    };
  },
  computed: {
    isSelected: function isSelected() {
      if (this.isModelArray) {
        return this.model.includes(this.value);
      }

      if (this.isModelBoolean && this.value === 'on') {
        return this.model;
      }

      return this.model === this.value;
    },
```

```
  isModelArray: function isModelArray() {
    return Array.isArray(this.model);
  },
  isModelBoolean: function isModelBoolean() {
    return typeof this.model === 'boolean';
  },
  checkClasses: function checkClasses() {
    return {
      'md-checked': this.isSelected,
      'md-disabled': this.disabled,
      'md-required': this.required
    };
  }
},
methods: {
  removeItemFromModel: function removeItemFromModel(newModel) {
    var index = newModel.indexOf(this.value);

    if (index !== -1) {
      newModel.splice(index, 1);
    }
  },
  handleArrayCheckbox: function handleArrayCheckbox() {
    var newModel = this.model;

    if (!this.isSelected) {
      newModel.push(this.value);
    } else {
      this.removeItemFromModel(newModel);
    }

    this.$emit('change', newModel);
  },
  handleStringCheckbox: function handleStringCheckbox() {
    if (!this.isSelected) {
      this.$emit('change', this.value);
    } else {
      this.$emit('change', null);
    }
  },
  handleBooleanCheckbox: function handleBooleanCheckbox() {
    this.$emit('change', !this.model);
  },
  toggleCheck: function toggleCheck() {
    if (!this.disabled) {
      this.rippleActive = true;
```

```
      if (this.isModelArray) {
        this.handleArrayCheckbox();
      } else if (this.isModelBoolean) {
        this.handleBooleanCheckbox();
      } else {
        this.handleStringCheckbox();
      }
    }
  }
};

/***/ }),
/* 34 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/core/icons/MdClearIcon.vue
var MdClearIcon = __webpack_require__(148);
var MdClearIcon_default = /*#__PURE__*/__webpack_require__.n(MdClearIcon);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        f53126ba","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/core/icons/MdClearIcon.
        vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm._m(1)
};
var staticRenderFns = [
  function() {
    var _vm = this;
    var _h = _vm.$createElement;
    var _c = _vm._self._c || _h;
    return _c(
      "svg",
      {
        attrs: {
          height: "24",
          viewBox: "0 0 24 24",
          width: "24",
```

```
        xmlns: "http://www.w3.org/2000/svg"
      }
    },
    [
      _c("path", {
        attrs: {
          d:
            "M19 6.41L17.59 5 12 10.59 6.41 5 5 6.41 10.59 12 5 17.59 6.41 19 12 13.41 17.59 19
          19 17.59 13.41 12z"
        }
      }),
      _vm._v(" "),
      _c("path", { attrs: { d: "M0 0h24v24H0z", fill: "none" } })
    ]
  )
},
function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c("md-icon", { staticClass: "md-icon-image" }, [_vm._m(0)])
}
];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var icons_MdClearIcon = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
 var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
 MdClearIcon_default.a,
 icons_MdClearIcon,
 __vue_template_functional__,
 __vue_styles__,
 __vue_scopeId__,
 __vue_module_identifier__
```

```
);
Component.options.__file = "src/core/icons/MdClearIcon.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var core_icons_MdClearIcon = __webpack_exports__["default"] =
        (Component.exports);


/***/ }),
/* 35 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdContent_vue__ =
        __webpack_require__(163);
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdContent_vue___default =
        __webpack_require__.n(__WEBPACK_IMPORTED_MODULE_0__babel_loader_node
        _modules_vue_loader_lib_selector_type_script_index_0_bustCache_MdContent_vue__);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */
var __vue_template__ = null;
/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(

        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdContent_vue___default.a,
  __vue_template__,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
```

```
Component.options.__file = "src/components/MdContent/MdContent.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 36 */
/***/ (function(module, exports) {

/**
 * @category Common Helpers
 * @summary Is the given argument an instance of Date?
 *
 * @description
 * Is the given argument an instance of Date?
 *
 * @param {*} argument - the argument to check
 * @returns {Boolean} the given argument is an instance of Date
 *
 * @example
 * // Is 'mayonnaise' a Date?
 * var result = isDate('mayonnaise')
 * //=> false
 */
function isDate (argument) {
  return argument instanceof Date
}

module.exports = isDate;


/***/ }),
/* 37 */
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);
var startOfISOWeek = __webpack_require__(22);

/**
 * @category ISO Week-Numbering Year Helpers
 * @summary Get the ISO week-numbering year of the given date.
 *
 * @description
```

```
 * Get the ISO week-numbering year of the given date,
 * which always starts 3 days before the year's first Thursday.
 *
 * ISO week-numbering year: http://en.wikipedia.org/wiki/ISO_week_date
 *
 * @param {Date|String|Number} date - the given date
 * @returns {Number} the ISO week-numbering year
 *
 * @example
 * // Which ISO-week numbering year is 2 January 2005?
 * var result = getISOYear(new Date(2005, 0, 2))
 * //=> 2004
 */
function getISOYear (dirtyDate) {
  var date = parse(dirtyDate);
  var year = date.getFullYear();

  var fourthOfJanuaryOfNextYear = new Date(0);
  fourthOfJanuaryOfNextYear.setFullYear(year + 1, 0, 4);
  fourthOfJanuaryOfNextYear.setHours(0, 0, 0, 0);
  var startOfNextYear = startOfISOWeek(fourthOfJanuaryOfNextYear);

  var fourthOfJanuaryOfThisYear = new Date(0);
  fourthOfJanuaryOfThisYear.setFullYear(year, 0, 4);
  fourthOfJanuaryOfThisYear.setHours(0, 0, 0, 0);
  var startOfThisYear = startOfISOWeek(fourthOfJanuaryOfThisYear);

  if (date.getTime() >= startOfNextYear.getTime()) {
    return year + 1
  } else if (date.getTime() >= startOfThisYear.getTime()) {
    return year
  } else {
    return year - 1
  }
}

module.exports = getISOYear;


/***/ }),
/* 38 */
/***/ (function(module, exports, __webpack_require__) {

var isDate = __webpack_require__(36);

/**
```

```
 * @category Common Helpers
 * @summary Is the given date valid?
 *
 * @description
 * Returns false if argument is Invalid Date and true otherwise.
 * Invalid Date is a Date, whose time value is NaN.
 *
 * Time value of Date: http://es5.github.io/#x15.9.1.1
 *
 * @param {Date} date - the date to check
 * @returns {Boolean} the date is valid
 * @throws {TypeError} argument must be an instance of Date
 *
 * @example
 * // For the valid date:
 * var result = isValid(new Date(2014, 1, 31))
 * //=> true
 *
 * @example
 * // For the invalid date:
 * var result = isValid(new Date(''))
 * //=> false
 */
function isValid (dirtyDate) {
  if (isDate(dirtyDate)) {
    return !isNaN(dirtyDate)
  } else {
    throw new TypeError(toString.call(dirtyDate) + ' is not an instance of Date')
  }
}

module.exports = isValid;


/***/ }),
/* 39 */
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);
var getDaysInMonth = __webpack_require__(24);

/**
 * @category Month Helpers
 * @summary Add the specified number of months to the given date.
 *
 * @description
```

```
 * Add the specified number of months to the given date.
 *
 * @param {Date|String|Number} date - the date to be changed
 * @param {Number} amount - the amount of months to be added
 * @returns {Date} the new date with the months added
 *
 * @example
 * // Add 5 months to 1 September 2014:
 * var result = addMonths(new Date(2014, 8, 1), 5)
 * //=> Sun Feb 01 2015 00:00:00
 */
function addMonths (dirtyDate, dirtyAmount) {
  var date = parse(dirtyDate);
  var amount = Number(dirtyAmount);
  var desiredMonth = date.getMonth() + amount;
  var dateWithDesiredMonth = new Date(0);
  dateWithDesiredMonth.setFullYear(date.getFullYear(), desiredMonth, 1);
  dateWithDesiredMonth.setHours(0, 0, 0, 0);
  var daysInMonth = getDaysInMonth(dateWithDesiredMonth);
  // Set the last day of the new month
  // if the original date was the last day of the longer month
  date.setMonth(desiredMonth, Math.min(daysInMonth, date.getDate()));
  return date
}

module.exports = addMonths;


/***/ }),
/* 40 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _vue = __webpack_require__(7);

var _vue2 = _interopRequireDefault(_vue);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdFocusTrap',
  abstract: true,
```

```
  methods: {
    setFocus: function setFocus() {
      var _this = this;

      window.setTimeout(function () {
        if (_this.$el.tagName) {
          _this.$el.setAttribute('tabindex', '-1');
          _this.$el.focus();
        }
      }, 20);
    }
  },
  mounted: function mounted() {
    this.setFocus();
  },
  render: function render() {
    try {
      var defaultSlot = this.$slots.default;

      if (!defaultSlot) {
        return null;
      }

      if (defaultSlot.length > 1) {
        throw new Error();
      }

      return defaultSlot[0];
    } catch (e) {
      _vue2.default.util.warn('MdFocusTrap can only render one, and exactly one child
          component.', this);
    }

    return null;
  }
};

/***/ }),
/* 41 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdEmptyState/
        MdEmptyState.vue
var MdEmptyState = __webpack_require__(239);
```

```
var MdEmptyState_default = /*#__PURE__*/__webpack_require__.n(MdEmptyState);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        d8a893a2","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdEmptySt
        ate/MdEmptyState.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c("transition", { attrs: { name: "md-empty-state", appear: "" } }, [
    _c(
      "div",
      {
        staticClass: "md-empty-state",
        class: [_vm.emptyStateClasses, _vm.$mdActiveTheme],
        style: _vm.emptyStateStyles
      },
      [
        _c(
          "div",
          { staticClass: "md-empty-state-container" },
          [
            _vm.mdIcon
              ? [
                  _vm.isAssetIcon(_vm.mdIcon)
                    ? _c("md-icon", {
                        staticClass: "md-empty-state-icon",
                        attrs: { "md-src": _vm.mdIcon }
                      })
                    : _c("md-icon", { staticClass: "md-empty-state-icon" }, [
                        _vm._v(_vm._s(_vm.mdIcon))
                      ])
                ]
              : _vm._e(),
            _vm._v(" "),
            _vm.mdLabel
              ? _c("strong", { staticClass: "md-empty-state-label" }, [
                  _vm._v(_vm._s(_vm.mdLabel))
                ])
              : _vm._e(),
            _vm._v(" "),
            _vm.mdDescription
              ? _c("p", { staticClass: "md-empty-state-description" }, [
                  _vm._v(_vm._s(_vm.mdDescription))
```

```
            ])
          : _vm._e(),
        _vm._v(" "),
        _vm._t("default")
      ],
      2
    )
  ]
 )
])
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdEmptyState_MdEmptyState = (esExports);
// CONCATENATED MODULE: ./src/components/MdEmptyState/MdEmptyState.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(238);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdEmptyState_default.a,
  MdEmptyState_MdEmptyState,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdEmptyState/MdEmptyState.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}
```

```
/* harmony default export */ var components_MdEmptyState_MdEmptyState =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 42 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
exports.default = {
  mdRounded: Boolean,
  mdSize: {
    type: Number,
    default: 420
  },
  mdIcon: String,
  mdLabel: String,
  mdDescription: String
};

/***/ }),
/* 43 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdIcon = __webpack_require__(5);

var _MdIcon2 = _interopRequireDefault(_MdIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdIcon2.default.name, _MdIcon2.default);
```

```
};

/***/ }),
/* 44 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdMenu/MdM
        enu.vue
var MdMenu = __webpack_require__(248);
var MdMenu_default = /*#__PURE__*/__webpack_require__.n(MdMenu);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        577c0662","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdMenu/M
        dMenu.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    _vm._g({ staticClass: "md-menu" }, _vm.$listeners),
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdMenu_MdMenu = (esExports);
// CONCATENATED MODULE: ./src/components/MdMenu/MdMenu.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(247);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
```

```
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdMenu_default.a,
  MdMenu_MdMenu,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdMenu/MdMenu.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdMenu_MdMenu =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 45 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdMenu/MdM
        enuContent.vue
var MdMenuContent = __webpack_require__(250);
var MdMenuContent_default = /*#__PURE__*/__webpack_require__.n(MdMenuContent);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        2c16774c","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdMenu/M
        dMenuContent.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-popover",
    {
```

```
  attrs: {
    "md-settings": _vm.popperSettings,
    "md-active": _vm.shouldRender
  }
},
[
  _vm.shouldRender
    ? _c(
        "transition",
        { attrs: { name: "md-menu-content", css: _vm.didMount } },
        [
          _c(
            "div",
            {
              class: [
                _vm.menuClasses,
                _vm.mdContentClass,
                _vm.$mdActiveTheme
              ],
              style: _vm.menuStyles,
              on: {
                keydown: [
                  function($event) {
                    if (
                      !("button" in $event) &&
                      _vm._k(
                        $event.keyCode,
                        "arrow-down",
                        undefined,
                        $event.key
                      )
                    ) {
                      return null
                    }
                    $event.preventDefault();
                    _vm.setHighlight("down");
                  },
                  function($event) {
                    if (
                      !("button" in $event) &&
                      _vm._k(
                        $event.keyCode,
                        "arrow-up",
                        undefined,
                        $event.key
                      )
```

```
        ) {
          return null
        }
        $event.preventDefault();
        _vm.setHighlight("up");
      },
      function($event) {
        if (
          !("button" in $event) &&
          _vm._k($event.keyCode, "space", 32, $event.key)
        ) {
          return null
        }
        $event.preventDefault();
        _vm.setSelection($event);
      },
      function($event) {
        if (
          !("button" in $event) &&
          _vm._k($event.keyCode, "enter", 13, $event.key)
        ) {
          return null
        }
        $event.preventDefault();
        _vm.setSelection($event);
      }
    ]
  }
},
[
  _c(
    "div",
    {
      staticClass: "md-menu-content-container md-scrollbar",
      class: _vm.$mdActiveTheme
    },
    [
      _c(
        "md-list",
        _vm._b(
          {
            class: _vm.listClasses,
            on: {
              keydown: function($event) {
                if (
                  !("button" in $event) &&
```

```
                        _vm._k($event.keyCode, "esc", 27, $event.key)
                      ) {
                        return null
                      }
                      _vm.onEsc($event);
                    }
                  }
                },
                "md-list",
                _vm.$attrs,
                false
              ),
              [_vm._t("default")],
              2
            )
          ],
          1
        )
      )
    ]
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdMenu_MdMenuContent = (esExports);
// CONCATENATED MODULE: ./src/components/MdMenu/MdMenuContent.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(249);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
```

```
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdMenuContent_default.a,
  MdMenu_MdMenuContent,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdMenu/MdMenuContent.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdMenu_MdMenuContent =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 46 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

exports.default = function (el, eventName, observerFn, options) {
  function killObserver() {
    el.removeEventListener(eventName, observerFn);
  }

  el.addEventListener(eventName, observerFn, options || false);

  return {
    destroy: killObserver
  };
};

/***/ }),
/* 47 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
```

```
// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdList/MdList.
        vue
var MdList = __webpack_require__(253);
var MdList_default = /*#__PURE__*/__webpack_require__.n(MdList);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        16ed17ef","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdList/MdL
        ist.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "ul",
    _vm._g(
      _vm._b(
        { staticClass: "md-list", class: [_vm.$mdActiveTheme] },
        "ul",
        _vm.$attrs,
        false
      ),
      _vm.$listeners
    ),
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdList_MdList = (esExports);
// CONCATENATED MODULE: ./src/components/MdList/MdList.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(252);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */
```

```
/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdList_default.a,
  MdList_MdList,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdList/MdList.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdList_MdList =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 48 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdListItem_vue__ =
        __webpack_require__(279);
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdListItem_vue___default =
        __webpack_require__.n(__WEBPACK_IMPORTED_MODULE_0__babel_loader_node
        _modules_vue_loader_lib_selector_type_script_index_0_bustCache_MdListItem_vue__)
        ;
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(278);
}
var normalizeComponent = __webpack_require__(0);
/* script */
```

```
/* template */
var __vue_template__ = null;
/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(

        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdListItem_vue___default.a,
  __vue_template__,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdList/MdListItem/MdListItem.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 49 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
exports.default = ['click', 'dblclick', 'mousedown', 'mouseup'];

/***/ }),
/* 50 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
```

```
// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdSteppers/Md
        StepHeader.vue
var MdStepHeader = __webpack_require__(332);
var MdStepHeader_default = /*#__PURE__*/__webpack_require__.n(MdStepHeader);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        43e95866","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdSteppers/
        MdStepHeader.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-button",
    _vm._g(
      _vm._b(
        {
          staticClass: "md-stepper-header",
          class: _vm.classes,
          attrs: { disabled: _vm.shouldDisable },
          nativeOn: {
            click: function($event) {
              _vm.MdSteppers.setActiveStep(_vm.index);
            }
          }
        },
        "md-button",
        _vm.data.props,
        false
      ),
      _vm.data.events
    ),
    [
      _vm.data.error
        ? _c("md-warning-icon", { staticClass: "md-stepper-icon" })
        : _c(
            "div",
            { staticClass: "md-stepper-number" },
            [
              _vm.data.done && _vm.data.editable
                ? _c("md-edit-icon", { staticClass: "md-stepper-editable" })
                : _vm.data.done
                  ? _c("md-check-icon", { staticClass: "md-stepper-done" })
```

```
                : [_vm._v(_vm._s(_vm.MdSteppers.getStepperNumber(_vm.index)))]
            ],
            2
          ),
      _vm._v(" "),
      _c("div", { staticClass: "md-stepper-text" }, [
        _c("span", { staticClass: "md-stepper-label" }, [
          _vm._v(_vm._s(_vm.data.label))
        ]),
        _vm._v(" "),
        _vm.data.error
          ? _c("span", { staticClass: "md-stepper-error" }, [
              _vm._v(_vm._s(_vm.data.error))
            ])
          : _vm.data.description
            ? _c("span", { staticClass: "md-stepper-description" }, [
                _vm._v(_vm._s(_vm.data.description))
              ])
            : _vm._e()
      ])
    ],
    1
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdSteppers_MdStepHeader = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdStepHeader_default.a,
  MdSteppers_MdStepHeader,
  __vue_template_functional__,
  __vue_styles__,
```

```
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdSteppers/MdStepHeader.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdSteppers_MdStepHeader =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 51 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdTable/MdTa
        bleRow.vue
var MdTableRow = __webpack_require__(369);
var MdTableRow_default = /*#__PURE__*/__webpack_require__.n(MdTableRow);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        00a4496a","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdTable/M
        dTableRow.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "tr",
    {
      staticClass: "md-table-row",
      class: _vm.rowClasses,
      on: { click: _vm.onClick }
    },
    [
      _vm.selectableCount
        ? _c("md-table-cell-selection", {
            attrs: {
              "md-disabled": _vm.mdDisabled,
              "md-selectable": _vm.mdSelectable === "multiple",
              "md-row-id": _vm.mdIndex
```

```
          },
          model: {
            value: _vm.isSelected,
            callback: function($$v) {
              _vm.isSelected = $$v;
            },
            expression: "isSelected"
          }
        })
      : _vm._e(),
    _vm._v(" "),
    _vm._t("default")
  ],
  2
 )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdTable_MdTableRow = (esExports);
// CONCATENATED MODULE: ./src/components/MdTable/MdTableRow.vue
var disposed = false;
function injectStyle (ssrContext) {
 if (disposed) { return }
 __webpack_require__(368);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
 var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
 MdTableRow_default.a,
 MdTable_MdTableRow,
 __vue_template_functional__,
 __vue_styles__,
 __vue_scopeId__,
 __vue_module_identifier__
```

```
);
Component.options.__file = "src/components/MdTable/MdTableRow.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdTable_MdTableRow =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 52 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdTable/MdTa
        bleCellSelection.vue
var MdTableCellSelection = __webpack_require__(371);
var MdTableCellSelection_default =
        /*#__PURE__*/__webpack_require__.n(MdTableCellSelection);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        50a4b70a","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdTable/M
        dTableCellSelection.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm.mdSelectable
    ? _c("td", { staticClass: "md-table-cell md-table-cell-selection" }, [
        _c(
          "div",
          { staticClass: "md-table-cell-container" },
          [
            _c("md-checkbox", {
              attrs: { disabled: !_vm.mdSelectable || _vm.mdDisabled },
              on: { change: _vm.onChange },
              model: {
                value: _vm.isSelected,
                callback: function($$v) {
                  _vm.isSelected = $$v;
                },
                expression: "isSelected"
```

```
            }
          })
        ],
        1
      )
    ])
  : _vm._e()
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdTable_MdTableCellSelection = (esExports);
// CONCATENATED MODULE: ./src/components/MdTable/MdTableCellSelection.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(370);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdTableCellSelection_default.a,
  MdTable_MdTableCellSelection,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdTable/MdTableCellSelection.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdTable_MdTableCellSelection =
        __webpack_exports__["default"] = (Component.exports);
```

```
/***/ }),
/* 53 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdToolbar/Md
        Toolbar.vue
var MdToolbar = __webpack_require__(378);
var MdToolbar_default = /*#__PURE__*/__webpack_require__.n(MdToolbar);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        38a0b4d9","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdToolbar/
        MdToolbar.vue

var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    {
      staticClass: "md-toolbar",
      class: [_vm.$mdActiveTheme, "md-elevation-" + _vm.mdElevation]
    },
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdToolbar_MdToolbar = (esExports);
// CONCATENATED MODULE: ./src/components/MdToolbar/MdToolbar.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(377);
}
var normalizeComponent = __webpack_require__(0);
/* script */
```

```
/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdToolbar_default.a,
  MdToolbar_MdToolbar,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdToolbar/MdToolbar.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdToolbar_MdToolbar =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 54 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

__webpack_require__(55);

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _components = __webpack_require__(57);

var MdComponents = _interopRequireWildcard(_components);
```

```
function _interopRequireWildcard(obj) { if (obj && obj.__esModule) { return obj; } else { var
        newObj = {}; if (obj != null) { for (var key in obj) { if
        (Object.prototype.hasOwnProperty.call(obj, key)) { newObj[key] = obj[key]; } } }
        newObj.default = obj; return newObj; } }

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

var VueMaterial = function VueMaterial(Vue) {
  (0, _material2.default)(Vue);

  Object.values(MdComponents).forEach(function (MdComponent) {
    Vue.use(MdComponent);
  });
};

VueMaterial.version = '__VERSION__';

exports.default = VueMaterial;

/***/ }),
/* 55 */
/***/ (function(module, exports, __webpack_require__) {

/* WEBPACK VAR INJECTION */(function(global) {/**
 * Copyright (c) 2014, Facebook, Inc.
 * All rights reserved.
 *
 * This source code is licensed under the BSD-style license found in the
 * https://raw.github.com/facebook/regenerator/master/LICENSE file. An
 * additional grant of patent rights can be found in the PATENTS file in
 * the same directory.
 */

!(function(global) {

  var Op = Object.prototype;
  var hasOwn = Op.hasOwnProperty;
  var undefined; // More compressible than void 0.
  var $Symbol = typeof Symbol === "function" ? Symbol : {};
  var iteratorSymbol = $Symbol.iterator || "@@iterator";
  var asyncIteratorSymbol = $Symbol.asyncIterator || "@@asyncIterator";
  var toStringTagSymbol = $Symbol.toStringTag || "@@toStringTag";

  var inModule = typeof module === "object";
  var runtime = global.regeneratorRuntime;
  if (runtime) {
```

```
  if (inModule) {
    // If regeneratorRuntime is defined globally and we're in a module,
    // make the exports object identical to regeneratorRuntime.
    module.exports = runtime;
  }
  // Don't bother evaluating the rest of this file if the runtime was
  // already defined globally.
  return;
}

// Define the runtime globally (as expected by generated code) as either
// module.exports (if we're in a module) or a new, empty object.
runtime = global.regeneratorRuntime = inModule ? module.exports : {};

function wrap(innerFn, outerFn, self, tryLocsList) {
  // If outerFn provided and outerFn.prototype is a Generator, then outerFn.prototype instanceof
      Generator.
  var protoGenerator = outerFn && outerFn.prototype instanceof Generator ? outerFn :
      Generator;
  var generator = Object.create(protoGenerator.prototype);
  var context = new Context(tryLocsList || []);

  // The ._invoke method unifies the implementations of the .next,
  // .throw, and .return methods.
  generator._invoke = makeInvokeMethod(innerFn, self, context);

  return generator;
}
runtime.wrap = wrap;

// Try/catch helper to minimize deoptimizations. Returns a completion
// record like context.tryEntries[i].completion. This interface could
// have been (and was previously) designed to take a closure to be
// invoked without arguments, but in all the cases we care about we
// already have an existing method we want to call, so there's no need
// to create a new function object. We can even get away with assuming
// the method takes exactly one argument, since that happens to be true
// in every case, so we don't have to touch the arguments object. The
// only additional allocation required is the completion record, which
// has a stable shape and so hopefully should be cheap to allocate.
function tryCatch(fn, obj, arg) {
  try {
    return { type: "normal", arg: fn.call(obj, arg) };
  } catch (err) {
    return { type: "throw", arg: err };
  }
```

```
}

var GenStateSuspendedStart = "suspendedStart";
var GenStateSuspendedYield = "suspendedYield";
var GenStateExecuting = "executing";
var GenStateCompleted = "completed";

// Returning this object from the innerFn has the same effect as
// breaking out of the dispatch switch statement.
var ContinueSentinel = {};

// Dummy constructor functions that we use as the .constructor and
// .constructor.prototype properties for functions that return Generator
// objects. For full spec compliance, you may wish to configure your
// minifier not to mangle the names of these two functions.
function Generator() {}
function GeneratorFunction() {}
function GeneratorFunctionPrototype() {}

// This is a polyfill for %IteratorPrototype% for environments that
// don't natively support it.
var IteratorPrototype = {};
IteratorPrototype[iteratorSymbol] = function () {
  return this;
};

var getProto = Object.getPrototypeOf;
var NativeIteratorPrototype = getProto && getProto(getProto(values([])));
if (NativeIteratorPrototype &&
    NativeIteratorPrototype !== Op &&
    hasOwn.call(NativeIteratorPrototype, iteratorSymbol)) {
  // This environment has a native %IteratorPrototype%; use it instead
  // of the polyfill.
  IteratorPrototype = NativeIteratorPrototype;
}

var Gp = GeneratorFunctionPrototype.prototype =
  Generator.prototype = Object.create(IteratorPrototype);
GeneratorFunction.prototype = Gp.constructor = GeneratorFunctionPrototype;
GeneratorFunctionPrototype.constructor = GeneratorFunction;
GeneratorFunctionPrototype[toStringTagSymbol] =
  GeneratorFunction.displayName = "GeneratorFunction";

// Helper for defining the .next, .throw, and .return methods of the
// Iterator interface in terms of a single ._invoke method.
function defineIteratorMethods(prototype) {
```

```
  ["next", "throw", "return"].forEach(function(method) {
    prototype[method] = function(arg) {
      return this._invoke(method, arg);
    };
  });
}

runtime.isGeneratorFunction = function(genFun) {
  var ctor = typeof genFun === "function" && genFun.constructor;
  return ctor
    ? ctor === GeneratorFunction ||
      // For the native GeneratorFunction constructor, the best we can
      // do is to check its .name property.
      (ctor.displayName || ctor.name) === "GeneratorFunction"
    : false;
};

runtime.mark = function(genFun) {
  if (Object.setPrototypeOf) {
    Object.setPrototypeOf(genFun, GeneratorFunctionPrototype);
  } else {
    genFun.__proto__ = GeneratorFunctionPrototype;
    if (!(toStringTagSymbol in genFun)) {
      genFun[toStringTagSymbol] = "GeneratorFunction";
    }
  }
  genFun.prototype = Object.create(Gp);
  return genFun;
};

// Within the body of any async function, `await x` is transformed to
// `yield regeneratorRuntime.awrap(x)`, so that the runtime can test
// `hasOwn.call(value, "__await")` to determine if the yielded value is
// meant to be awaited.
runtime.awrap = function(arg) {
  return { __await: arg };
};

function AsyncIterator(generator) {
  function invoke(method, arg, resolve, reject) {
    var record = tryCatch(generator[method], generator, arg);
    if (record.type === "throw") {
      reject(record.arg);
    } else {
      var result = record.arg;
      var value = result.value;
```

```
    if (value &&
        typeof value === "object" &&
        hasOwn.call(value, "__await")) {
      return Promise.resolve(value.__await).then(function(value) {
        invoke("next", value, resolve, reject);
      }, function(err) {
        invoke("throw", err, resolve, reject);
      });
    }

    return Promise.resolve(value).then(function(unwrapped) {
      // When a yielded Promise is resolved, its final value becomes
      // the .value of the Promise<{value,done}> result for the
      // current iteration. If the Promise is rejected, however, the
      // result for this iteration will be rejected with the same
      // reason. Note that rejections of yielded Promises are not
      // thrown back into the generator function, as is the case
      // when an awaited Promise is rejected. This difference in
      // behavior between yield and await is important, because it
      // allows the consumer to decide what to do with the yielded
      // rejection (swallow it and continue, manually .throw it back
      // into the generator, abandon iteration, whatever). With
      // await, by contrast, there is no opportunity to examine the
      // rejection reason outside the generator function, so the
      // only option is to throw it from the await expression, and
      // let the generator function handle the exception.
      result.value = unwrapped;
      resolve(result);
    }, reject);
  }
}

if (typeof global.process === "object" && global.process.domain) {
  invoke = global.process.domain.bind(invoke);
}

var previousPromise;

function enqueue(method, arg) {
  function callInvokeWithMethodAndArg() {
    return new Promise(function(resolve, reject) {
      invoke(method, arg, resolve, reject);
    });
  }

  return previousPromise =
```

```
      // If enqueue has been called before, then we want to wait until
      // all previous Promises have been resolved before calling invoke,
      // so that results are always delivered in the correct order. If
      // enqueue has not been called before, then it is important to
      // call invoke immediately, without waiting on a callback to fire,
      // so that the async generator function has the opportunity to do
      // any necessary setup in a predictable way. This predictability
      // is why the Promise constructor synchronously invokes its
      // executor callback, and why async functions synchronously
      // execute code before the first await. Since we implement simple
      // async functions in terms of async generators, it is especially
      // important to get this right, even though it requires care.
      previousPromise ? previousPromise.then(
        callInvokeWithMethodAndArg,
        // Avoid propagating failures to Promises returned by later
        // invocations of the iterator.
        callInvokeWithMethodAndArg
      ) : callInvokeWithMethodAndArg();
    }

    // Define the unified helper method that is used to implement .next,
    // .throw, and .return (see defineIteratorMethods).
    this._invoke = enqueue;
  }

  defineIteratorMethods(AsyncIterator.prototype);
  AsyncIterator.prototype[asyncIteratorSymbol] = function () {
    return this;
  };
  runtime.AsyncIterator = AsyncIterator;

  // Note that simple async functions are implemented on top of
  // AsyncIterator objects; they just return a Promise for the value of
  // the final result produced by the iterator.
  runtime.async = function(innerFn, outerFn, self, tryLocsList) {
    var iter = new AsyncIterator(
      wrap(innerFn, outerFn, self, tryLocsList)
    );

    return runtime.isGeneratorFunction(outerFn)
      ? iter // If outerFn is a generator, return the full iterator.
      : iter.next().then(function(result) {
          return result.done ? result.value : iter.next();
        });
  };
```

```
function makeInvokeMethod(innerFn, self, context) {
  var state = GenStateSuspendedStart;

  return function invoke(method, arg) {
    if (state === GenStateExecuting) {
      throw new Error("Generator is already running");
    }

    if (state === GenStateCompleted) {
      if (method === "throw") {
        throw arg;
      }

      // Be forgiving, per 25.3.3.3.3 of the spec:
      // https://people.mozilla.org/~jorendorff/es6-draft.html#sec-generatorresume
      return doneResult();
    }

    context.method = method;
    context.arg = arg;

    while (true) {
      var delegate = context.delegate;
      if (delegate) {
        var delegateResult = maybeInvokeDelegate(delegate, context);
        if (delegateResult) {
          if (delegateResult === ContinueSentinel) { continue; }
          return delegateResult;
        }
      }

      if (context.method === "next") {
        // Setting context._sent for legacy support of Babel's
        // function.sent implementation.
        context.sent = context._sent = context.arg;

      } else if (context.method === "throw") {
        if (state === GenStateSuspendedStart) {
          state = GenStateCompleted;
          throw context.arg;
        }

        context.dispatchException(context.arg);

      } else if (context.method === "return") {
        context.abrupt("return", context.arg);
```

```
      }

      state = GenStateExecuting;

      var record = tryCatch(innerFn, self, context);
      if (record.type === "normal") {
        // If an exception is thrown from innerFn, we leave state ===
        // GenStateExecuting and loop back for another invocation.
        state = context.done
          ? GenStateCompleted
          : GenStateSuspendedYield;

        if (record.arg === ContinueSentinel) {
          continue;
        }

        return {
          value: record.arg,
          done: context.done
        };

      } else if (record.type === "throw") {
        state = GenStateCompleted;
        // Dispatch the exception by looping back around to the
        // context.dispatchException(context.arg) call above.
        context.method = "throw";
        context.arg = record.arg;
      }
    }
  };
}

// Call delegate.iterator[context.method](context.arg) and handle the
// result, either by returning a { value, done } result from the
// delegate iterator, or by modifying context.method and context.arg,
// setting context.delegate to null, and returning the ContinueSentinel.
function maybeInvokeDelegate(delegate, context) {
  var method = delegate.iterator[context.method];
  if (method === undefined) {
    // A .throw or .return when the delegate iterator has no .throw
    // method always terminates the yield* loop.
    context.delegate = null;

    if (context.method === "throw") {
      if (delegate.iterator.return) {
        // If the delegate iterator has a return method, give it a
```

```
      // chance to clean up.
      context.method = "return";
      context.arg = undefined;
      maybeInvokeDelegate(delegate, context);

      if (context.method === "throw") {
        // If maybeInvokeDelegate(context) changed context.method from
        // "return" to "throw", let that override the TypeError below.
        return ContinueSentinel;
      }
    }

    context.method = "throw";
    context.arg = new TypeError(
      "The iterator does not provide a 'throw' method");
  }

  return ContinueSentinel;
}

var record = tryCatch(method, delegate.iterator, context.arg);

if (record.type === "throw") {
  context.method = "throw";
  context.arg = record.arg;
  context.delegate = null;
  return ContinueSentinel;
}

var info = record.arg;

if (! info) {
  context.method = "throw";
  context.arg = new TypeError("iterator result is not an object");
  context.delegate = null;
  return ContinueSentinel;
}

if (info.done) {
  // Assign the result of the finished delegate to the temporary
  // variable specified by delegate.resultName (see delegateYield).
  context[delegate.resultName] = info.value;

  // Resume execution at the desired location (see delegateYield).
  context.next = delegate.nextLoc;
```

```
    // If context.method was "throw" but the delegate handled the
    // exception, let the outer generator proceed normally. If
    // context.method was "next", forget context.arg since it has been
    // "consumed" by the delegate iterator. If context.method was
    // "return", allow the original .return call to continue in the
    // outer generator.
    if (context.method !== "return") {
      context.method = "next";
      context.arg = undefined;
    }

  } else {
    // Re-yield the result returned by the delegate method.
    return info;
  }

  // The delegate iterator is finished, so forget it and continue with
  // the outer generator.
  context.delegate = null;
  return ContinueSentinel;
}

// Define Generator.prototype.{next,throw,return} in terms of the
// unified ._invoke helper method.
defineIteratorMethods(Gp);

Gp[toStringTagSymbol] = "Generator";

// A Generator should always return itself as the iterator object when the
// @@iterator function is called on it. Some browsers' implementations of the
// iterator prototype chain incorrectly implement this, causing the Generator
// object to not be returned from this call. This ensures that doesn't happen.
// See https://github.com/facebook/regenerator/issues/274 for more details.
Gp[iteratorSymbol] = function() {
  return this;
};

Gp.toString = function() {
  return "[object Generator]";
};

function pushTryEntry(locs) {
  var entry = { tryLoc: locs[0] };

  if (1 in locs) {
    entry.catchLoc = locs[1];
```

```
  }

  if (2 in locs) {
    entry.finallyLoc = locs[2];
    entry.afterLoc = locs[3];
  }

  this.tryEntries.push(entry);
}

function resetTryEntry(entry) {
  var record = entry.completion || {};
  record.type = "normal";
  delete record.arg;
  entry.completion = record;
}

function Context(tryLocsList) {
  // The root entry object (effectively a try statement without a catch
  // or a finally block) gives us a place to store values thrown from
  // locations where there is no enclosing try statement.
  this.tryEntries = [{ tryLoc: "root" }];
  tryLocsList.forEach(pushTryEntry, this);
  this.reset(true);
}

runtime.keys = function(object) {
  var keys = [];
  for (var key in object) {
    keys.push(key);
  }
  keys.reverse();

  // Rather than returning an object with a next method, we keep
  // things simple and return the next function itself.
  return function next() {
    while (keys.length) {
      var key = keys.pop();
      if (key in object) {
        next.value = key;
        next.done = false;
        return next;
      }
    }

    // To avoid creating an additional object, we just hang the .value
```

```
    // and .done properties off the next function object itself. This
    // also ensures that the minifier will not anonymize the function.
    next.done = true;
    return next;
  };
};

function values(iterable) {
  if (iterable) {
    var iteratorMethod = iterable[iteratorSymbol];
    if (iteratorMethod) {
      return iteratorMethod.call(iterable);
    }

    if (typeof iterable.next === "function") {
      return iterable;
    }

    if (!isNaN(iterable.length)) {
      var i = -1, next = function next() {
        while (++i < iterable.length) {
          if (hasOwn.call(iterable, i)) {
            next.value = iterable[i];
            next.done = false;
            return next;
          }
        }

        next.value = undefined;
        next.done = true;

        return next;
      };

      return next.next = next;
    }
  }

  // Return an iterator with no values.
  return { next: doneResult };
}
runtime.values = values;

function doneResult() {
  return { value: undefined, done: true };
}
```

```
Context.prototype = {
  constructor: Context,

  reset: function(skipTempReset) {
    var this$1 = this;

    this.prev = 0;
    this.next = 0;
    // Resetting context._sent for legacy support of Babel's
    // function.sent implementation.
    this.sent = this._sent = undefined;
    this.done = false;
    this.delegate = null;

    this.method = "next";
    this.arg = undefined;

    this.tryEntries.forEach(resetTryEntry);

    if (!skipTempReset) {
      for (var name in this$1) {
        // Not sure about the optimal order of these conditions:
        if (name.charAt(0) === "t" &&
            hasOwn.call(this$1, name) &&
            !isNaN(+name.slice(1))) {
          this$1[name] = undefined;
        }
      }
    }
  },

  stop: function() {
    this.done = true;

    var rootEntry = this.tryEntries[0];
    var rootRecord = rootEntry.completion;
    if (rootRecord.type === "throw") {
      throw rootRecord.arg;
    }

    return this.rval;
  },

  dispatchException: function(exception) {
    var this$1 = this;
```

```
if (this.done) {
  throw exception;
}

var context = this;
function handle(loc, caught) {
  record.type = "throw";
  record.arg = exception;
  context.next = loc;

  if (caught) {
    // If the dispatched exception was caught by a catch block,
    // then let that catch block handle the exception normally.
    context.method = "next";
    context.arg = undefined;
  }

  return !! caught;
}

for (var i = this.tryEntries.length - 1; i >= 0; --i) {
  var entry = this$1.tryEntries[i];
  var record = entry.completion;

  if (entry.tryLoc === "root") {
    // Exception thrown outside of any try block that could handle
    // it, so set the completion value of the entire function to
    // throw the exception.
    return handle("end");
  }

  if (entry.tryLoc <= this$1.prev) {
    var hasCatch = hasOwn.call(entry, "catchLoc");
    var hasFinally = hasOwn.call(entry, "finallyLoc");

    if (hasCatch && hasFinally) {
      if (this$1.prev < entry.catchLoc) {
        return handle(entry.catchLoc, true);
      } else if (this$1.prev < entry.finallyLoc) {
        return handle(entry.finallyLoc);
      }

    } else if (hasCatch) {
      if (this$1.prev < entry.catchLoc) {
        return handle(entry.catchLoc, true);
```

```
        }

      } else if (hasFinally) {
        if (this$1.prev < entry.finallyLoc) {
          return handle(entry.finallyLoc);
        }

      } else {
        throw new Error("try statement without catch or finally");
      }
    }
  }
},

abrupt: function(type, arg) {
  var this$1 = this;

  for (var i = this.tryEntries.length - 1; i >= 0; --i) {
    var entry = this$1.tryEntries[i];
    if (entry.tryLoc <= this$1.prev &&
        hasOwn.call(entry, "finallyLoc") &&
        this$1.prev < entry.finallyLoc) {
      var finallyEntry = entry;
      break;
    }
  }

  if (finallyEntry &&
      (type === "break" ||
       type === "continue") &&
      finallyEntry.tryLoc <= arg &&
      arg <= finallyEntry.finallyLoc) {
    // Ignore the finally entry if control is not jumping to a
    // location outside the try/catch block.
    finallyEntry = null;
  }

  var record = finallyEntry ? finallyEntry.completion : {};
  record.type = type;
  record.arg = arg;

  if (finallyEntry) {
    this.method = "next";
    this.next = finallyEntry.finallyLoc;
    return ContinueSentinel;
  }
```

```
  return this.complete(record);
},

complete: function(record, afterLoc) {
  if (record.type === "throw") {
    throw record.arg;
  }

  if (record.type === "break" ||
      record.type === "continue") {
    this.next = record.arg;
  } else if (record.type === "return") {
    this.rval = this.arg = record.arg;
    this.method = "return";
    this.next = "end";
  } else if (record.type === "normal" && afterLoc) {
    this.next = afterLoc;
  }

  return ContinueSentinel;
},

finish: function(finallyLoc) {
  var this$1 = this;

  for (var i = this.tryEntries.length - 1; i >= 0; --i) {
    var entry = this$1.tryEntries[i];
    if (entry.finallyLoc === finallyLoc) {
      this$1.complete(entry.completion, entry.afterLoc);
      resetTryEntry(entry);
      return ContinueSentinel;
    }
  }
},

"catch": function(tryLoc) {
  var this$1 = this;

  for (var i = this.tryEntries.length - 1; i >= 0; --i) {
    var entry = this$1.tryEntries[i];
    if (entry.tryLoc === tryLoc) {
      var record = entry.completion;
      if (record.type === "throw") {
        var thrown = record.arg;
        resetTryEntry(entry);
```

```
        }
        return thrown;
      }
    }

    // The context.catch method must only be called with a location
    // argument that corresponds to a known catch block.
    throw new Error("illegal catch attempt");
  },

  delegateYield: function(iterable, resultName, nextLoc) {
    this.delegate = {
      iterator: values(iterable),
      resultName: resultName,
      nextLoc: nextLoc
    };

    if (this.method === "next") {
      // Deliberately forget the last sent value so that we don't
      // accidentally pass it on to the delegate.
      this.arg = undefined;
    }

    return ContinueSentinel;
  }
 };
})(
 // Among the various tricks for obtaining a reference to the global
 // object, this seems to be the most reliable technique that does not
 // use indirect eval (which violates Content Security Policy).
 typeof global === "object" ? global :
 typeof window === "object" ? window :
 typeof self === "object" ? self : this
);

/* WEBPACK VAR INJECTION */}.call(exports, __webpack_require__(17)));

/***/ }),
/* 56 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 57 */
/***/ (function(module, exports, __webpack_require__) {
```

```
Object.defineProperty(exports, "__esModule", {
  value: true
});
exports.MdTooltip = exports.MdToolbar = exports.MdTabs = exports.MdTable =
        exports.MdSwitch = exports.MdSubheader = exports.MdSteppers =
        exports.MdSpeedDial = exports.MdSnackbar = exports.MdRipple = exports.MdRadio =
        exports.MdProgress = exports.MdMenu = exports.MdList = exports.MdLayout =
        exports.MdImage = exports.MdIcon = exports.MdHighlightText = exports.MdField =
        exports.MdEmptyState = exports.MdElevation = exports.MdDrawer =
        exports.MdDivider = exports.MdDialogPrompt = exports.MdDialogConfirm =
        exports.MdDialogAlert = exports.MdDialog = exports.MdDatepicker =
        exports.MdContent = exports.MdChips = exports.MdCheckbox = exports.MdCard =
        exports.MdButton = exports.MdBottomBar = exports.MdAvatar =
        exports.MdAutocomplete = exports.MdApp = undefined;

var _MdApp = __webpack_require__(58);

var _MdApp2 = _interopRequireDefault(_MdApp);

var _MdAutocomplete = __webpack_require__(78);

var _MdAutocomplete2 = _interopRequireDefault(_MdAutocomplete);

var _MdAvatar = __webpack_require__(84);

var _MdAvatar2 = _interopRequireDefault(_MdAvatar);

var _MdBottomBar = __webpack_require__(88);

var _MdBottomBar2 = _interopRequireDefault(_MdBottomBar);

var _MdButton = __webpack_require__(96);

var _MdButton2 = _interopRequireDefault(_MdButton);

var _MdCard = __webpack_require__(102);

var _MdCard2 = _interopRequireDefault(_MdCard);

var _MdCheckbox = __webpack_require__(138);

var _MdCheckbox2 = _interopRequireDefault(_MdCheckbox);

var _MdChips = __webpack_require__(142);
```

```
var _MdChips2 = _interopRequireDefault(_MdChips);

var _MdContent = __webpack_require__(162);

var _MdContent2 = _interopRequireDefault(_MdContent);

var _MdDatepicker = __webpack_require__(164);

var _MdDatepicker2 = _interopRequireDefault(_MdDatepicker);

var _MdDialog = __webpack_require__(208);

var _MdDialog2 = _interopRequireDefault(_MdDialog);

var _MdDialogAlert = __webpack_require__(218);

var _MdDialogAlert2 = _interopRequireDefault(_MdDialogAlert);

var _MdDialogConfirm = __webpack_require__(221);

var _MdDialogConfirm2 = _interopRequireDefault(_MdDialogConfirm);

var _MdDialogPrompt = __webpack_require__(224);

var _MdDialogPrompt2 = _interopRequireDefault(_MdDialogPrompt);

var _MdDivider = __webpack_require__(227);

var _MdDivider2 = _interopRequireDefault(_MdDivider);

var _MdDrawer = __webpack_require__(231);

var _MdDrawer2 = _interopRequireDefault(_MdDrawer);

var _MdElevation = __webpack_require__(235);

var _MdElevation2 = _interopRequireDefault(_MdElevation);

var _MdEmptyState = __webpack_require__(237);

var _MdEmptyState2 = _interopRequireDefault(_MdEmptyState);

var _MdField = __webpack_require__(240);

var _MdField2 = _interopRequireDefault(_MdField);
```

```
var _MdHighlightText = __webpack_require__(267);

var _MdHighlightText2 = _interopRequireDefault(_MdHighlightText);

var _MdIcon = __webpack_require__(43);

var _MdIcon2 = _interopRequireDefault(_MdIcon);

var _MdImage = __webpack_require__(271);

var _MdImage2 = _interopRequireDefault(_MdImage);

var _MdLayout = __webpack_require__(275);

var _MdLayout2 = _interopRequireDefault(_MdLayout);

var _MdList = __webpack_require__(277);

var _MdList2 = _interopRequireDefault(_MdList);

var _MdMenu = __webpack_require__(295);

var _MdMenu2 = _interopRequireDefault(_MdMenu);

var _MdProgress = __webpack_require__(298);

var _MdProgress2 = _interopRequireDefault(_MdProgress);

var _MdRadio = __webpack_require__(306);

var _MdRadio2 = _interopRequireDefault(_MdRadio);

var _MdRipple = __webpack_require__(310);

var _MdRipple2 = _interopRequireDefault(_MdRipple);

var _MdSnackbar = __webpack_require__(311);

var _MdSnackbar2 = _interopRequireDefault(_MdSnackbar);

var _MdSpeedDial = __webpack_require__(318);

var _MdSpeedDial2 = _interopRequireDefault(_MdSpeedDial);

var _MdSteppers = __webpack_require__(328);
```

```
var _MdSteppers2 = _interopRequireDefault(_MdSteppers);

var _MdSubheader = __webpack_require__(342);

var _MdSubheader2 = _interopRequireDefault(_MdSubheader);

var _MdSwitch = __webpack_require__(346);

var _MdSwitch2 = _interopRequireDefault(_MdSwitch);

var _MdTable = __webpack_require__(350);

var _MdTable2 = _interopRequireDefault(_MdTable);

var _MdTabs = __webpack_require__(388);

var _MdTabs2 = _interopRequireDefault(_MdTabs);

var _MdToolbar = __webpack_require__(394);

var _MdToolbar2 = _interopRequireDefault(_MdToolbar);

var _MdTooltip = __webpack_require__(395);

var _MdTooltip2 = _interopRequireDefault(_MdTooltip);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.MdApp = _MdApp2.default;
exports.MdAutocomplete = _MdAutocomplete2.default;
exports.MdAvatar = _MdAvatar2.default;
exports.MdBottomBar = _MdBottomBar2.default;
exports.MdButton = _MdButton2.default;
exports.MdCard = _MdCard2.default;
exports.MdCheckbox = _MdCheckbox2.default;
exports.MdChips = _MdChips2.default;
exports.MdContent = _MdContent2.default;
exports.MdDatepicker = _MdDatepicker2.default;
exports.MdDialog = _MdDialog2.default;
exports.MdDialogAlert = _MdDialogAlert2.default;
exports.MdDialogConfirm = _MdDialogConfirm2.default;
exports.MdDialogPrompt = _MdDialogPrompt2.default;
exports.MdDivider = _MdDivider2.default;
exports.MdDrawer = _MdDrawer2.default;
exports.MdElevation = _MdElevation2.default;
```

```
exports.MdEmptyState = _MdEmptyState2.default;
exports.MdField = _MdField2.default;
exports.MdHighlightText = _MdHighlightText2.default;
exports.MdIcon = _MdIcon2.default;
exports.MdImage = _MdImage2.default;
exports.MdLayout = _MdLayout2.default;
exports.MdList = _MdList2.default;
exports.MdMenu = _MdMenu2.default;
exports.MdProgress = _MdProgress2.default;
exports.MdRadio = _MdRadio2.default;
exports.MdRipple = _MdRipple2.default;
exports.MdSnackbar = _MdSnackbar2.default;
exports.MdSpeedDial = _MdSpeedDial2.default;
exports.MdSteppers = _MdSteppers2.default;
exports.MdSubheader = _MdSubheader2.default;
exports.MdSwitch = _MdSwitch2.default;
exports.MdTable = _MdTable2.default;
exports.MdTabs = _MdTabs2.default;
exports.MdToolbar = _MdToolbar2.default;
exports.MdTooltip = _MdTooltip2.default;

/***/ }),
/* 58 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdApp = __webpack_require__(59);

var _MdApp2 = _interopRequireDefault(_MdApp);

var _MdAppToolbar = __webpack_require__(70);

var _MdAppToolbar2 = _interopRequireDefault(_MdAppToolbar);

var _MdAppContent = __webpack_require__(73);

var _MdAppContent2 = _interopRequireDefault(_MdAppContent);
```

```
var _MdAppDrawer = __webpack_require__(76);

var _MdAppDrawer2 = _interopRequireDefault(_MdAppDrawer);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdApp2.default.name, _MdApp2.default);
  Vue.component(_MdAppToolbar2.default.name, _MdAppToolbar2.default);
  Vue.component(_MdAppContent2.default.name, _MdAppContent2.default);
  Vue.component(_MdAppDrawer2.default.name, _MdAppDrawer2.default);
};

/***/ }),
/* 59 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdApp_vue__ = __webpack_require__(61);
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdApp_vue___default =
        __webpack_require__.n(__WEBPACK_IMPORTED_MODULE_0__babel_loader_node
        _modules_vue_loader_lib_selector_type_script_index_0_bustCache_MdApp_vue__);
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(60);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */
var __vue_template__ = null;
/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
```

```
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdApp_vue___default.a,
  __vue_template__,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdApp/MdApp.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 60 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 61 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdAppSideDrawer = __webpack_require__(62);

var _MdAppSideDrawer2 = _interopRequireDefault(_MdAppSideDrawer);

var _MdAppInternalDrawer = __webpack_require__(67);

var _MdAppInternalDrawer2 = _interopRequireDefault(_MdAppInternalDrawer);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

var componentTypes = ['md-app-toolbar', 'md-app-drawer', 'md-app-content'];

function buildSlots(children, context, functionalContext, options) {
  var slots = [];
```

```
  if (children) {
    children.forEach(function (child) {
      var opts = child.componentOptions;

      if (opts && componentTypes.includes(opts.tag)) {
        child.data.slot = opts.tag;
        child.data.provide = options.Ctor.options.provide;
        child.context = context;
        child.functionalContext = functionalContext;

        slots.push(child);
      }
    });
  }

  return slots;
}

function getDrawers(children) {
  var drawerVnodes = children.filter(function (child) {
    return child.componentOptions.tag === 'md-app-drawer';
  });

  return drawerVnodes.length ? drawerVnodes : [];
}

function hasInternalDrawer(attrs) {
  var mdPermanent = attrs && attrs['md-permanent'];

  return mdPermanent && (mdPermanent === 'clipped' || mdPermanent === 'card');
}

exports.default = {
  name: 'MdApp',
  functional: true,
  render: function render(createElement, _ref) {
    var children = _ref.children,
        props = _ref.props;

    var appComponent = _MdAppSideDrawer2.default;

    var _createElement = createElement(appComponent),
        context = _createElement.context,
        functionalContext = _createElement.functionalContext,
        componentOptions = _createElement.componentOptions;
```

```
    var slots = buildSlots(children, context, functionalContext, componentOptions);
    var drawers = getDrawers(slots);

    drawers.forEach(function (drawer) {
      if (drawer && hasInternalDrawer(drawer.data.attrs)) {
        appComponent = _MdAppInternalDrawer2.default;
      }
    });

    return createElement(appComponent, {
      attrs: props
    }, slots);
  }
};

/***/ }),
/* 62 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdApp/MdApp
        SideDrawer.vue
var MdAppSideDrawer = __webpack_require__(64);
var MdAppSideDrawer_default = /*#__PURE__*/__webpack_require__.n(MdAppSideDrawer);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        2aaa67a6","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdApp/Md
        AppSideDrawer.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    {
      staticClass: "md-app md-app-side-drawer md-layout-row",
      class: [_vm.appClasses, _vm.$mdActiveTheme]
    },
    [
      _vm._t("md-app-drawer"),
      _vm._v(" "),
      _c(
```

```
      "main",
      {
       staticClass: "md-app-container md-flex md-layout-column",
       class: [_vm.$mdActiveTheme, _vm.scrollerClasses],
       style: _vm.contentStyles,
       on: {
        "&scroll": function($event) {
         _vm.handleScroll($event);
        }
       }
      },
      [
       _vm._t("md-app-toolbar"),
       _vm._v(" "),
       _c(
        "div",
        {
         staticClass: "md-app-scroller md-layout-column md-flex",
         class: [_vm.$mdActiveTheme, _vm.scrollerClasses],
         style: _vm.containerStyles,
         on: {
          "&scroll": function($event) {
           _vm.handleScroll($event);
          }
         }
        },
        [_vm._t("md-app-content")],
        2
       )
      ],
      2
     )
    ],
    2
   )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdApp_MdAppSideDrawer = (esExports);
// CONCATENATED MODULE: ./src/components/MdApp/MdAppSideDrawer.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(63);
}
```

```
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdAppSideDrawer_default.a,
  MdApp_MdAppSideDrawer,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdApp/MdAppSideDrawer.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdApp_MdAppSideDrawer =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 63 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 64 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);
```

```
var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdAppMixin = __webpack_require__(31);

var _MdAppMixin2 = _interopRequireDefault(_MdAppMixin);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

//
//
//
//
//
//
//
//
//
//
//
//
//

exports.default = new _MdComponent2.default({
  name: 'MdAppInternalSideDrawer',
  mixins: [_MdAppMixin2.default]
});

/***/ }),
/* 65 */
/***/ (function(module, exports, __webpack_require__) {

/* WEBPACK VAR INJECTION */(function(process) {// Generated by CoffeeScript 1.12.2
(function() {
  var getNanoSeconds, hrtime, loadTime, moduleLoadTime, nodeLoadTime, upTime;

  if ((typeof performance !== "undefined" && performance !== null) && performance.now) {
    module.exports = function() {
      return performance.now();
    };
  } else if ((typeof process !== "undefined" && process !== null) && process.hrtime) {
    module.exports = function() {
      return (getNanoSeconds() - nodeLoadTime) / 1e6;
    };
    hrtime = process.hrtime;
    getNanoSeconds = function() {
```

```
    var hr;
    hr = hrtime();
    return hr[0] * 1e9 + hr[1];
  };
  moduleLoadTime = getNanoSeconds();
  upTime = process.uptime() * 1e9;
  nodeLoadTime = moduleLoadTime - upTime;
} else if (Date.now) {
  module.exports = function() {
    return Date.now() - loadTime;
  };
  loadTime = Date.now();
} else {
  module.exports = function() {
    return new Date().getTime() - loadTime;
  };
  loadTime = new Date().getTime();
}

}).call(this);

//# sourceMappingURL=performance-now.js.map

/* WEBPACK VAR INJECTION */}.call(exports, __webpack_require__(66)));

/***/ }),
/* 66 */
/***/ (function(module, exports) {

// shim for using process in browser
var process = module.exports = {};

// cached from whatever global is present so that test runners that stub it
// don't break things.  But we need to wrap it in a try catch in case it is
// wrapped in strict mode code which doesn't define any globals.  It's inside a
// function because try/catches deoptimize in certain engines.

var cachedSetTimeout;
var cachedClearTimeout;

function defaultSetTimout() {
    throw new Error('setTimeout has not been defined');
}
function defaultClearTimeout () {
    throw new Error('clearTimeout has not been defined');
}
```

```
(function () {
    try {
        if (typeof setTimeout === 'function') {
            cachedSetTimeout = setTimeout;
        } else {
            cachedSetTimeout = defaultSetTimout;
        }
    } catch (e) {
        cachedSetTimeout = defaultSetTimout;
    }
    try {
        if (typeof clearTimeout === 'function') {
            cachedClearTimeout = clearTimeout;
        } else {
            cachedClearTimeout = defaultClearTimeout;
        }
    } catch (e) {
        cachedClearTimeout = defaultClearTimeout;
    }
} ());
function runTimeout(fun) {
    if (cachedSetTimeout === setTimeout) {
        //normal enviroments in sane situations
        return setTimeout(fun, 0);
    }
    // if setTimeout wasn't available but was latter defined
    if ((cachedSetTimeout === defaultSetTimout || !cachedSetTimeout) && setTimeout) {
        cachedSetTimeout = setTimeout;
        return setTimeout(fun, 0);
    }
    try {
        // when when somebody has screwed with setTimeout but no I.E. maddness
        return cachedSetTimeout(fun, 0);
    } catch(e){
        try {
            // When we are in I.E. but the script has been evaled so I.E. doesn't trust the global object
            when called normally
            return cachedSetTimeout.call(null, fun, 0);
        } catch(e){
            // same as above but when it's a version of I.E. that must have the global object for 'this',
            hopfully our context correct otherwise it will throw a global error
            return cachedSetTimeout.call(this, fun, 0);
        }
    }
```

```
}
function runClearTimeout(marker) {
    if (cachedClearTimeout === clearTimeout) {
        //normal enviroments in sane situations
        return clearTimeout(marker);
    }
    // if clearTimeout wasn't available but was latter defined
    if ((cachedClearTimeout === defaultClearTimeout || !cachedClearTimeout) && clearTimeout)
            {
        cachedClearTimeout = clearTimeout;
        return clearTimeout(marker);
    }
    try {
        // when when somebody has screwed with setTimeout but no I.E. maddness
        return cachedClearTimeout(marker);
    } catch (e){
        try {
            // When we are in I.E. but the script has been evaled so I.E. doesn't  trust the global object
            when called normally
            return cachedClearTimeout.call(null, marker);
        } catch (e){
            // same as above but when it's a version of I.E. that must have the global object for 'this',
            hopfully our context correct otherwise it will throw a global error.
            // Some versions of I.E. have different rules for clearTimeout vs setTimeout
            return cachedClearTimeout.call(this, marker);
        }
    }



}
var queue = [];
var draining = false;
var currentQueue;
var queueIndex = -1;

function cleanUpNextTick() {
    if (!draining || !currentQueue) {
        return;
    }
    draining = false;
    if (currentQueue.length) {
        queue = currentQueue.concat(queue);
    } else {
        queueIndex = -1;
    }
```

```
    if (queue.length) {
        drainQueue();
    }
}

function drainQueue() {
    if (draining) {
        return;
    }
    var timeout = runTimeout(cleanUpNextTick);
    draining = true;

    var len = queue.length;
    while(len) {
        currentQueue = queue;
        queue = [];
        while (++queueIndex < len) {
            if (currentQueue) {
                currentQueue[queueIndex].run();
            }
        }
        queueIndex = -1;
        len = queue.length;
    }
    currentQueue = null;
    draining = false;
    runClearTimeout(timeout);
}

process.nextTick = function (fun) {
    var arguments$1 = arguments;

    var args = new Array(arguments.length - 1);
    if (arguments.length > 1) {
        for (var i = 1; i < arguments.length; i++) {
            args[i - 1] = arguments$1[i];
        }
    }
    queue.push(new Item(fun, args));
    if (queue.length === 1 && !draining) {
        runTimeout(drainQueue);
    }
};

// v8 likes predictible objects
function Item(fun, array) {
```

```
    this.fun = fun;
    this.array = array;
}
Item.prototype.run = function () {
    this.fun.apply(null, this.array);
};
process.title = 'browser';
process.browser = true;
process.env = {};
process.argv = [];
process.version = ''; // empty string to avoid regexp issues
process.versions = {};

function noop() {}

process.on = noop;
process.addListener = noop;
process.once = noop;
process.off = noop;
process.removeListener = noop;
process.removeAllListeners = noop;
process.emit = noop;
process.prependListener = noop;
process.prependOnceListener = noop;

process.listeners = function (name) { return [] };

process.binding = function (name) {
    throw new Error('process.binding is not supported');
};

process.cwd = function () { return '/' };
process.chdir = function (dir) {
    throw new Error('process.chdir is not supported');
};
process.umask = function() { return 0; };


/***/ }),
/* 67 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdApp/MdApp
        InternalDrawer.vue
```

```
var MdAppInternalDrawer = __webpack_require__(69);
var MdAppInternalDrawer_default =
        /*#__PURE__*/__webpack_require__.n(MdAppInternalDrawer);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        f33ea0da","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdApp/Md
        AppInternalDrawer.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    {
      staticClass: "md-app md-app-internal-drawer md-layout-column",
      class: [_vm.appClasses, _vm.$mdActiveTheme]
    },
    [
      _vm._t("md-app-toolbar"),
      _vm._v(" "),
      _c(
        "main",
        {
          staticClass: "md-app-container md-flex md-layout-row",
          class: [_vm.$mdActiveTheme, _vm.scrollerClasses],
          style: [_vm.containerStyles, _vm.contentStyles]
        },
        [
          _vm._t("md-app-drawer"),
          _vm._v(" "),
          _c(
            "div",
            {
              staticClass: "md-app-scroller md-layout-column md-flex",
              class: [_vm.$mdActiveTheme, _vm.scrollerClasses]
            },
            [_vm._t("md-app-content")],
            2
          )
        ],
        2
      )
    ],
    2
```

```
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdApp_MdAppInternalDrawer = (esExports);
// CONCATENATED MODULE: ./src/components/MdApp/MdAppInternalDrawer.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(68);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdAppInternalDrawer_default.a,
  MdApp_MdAppInternalDrawer,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdApp/MdAppInternalDrawer.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdApp_MdAppInternalDrawer =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 68 */
/***/ (function(module, exports) {
```

```
// removed by extract-text-webpack-plugin

/***/ }),
/* 69 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdAppMixin = __webpack_require__(31);

var _MdAppMixin2 = _interopRequireDefault(_MdAppMixin);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

//
//
//
//
//
//
//
//
//
//
//
//
//
//

exports.default = new _MdComponent2.default({
  name: 'MdAppInternalDrawer',
  mixins: [_MdAppMixin2.default]
});

/***/ }),
/* 70 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
```

```
// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdApp/MdApp
        Toolbar.vue
var MdAppToolbar = __webpack_require__(72);
var MdAppToolbar_default = /*#__PURE__*/__webpack_require__.n(MdAppToolbar);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        2d3e4174","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdApp/Md
        AppToolbar.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-toolbar",
    _vm._g(
      _vm._b(
        {
          staticClass: "md-app-toolbar",
          class: _vm.toolbarClasses,
          style: _vm.toolbarStyles
        },
        "md-toolbar",
        _vm.$attrs,
        false
      ),
      _vm.$listeners
    ),
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdApp_MdAppToolbar = (esExports);
// CONCATENATED MODULE: ./src/components/MdApp/MdAppToolbar.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(71);
}
var normalizeComponent = __webpack_require__(0);
/* script */
```

```
/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdAppToolbar_default.a,
  MdApp_MdAppToolbar,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdApp/MdAppToolbar.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdApp_MdAppToolbar =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 71 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 72 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
```

```
//
//

exports.default = {
  name: 'MdAppToolbar',
  inject: ['MdApp'],
  computed: {
    toolbarClasses: function toolbarClasses() {
      return {
        'md-no-elevation': !this.MdApp.toolbar.hasElevation,
        'md-reveal-active': this.MdApp.toolbar.revealActive,
        'md-fixed-last-active': this.MdApp.toolbar.fixedLastActive,
        'md-overlap-off': this.MdApp.toolbar.overlapOff
      };
    },
    toolbarStyles: function toolbarStyles() {
      var styles = {
        'top': this.MdApp.toolbar.top + 'px'
      };

      if (this.MdApp.toolbar.fixedLastActive) {
        styles['transform'] = 'translate3D(0, ' + this.MdApp.toolbar.fixedLastHeight + 'px, 0)';
      }

      return styles;
    }
  },
  mounted: function mounted() {
    var title = this.$el.querySelector('.md-title, .md-display-1, .md-display-2');

    this.MdApp.toolbar.element = this.$el;
    this.MdApp.toolbar.titleElement = title;

    if (title) {
      this.MdApp.toolbar.titleSize = parseInt(window.getComputedStyle(title).fontSize, 10);
    }
  }
};

/***/ }),
/* 73 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
```

```
// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdApp/MdApp
        Content.vue
var MdAppContent = __webpack_require__(75);
var MdAppContent_default = /*#__PURE__*/__webpack_require__.n(MdAppContent);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        65f3d944","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdApp/Md
        AppContent.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm.showCard
    ? _c(
        "md-card",
        _vm._g(
          _vm._b(
            { staticClass: "md-app-content md-flex" },
            "md-card",
            _vm.$attrs,
            false
          ),
          _vm.$listeners
        ),
        [_vm._t("default")],
        2
      )
    : _c(
        "md-content",
        _vm._g(
          _vm._b(
            { staticClass: "md-app-content md-flex" },
            "md-content",
            _vm.$attrs,
            false
          ),
          _vm.$listeners
        ),
        [_vm._t("default")],
        2
      )
};
var staticRenderFns = [];
```

```
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdApp_MdAppContent = (esExports);
// CONCATENATED MODULE: ./src/components/MdApp/MdAppContent.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(74);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdAppContent_default.a,
  MdApp_MdAppContent,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdApp/MdAppContent.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdApp_MdAppContent =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 74 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
```

```
/* 75 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
//
//
//
//
//
//

exports.default = {
  name: 'MdAppContent',
  inject: ['MdApp'],
  computed: {
    showCard: function showCard() {
      return this.MdApp.options && this.MdApp.options.mode === 'overlap';
    }
  }
};

/***/ }),
/* 76 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdApp/MdApp
        Drawer.vue
var MdAppDrawer = __webpack_require__(77);
var MdAppDrawer_default = /*#__PURE__*/__webpack_require__.n(MdAppDrawer);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        1d41d1f6","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdApp/Md
        AppDrawer.vue
var render = function() {
  var _vm = this;
```

```
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-drawer",
    _vm._g(
      _vm._b({ staticClass: "md-app-drawer" }, "md-drawer", _vm.$attrs, false),
      _vm.$listeners
    ),
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdApp_MdAppDrawer = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdAppDrawer_default.a,
  MdApp_MdAppDrawer,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdApp/MdAppDrawer.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdApp_MdAppDrawer =
        __webpack_exports__["default"] = (Component.exports);
```

```
/***/ }),
/* 77 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; }

//
//
//
//
//
//

exports.default = {
  name: 'MdAppDrawer',
  inject: ['MdApp'],
  data: function data() {
    return {
      drawerElement: {
        mdActive: null,
        mode: null,
        submode: null
      }
    };
  },
  computed: {
    visible: function visible() {
      return this.drawerElement.mdActive;
    },
    mode: function mode() {
      return this.drawerElement.mode;
    },
    submode: function submode() {
      return this.drawerElement.submode;
    }
  },
```

```
watch: {
  visible: function visible(_visible) {
    this.MdApp.drawer.width = this.getDrawerWidth();
    this.MdApp.drawer.active = _visible;
  },
  mode: function mode(_mode) {
    this.MdApp.drawer.mode = _mode;
  },
  submode: function submode(_submode) {
    this.MdApp.drawer.submode = _submode;
  }
},
methods: {
  getDrawerWidth: function getDrawerWidth() {
    if (this.$el) {
      return window.getComputedStyle(this.$el).width;
    }

    return 0;
  }
},
mounted: function () {
  var _ref = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee() {
    return regeneratorRuntime.wrap(function _callee$(_context) {
      var this$1 = this;

      while (1) {
        switch (_context.prev = _context.next) {
          case 0:
            _context.next = 2;
            return this$1.$nextTick();

          case 2:
            this$1.drawerElement = this$1.$children[0];
            this$1.MdApp.drawer.width = this$1.getDrawerWidth();
            this$1.MdApp.drawer.active = this$1.visible;
            this$1.MdApp.drawer.mode = this$1.mode;
            this$1.MdApp.drawer.submode = this$1.submode;
            this$1.MdApp.drawer.initialWidth = this$1.$el.offsetWidth;

          case 8:
          case 'end':
            return _context.stop();
        }
      }
    }, _callee, this);
```

```
    }));

    function mounted() {
      return _ref.apply(this, arguments);
    }

    return mounted;
  }()
};

/***/ }),
/* 78 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdAutocomplete = __webpack_require__(79);

var _MdAutocomplete2 = _interopRequireDefault(_MdAutocomplete);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdAutocomplete2.default.name, _MdAutocomplete2.default);
};

/***/ }),
/* 79 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdAutocomple
        te/MdAutocomplete.vue
var MdAutocomplete = __webpack_require__(81);
var MdAutocomplete_default = /*#__PURE__*/__webpack_require__.n(MdAutocomplete);
```

```
// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        130e5ea2","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdAutocom
        plete/MdAutocomplete.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-field",
    {
      staticClass: "md-autocomplete",
      class: _vm.fieldClasses,
      attrs: { "md-clearable": "", "md-inline": _vm.isBoxLayout }
    },
    [
      _c(
        "md-menu",
        {
          attrs: {
            "md-direction": "bottom-start",
            "md-dense": _vm.mdDense,
            "md-align-trigger": "",
            "md-full-width": "",
            "md-active": _vm.showMenu
          },
          on: {
            "update:mdActive": function($event) {
              _vm.showMenu = $event;
            }
          }
        },
        [
          _c(
            "md-input",
            _vm._b(
              {
                attrs: {
                  id: _vm.mdInputId,
                  name: _vm.mdInputName,
                  maxlength: _vm.mdInputMaxlength,
                  placeholder: _vm.mdInputPlaceholder
                },
                on: {
                  focus: function($event) {
```

```
          $event.stopPropagation();
          _vm.openOnFocus($event);
        },
        blur: _vm.hideOptions,
        input: _vm.onInput,
        click: function($event) {
          $event.stopPropagation();
          $event.preventDefault();
          _vm.openOnFocus($event);
        }
      },
      model: {
        value: _vm.searchTerm,
        callback: function($$v) {
          _vm.searchTerm = $$v;
        },
        expression: "searchTerm"
      }
    },
    "md-input",
    _vm.$attrs,
    false
  )
),
_vm._v(" "),
_c(
  "md-menu-content",
  {
    directives: [
      {
        name: "show",
        rawName: "v-show",
        value: _vm.hasScopedEmptySlot || _vm.hasFilteredItems,
        expression: "hasScopedEmptySlot || hasFilteredItems"
      }
    ],
    class: _vm.contentClasses
  },
  [
    _vm.isPromisePending
      ? _c(
          "div",
          { staticClass: "md-autocomplete-loading" },
          [
            _c("md-progress-spinner", {
              attrs: {
```

```
          "md-diameter": 40,
          "md-stroke": 4,
          "md-mode": "indeterminate"
        }
      })
    ],
    1
  )
 : _vm._e(),
_vm._v(" "),
_vm.hasFilteredItems
 ? _c(
    "div",
    { staticClass: "md-autocomplete-items" },
    _vm._l(_vm.getOptions(), function(item, index) {
      return _c(
        "md-menu-item",
        {
          key: index,
          on: {
            click: function($event) {
              _vm.selectItem(item, $event);
            }
          }
        },
        [
          _vm.$scopedSlots["md-autocomplete-item"]
            ? _vm._t("md-autocomplete-item", null, {
                item: item,
                term: _vm.searchTerm
              })
            : [_vm._v(_vm._s(item))]
        ],
        2
      )
    })
  )
 : _vm.hasScopedEmptySlot
  ? _c("md-menu-item", [
      _c(
        "div",
        { staticClass: "md-autocomplete-empty" },
        [
          _vm._t("md-autocomplete-empty", null, {
            term: _vm.searchTerm
          })
```

```
                    ],
                    2
                  )
                ])
              : _vm._e()
          ],
          1
        )
      ],
      1
    ),
    _vm._v(" "),
    _vm._t("default")
  ],
  2
 )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdAutocomplete_MdAutocomplete = (esExports);
// CONCATENATED MODULE: ./src/components/MdAutocomplete/MdAutocomplete.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(80);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdAutocomplete_default.a,
  MdAutocomplete_MdAutocomplete,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
```

```
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdAutocomplete/MdAutocomplete.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdAutocomplete_MdAutocomplete =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 80 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 81 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _typeof = typeof Symbol === "function" && typeof Symbol.iterator === "symbol" ?
        function (obj) { return typeof obj; } : function (obj) { return obj && typeof Symbol ===
        "function" && obj.constructor === Symbol && obj !== Symbol.prototype ? "symbol" :
        typeof obj; };

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; }; //
//
//
//
//
//
//
//
//
//
```

```
//
//
//
```

```
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; }

exports.default = {
  name: 'MdAutocomplete',
  props: {
    value: {
      type: null,
      required: true
    },
    mdDense: Boolean,
    mdLayout: _extends({
      type: String,
      default: 'floating'
    }, (0, _MdPropValidator2.default)('md-layout', ['floating', 'box'])),
    mdOpenOnFocus: {
      type: Boolean,
      default: true
    },
    mdFuzzySearch: {
      type: Boolean,
      default: true
    },
    mdOptions: {
      type: [Array, Promise],
      required: true
    },
    mdInputName: String,
    mdInputId: String,
    mdInputMaxlength: [String, Number],
    mdInputPlaceholder: [String, Number]
  },
  data: function data() {
    return {
      searchTerm: this.value,
      showMenu: false,
      triggerPopover: false,
      isPromisePending: false,
      filteredAsyncOptions: []
    };
  },

  computed: {
    isBoxLayout: function isBoxLayout() {
      return this.mdLayout === 'box';
```

```
  },
  fieldClasses: function fieldClasses() {
    if (this.isBoxLayout) {
      return 'md-autocomplete-box';
    }
  },
  contentClasses: function contentClasses() {
    if (this.isBoxLayout) {
      return 'md-autocomplete-box-content';
    }
  },
  filteredStaticOptions: function filteredStaticOptions() {
    if (this.isPromise(this.mdOptions)) {
      return false;
    }

    var firstItem = this.mdOptions[0];

    if (this.mdOptions[0] && this.searchTerm) {
      if (typeof firstItem === 'string') {
        return this.filterByString();
      } else if ((typeof firstItem === 'undefined' ? 'undefined' : _typeof(firstItem)) === 'object') {
        return this.filterByObject();
      }
    }

    return this.mdOptions;
  },
  hasFilteredItems: function hasFilteredItems() {
    return this.filteredStaticOptions.length > 0 || this.filteredAsyncOptions.length > 0;
  },
  hasScopedEmptySlot: function hasScopedEmptySlot() {
    return this.$scopedSlots['md-autocomplete-empty'];
  }
},
watch: {
  mdOptions: {
    deep: true,
    immediate: true,
    handler: function () {
      var _ref = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee()
          {
        return regeneratorRuntime.wrap(function _callee$(_context) {
          var this$1 = this;

          while (1) {
```

```
          switch (_context.prev = _context.next) {
            case 0:
              if (!this$1.isPromise(this$1.mdOptions)) {
                _context.next = 6;
                break;
              }

              this$1.isPromisePending = true;
              _context.next = 4;
              return this$1.mdOptions;

            case 4:
              this$1.filteredAsyncOptions = _context.sent;

              this$1.isPromisePending = false;

            case 6:
            case 'end':
              return _context.stop();
          }
        }
      }, _callee, this);
    }));

    function handler() {
      return _ref.apply(this, arguments);
    }

    return handler;
  }()
 },

 value: function value(val) {
  this.searchTerm = val;
 }
},
methods: {
 getOptions: function getOptions() {
  if (this.isPromise(this.mdOptions)) {
   return this.filteredAsyncOptions;
  }

  return this.filteredStaticOptions;
 },
 isPromise: function isPromise(obj) {
  return (0, _isPromise3.default)(obj);
```

```
},
matchText: function matchText(item) {
  var target = item.toLowerCase();
  var search = this.searchTerm.toLowerCase();

  if (this.mdFuzzySearch) {
    return (0, _fuzzysearch2.default)(search, target);
  }

  return target.includes(search);
},
filterByString: function filterByString() {
  var _this = this;

  return this.mdOptions.filter(function (item) {
    return _this.matchText(item);
  });
},
filterByObject: function filterByObject() {
  var _this2 = this;

  return this.mdOptions.filter(function (item) {
    var values = Object.values(item);
    var valuesCount = values.length;

    for (var i = 0; i <= valuesCount; i++) {
      if (typeof values[i] === 'string' && _this2.matchText(values[i])) {
        return true;
      }
    }
  });
},
openOnFocus: function openOnFocus() {
  if (this.mdOpenOnFocus) {
    this.showOptions();
  }
},
onInput: function onInput() {
  if (!this.mdOpenOnFocus) {
    this.showOptions();
  }

  if (this.searchTerm.constructor.name.toLowerCase() !== 'inputevent') {
    this.$emit('md-changed', this.searchTerm);
  }
},
```

```
showOptions: function () {
  var _ref2 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function
      _callee2() {
    return regeneratorRuntime.wrap(function _callee2$(_context2) {
      var this$1 = this;

      while (1) {
        switch (_context2.prev = _context2.next) {
          case 0:
            this$1.showMenu = true;
            _context2.next = 3;
            return this$1.$nextTick();

          case 3:
            this$1.triggerPopover = true;
            this$1.$emit('md-opened');

          case 5:
          case 'end':
            return _context2.stop();
        }
      }
    }, _callee2, this);
  }));

  function showOptions() {
    return _ref2.apply(this, arguments);
  }

  return showOptions;
}(),
hideOptions: function () {
  var _ref3 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function
      _callee3() {
    return regeneratorRuntime.wrap(function _callee3$(_context3) {
      var this$1 = this;

      while (1) {
        switch (_context3.prev = _context3.next) {
          case 0:
            _context3.next = 2;
            return this$1.$nextTick();

          case 2:
            this$1.showMenu = false;
            _context3.next = 5;
```

```
            return this$1.$nextTick();

          case 5:
            this$1.triggerPopover = false;
            this$1.$emit('md-closed');

          case 7:
          case 'end':
            return _context3.stop();
        }
      }
    }, _callee3, this);
  }));

  function hideOptions() {
    return _ref3.apply(this, arguments);
  }

  return hideOptions;
 }(),
 selectItem: function selectItem(item, $event) {
  var content = $event.target.textContent.trim();

  this.searchTerm = content;
  this.$emit('input', item);
  this.$emit('md-selected', item);
  this.hideOptions();
 }
 }
};

/***/ }),
/* 82 */
/***/ (function(module, exports, __webpack_require__) {


function fuzzysearch (needle, haystack) {
 var tlen = haystack.length;
 var qlen = needle.length;
 if (qlen > tlen) {
  return false;
 }
 if (qlen === tlen) {
  return needle === haystack;
 }
 outer: for (var i = 0, j = 0; i < qlen; i++) {
```

```
    var nch = needle.charCodeAt(i);
    while (j < tlen) {
      if (haystack.charCodeAt(j++) === nch) {
        continue outer;
      }
    }
    return false;
  }
  return true;
}

module.exports = fuzzysearch;


/***/ }),
/* 83 */
/***/ (function(module, exports) {

module.exports = isPromise;

function isPromise(obj) {
  return !!obj && (typeof obj === 'object' || typeof obj === 'function') && typeof obj.then ===
          'function';
}


/***/ }),
/* 84 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdAvatar = __webpack_require__(85);

var _MdAvatar2 = _interopRequireDefault(_MdAvatar);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
```

```
  (0, _material2.default)(Vue);
  Vue.component(_MdAvatar2.default.name, _MdAvatar2.default);
};

/***/ }),
/* 85 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdAvatar/MdA
        vatar.vue
var MdAvatar = __webpack_require__(87);
var MdAvatar_default = /*#__PURE__*/__webpack_require__.n(MdAvatar);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        2bc61fcf","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdAvatar/M
        dAvatar.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-avatar", class: [_vm.$mdActiveTheme] },
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdAvatar_MdAvatar = (esExports);
// CONCATENATED MODULE: ./src/components/MdAvatar/MdAvatar.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(86);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */
```

```
/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdAvatar_default.a,
  MdAvatar_MdAvatar,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdAvatar/MdAvatar.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdAvatar_MdAvatar =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 86 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 87 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }
```

```
exports.default = new _MdComponent2.default({
  name: 'MdAvatar'
}); //
//
//
//
//
//

/***/ }),
/* 88 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdBottomBar = __webpack_require__(89);

var _MdBottomBar2 = _interopRequireDefault(_MdBottomBar);

var _MdBottomBarItem = __webpack_require__(94);

var _MdBottomBarItem2 = _interopRequireDefault(_MdBottomBarItem);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdBottomBar2.default.name, _MdBottomBar2.default);
  Vue.component(_MdBottomBarItem2.default.name, _MdBottomBarItem2.default);
};

/***/ }),
/* 89 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdBottomBar/
        MdBottomBar.vue
```

```
var MdBottomBar = __webpack_require__(91);
var MdBottomBar_default = /*#__PURE__*/__webpack_require__.n(MdBottomBar);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        0fac6773","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdBottomB
        ar/MdBottomBar.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    {
      staticClass: "md-bottom-bar",
      class: [_vm.$mdActiveTheme, _vm.barClasses]
    },
    [
      _c(
        "md-ripple",
        {
          attrs: {
            "md-disabled": _vm.mdType === "fixed",
            "md-active": _vm.MdBottomBar.mouseEvent
          }
        },
        [_vm._t("default")],
        2
      )
    ],
    1
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdBottomBar_MdBottomBar = (esExports);
// CONCATENATED MODULE: ./src/components/MdBottomBar/MdBottomBar.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(90);
}
var normalizeComponent = __webpack_require__(0);
/* script */
```

```
/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdBottomBar_default.a,
  MdBottomBar_MdBottomBar,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdBottomBar/MdBottomBar.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdBottomBar_MdBottomBar =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 90 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 91 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
```

```
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; }; //
//
//
//
//
//
//
//

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdPropValidator = __webpack_require__(4);

var _MdPropValidator2 = _interopRequireDefault(_MdPropValidator);

var _MdRipple = __webpack_require__(8);

var _MdRipple2 = _interopRequireDefault(_MdRipple);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; }

function _defineProperty(obj, key, value) { if (key in obj) { Object.defineProperty(obj, key,
        { value: value, enumerable: true, configurable: true, writable: true }); } else { obj[key] =
        value; } return obj; }

exports.default = new _MdComponent2.default({
  name: 'MdBottomBar',
  components: {
    MdRipple: _MdRipple2.default
  },
  props: {
    mdSyncRoute: Boolean,
    mdActiveItem: [String, Number],
    mdType: _extends({
      type: String,
```

```
    default: 'fixed'
  }, (0, _MdPropValidator2.default)('md-type', ['fixed', 'shift']))
},
data: function data() {
  return {
    MdBottomBar: {
      mouseEvent: null,
      activeItem: null,
      items: {}
    }
  };
},
provide: function provide() {
  return {
    MdBottomBar: this.MdBottomBar
  };
},

computed: {
  activeItem: function activeItem() {
    return this.MdBottomBar.activeItem;
  },
  barClasses: function barClasses() {
    return _defineProperty({}, 'md-type-' + this.mdType, true);
  }
},
watch: {
  activeItem: function activeItem() {
    this.$emit('md-changed', this.activeItem);
  }
},
methods: {
  setupWatchers: function setupWatchers() {
    if (this.mdSyncRoute) {
      this.$watch('$route', {
        deep: true,
        handler: function handler() {
          if (this.mdSyncRoute) {
            this.setActiveItemByRoute();
          }
        }
      });
    }
  },
  hasActiveItem: function hasActiveItem() {
    return this.MdBottomBar.activeItem || this.mdActiveItem;
```

```
},
getItemsAndKeys: function getItemsAndKeys() {
  var items = this.MdBottomBar.items;

  return {
    items: items,
    keys: Object.keys(items)
  };
},
setActiveItemByIndex: function setActiveItemByIndex(index) {
  var _getItemsAndKeys = this.getItemsAndKeys(),
      keys = _getItemsAndKeys.keys;

  if (!this.mdActiveItem) {
    this.MdBottomBar.activeItem = keys[index];
  } else {
    this.MdBottomBar.activeItem = this.mdActiveItem;
  }
},
setActiveItemByRoute: function setActiveItemByRoute() {
  var _this = this;

  var _getItemsAndKeys2 = this.getItemsAndKeys(),
      items = _getItemsAndKeys2.items,
      keys = _getItemsAndKeys2.keys;

  var tabIndex = null;

  if (this.$router) {
    keys.forEach(function (key, index) {
      var item = items[key];
      var toProp = item.props.to;

      if (toProp && toProp === _this.$route.path) {
        tabIndex = index;
      }
    });
  }

  if (!this.hasActiveItem()) {
    if (keys[tabIndex]) {
      this.MdBottomBar.activeItem = keys[tabIndex];
    } else {
      this.MdBottomBar.activeItem = keys[0];
    }
  } else if (keys[tabIndex]) {
```

```
      this.MdBottomBar.activeItem = keys[tabIndex];
    }
  }
},
created: function created() {
  this.MdBottomBar.type = this.mdType;
},
mounted: function () {
  var _ref2 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee()
        {
    var _this2 = this;

    return regeneratorRuntime.wrap(function _callee$(_context) {
      var this$1 = this;

      while (1) {
        switch (_context.prev = _context.next) {
          case 0:
            _context.next = 2;
            return this$1.$nextTick();

          case 2:

            if (this$1.mdSyncRoute) {
              this$1.setActiveItemByRoute();
            } else {
              this$1.setActiveItemByIndex(0);
            }

            window.setTimeout(function () {
              _this2.setupWatchers();
            }, 100);

          case 4:
          case 'end':
            return _context.stop();
        }
      }
    }, _callee, this);
  }));

  function mounted() {
    return _ref2.apply(this, arguments);
  }

  return mounted;
```

```
  }()
});

/***/ }),
/* 92 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 93 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
          { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
          source[key]; } } } return target; };

var _raf = __webpack_require__(9);

var _raf2 = _interopRequireDefault(_raf);

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
          new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
          gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
          (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
          { step("next", value); }, function (err) { step("throw", err); }); } } return
          step("next"); }); }; } //
//
//
//
//
//
```

```
//
//
//
//
//
//
//
//

exports.default = new _MdComponent2.default({
  name: 'MdRipple',
  props: {
    mdActive: null,
    mdDisabled: Boolean,
    mdCentered: Boolean
  },
  data: function data() {
    return {
      eventType: null,
      waveStyles: null,
      animating: false,
      touchTimeout: null
    };
  },
  computed: {
    isDisabled: function isDisabled() {
      return !this.$material.ripple || this.mdDisabled;
    },
    rippleClasses: function rippleClasses() {
      return {
        'md-disabled': this.isDisabled
      };
    },
    waveClasses: function waveClasses() {
      return {
        'md-centered': this.mdCentered
      };
    }
  },
  watch: {
    mdActive: function mdActive(active) {
      var isBoolean = typeof active === 'boolean';
      var isEvent = active.constructor.name.toLowerCase() === 'mouseevent';

      if (isBoolean && this.mdCentered && active) {
        this.startRipple({
```

```
      type: 'mousedown'
     });
     this.$emit('update:mdActive', false);
    } else if (isEvent) {
     this.startRipple(active);
     this.$emit('update:mdActive', false);
    }
   }
 },
 methods: {
  touchMoveCheck: function touchMoveCheck() {
   window.clearTimeout(this.touchTimeout);
  },
  touchStartCheck: function touchStartCheck($event) {
   var _this = this;

   this.touchTimeout = window.setTimeout(function () {
    _this.startRipple($event);
   }, 100);
  },
  startRipple: function startRipple($event) {
   var _this2 = this;

   (0, _raf2.default)(_asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function
       _callee() {
    var eventType, isDisabled, mdCentered, size, position;
    return regeneratorRuntime.wrap(function _callee$(_context) {
     while (1) {
      switch (_context.prev = _context.next) {
       case 0:
        eventType = _this2.eventType, isDisabled = _this2.isDisabled, mdCentered =
      _this2.mdCentered;

        if (!(!isDisabled && (!eventType || eventType === $event.type))) {
         _context.next = 10;
         break;
        }

        size = _this2.getSize();
        position = null;


        if (mdCentered) {
         position = _this2.getCenteredPosition(size);
        } else {
         position = _this2.getHitPosition($event, size);
```

```
          }

          _context.next = 7;
          return _this2.clearWave();

        case 7:

          _this2.eventType = $event.type;
          _this2.animating = true;
          _this2.applyStyles(position, size);

        case 10:
        case 'end':
          return _context.stop();
      }
    }
  }, _callee, _this2);
 })));
},
applyStyles: function applyStyles(position, size) {
 size += 'px';

 this.waveStyles = _extends({}, position, {
  width: size,
  height: size
 });
},
clearWave: function clearWave() {
 this.waveStyles = null;
 this.animating = false;

 return this.$nextTick();
},
getSize: function getSize() {
 var _$el = this.$el,
    offsetWidth = _$el.offsetWidth,
    offsetHeight = _$el.offsetHeight;


 return Math.round(Math.max(offsetWidth, offsetHeight));
},
getCenteredPosition: function getCenteredPosition(size) {
 var halfSize = -size / 2 + 'px';

 return {
  'margin-top': halfSize,
```

```
      'margin-left': halfSize
    };
  },
  getHitPosition: function getHitPosition($event, elementSize) {
    var rect = this.$el.getBoundingClientRect();
    var top = $event.pageY;
    var left = $event.pageX;

    if ($event.type === 'touchstart') {
      top = $event.changedTouches[0].pageY;
      left = $event.changedTouches[0].pageX;
    }

    return {
      top: top - rect.top - elementSize / 2 - document.documentElement.scrollTop + 'px',
      left: left - rect.left - elementSize / 2 - document.documentElement.scrollLeft + 'px'
    };
  }
 }
});

/***/ }),
/* 94 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdBottomBar/
        MdBottomBarItem.vue
var MdBottomBarItem = __webpack_require__(95);
var MdBottomBarItem_default = /*#__PURE__*/__webpack_require__.n(MdBottomBarItem);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        7ba29fa6","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdBottomB
        ar/MdBottomBarItem.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-button",
    _vm._g(
      _vm._b(
        {
```

```
        staticClass: "md-bottom-bar-item",
        class: _vm.itemClasses,
        attrs: {
          id: _vm.id,
          disabled: _vm.mdDisabled,
          "md-ripple": _vm.MdBottomBar.type === "fixed"
        },
        on: { click: _vm.setActiveItem }
      },
      "md-button",
      _vm.$attrs,
      false
    ),
    _vm.$listeners
  ),
  [
    _vm.$slots.default
      ? _vm._t("default")
      : [
          _vm.isAssetIcon(_vm.mdIcon)
            ? _c("md-icon", {
                staticClass: "md-bottom-bar-icon",
                attrs: { "md-src": _vm.mdIcon }
              })
            : _c("md-icon", { staticClass: "md-bottom-bar-icon" }, [
                _vm._v(_vm._s(_vm.mdIcon))
              ]),
          _vm._v(" "),
          _c("span", { staticClass: "md-bottom-bar-label" }, [
            _vm._v(_vm._s(_vm.mdLabel))
          ])
        ]
  ],
  2
 )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdBottomBar_MdBottomBarItem = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
```

```
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdBottomBarItem_default.a,
  MdBottomBar_MdBottomBarItem,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdBottomBar/MdBottomBarItem.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdBottomBar_MdBottomBarItem =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 95 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdAssetIcon = __webpack_require__(18);

var _MdAssetIcon2 = _interopRequireDefault(_MdAssetIcon);

var _MdUuid = __webpack_require__(6);

var _MdUuid2 = _interopRequireDefault(_MdUuid);

var _MdRouterLinkProps = __webpack_require__(12);

var _MdRouterLinkProps2 = _interopRequireDefault(_MdRouterLinkProps);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }
```

```
var ignoredProps = ['id', 'mdLabel', 'mdIcon', 'mdDisabled']; //
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//

exports.default = {
  name: 'MdBottomBarItem',
  mixins: [_MdAssetIcon2.default],
  props: {
    id: {
      type: String,
      default: function _default() {
        return 'md-bottom-bar-item-' + (0, _MdUuid2.default)();
      }
    },
    to: null,
    mdLabel: String,
    mdIcon: String,
    mdDisabled: Boolean
  },
  inject: ['MdBottomBar'],
  watch: {
    $props: {
      deep: true,
      handler: function handler() {
        this.setItemData();
      }
    },
    $attrs: {
```

```
    deep: true,
    handler: function handler() {
      this.setItemData();
    }
  }
},
computed: {
  itemClasses: function itemClasses() {
    return {
      'md-active': this.id === this.MdBottomBar.activeItem
    };
  }
},
methods: {
  getPropValues: function getPropValues() {
    var _this = this;

    var propNames = Object.keys(this.$options.props);
    var values = {};

    propNames.forEach(function (prop) {
      if (!ignoredProps.includes(prop)) {
        if (_this[prop]) {
          values[prop] = _this[prop];
        } else if (_this.$attrs && _this.$attrs.hasOwnProperty(prop)) {
          if (prop) {
            values[prop] = _this.$attrs[prop];
          } else {
            values[prop] = true;
          }
        }
      }
    });

    return values;
  },
  setItemData: function setItemData() {
    this.$set(this.MdBottomBar.items, this.id, {
      disabled: this.mdDisabled,
      options: this.mdTemplateOptions,
      props: this.getPropValues()
    });
  },
  setActiveItem: function setActiveItem($event) {
    this.MdBottomBar.activeItem = this.id;
```

```
      if (this.MdBottomBar.type === 'shift') {
        this.MdBottomBar.mouseEvent = $event;
      }
    }
  },
  beforeCreate: function beforeCreate() {
    var _this2 = this;

    if (this.$router && this.$options.propsData.to) {
      var componentProps = (0, _MdRouterLinkProps2.default)(this, this.$options.props);
      var propNames = Object.keys(this.$options.propsData);

      this.$options.props = componentProps;
      propNames.forEach(function (prop) {
        if (!ignoredProps.includes(prop)) {
          _this2.$attrs[prop] = _this2.$options.propsData[prop];
        }
      });
    }
  },
  created: function created() {
    this.setItemData();
  },
  beforeDestroy: function beforeDestroy() {
    this.$delete(this.MdBottomBar.items, this.id);
  }
};

/***/ }),
/* 96 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdButton = __webpack_require__(13);

var _MdButton2 = _interopRequireDefault(_MdButton);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }
```

```
exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdButton2.default.name, _MdButton2.default);
};

/***/ }),
/* 97 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 98 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
          { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
          source[key]; } } } return target; };

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdFocused = __webpack_require__(32);

var _MdFocused2 = _interopRequireDefault(_MdFocused);

var _MdRipple = __webpack_require__(19);

var _MdRipple2 = _interopRequireDefault(_MdRipple);

var _MdRouterLinkProps = __webpack_require__(12);

var _MdRouterLinkProps2 = _interopRequireDefault(_MdRouterLinkProps);

var _MdButtonContent = __webpack_require__(99);

var _MdButtonContent2 = _interopRequireDefault(_MdButtonContent);
```

```
function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdButton',
  components: {
    MdButtonContent: _MdButtonContent2.default
  },
  mixins: [_MdRipple2.default, _MdFocused2.default],
  props: {
    href: String,
    type: {
      type: String,
      default: 'button'
    },
    disabled: Boolean,
    to: null
  },
  render: function render(createElement) {
    var buttonContent = createElement('md-button-content', {
      attrs: {
        mdRipple: this.mdRipple,
        disabled: this.disabled
      }
    }, this.$slots.default);
    var buttonAttrs = {
      staticClass: 'md-button',
      class: [this.$mdActiveTheme, {
        'md-ripple-off': !this.mdRipple,
        'md-focused': this.mdHasFocus
      }],
      attrs: _extends({}, this.attrs, {
        href: this.href,
        disabled: this.disabled,
        type: !this.href && (this.type || 'button')
      }),
      on: this.$listeners
    };
    var tag = 'button';

    if (this.href) {
      tag = 'a';
    } else if (this.$router && this.to) {
      this.$options.props = (0, _MdRouterLinkProps2.default)(this, this.$options.props);

      tag = 'router-link';
```

```
    buttonAttrs.props = this.$props;
    delete buttonAttrs.props.type;
    delete buttonAttrs.attrs.type;
    delete buttonAttrs.props.href;
    delete buttonAttrs.attrs.href;
   }

   return createElement(tag, buttonAttrs, [buttonContent]);
  }
});

/***/ }),
/* 99 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdButton/MdB
        uttonContent.vue
var MdButtonContent = __webpack_require__(101);
var MdButtonContent_default = /*#__PURE__*/__webpack_require__.n(MdButtonContent);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        008ae93a","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdButton/M
        dButtonContent.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-ripple",
    { attrs: { "md-disabled": !_vm.mdRipple || _vm.disabled } },
    [_c("div", { staticClass: "md-button-content" }, [_vm._t("default")], 2)]
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdButton_MdButtonContent = (esExports);
// CONCATENATED MODULE: ./src/components/MdButton/MdButtonContent.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(100);
```

```
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdButtonContent_default.a,
  MdButton_MdButtonContent,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdButton/MdButtonContent.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdButton_MdButtonContent =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 100 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 101 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
```

```
var _MdRipple = __webpack_require__(8);

var _MdRipple2 = _interopRequireDefault(_MdRipple);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdButtonContent',
  components: {
    MdRipple: _MdRipple2.default
  },
  props: {
    mdRipple: Boolean,
    disabled: Boolean
  }
}; //
//
//
//
//
//
//
//

/***/ }),
/* 102 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdCard = __webpack_require__(103);

var _MdCard2 = _interopRequireDefault(_MdCard);

var _MdCardArea = __webpack_require__(106);

var _MdCardArea2 = _interopRequireDefault(_MdCardArea);

var _MdCardHeader = __webpack_require__(109);
```

```
var _MdCardHeader2 = _interopRequireDefault(_MdCardHeader);

var _MdCardHeaderText = __webpack_require__(112);

var _MdCardHeaderText2 = _interopRequireDefault(_MdCardHeaderText);

var _MdCardMedia = __webpack_require__(114);

var _MdCardMedia2 = _interopRequireDefault(_MdCardMedia);

var _MdCardMediaActions = __webpack_require__(117);

var _MdCardMediaActions2 = _interopRequireDefault(_MdCardMediaActions);

var _MdCardMediaCover = __webpack_require__(120);

var _MdCardMediaCover2 = _interopRequireDefault(_MdCardMediaCover);

var _MdCardContent = __webpack_require__(123);

var _MdCardContent2 = _interopRequireDefault(_MdCardContent);

var _MdCardExpand = __webpack_require__(126);

var _MdCardExpand2 = _interopRequireDefault(_MdCardExpand);

var _MdCardExpandTrigger = __webpack_require__(129);

var _MdCardExpandTrigger2 = _interopRequireDefault(_MdCardExpandTrigger);

var _MdCardExpandContent = __webpack_require__(132);

var _MdCardExpandContent2 = _interopRequireDefault(_MdCardExpandContent);

var _MdCardActions = __webpack_require__(135);

var _MdCardActions2 = _interopRequireDefault(_MdCardActions);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdCard2.default.name, _MdCard2.default);
  Vue.component(_MdCardArea2.default.name, _MdCardArea2.default);
  Vue.component(_MdCardHeader2.default.name, _MdCardHeader2.default);
```

```
  Vue.component(_MdCardHeaderText2.default.name, _MdCardHeaderText2.default);
  Vue.component(_MdCardMedia2.default.name, _MdCardMedia2.default);
  Vue.component(_MdCardMediaActions2.default.name, _MdCardMediaActions2.default);
  Vue.component(_MdCardMediaCover2.default.name, _MdCardMediaCover2.default);
  Vue.component(_MdCardContent2.default.name, _MdCardContent2.default);
  Vue.component(_MdCardExpand2.default.name, _MdCardExpand2.default);
  Vue.component(_MdCardExpandTrigger2.default.name, _MdCardExpandTrigger2.default);
  Vue.component(_MdCardExpandContent2.default.name, _MdCardExpandContent2.default);
  Vue.component(_MdCardActions2.default.name, _MdCardActions2.default);
};

/***/ }),
/* 103 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdCard/MdCar
        d.vue
var MdCard = __webpack_require__(105);
var MdCard_default = /*#__PURE__*/__webpack_require__.n(MdCard);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        24f7f3af","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdCard/Md
        Card.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-card", class: [_vm.$mdActiveTheme, _vm.cardClasses] },
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdCard_MdCard = (esExports);
// CONCATENATED MODULE: ./src/components/MdCard/MdCard.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
```

```
  __webpack_require__(104);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdCard_default.a,
  MdCard_MdCard,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdCard/MdCard.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdCard_MdCard =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 104 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 105 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
```

```
var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdCard',
  props: {
    mdWithHover: Boolean
  },
  data: function data() {
    return {
      MdCard: {
        expand: false
      }
    };
  },
  provide: function provide() {
    return {
      MdCard: this.MdCard
    };
  },

  computed: {
    cardClasses: function cardClasses() {
      return {
        'md-with-hover': this.mdWithHover,
        'md-expand-active': this.MdCard.expand
      };
    }
  }
}); //
//
//
//
//

/***/ }),
/* 106 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
```

```
// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdCard/MdCar
        dArea/MdCardArea.vue
var MdCardArea = __webpack_require__(108);
var MdCardArea_default = /*#__PURE__*/__webpack_require__.n(MdCardArea);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        132f02d7","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdCard/Md
        CardArea/MdCardArea.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-card-area", class: _vm.areaClasses },
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdCardArea_MdCardArea = (esExports);
// CONCATENATED MODULE: ./src/components/MdCard/MdCardArea/MdCardArea.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(107);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
```

```
  MdCardArea_default.a,
  MdCardArea_MdCardArea,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdCard/MdCardArea/MdCardArea.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdCard_MdCardArea_MdCardArea =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 107 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 108 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
//

exports.default = {
  name: 'MdCardArea',
  props: {
    mdInset: Boolean
  },
  computed: {
    areaClasses: function areaClasses() {
      return {
        'md-inset': this.mdInset
```

```
    };
   }
  }
};

/***/ }),
/* 109 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdCard/MdCar
        dHeader/MdCardHeader.vue
var MdCardHeader = __webpack_require__(111);
var MdCardHeader_default = /*#__PURE__*/__webpack_require__.n(MdCardHeader);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        4d103817","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdCard/Md
        CardHeader/MdCardHeader.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c("div", { staticClass: "md-card-header" }, [_vm._t("default")], 2)
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdCardHeader_MdCardHeader = (esExports);
// CONCATENATED
        MODULE: ./src/components/MdCard/MdCardHeader/MdCardHeader.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(110);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
```

```
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdCardHeader_default.a,
  MdCardHeader_MdCardHeader,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdCard/MdCardHeader/MdCardHeader.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdCard_MdCardHeader_MdCardHeader =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 110 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 111 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
//

exports.default = {
  name: 'MdCardHeader'
};
```

```
/***/ }),
/* 112 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdCard/MdCar
        dHeader/MdCardHeaderText.vue
var MdCardHeaderText = __webpack_require__(113);
var MdCardHeaderText_default =
        /*#__PURE__*/__webpack_require__.n(MdCardHeaderText);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        49a3ab64","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdCard/Md
        CardHeader/MdCardHeaderText.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-card-header-text" },
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdCardHeader_MdCardHeaderText = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
```

```
var Component = normalizeComponent(
  MdCardHeaderText_default.a,
  MdCardHeader_MdCardHeaderText,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file =
        "src/components/MdCard/MdCardHeader/MdCardHeaderText.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdCard_MdCardHeader_MdCardHeaderText =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 113 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
//

exports.default = {
  name: 'MdCardHeaderText',
  data: function data() {
    return {
      parentClasses: null
    };
  },
  mounted: function mounted() {
    this.parentClasses = this.$parent.$el.classList;

    if (this.parentClasses.contains('md-card-header')) {
      this.parentClasses.add('md-card-header-flex');
    }
```

```
  },
  beforeDestroy: function beforeDestroy() {
    this.parentClasses.remove('md-card-header-flex');
  }
};

/***/ }),
/* 114 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdCard/MdCar
        dMedia/MdCardMedia.vue
var MdCardMedia = __webpack_require__(116);
var MdCardMedia_default = /*#__PURE__*/__webpack_require__.n(MdCardMedia);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        33e1f253","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdCard/Md
        CardMedia/MdCardMedia.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-card-media", class: _vm.mediaClasses },
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdCardMedia_MdCardMedia = (esExports);
// CONCATENATED MODULE: ./src/components/MdCard/MdCardMedia/MdCardMedia.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(115);
}
var normalizeComponent = __webpack_require__(0);
/* script */
```

```
/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdCardMedia_default.a,
  MdCardMedia_MdCardMedia,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdCard/MdCardMedia/MdCardMedia.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdCard_MdCardMedia_MdCardMedia =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 115 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 116 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _slicedToArray = function () { function sliceIterator(arr, i) { var _arr = []; var _n = true; var
        _d = false; var _e = undefined; try { for (var _i = arr[Symbol.iterator](), _s; !(_n = (_s =
        _i.next()).done); _n = true) { _arr.push(_s.value); if (i && _arr.length === i)
        { break; } } } catch (err) { _d = true; _e = err; } finally { try { if (!_n && _i["return"])
```

```
        { _i["return"](); } } finally { if (_d) { throw _e; } } } return _arr; } return function (arr, i)
        { if (Array.isArray(arr)) { return arr; } else if (Symbol.iterator in Object(arr)) { return
        sliceIterator(arr, i); } else { throw new TypeError("Invalid attempt to destructure non-
        iterable instance"); } }; }();

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; }; //
//
//
//
//
//

var _MdPropValidator = __webpack_require__(4);

var _MdPropValidator2 = _interopRequireDefault(_MdPropValidator);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdCardMedia',
  props: {
    mdRatio: _extends({
      type: String
    }, (0, _MdPropValidator2.default)('md-ratio', ['16-9', '16/9', '16:9', '4-3', '4/3', '4:3', '1-1', '1/1',
          '1:1'])),
    mdMedium: Boolean,
    mdBig: Boolean
  },
  computed: {
    mediaClasses: function mediaClasses() {
      var classes = {};

      if (this.mdRatio) {
        var ratio = this.getAspectRatio();

        if (ratio) {
          var _ratio = _slicedToArray(ratio, 2),
              horiz = _ratio[0],
              vert = _ratio[1];

          classes['md-ratio-' + horiz + '-' + vert] = true;
        }
```

```
    }

    if (this.mdMedium || this.mdBig) {
      classes = {
        'md-medium': this.mdMedium,
        'md-big': this.mdBig
      };
    }

    return classes;
  }
 },
 methods: {
  getAspectRatio: function getAspectRatio() {
    var ratio = [];

    if (this.mdRatio.indexOf(':') !== -1) {
      ratio = this.mdRatio.split(':');
    } else if (this.mdRatio.indexOf('/') !== -1) {
      ratio = this.mdRatio.split('/');
    } else if (this.mdRatio.indexOf('-') !== -1) {
      ratio = this.mdRatio.split('-');
    }

    return ratio.length === 2 ? ratio : null;
  }
 }
};

/***/ }),
/* 117 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdCard/MdCar
        dMedia/MdCardMediaActions.vue
var MdCardMediaActions = __webpack_require__(119);
var MdCardMediaActions_default =
        /*#__PURE__*/__webpack_require__.n(MdCardMediaActions);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        102584da","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdCard/Md
        CardMedia/MdCardMediaActions.vue
```

```
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-card-media-actions" },
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdCardMedia_MdCardMediaActions = (esExports);
// CONCATENATED
        MODULE: ./src/components/MdCard/MdCardMedia/MdCardMediaActions.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(118);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdCardMediaActions_default.a,
  MdCardMedia_MdCardMediaActions,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file =
        "src/components/MdCard/MdCardMedia/MdCardMediaActions.vue";
```

```
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdCard_MdCardMedia_MdCardMediaActions =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 118 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 119 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
//

exports.default = {
  name: 'MdCardMediaActions'
};

/***/ }),
/* 120 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdCard/MdCar
        dMedia/MdCardMediaCover.vue
var MdCardMediaCover = __webpack_require__(122);
var MdCardMediaCover_default =
        /*#__PURE__*/__webpack_require__.n(MdCardMediaCover);
```

```
// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        20dfcfd4","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdCard/Md
        CardMedia/MdCardMediaCover.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-card-media-cover", class: _vm.coverClasses },
    [
      _vm._t("default"),
      _vm._v(" "),
      _vm.mdTextScrim
        ? _c("div", {
            ref: "backdrop",
            staticClass: "md-card-backdrop",
            style: _vm.coverStyles
          })
        : _vm._e()
    ],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdCardMedia_MdCardMediaCover = (esExports);
// CONCATENATED
        MODULE: ./src/components/MdCard/MdCardMedia/MdCardMediaCover.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(121);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
```

```
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdCardMediaCover_default.a,
  MdCardMedia_MdCardMediaCover,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdCard/MdCardMedia/MdCardMediaCover.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdCard_MdCardMedia_MdCardMediaCover =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 121 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 122 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
//
//

exports.default = {
  name: 'MdCardMediaCover',
  props: {
```

```
  mdTextScrim: Boolean,
  mdSolid: Boolean
},
data: function data() {
  return {
    backdropBackground: {}
  };
},
computed: {
  coverClasses: function coverClasses() {
    return {
      'md-text-scrim': this.mdTextScrim,
      'md-solid': this.mdSolid
    };
  },
  coverStyles: function coverStyles() {
    return {
      background: this.backdropBackground
    };
  }
},
methods: {
  applyScrimColor: function applyScrimColor(darkness) {
    if (this.$refs.backdrop) {
      this.backdropBackground = 'linear-gradient(to bottom, rgba(0, 0, 0, 0) 20%, rgba(0, 0, 0, ' +
          darkness / 2 + ') 66%, rgba(0, 0, 0, ' + darkness + ') 100%)';
    }
  },
  applySolidColor: function applySolidColor(darkness) {
    var area = this.$el.querySelector('.md-card-area');

    if (area) {
      area.style.background = 'rgba(0, 0, 0, ' + darkness + ')';
    }
  },
  getImageLightness: function getImageLightness(image, onLoad, onError) {
    var canvas = document.createElement('canvas');

    image.crossOrigin = 'Anonymous';

    image.onload = function () {
      var colorSum = 0;
      var ctx = void 0;
      var imageData = void 0;
      var imageMetadata = void 0;
      var r = void 0;
```

```
      var g = void 0;
      var b = void 0;
      var average = void 0;

      canvas.width = this.width;
      canvas.height = this.height;
      ctx = canvas.getContext('2d');

      ctx.drawImage(this, 0, 0);

      imageData = ctx.getImageData(0, 0, canvas.width, canvas.height);
      imageMetadata = imageData.data;

      for (var x = 0, len = imageMetadata.length; x < len; x += 4) {
        r = imageMetadata[x];
        g = imageMetadata[x + 1];
        b = imageMetadata[x + 2];

        average = Math.floor((r + g + b) / 3);
        colorSum += average;
      }

      onLoad(Math.floor(colorSum / (this.width * this.height)));
    };

    image.onerror = onError;
  }
},
mounted: function mounted() {
  var _this = this;

  var applyBackground = function applyBackground() {
    var darkness = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : 0.6;

    if (_this.mdTextScrim) {
      _this.applyScrimColor(darkness);
    } else if (_this.mdSolid) {
      _this.applySolidColor(darkness);
    }
  };
  var image = this.$el.querySelector('img');

  if (image && (this.mdTextScrim || this.mdSolid)) {
    this.getImageLightness(image, function (lightness) {
      var limit = 256;
      var darkness = (Math.abs(limit - lightness) * 100 / limit + 15) / 100;
```

```
      if (darkness >= 0.7) {
        darkness = 0.7;
      }

      applyBackground(darkness);
    }, applyBackground);
  }
 }
};

/***/ }),
/* 123 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdCard/MdCar
        dContent/MdCardContent.vue
var MdCardContent = __webpack_require__(125);
var MdCardContent_default = /*#__PURE__*/__webpack_require__.n(MdCardContent);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        36a98486","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdCard/Md
        CardContent/MdCardContent.vue
var render = function() {
 var _vm = this;
 var _h = _vm.$createElement;
 var _c = _vm._self._c || _h;
 return _c("div", { staticClass: "md-card-content" }, [_vm._t("default")], 2)
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdCardContent_MdCardContent = (esExports);
// CONCATENATED
        MODULE: ./src/components/MdCard/MdCardContent/MdCardContent.vue
var disposed = false;
function injectStyle (ssrContext) {
 if (disposed) { return }
 __webpack_require__(124);
}
var normalizeComponent = __webpack_require__(0);
/* script */
```

```
/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdCardContent_default.a,
  MdCardContent_MdCardContent,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdCard/MdCardContent/MdCardContent.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdCard_MdCardContent_MdCardContent =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 124 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 125 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
```

```
//
//

exports.default = {
  name: 'MdCardContent'
};

/***/ }),
/* 126 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdCard/MdCar
        dExpand/MdCardExpand.vue
var MdCardExpand = __webpack_require__(128);
var MdCardExpand_default = /*#__PURE__*/__webpack_require__.n(MdCardExpand);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        d46d3592","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdCard/Md
        CardExpand/MdCardExpand.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c("div", { staticClass: "md-card-expand" }, [_vm._t("default")], 2)
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdCardExpand_MdCardExpand = (esExports);
// CONCATENATED
        MODULE: ./src/components/MdCard/MdCardExpand/MdCardExpand.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(127);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
```

```
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdCardExpand_default.a,
  MdCardExpand_MdCardExpand,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdCard/MdCardExpand/MdCardExpand.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdCard_MdCardExpand_MdCardExpand =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 127 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 128 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
//

exports.default = {
```

```
  name: 'MdCardExpand',
  inject: ['MdCard']
};

/***/ }),
/* 129 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdCardExpandTrigger_vue__ =
        __webpack_require__(131);
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdCardExpandTrigger_vue___default =
        __webpack_require__.n(__WEBPACK_IMPORTED_MODULE_0__babel_loader_node
        _modules_vue_loader_lib_selector_type_script_index_0_bustCache_MdCardExpandTrig
        ger_vue__);
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(130);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */
var __vue_template__ = null;
/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(

        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdCardExpandTrigger_vue___default.a,
  __vue_template__,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
```

```
Component.options.__file =
        "src/components/MdCard/MdCardExpand/MdCardExpandTrigger.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 130 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 131 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; };

var _slicedToArray = function () { function sliceIterator(arr, i) { var _arr = []; var _n = true; var
        _d = false; var _e = undefined; try { for (var _i = arr[Symbol.iterator](), _s; !(_n = (_s =
        _i.next()).done); _n = true) { _arr.push(_s.value); if (i && _arr.length === i)
        { break; } } } catch (err) { _d = true; _e = err; } finally { try { if (!_n && _i["return"])
        { _i["return"](); } } finally { if (_d) { throw _e; } } } return _arr; } return function (arr, i)
        { if (Array.isArray(arr)) { return arr; } else if (Symbol.iterator in Object(arr)) { return
        sliceIterator(arr, i); } else { throw new TypeError("Invalid attempt to destructure non-
        iterable instance"); } }; }();

exports.default = {
  name: 'MdCardExpandTrigger',
  inject: ['MdCard'],
  render: function render(createElement) {
    var _this = this;

    var _$slots$default = _slicedToArray(this.$slots.default, 1),
```

```
      trigger = _$slots$default[0];

    var staticClass = ' md-card-expand-trigger';
    var listeners = {
      click: function click() {
        _this.MdCard.expand = !_this.MdCard.expand;
      }
    };

    if (trigger) {
      trigger.componentOptions.listeners = _extends({}, trigger.componentOptions.listeners,
          listeners);
      trigger.data.staticClass += staticClass;

      return trigger;
    }

    return createElement('div', {
      staticClass: staticClass,
      on: listeners
    });
  }
};

/***/ }),
/* 132 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdCard/MdCar
        dExpand/MdCardExpandContent.vue
var MdCardExpandContent = __webpack_require__(134);
var MdCardExpandContent_default =
        /*#__PURE__*/__webpack_require__.n(MdCardExpandContent);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        604296f2","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdCard/Md
        CardExpand/MdCardExpandContent.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
```

```
    "div",
    { staticClass: "md-card-expand-content", style: _vm.contentStyles },
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdCardExpand_MdCardExpandContent = (esExports);
// CONCATENATED
        MODULE: ./src/components/MdCard/MdCardExpand/MdCardExpandContent.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(133);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdCardExpandContent_default.a,
  MdCardExpand_MdCardExpandContent,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file =
        "src/components/MdCard/MdCardExpand/MdCardExpandContent.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdCard_MdCardExpand_MdCardExpandContent =
        __webpack_exports__["default"] = (Component.exports);
```

```
/***/ }),
/* 133 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 134 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
//

exports.default = {
  name: 'MdCardExpandContent',
  inject: ['MdCard'],
  data: function data() {
    return {
      marginTop: 0
    };
  },
  computed: {
    expand: function expand() {
      return this.MdCard.expand;
    },
    contentStyles: function contentStyles() {
      return {
        'margin-top': '-' + this.marginTop + 'px',
        'opacity': this.marginTop === 0 ? 1 : 0
      };
    }
  },
  watch: {
    expand: function expand(_expand) {
      if (!_expand) {
        this.marginTop = this.$el.children[0].offsetHeight;
```

```
    } else {
      this.marginTop = 0;
    }
   }
  },
  mounted: function mounted() {
   this.marginTop = this.$el.children[0].offsetHeight;
  }
};

/***/ }),
/* 135 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdCard/MdCar
        dActions/MdCardActions.vue
var MdCardActions = __webpack_require__(137);
var MdCardActions_default = /*#__PURE__*/__webpack_require__.n(MdCardActions);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        2894ebc5","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdCard/Md
        CardActions/MdCardActions.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    {
     staticClass: "md-card-actions",
     class: "md-alignment-" + _vm.mdAlignment
    },
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdCardActions_MdCardActions = (esExports);
// CONCATENATED
        MODULE: ./src/components/MdCard/MdCardActions/MdCardActions.vue
```

```
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(136);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdCardActions_default.a,
  MdCardActions_MdCardActions,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdCard/MdCardActions/MdCardActions.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdCard_MdCardActions_MdCardActions =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 136 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 137 */
/***/ (function(module, exports, __webpack_require__) {
```

```
Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
          { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
          source[key]; } } } return target; }; //
//
//
//
//
//

var _MdPropValidator = __webpack_require__(4);

var _MdPropValidator2 = _interopRequireDefault(_MdPropValidator);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

var alignments = ['left', 'right', 'space-between'];

exports.default = {
  name: 'MdCardActions',
  props: {
    mdAlignment: _extends({
      type: String,
      default: 'right'
    }, (0, _MdPropValidator2.default)('md-alignment', alignments))
  }
};

/***/ }),
/* 138 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);
```

```
var _MdCheckbox = __webpack_require__(139);

var _MdCheckbox2 = _interopRequireDefault(_MdCheckbox);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdCheckbox2.default.name, _MdCheckbox2.default);
};

/***/ }),
/* 139 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdCheckbox/
        MdCheckbox.vue
var MdCheckbox = __webpack_require__(141);
var MdCheckbox_default = /*#__PURE__*/__webpack_require__.n(MdCheckbox);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        7c2899cf","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdCheckbo
        x/MdCheckbox.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    {
      staticClass: "md-checkbox",
      class: [_vm.$mdActiveTheme, _vm.checkClasses]
    },
    [
      _c(
        "div",
        {
          staticClass: "md-checkbox-container",
          on: {
            click: function($event) {
              $event.stopPropagation();
              _vm.toggleCheck($event);
```

```
      }
    }
  },
  [
    _c(
      "md-ripple",
      {
        attrs: {
          "md-centered": "",
          "md-active": _vm.rippleActive,
          "md-disabled": _vm.disabled
        },
        on: {
          "update:mdActive": function($event) {
            _vm.rippleActive = $event;
          }
        }
      },
      [
        _c(
          "input",
          _vm._b(
            { attrs: { type: "checkbox" } },
            "input",
            {
              id: _vm.id,
              name: _vm.name,
              disabled: _vm.disabled,
              required: _vm.required,
              value: _vm.value
            },
            false
          )
        )
      ]
    )
  ],
  1
),
_vm._v(" "),
_vm.$slots.default
  ? _c(
      "label",
      {
        staticClass: "md-checkbox-label",
        attrs: { for: _vm.id },
```

```
            on: {
              click: function($event) {
                $event.preventDefault();
                _vm.toggleCheck($event);
              }
            }
          },
          [_vm._t("default")],
          2
        )
      : _vm._e()
  ]
 )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdCheckbox_MdCheckbox = (esExports);
// CONCATENATED MODULE: ./src/components/MdCheckbox/MdCheckbox.vue
var disposed = false;
function injectStyle (ssrContext) {
 if (disposed) { return }
 __webpack_require__(140);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
 var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
 MdCheckbox_default.a,
 MdCheckbox_MdCheckbox,
 __vue_template_functional__,
 __vue_styles__,
 __vue_scopeId__,
 __vue_module_identifier__
);
Component.options.__file = "src/components/MdCheckbox/MdCheckbox.vue";
```

```
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdCheckbox_MdCheckbox =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 140 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 141 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdCheckboxMixin = __webpack_require__(33);

var _MdCheckboxMixin2 = _interopRequireDefault(_MdCheckboxMixin);

var _MdUuid = __webpack_require__(6);

var _MdUuid2 = _interopRequireDefault(_MdUuid);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdCheckbox',
  mixins: [_MdCheckboxMixin2.default],
  props: {
    id: {
      type: String,
      default: function _default() {
        return 'md-checkbox-' + (0, _MdUuid2.default)();
      }
```

```
    }
  }
}); //
//
//
//
//
//
//
//
//
//
//
//
//
//

/***/ }),
/* 142 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdChips = __webpack_require__(143);

var _MdChips2 = _interopRequireDefault(_MdChips);

var _MdChip = __webpack_require__(159);

var _MdChip2 = _interopRequireDefault(_MdChip);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdChips2.default.name, _MdChips2.default);
  Vue.component(_MdChip2.default.name, _MdChip2.default);
};
```

```
/***/ }),
/* 143 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdChips/MdC
        hips.vue
var MdChips = __webpack_require__(145);
var MdChips_default = /*#__PURE__*/__webpack_require__.n(MdChips);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        0b3d2a1e","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdChips/M
        dChips.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-field",
    { staticClass: "md-chips", class: [_vm.$mdActiveTheme, _vm.chipsClasses] },
    [
      !_vm.mdStatic ? _vm._t("default") : _vm._e(),
      _vm._v(" "),
      _vm._l(_vm.value, function(chip, key) {
        return _c(
          "md-chip",
          {
            key: key,
            attrs: {
              "md-deletable": !_vm.mdStatic,
              "md-clickable": !_vm.mdStatic
            },
            on: {
              keydown: function($event) {
                if (
                  !("button" in $event) &&
                  _vm._k($event.keyCode, "enter", 13, $event.key)
                ) {
                  return null
                }
                _vm.$emit("md-click", chip, key);
              },
              "md-delete": function($event) {
```

```
          $event.stopPropagation();
          _vm.removeChip(chip);
        }
      },
      nativeOn: {
        click: function($event) {
          _vm.$emit("md-click", chip, key);
        }
      }
    },
    [
      _vm.$scopedSlots["md-chip"]
        ? _vm._t("md-chip", [_vm._v(_vm._s(chip))], { chip: chip })
        : [_vm._v(_vm._s(chip))]
    ],
    2
  )
}),
_vm._v(" "),
!_vm.mdStatic && _vm.modelRespectLimit
  ? _c("md-input", {
      ref: "input",
      attrs: {
        type: _vm.mdInputType,
        id: _vm.id,
        placeholder: _vm.mdPlaceholder
      },
      on: {
        keydown: [
          function($event) {
            if (
              !("button" in $event) &&
              _vm._k($event.keyCode, "enter", 13, $event.key)
            ) {
              return null
            }
            _vm.insertChip($event);
          },
          function($event) {
            if (!("button" in $event) && $event.keyCode !== 8) {
              return null
            }
            _vm.handleBackRemove($event);
          }
        ]
      },
```

```
          model: {
            value: _vm.inputValue,
            callback: function($$v) {
              _vm.inputValue = typeof $$v === "string" ? $$v.trim() : $$v;
            },
            expression: "inputValue"
          }
        })
      : _vm._e()
  ],
  2
 )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdChips_MdChips = (esExports);
// CONCATENATED MODULE: ./src/components/MdChips/MdChips.vue
var disposed = false;
function injectStyle (ssrContext) {
 if (disposed) { return }
 __webpack_require__(144);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
 var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
 MdChips_default.a,
 MdChips_MdChips,
 __vue_template_functional__,
 __vue_styles__,
 __vue_scopeId__,
 __vue_module_identifier__
);
Component.options.__file = "src/components/MdChips/MdChips.vue";
```

```
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdChips_MdChips =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 144 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 145 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; }; //
//
//
//
```

```
//
//
//
//
//
//
//
//
//
//

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdField = __webpack_require__(20);

var _MdField2 = _interopRequireDefault(_MdField);

var _MdInput = __webpack_require__(14);

var _MdInput2 = _interopRequireDefault(_MdInput);

var _MdUuid = __webpack_require__(6);

var _MdUuid2 = _interopRequireDefault(_MdUuid);

var _MdPropValidator = __webpack_require__(4);

var _MdPropValidator2 = _interopRequireDefault(_MdPropValidator);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdChips',
  components: {
    MdField: _MdField2.default,
    MdInput: _MdInput2.default
  },
  props: {
    value: Array,
    id: {
      type: [String, Number],
      default: function _default() {
        return 'md-chips-' + (0, _MdUuid2.default)();
      }
```

```
  },
  mdInputType: _extends({
    type: [String, Number]
  }, (0, _MdPropValidator2.default)('md-input-type', ['email', 'number', 'password', 'search', 'tel',
        'text', 'url'])),
  mdPlaceholder: [String, Number],
  mdStatic: Boolean,
  mdLimit: Number
},
data: function data() {
  return {
    inputValue: ''
  };
},
computed: {
  chipsClasses: function chipsClasses() {
    return {
      'md-has-value': this.value && this.value.length
    };
  },
  modelRespectLimit: function modelRespectLimit() {
    return !this.mdLimit || this.value.length < this.mdLimit;
  }
},
methods: {
  insertChip: function insertChip(_ref) {
    var target = _ref.target;

    if (!this.inputValue || this.value.includes(this.inputValue) || !this.modelRespectLimit) {
      return;
    }
    this.value.push(this.inputValue);
    this.$emit('input', this.value);
    this.$emit('md-insert', this.inputValue);
    this.inputValue = '';
  },
  removeChip: function removeChip(chip) {
    var _this = this;

    var index = this.value.indexOf(chip);

    this.value.splice(index, 1);
    this.$emit('input', this.value);
    this.$emit('md-delete', chip, index);
    this.$nextTick(function () {
      return _this.$refs.input.$el.focus();
```

```
    });
   },
   handleBackRemove: function handleBackRemove() {
    if (!this.inputValue) {
     this.removeChip(this.value[this.value.length - 1]);
    }
   }
  }
});

/***/ }),
/* 146 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 147 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdClearIcon = __webpack_require__(34);

var _MdClearIcon2 = _interopRequireDefault(_MdClearIcon);

var _MdPasswordOffIcon = __webpack_require__(154);

var _MdPasswordOffIcon2 = _interopRequireDefault(_MdPasswordOffIcon);

var _MdPasswordOnIcon = __webpack_require__(156);

var _MdPasswordOnIcon2 = _interopRequireDefault(_MdPasswordOnIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
```

```
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; } //
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//

exports.default = new _MdComponent2.default({
  name: 'MdField',
  components: {
    MdClearIcon: _MdClearIcon2.default,
    MdPasswordOffIcon: _MdPasswordOffIcon2.default,
    MdPasswordOnIcon: _MdPasswordOnIcon2.default
  },
  props: {
    mdInline: Boolean,
    mdClearable: Boolean,
    mdCounter: {
      type: Boolean,
      default: true
    },
    mdTogglePassword: {
      type: Boolean,
      default: true
    }
  },
  data: function data() {
    return {
      showPassword: false,
```

```
    MdField: {
      value: null,
      focused: false,
      highlighted: false,
      disabled: false,
      required: false,
      placeholder: false,
      textarea: false,
      autogrow: false,
      maxlength: null,
      counter: null,
      password: null,
      togglePassword: false,
      clear: false,
      file: false
    }
  };
},
provide: function provide() {
  return {
    MdField: this.MdField
  };
},

computed: {
  stringValue: function stringValue() {
    return this.MdField.value && this.MdField.value.toString();
  },
  hasCounter: function hasCounter() {
    return this.mdCounter && (this.MdField.maxlength || this.MdField.counter);
  },
  hasPasswordToggle: function hasPasswordToggle() {
    return this.mdTogglePassword && this.MdField.password;
  },
  hasValue: function hasValue() {
    return this.stringValue && this.stringValue.length > 0;
  },
  valueLength: function valueLength() {
    if (this.stringValue) {
      return this.stringValue.length;
    }

    return 0;
  },
  fieldClasses: function fieldClasses() {
    return {
```

```
      'md-inline': this.mdInline,
      'md-clearable': this.mdClearable,
      'md-focused': this.MdField.focused,
      'md-highlight': this.MdField.highlighted,
      'md-disabled': this.MdField.disabled,
      'md-required': this.MdField.required,
      'md-has-value': this.hasValue,
      'md-has-placeholder': this.MdField.placeholder,
      'md-has-textarea': this.MdField.textarea,
      'md-has-password': this.MdField.password,
      'md-has-file': this.MdField.file,
      'md-has-select': this.MdField.select,
      'md-autogrow': this.MdField.autogrow
    };
  }
},
methods: {
  clearInput: function () {
    var _ref = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee()
        {
      return regeneratorRuntime.wrap(function _callee$(_context) {
        var this$1 = this;

        while (1) {
          switch (_context.prev = _context.next) {
            case 0:
              this$1.MdField.clear = true;
              _context.next = 3;
              return this$1.$nextTick();

            case 3:
              this$1.MdField.clear = false;

            case 4:
            case 'end':
              return _context.stop();
          }
        }
      }, _callee, this);
    }));

    function clearInput() {
      return _ref.apply(this, arguments);
    }

    return clearInput;
```

```
  }(),
  togglePassword: function () {
    var _ref2 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function
        _callee2() {
      return regeneratorRuntime.wrap(function _callee2$(_context2) {
        var this$1 = this;

        while (1) {
          switch (_context2.prev = _context2.next) {
            case 0:
              this$1.MdField.togglePassword = !this$1.MdField.togglePassword;

            case 1:
            case 'end':
              return _context2.stop();
          }
        }
      }, _callee2, this);
    }));

    function togglePassword() {
      return _ref2.apply(this, arguments);
    }

    return togglePassword;
  }(),
  onBlur: function onBlur() {
    this.MdField.highlighted = false;
  }
 }
});

/***/ }),
/* 148 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdIcon = __webpack_require__(5);

var _MdIcon2 = _interopRequireDefault(_MdIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }
```

```
exports.default = {
  name: 'MdClearIcon',
  components: {
    MdIcon: _MdIcon2.default
  }
}; //
//
//
//
//
//
//
//
//

/***/ }),
/* 149 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 150 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdSvgLoader = __webpack_require__(151);

var _MdSvgLoader2 = _interopRequireDefault(_MdSvgLoader);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

//
//
//
//
//
//
```

```
//
//

exports.default = new _MdComponent2.default({
  name: 'MdIcon',
  components: {
    MdSvgLoader: _MdSvgLoader2.default
  },
  props: {
    mdSrc: String
  }
});

/***/ }),
/* 151 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdSvgLoader/
        MdSvgLoader.vue
var MdSvgLoader = __webpack_require__(153);
var MdSvgLoader_default = /*#__PURE__*/__webpack_require__.n(MdSvgLoader);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        0db3655e","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdSvgLoad
        er/MdSvgLoader.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c("i", {
    staticClass: "md-svg-loader",
    domProps: { innerHTML: _vm._s(_vm.html) }
  })
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdSvgLoader_MdSvgLoader = (esExports);
// CONCATENATED MODULE: ./src/components/MdSvgLoader/MdSvgLoader.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
```

```
  __webpack_require__(152);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdSvgLoader_default.a,
  MdSvgLoader_MdSvgLoader,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdSvgLoader/MdSvgLoader.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdSvgLoader_MdSvgLoader =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 152 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 153 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
```

```
function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; }

//
//
//
//

var mdSVGStore = {};

exports.default = {
  name: 'MdSVGLoader',
  props: {
    mdSrc: {
      type: String,
      required: true
    }
  },
  data: function data() {
    return {
      html: null,
      error: null
    };
  },
  watch: {
    mdSrc: function mdSrc() {
      this.html = null;
      this.loadSVG();
    }
  },
  methods: {
    isSVG: function isSVG(mimetype) {
      return mimetype.indexOf('svg') >= 0;
    },
    setHtml: function () {
      var _ref = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function
          _callee(value) {
        return regeneratorRuntime.wrap(function _callee$(_context) {
          var this$1 = this;

          while (1) {
```

```
        switch (_context.prev = _context.next) {
          case 0:
            _context.next = 2;
            return mdSVGStore[this$1.mdSrc];

          case 2:
            this$1.html = _context.sent;
            _context.next = 5;
            return this$1.$nextTick();

          case 5:

            this$1.$emit('md-loaded');

          case 6:
          case 'end':
            return _context.stop();
        }
      }
    }, _callee, this);
  }));

  function setHtml(_x) {
    return _ref.apply(this, arguments);
  }

  return setHtml;
}(),
unexpectedError: function unexpectedError(reject) {
  this.error = 'Something bad happened trying to fetch ' + this.mdSrc + '.';
  reject(this.error);
},
loadSVG: function loadSVG() {
  var _this = this;

  if (!mdSVGStore.hasOwnProperty(this.mdSrc)) {
    mdSVGStore[this.mdSrc] = new Promise(function (resolve, reject) {
      var request = new window.XMLHttpRequest();

      request.open('GET', _this.mdSrc, true);

      request.onload = function () {
        var mimetype = request.getResponseHeader('content-type');

        if (request.status === 200) {
          if (_this.isSVG(mimetype)) {
```

```
            resolve(request.response);
            _this.setHtml();
          } else {
            _this.error = 'The file ' + _this.mdSrc + ' is not a valid SVG.';
            reject(_this.error);
          }
        } else if (request.status >= 400 && request.status < 500) {
          _this.error = 'The file ' + _this.mdSrc + ' do not exists.';
          reject(_this.error);
        } else {
          _this.unexpectedError(reject);
        }
      };

      request.onerror = function () {
        return _this.unexpectedError(reject);
      };
      request.onabort = function () {
        return _this.unexpectedError(reject);
      };
      request.send();
    });
  } else {
    this.setHtml();
  }
 }
},
mounted: function mounted() {
 this.loadSVG();
}
};

/***/ }),
/* 154 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/core/icons/MdPasswordOffI
        con.vue
var MdPasswordOffIcon = __webpack_require__(155);
var MdPasswordOffIcon_default =
        /*#__PURE__*/__webpack_require__.n(MdPasswordOffIcon);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
```

```
        4113206a","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/core/icons/MdPasswordO
        ffIcon.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm._m(0)
};
var staticRenderFns = [
  function() {
    var _vm = this;
    var _h = _vm.$createElement;
    var _c = _vm._self._c || _h;
    return _c("md-icon", { staticClass: "md-icon-image" }, [
      _c(
        "svg",
        {
          attrs: {
            height: "24",
            viewBox: "0 0 24 24",
            width: "24",
            xmlns: "http://www.w3.org/2000/svg"
          }
        },
        [
          _c("path", {
            attrs: {
              d: "M0 0h24v24H0zm0 0h24v24H0zm0 0h24v24H0zm0 0h24v24H0z",
              fill: "none"
            }
          }),
          _vm._v(" "),
          _c("path", {
            attrs: {
              d:
                "M12 7c2.76 0 5 2.24 5 5 0 .65-.13 1.26-.36 1.83l2.92 2.92c1.51-1.26 2.7-2.89 3.43-
              4.75-1.73-4.39-6-7.5-11-7.5-1.4 0-2.74.25-3.98.7l2.16 2.16C10.74 7.13 11.35 7 12 7zM2
              4.27l2.28 2.28.46.46C3.08 8.3 1.78 10.02 1 12c1.73 4.39 6 7.5 11 7.5 1.55 0 3.03-.3
              4.38-.84l.42.42L19.73 22 21 20.73 3.27 3 2 4.27zM7.53 9.8l1.55
              1.55c-.05.21-.08.43-.08.65 0 1.66 1.34 3 3 3 .22 0 .44-.03.65-.08l1.55 1.55c-.67.33-
              1.41.53-2.2.53-2.76 0-5-2.24-5-5 0-.79.2-1.53.53-2.2zm4.31-.78l3.15 3.15.02-.16c0-1.66-
              1.34-3-3-3l-.17.01z"
            }
          })
        ]
```

```
      )
    ])
  }
];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var icons_MdPasswordOffIcon = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdPasswordOffIcon_default.a,
  icons_MdPasswordOffIcon,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/core/icons/MdPasswordOffIcon.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var core_icons_MdPasswordOffIcon =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 155 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
```

```
var _MdIcon = __webpack_require__(5);

var _MdIcon2 = _interopRequireDefault(_MdIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdPasswordOffIcon',
  components: {
    MdIcon: _MdIcon2.default
  }
}; //
//
//
//
//
//
//
//
//

/***/ }),
/* 156 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/core/icons/MdPasswordOnIc
        on.vue
var MdPasswordOnIcon = __webpack_require__(157);
var MdPasswordOnIcon_default =
        /*#__PURE__*/__webpack_require__.n(MdPasswordOnIcon);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        71ec8df4","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/core/icons/MdPasswordO
        nIcon.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm._m(0)
};
var staticRenderFns = [
  function() {
```

```
    var _vm = this;
    var _h = _vm.$createElement;
    var _c = _vm._self._c || _h;
    return _c("md-icon", { staticClass: "md-icon-image" }, [
      _c(
        "svg",
        {
          attrs: {
            height: "24",
            viewBox: "0 0 24 24",
            width: "24",
            xmlns: "http://www.w3.org/2000/svg"
          }
        },
        [
          _c("path", { attrs: { d: "M0 0h24v24H0z", fill: "none" } }),
          _vm._v(" "),
          _c("path", {
            attrs: {
              d:
                "M12 4.5C7 4.5 2.73 7.61 1 12c1.73 4.39 6 7.5 11 7.5s9.27-3.11 11-7.5c-1.73-4.39-6-
            7.5-11-7.5zM12 17c-2.76 0-5-2.24-5-5s2.24-5 5-5 5 2.24 5 5-2.24 5-5 5zm0-8c-1.66 0-3
            1.34-3 3s1.34 3 3 3 3-1.34 3-3-1.34-3-3-3z"
            }
          })
        ]
      )
    ])
  }
];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var icons_MdPasswordOnIcon = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
```

```
var Component = normalizeComponent(
  MdPasswordOnIcon_default.a,
  icons_MdPasswordOnIcon,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/core/icons/MdPasswordOnIcon.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var core_icons_MdPasswordOnIcon =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 157 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdIcon = __webpack_require__(5);

var _MdIcon2 = _interopRequireDefault(_MdIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdPasswordOnIcon',
  components: {
    MdIcon: _MdIcon2.default
  }
}; //
//
//
//
//
//
//
//
//
```

```
/***/ }),
/* 158 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
          { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
          source[key]; } } } return target; }; //
//
//
//
//
//
//
//
//
//

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdUuid = __webpack_require__(6);

var _MdUuid2 = _interopRequireDefault(_MdUuid);

var _MdFieldMixin = __webpack_require__(15);

var _MdFieldMixin2 = _interopRequireDefault(_MdFieldMixin);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdInput',
  mixins: [_MdFieldMixin2.default],
  inject: ['MdField'],
  props: {
    id: {
      type: String,
```

```
    default: function _default() {
      return 'md-input-' + (0, _MdUuid2.default)();
    }
  },
  type: {
    type: String,
    default: 'text'
  }
},
computed: {
  toggleType: function toggleType() {
    return this.MdField.togglePassword;
  },
  isPassword: function isPassword() {
    return this.type === 'password';
  },
  listeners: function listeners() {
    var _this = this;

    return _extends({}, this.$listeners, {
      input: function input(event) {
        return _this.$emit('input', event.target.value);
      }
    });
  }
},
watch: {
  type: function type(_type) {
    this.setPassword(this.isPassword);
  },
  toggleType: function toggleType(toggle) {
    if (toggle) {
      this.setTypeText();
    } else {
      this.setTypePassword();
    }
  }
},
methods: {
  setPassword: function setPassword(state) {
    this.MdField.password = state;
    this.MdField.togglePassword = false;
  },
  setTypePassword: function setTypePassword() {
    this.$el.type = 'password';
  },
```

```
    setTypeText: function setTypeText() {
      this.$el.type = 'text';
    }
  },
  created: function created() {
    this.setPassword(this.isPassword);
  },
  beforeDestroy: function beforeDestroy() {
    this.setPassword(false);
  }
});

/***/ }),
/* 159 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdChips/MdC
        hip.vue
var MdChip = __webpack_require__(161);
var MdChip_default = /*#__PURE__*/__webpack_require__.n(MdChip);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        84ba771c","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdChips/M
        dChip.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c("transition", { attrs: { name: "md-chip", appear: "" } }, [
    _c(
      "div",
      _vm._g(
        {
          staticClass: "md-chip",
          class: [_vm.$mdActiveTheme, _vm.chipClasses],
          attrs: { tabindex: "0" }
        },
        _vm.$listeners
      ),
      [
        _vm.mdClickable || !_vm.mdRipple
          ? _c(
```

```
            "md-ripple",
            { attrs: { "md-disabled": _vm.mdDisabled } },
            [_vm._t("default")],
            2
          )
        : _vm._t("default"),
      _vm._v(" "),
      _c(
        "transition",
        { attrs: { name: "md-input-action", appear: "" } },
        [
          _vm.mdDeletable
            ? _c(
                "md-button",
                {
                  staticClass:
                    "md-icon-button md-dense md-input-action md-clear",
                  attrs: { tabindex: "-1" },
                  on: {
                    click: function($event) {
                      _vm.$emit("md-delete", $event);
                    }
                  }
                },
                [_c("md-clear-icon")],
                1
              )
            : _vm._e()
        ],
        1
      )
    ],
    2
  )
])
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdChips_MdChip = (esExports);
// CONCATENATED MODULE: ./src/components/MdChips/MdChip.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(160);
}
```

```
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdChip_default.a,
  MdChips_MdChip,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdChips/MdChip.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdChips_MdChip =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 160 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 161 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);
```

```
var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdFocused = __webpack_require__(32);

var _MdFocused2 = _interopRequireDefault(_MdFocused);

var _MdRipple = __webpack_require__(19);

var _MdRipple2 = _interopRequireDefault(_MdRipple);

var _MdClearIcon = __webpack_require__(34);

var _MdClearIcon2 = _interopRequireDefault(_MdClearIcon);

var _MdButton = __webpack_require__(13);

var _MdButton2 = _interopRequireDefault(_MdButton);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdChip',
  components: {
    MdButton: _MdButton2.default,
    MdClearIcon: _MdClearIcon2.default
  },
  mixins: [_MdFocused2.default, _MdRipple2.default],
  props: {
    mdDisabled: Boolean,
    mdDeletable: Boolean,
    mdClickable: Boolean
  },
  computed: {
    chipClasses: function chipClasses() {
      return {
        'md-disabled': this.mdDisabled,
        'md-deletable': this.mdDeletable,
        'md-clickable': this.mdClickable,
        'md-focused': this.mdHasFocus
      };
    }
  }
}); //
//
//
```

```
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//

/***/ }),
/* 162 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdContent = __webpack_require__(35);

var _MdContent2 = _interopRequireDefault(_MdContent);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdContent2.default.name, _MdContent2.default);
};

/***/ }),
/* 163 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
```

```
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdContent',
  props: {
    mdTag: {
      type: String,
      default: 'div'
    }
  },
  render: function render(createElement) {
    return createElement(this.mdTag, {
      staticClass: 'md-content',
      class: [this.$mdActiveTheme],
      attrs: this.$attrs,
      on: this.$listeners
    }, this.$slots.default);
  }
});

/***/ }),
/* 164 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdDatepicker = __webpack_require__(165);

var _MdDatepicker2 = _interopRequireDefault(_MdDatepicker);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }
```

```
exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdDatepicker2.default.name, _MdDatepicker2.default);
};

/***/ }),
/* 165 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdDatepicker/
        MdDatepicker.vue
var MdDatepicker = __webpack_require__(167);
var MdDatepicker_default = /*#__PURE__*/__webpack_require__.n(MdDatepicker);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        37fe792f","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdDatepick
        er/MdDatepicker.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-field",
    { staticClass: "md-datepicker" },
    [
      _c("md-date-icon", {
        staticClass: "md-date-icon",
        nativeOn: {
          click: function($event) {
            _vm.toggleDialog($event);
          }
        }
      }),
      _vm._v(" "),
      _c("md-input", {
        ref: "input",
        attrs: { type: "date", pattern: "[0-9]{4}-[0-9]{2}-[0-9]{2}" },
        nativeOn: {
          focus: function($event) {
            _vm.onFocus($event);
          }
        },
```

```
        model: {
          value: _vm.modelDate,
          callback: function($$v) {
            _vm.modelDate = $$v;
          },
          expression: "modelDate"
        }
      }),
      _vm._v(" "),
      _vm._t("default"),
      _vm._v(" "),
      _c(
        "keep-alive",
        [
          _vm.showDialog
            ? _c("md-datepicker-dialog", {
                attrs: {
                  "md-date": _vm.selectedDate,
                  "md-disabled-dates": _vm.mdDisabledDates
                },
                on: {
                  "update:mdDate": function($event) {
                    _vm.selectedDate = $event;
                  },
                  "md-closed": _vm.toggleDialog
                }
              })
            : _vm._e()
        ],
        1
      ),
      _vm._v(" "),
      _c("md-overlay", {
        staticClass: "md-datepicker-overlay",
        attrs: { "md-fixed": "", "md-active": _vm.showDialog },
        on: { click: _vm.toggleDialog }
      })
    ],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdDatepicker_MdDatepicker = (esExports);
// CONCATENATED MODULE: ./src/components/MdDatepicker/MdDatepicker.vue
```

```
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(166);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdDatepicker_default.a,
  MdDatepicker_MdDatepicker,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdDatepicker/MdDatepicker.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdDatepicker_MdDatepicker =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 166 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 167 */
/***/ (function(module, exports, __webpack_require__) {
```

```
Object.defineProperty(exports, "__esModule", {
  value: true
});

var _vue = __webpack_require__(7);

var _vue2 = _interopRequireDefault(_vue);

var _isFirefox = __webpack_require__(168);

var _isFirefox2 = _interopRequireDefault(_isFirefox);

var _format = __webpack_require__(169);

var _format2 = _interopRequireDefault(_format);

var _parse = __webpack_require__(3);

var _parse2 = _interopRequireDefault(_parse);

var _is_valid = __webpack_require__(38);

var _is_valid2 = _interopRequireDefault(_is_valid);

var _MdOverlay = __webpack_require__(23);

var _MdOverlay2 = _interopRequireDefault(_MdOverlay);

var _MdDatepickerDialog = __webpack_require__(182);

var _MdDatepickerDialog2 = _interopRequireDefault(_MdDatepickerDialog);

var _MdDateIcon = __webpack_require__(206);

var _MdDateIcon2 = _interopRequireDefault(_MdDateIcon);

var _MdField = __webpack_require__(20);

var _MdField2 = _interopRequireDefault(_MdField);

var _MdInput = __webpack_require__(14);

var _MdInput2 = _interopRequireDefault(_MdInput);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }
```

```
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//

exports.default = {
  name: 'MdDatepicker',
  components: {
    MdOverlay: _MdOverlay2.default,
    MdDateIcon: _MdDateIcon2.default,
    MdField: _MdField2.default,
    MdInput: _MdInput2.default,
    MdDatepickerDialog: _MdDatepickerDialog2.default
  },
  props: {
    value: [String, Date],
    mdDisabledDates: [Array, Function],
    mdOpenOnFocus: {
      type: Boolean,
      default: true
    }
  },
  data: function data() {
    return {
      showDialog: false,
      modelDate: null,
      selectedDate: null
    };
  },
  watch: {
    selectedDate: function selectedDate(_selectedDate) {
      if (_selectedDate) {
        this.modelDate = this.dateToHTMLString(_selectedDate);
        this.$emit('input', _selectedDate);
      }
```

```
  },
  value: function value() {
    if (this.value) {
      this.modelDate = this.dateToHTMLString(this.value);
    }
  },
  modelDate: function modelDate(value) {
    if (value) {
      var parsedDate = (0, _parse2.default)(value);

      if ((0, _is_valid2.default)(parsedDate)) {
        this.selectedDate = parsedDate;
      }
    }
  }
},
methods: {
  toggleDialog: function toggleDialog() {
    if (!_isFirefox2.default) {
      this.showDialog = !this.showDialog;
    } else {
      this.$refs.input.$el.click();
    }
  },
  onFocus: function onFocus() {
    if (this.mdOpenOnFocus) {
      this.toggleDialog();
    }
  },
  dateToHTMLString: function dateToHTMLString(date) {
    if (date) {
      var formattedDate = null;

      try {
        formattedDate = (0, _format2.default)(date, 'YYYY-MM-DD');
      } catch (error) {
        _vue2.default.util.warn('The datepicker value is not a valid date. Given value: ' + date + '.',
          this);
      }

      return formattedDate;
    }
  }
},
created: function created() {
  this.modelDate = this.dateToHTMLString(this.value);
```

```
   this.selectedDate = this.value;
  }
};

/***/ }),
/* 168 */
/***/ (function(module, exports, __webpack_require__) {

module.exports = typeof navigator !== 'undefined' &&
         /^(?!.*Seamonkey)(?=.*Firefox).*/i.test(navigator.userAgent);


/***/ }),
/* 169 */
/***/ (function(module, exports, __webpack_require__) {

var getDayOfYear = __webpack_require__(170);
var getISOWeek = __webpack_require__(173);
var getISOYear = __webpack_require__(37);
var parse = __webpack_require__(3);
var isValid = __webpack_require__(38);
var enLocale = __webpack_require__(176);

/**
 * @category Common Helpers
 * @summary Format the date.
 *
 * @description
 * Return the formatted date string in the given format.
 *
 * Accepted tokens:
 * | Unit                    | Token | Result examples                  |
 * |-------------------------|-------|----------------------------------|
 * | Month                   | M     | 1, 2, ..., 12                    |
 * |                         | Mo    | 1st, 2nd, ..., 12th              |
 * |                         | MM    | 01, 02, ..., 12                  |
 * |                         | MMM   | Jan, Feb, ..., Dec               |
 * |                         | MMMM  | January, February, ..., December |
 * | Quarter                 | Q     | 1, 2, 3, 4                       |
 * |                         | Qo    | 1st, 2nd, 3rd, 4th               |
 * | Day of month            | D     | 1, 2, ..., 31                    |
 * |                         | Do    | 1st, 2nd, ..., 31st              |
 * |                         | DD    | 01, 02, ..., 31                  |
 * | Day of year             | DDD   | 1, 2, ..., 366                   |
 * |                         | DDDo  | 1st, 2nd, ..., 366th             |
 * |                         | DDDD  | 001, 002, ..., 366               |
```

```
* | Day of week             | d    | 0, 1, ..., 6                   |
* |                         | do   | 0th, 1st, ..., 6th             |
* |                         | dd   | Su, Mo, ..., Sa                |
* |                         | ddd  | Sun, Mon, ..., Sat             |
* |                         | dddd | Sunday, Monday, ..., Saturday  |
* | Day of ISO week         | E    | 1, 2, ..., 7                   |
* | ISO week                | W    | 1, 2, ..., 53                  |
* |                         | Wo   | 1st, 2nd, ..., 53rd            |
* |                         | WW   | 01, 02, ..., 53                |
* | Year                    | YY   | 00, 01, ..., 99                |
* |                         | YYYY | 1900, 1901, ..., 2099          |
* | ISO week-numbering year | GG   | 00, 01, ..., 99                |
* |                         | GGGG | 1900, 1901, ..., 2099          |
* | AM/PM                   | A    | AM, PM                         |
* |                         | a    | am, pm                         |
* |                         | aa   | a.m., p.m.                     |
* | Hour                    | H    | 0, 1, ... 23                   |
* |                         | HH   | 00, 01, ... 23                 |
* |                         | h    | 1, 2, ..., 12                  |
* |                         | hh   | 01, 02, ..., 12                |
* | Minute                  | m    | 0, 1, ..., 59                  |
* |                         | mm   | 00, 01, ..., 59                |
* | Second                  | s    | 0, 1, ..., 59                  |
* |                         | ss   | 00, 01, ..., 59                |
* | 1/10 of second          | S    | 0, 1, ..., 9                   |
* | 1/100 of second         | SS   | 00, 01, ..., 99                |
* | Millisecond             | SSS  | 000, 001, ..., 999             |
* | Timezone                | Z    | -01:00, +00:00, ... +12:00     |
* |                         | ZZ   | -0100, +0000, ..., +1200       |
* | Seconds timestamp       | X    | 512969520                      |
* | Milliseconds timestamp  | x    | 512969520900                   |
*
* The characters wrapped in square brackets are escaped.
*
* The result may vary by locale.
*
* @param {Date|String|Number} date - the original date
* @param {String} [format='YYYY-MM-DDTHH:mm:ss.SSSZ'] - the string of tokens
* @param {Object} [options] - the object with options
* @param {Object} [options.locale=enLocale] - the locale object
* @returns {String} the formatted date string
*
* @example
* // Represent 11 February 2014 in middle-endian format:
* var result = format(
*   new Date(2014, 1, 11),
```

```
 *   'MM/DD/YYYY'
 * )
 * //=> '02/11/2014'
 *
 * @example
 * // Represent 2 July 2014 in Esperanto:
 * var eoLocale = require('date-fns/locale/eo')
 * var result = format(
 *   new Date(2014, 6, 2),
 *   'Do [de] MMMM YYYY',
 *   {locale: eoLocale}
 * )
 * //=> '2-a de julio 2014'
 */
function format (dirtyDate, dirtyFormatStr, dirtyOptions) {
  var formatStr = dirtyFormatStr ? String(dirtyFormatStr) : 'YYYY-MM-DDTHH:mm:ss.SSSZ';
  var options = dirtyOptions || {};

  var locale = options.locale;
  var localeFormatters = enLocale.format.formatters;
  var formattingTokensRegExp = enLocale.format.formattingTokensRegExp;
  if (locale && locale.format && locale.format.formatters) {
    localeFormatters = locale.format.formatters;

    if (locale.format.formattingTokensRegExp) {
      formattingTokensRegExp = locale.format.formattingTokensRegExp;
    }
  }

  var date = parse(dirtyDate);

  if (!isValid(date)) {
    return 'Invalid Date'
  }

  var formatFn = buildFormatFn(formatStr, localeFormatters, formattingTokensRegExp);

  return formatFn(date)
}

var formatters = {
  // Month: 1, 2, ..., 12
  'M': function (date) {
    return date.getMonth() + 1
  },
```

```
// Month: 01, 02, ..., 12
'MM': function (date) {
  return addLeadingZeros(date.getMonth() + 1, 2)
},

// Quarter: 1, 2, 3, 4
'Q': function (date) {
  return Math.ceil((date.getMonth() + 1) / 3)
},

// Day of month: 1, 2, ..., 31
'D': function (date) {
  return date.getDate()
},

// Day of month: 01, 02, ..., 31
'DD': function (date) {
  return addLeadingZeros(date.getDate(), 2)
},

// Day of year: 1, 2, ..., 366
'DDD': function (date) {
  return getDayOfYear(date)
},

// Day of year: 001, 002, ..., 366
'DDDD': function (date) {
  return addLeadingZeros(getDayOfYear(date), 3)
},

// Day of week: 0, 1, ..., 6
'd': function (date) {
  return date.getDay()
},

// Day of ISO week: 1, 2, ..., 7
'E': function (date) {
  return date.getDay() || 7
},

// ISO week: 1, 2, ..., 53
'W': function (date) {
  return getISOWeek(date)
},

// ISO week: 01, 02, ..., 53
```

```
'WW': function (date) {
  return addLeadingZeros(getISOWeek(date), 2)
},

// Year: 00, 01, ..., 99
'YY': function (date) {
  return addLeadingZeros(date.getFullYear(), 4).substr(2)
},

// Year: 1900, 1901, ..., 2099
'YYYY': function (date) {
  return addLeadingZeros(date.getFullYear(), 4)
},

// ISO week-numbering year: 00, 01, ..., 99
'GG': function (date) {
  return String(getISOYear(date)).substr(2)
},

// ISO week-numbering year: 1900, 1901, ..., 2099
'GGGG': function (date) {
  return getISOYear(date)
},

// Hour: 0, 1, ... 23
'H': function (date) {
  return date.getHours()
},

// Hour: 00, 01, ..., 23
'HH': function (date) {
  return addLeadingZeros(date.getHours(), 2)
},

// Hour: 1, 2, ..., 12
'h': function (date) {
  var hours = date.getHours();
  if (hours === 0) {
    return 12
  } else if (hours > 12) {
    return hours % 12
  } else {
    return hours
  }
},
```

```
// Hour: 01, 02, ..., 12
'hh': function (date) {
  return addLeadingZeros(formatters['h'](date), 2)
},

// Minute: 0, 1, ..., 59
'm': function (date) {
  return date.getMinutes()
},

// Minute: 00, 01, ..., 59
'mm': function (date) {
  return addLeadingZeros(date.getMinutes(), 2)
},

// Second: 0, 1, ..., 59
's': function (date) {
  return date.getSeconds()
},

// Second: 00, 01, ..., 59
'ss': function (date) {
  return addLeadingZeros(date.getSeconds(), 2)
},

// 1/10 of second: 0, 1, ..., 9
'S': function (date) {
  return Math.floor(date.getMilliseconds() / 100)
},

// 1/100 of second: 00, 01, ..., 99
'SS': function (date) {
  return addLeadingZeros(Math.floor(date.getMilliseconds() / 10), 2)
},

// Millisecond: 000, 001, ..., 999
'SSS': function (date) {
  return addLeadingZeros(date.getMilliseconds(), 3)
},

// Timezone: -01:00, +00:00, ... +12:00
'Z': function (date) {
  return formatTimezone(date.getTimezoneOffset(), ':')
},

// Timezone: -0100, +0000, ... +1200
```

```
  'ZZ': function (date) {
    return formatTimezone(date.getTimezoneOffset())
  },

  // Seconds timestamp: 512969520
  'X': function (date) {
    return Math.floor(date.getTime() / 1000)
  },

  // Milliseconds timestamp: 512969520900
  'x': function (date) {
    return date.getTime()
  }
};

function buildFormatFn (formatStr, localeFormatters, formattingTokensRegExp) {
  var array = formatStr.match(formattingTokensRegExp);
  var length = array.length;

  var i;
  var formatter;
  for (i = 0; i < length; i++) {
    formatter = localeFormatters[array[i]] || formatters[array[i]];
    if (formatter) {
      array[i] = formatter;
    } else {
      array[i] = removeFormattingTokens(array[i]);
    }
  }

  return function (date) {
    var output = '';
    for (var i = 0; i < length; i++) {
      if (array[i] instanceof Function) {
        output += array[i](date, formatters);
      } else {
        output += array[i];
      }
    }
    return output
  }
}

function removeFormattingTokens (input) {
  if (input.match(/\[[\s\S]/)) {
    return input.replace(/^\[|]$/g, '')
```

```
  }
  return input.replace(/\\/g, '')
}

function formatTimezone (offset, delimeter) {
  delimeter = delimeter || '';
  var sign = offset > 0 ? '-' : '+';
  var absOffset = Math.abs(offset);
  var hours = Math.floor(absOffset / 60);
  var minutes = absOffset % 60;
  return sign + addLeadingZeros(hours, 2) + delimeter + addLeadingZeros(minutes, 2)
}

function addLeadingZeros (number, targetLength) {
  var output = Math.abs(number).toString();
  while (output.length < targetLength) {
    output = '0' + output;
  }
  return output
}

module.exports = format;


/***/ }),
/* 170 */
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);
var startOfYear = __webpack_require__(171);
var differenceInCalendarDays = __webpack_require__(172);

/**
 * @category Day Helpers
 * @summary Get the day of the year of the given date.
 *
 * @description
 * Get the day of the year of the given date.
 *
 * @param {Date|String|Number} date - the given date
 * @returns {Number} the day of year
 *
 * @example
 * // Which day of the year is 2 July 2014?
 * var result = getDayOfYear(new Date(2014, 6, 2))
 * //=> 183
```

```
 */
function getDayOfYear (dirtyDate) {
  var date = parse(dirtyDate);
  var diff = differenceInCalendarDays(date, startOfYear(date));
  var dayOfYear = diff + 1;
  return dayOfYear
}

module.exports = getDayOfYear;


/***/ }),
/* 171 */
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);

/**
 * @category Year Helpers
 * @summary Return the start of a year for the given date.
 *
 * @description
 * Return the start of a year for the given date.
 * The result will be in the local timezone.
 *
 * @param {Date|String|Number} date - the original date
 * @returns {Date} the start of a year
 *
 * @example
 * // The start of a year for 2 September 2014 11:55:00:
 * var result = startOfYear(new Date(2014, 8, 2, 11, 55, 00))
 * //=> Wed Jan 01 2014 00:00:00
 */
function startOfYear (dirtyDate) {
  var cleanDate = parse(dirtyDate);
  var date = new Date(0);
  date.setFullYear(cleanDate.getFullYear(), 0, 1);
  date.setHours(0, 0, 0, 0);
  return date
}

module.exports = startOfYear;


/***/ }),
/* 172 */
```

```
/***/ (function(module, exports, __webpack_require__) {

var startOfDay = __webpack_require__(21);

var MILLISECONDS_IN_MINUTE = 60000;
var MILLISECONDS_IN_DAY = 86400000;

/**
 * @category Day Helpers
 * @summary Get the number of calendar days between the given dates.
 *
 * @description
 * Get the number of calendar days between the given dates.
 *
 * @param {Date|String|Number} dateLeft - the later date
 * @param {Date|String|Number} dateRight - the earlier date
 * @returns {Number} the number of calendar days
 *
 * @example
 * // How many calendar days are between
 * // 2 July 2011 23:00:00 and 2 July 2012 00:00:00?
 * var result = differenceInCalendarDays(
 *   new Date(2012, 6, 2, 0, 0),
 *   new Date(2011, 6, 2, 23, 0)
 * )
 * //=> 366
 */
function differenceInCalendarDays (dirtyDateLeft, dirtyDateRight) {
  var startOfDayLeft = startOfDay(dirtyDateLeft);
  var startOfDayRight = startOfDay(dirtyDateRight);

  var timestampLeft = startOfDayLeft.getTime() -
    startOfDayLeft.getTimezoneOffset() * MILLISECONDS_IN_MINUTE;
  var timestampRight = startOfDayRight.getTime() -
    startOfDayRight.getTimezoneOffset() * MILLISECONDS_IN_MINUTE;

  // Round the number of days to the nearest integer
  // because the number of milliseconds in a day is not constant
  // (e.g. it's different in the day of the daylight saving time clock shift)
  return Math.round((timestampLeft - timestampRight) / MILLISECONDS_IN_DAY)
}

module.exports = differenceInCalendarDays;


/***/ }),
```

```
/* 173 */
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);
var startOfISOWeek = __webpack_require__(22);
var startOfISOYear = __webpack_require__(175);

var MILLISECONDS_IN_WEEK = 604800000;

/**
 * @category ISO Week Helpers
 * @summary Get the ISO week of the given date.
 *
 * @description
 * Get the ISO week of the given date.
 *
 * ISO week-numbering year: http://en.wikipedia.org/wiki/ISO_week_date
 *
 * @param {Date|String|Number} date - the given date
 * @returns {Number} the ISO week
 *
 * @example
 * // Which week of the ISO-week numbering year is 2 January 2005?
 * var result = getISOWeek(new Date(2005, 0, 2))
 * //=> 53
 */
function getISOWeek (dirtyDate) {
  var date = parse(dirtyDate);
  var diff = startOfISOWeek(date).getTime() - startOfISOYear(date).getTime();

  // Round the number of days to the nearest integer
  // because the number of milliseconds in a week is not constant
  // (e.g. it's different in the week of the daylight saving time clock shift)
  return Math.round(diff / MILLISECONDS_IN_WEEK) + 1
}

module.exports = getISOWeek;


/***/ }),
/* 174 */
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);

/**
```

```
 * @category Week Helpers
 * @summary Return the start of a week for the given date.
 *
 * @description
 * Return the start of a week for the given date.
 * The result will be in the local timezone.
 *
 * @param {Date|String|Number} date - the original date
 * @param {Object} [options] - the object with options
 * @param {Number} [options.weekStartsOn=0] - the index of the first day of the week (0 -
        Sunday)
 * @returns {Date} the start of a week
 *
 * @example
 * // The start of a week for 2 September 2014 11:55:00:
 * var result = startOfWeek(new Date(2014, 8, 2, 11, 55, 0))
 * //=> Sun Aug 31 2014 00:00:00
 *
 * @example
 * // If the week starts on Monday, the start of the week for 2 September 2014 11:55:00:
 * var result = startOfWeek(new Date(2014, 8, 2, 11, 55, 0), {weekStartsOn: 1})
 * //=> Mon Sep 01 2014 00:00:00
 */
function startOfWeek (dirtyDate, dirtyOptions) {
  var weekStartsOn = dirtyOptions ? (Number(dirtyOptions.weekStartsOn) || 0) : 0;

  var date = parse(dirtyDate);
  var day = date.getDay();
  var diff = (day < weekStartsOn ? 7 : 0) + day - weekStartsOn;

  date.setDate(date.getDate() - diff);
  date.setHours(0, 0, 0, 0);
  return date
}

module.exports = startOfWeek;


/***/ }),
/* 175 */
/***/ (function(module, exports, __webpack_require__) {

var getISOYear = __webpack_require__(37);
var startOfISOWeek = __webpack_require__(22);

/**
```

```
 * @category ISO Week-Numbering Year Helpers
 * @summary Return the start of an ISO week-numbering year for the given date.
 *
 * @description
 * Return the start of an ISO week-numbering year,
 * which always starts 3 days before the year's first Thursday.
 * The result will be in the local timezone.
 *
 * ISO week-numbering year: http://en.wikipedia.org/wiki/ISO_week_date
 *
 * @param {Date|String|Number} date - the original date
 * @returns {Date} the start of an ISO year
 *
 * @example
 * // The start of an ISO week-numbering year for 2 July 2005:
 * var result = startOfISOYear(new Date(2005, 6, 2))
 * //=> Mon Jan 03 2005 00:00:00
 */
function startOfISOYear (dirtyDate) {
  var year = getISOYear(dirtyDate);
  var fourthOfJanuary = new Date(0);
  fourthOfJanuary.setFullYear(year, 0, 4);
  fourthOfJanuary.setHours(0, 0, 0, 0);
  var date = startOfISOWeek(fourthOfJanuary);
  return date
}

module.exports = startOfISOYear;


/***/ }),
/* 176 */
/***/ (function(module, exports, __webpack_require__) {

var buildDistanceInWordsLocale = __webpack_require__(177);
var buildFormatLocale = __webpack_require__(178);

/**
 * @category Locales
 * @summary English locale.
 */
module.exports = {
  distanceInWords: buildDistanceInWordsLocale(),
  format: buildFormatLocale()
};
```

```
/***/ }),
/* 177 */
/***/ (function(module, exports) {

function buildDistanceInWordsLocale () {
  var distanceInWordsLocale = {
    lessThanXSeconds: {
      one: 'less than a second',
      other: 'less than {{count}} seconds'
    },

    xSeconds: {
      one: '1 second',
      other: '{{count}} seconds'
    },

    halfAMinute: 'half a minute',

    lessThanXMinutes: {
      one: 'less than a minute',
      other: 'less than {{count}} minutes'
    },

    xMinutes: {
      one: '1 minute',
      other: '{{count}} minutes'
    },

    aboutXHours: {
      one: 'about 1 hour',
      other: 'about {{count}} hours'
    },

    xHours: {
      one: '1 hour',
      other: '{{count}} hours'
    },

    xDays: {
      one: '1 day',
      other: '{{count}} days'
    },

    aboutXMonths: {
      one: 'about 1 month',
```

```
    other: 'about {{count}} months'
  },

  xMonths: {
    one: '1 month',
    other: '{{count}} months'
  },

  aboutXYears: {
    one: 'about 1 year',
    other: 'about {{count}} years'
  },

  xYears: {
    one: '1 year',
    other: '{{count}} years'
  },

  overXYears: {
    one: 'over 1 year',
    other: 'over {{count}} years'
  },

  almostXYears: {
    one: 'almost 1 year',
    other: 'almost {{count}} years'
  }
};

function localize (token, count, options) {
  options = options || {};

  var result;
  if (typeof distanceInWordsLocale[token] === 'string') {
    result = distanceInWordsLocale[token];
  } else if (count === 1) {
    result = distanceInWordsLocale[token].one;
  } else {
    result = distanceInWordsLocale[token].other.replace('{{count}}', count);
  }

  if (options.addSuffix) {
    if (options.comparison > 0) {
      return 'in ' + result
    } else {
      return result + ' ago'
```

```
    }
   }

   return result
  }

  return {
   localize: localize
  }
}

module.exports = buildDistanceInWordsLocale;


/***/ }),
/* 178 */
/***/ (function(module, exports, __webpack_require__) {

var buildFormattingTokensRegExp = __webpack_require__(179);

function buildFormatLocale () {
  // Note: in English, the names of days of the week and months are capitalized.
  // If you are making a new locale based on this one, check if the same is true for the language
        you're working on.
  // Generally, formatted dates should look like they are in the middle of a sentence,
  // e.g. in Spanish language the weekdays and months should be in the lowercase.
  var months3char = ['Jan', 'Feb', 'Mar', 'Apr', 'May', 'Jun', 'Jul', 'Aug', 'Sep', 'Oct', 'Nov', 'Dec'];
  var monthsFull = ['January', 'February', 'March', 'April', 'May', 'June', 'July', 'August',
        'September', 'October', 'November', 'December'];
  var weekdays2char = ['Su', 'Mo', 'Tu', 'We', 'Th', 'Fr', 'Sa'];
  var weekdays3char = ['Sun', 'Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat'];
  var weekdaysFull = ['Sunday', 'Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday',
        'Saturday'];
  var meridiemUppercase = ['AM', 'PM'];
  var meridiemLowercase = ['am', 'pm'];
  var meridiemFull = ['a.m.', 'p.m.'];

  var formatters = {
   // Month: Jan, Feb, ..., Dec
   'MMM': function (date) {
    return months3char[date.getMonth()]
   },

   // Month: January, February, ..., December
   'MMMM': function (date) {
    return monthsFull[date.getMonth()]
```

```
    },

    // Day of week: Su, Mo, ..., Sa
    'dd': function (date) {
      return weekdays2char[date.getDay()]
    },

    // Day of week: Sun, Mon, ..., Sat
    'ddd': function (date) {
      return weekdays3char[date.getDay()]
    },

    // Day of week: Sunday, Monday, ..., Saturday
    'dddd': function (date) {
      return weekdaysFull[date.getDay()]
    },

    // AM, PM
    'A': function (date) {
      return (date.getHours() / 12) >= 1 ? meridiemUppercase[1] : meridiemUppercase[0]
    },

    // am, pm
    'a': function (date) {
      return (date.getHours() / 12) >= 1 ? meridiemLowercase[1] : meridiemLowercase[0]
    },

    // a.m., p.m.
    'aa': function (date) {
      return (date.getHours() / 12) >= 1 ? meridiemFull[1] : meridiemFull[0]
    }
  };

  // Generate ordinal version of formatters: M -> Mo, D -> Do, etc.
  var ordinalFormatters = ['M', 'D', 'DDD', 'd', 'Q', 'W'];
  ordinalFormatters.forEach(function (formatterToken) {
    formatters[formatterToken + 'o'] = function (date, formatters) {
      return ordinal(formatters[formatterToken](date))
    };
  });

  return {
    formatters: formatters,
    formattingTokensRegExp: buildFormattingTokensRegExp(formatters)
  }
}
```

```
function ordinal (number) {
  var rem100 = number % 100;
  if (rem100 > 20 || rem100 < 10) {
    switch (rem100 % 10) {
      case 1:
        return number + 'st'
      case 2:
        return number + 'nd'
      case 3:
        return number + 'rd'
    }
  }
  return number + 'th'
}

module.exports = buildFormatLocale;


/***/ }),
/* 179 */
/***/ (function(module, exports) {

var commonFormatterKeys = [
  'M', 'MM', 'Q', 'D', 'DD', 'DDD', 'DDDD', 'd',
  'E', 'W', 'WW', 'YY', 'YYYY', 'GG', 'GGGG',
  'H', 'HH', 'h', 'hh', 'm', 'mm',
  's', 'ss', 'S', 'SS', 'SSS',
  'Z', 'ZZ', 'X', 'x'
];

function buildFormattingTokensRegExp (formatters) {
  var formatterKeys = [];
  for (var key in formatters) {
    if (formatters.hasOwnProperty(key)) {
      formatterKeys.push(key);
    }
  }

  var formattingTokens = commonFormatterKeys
    .concat(formatterKeys)
    .sort()
    .reverse();
  var formattingTokensRegExp = new RegExp(
    '(\\[[^\\[]*\\])|(\\\\)?' + '(' + formattingTokens.join('|') + '|.)', 'g'
  );
```

```
  return formattingTokensRegExp
}

module.exports = buildFormattingTokensRegExp;


/***/ }),
/* 180 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 181 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdPortal = __webpack_require__(16);

var _MdPortal2 = _interopRequireDefault(_MdPortal);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdOverlay',
  components: {
    MdPortal: _MdPortal2.default
  },
  props: {
    mdActive: Boolean,
    mdAttachToParent: Boolean,
    mdFixed: Boolean
  },
  computed: {
    overlayClasses: function overlayClasses() {
      return {
        'md-fixed': this.mdFixed
      };
    }
  }
}; //
```

```
//
//
//
//
//
//
//

/***/ }),
/* 182 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdDatepicker/
        MdDatepickerDialog.vue
var MdDatepickerDialog = __webpack_require__(184);
var MdDatepickerDialog_default =
        /*#__PURE__*/__webpack_require__.n(MdDatepickerDialog);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        4f0a3d52","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdDatepick
        er/MdDatepickerDialog.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-popover",
    { attrs: { "md-settings": _vm.popperSettings, "md-active": "" } },
    [
      _c(
        "transition",
        { attrs: { name: "md-datepicker-dialog", appear: "" } },
        [
          _c(
            "div",
            {
              staticClass: "md-datepicker-dialog",
              class: [_vm.$mdActiveTheme]
            },
            [
              _c("div", { staticClass: "md-datepicker-header" }, [
                _c(
```

```
    "span",
    {
     staticClass: "md-datepicker-year-select",
     class: { "md-selected": _vm.currentView === "year" },
     on: {
      click: function($event) {
       _vm.currentView = "year";
      }
     }
    },
    [_vm._v(_vm._s(_vm.selectedYear))]
   ),
   _vm._v(" "),
   _c(
    "div",
    {
     staticClass: "md-datepicker-date-select",
     class: { "md-selected": _vm.currentView !== "year" },
     on: {
      click: function($event) {
       _vm.currentView = "day";
      }
     }
    },
    [
     _c("strong", { staticClass: "md-datepicker-dayname" }, [
      _vm._v(_vm._s(_vm.shortDayName) + ", ")
     ]),
     _vm._v(" "),
     _c("strong", { staticClass: "md-datepicker-monthname" }, [
      _vm._v(_vm._s(_vm.shortMonthName))
     ]),
     _vm._v(" "),
     _c("strong", { staticClass: "md-datepicker-day" }, [
      _vm._v(_vm._s(_vm.currentDay))
     ])
    ]
   )
  ]),
  _vm._v(" "),
  _c(
   "div",
   { staticClass: "md-datepicker-body" },
   [
    _c(
     "transition",
```

```
  { attrs: { name: "md-datepicker-body-header" } },
  [
    _vm.currentView === "day"
      ? _c(
          "div",
          { staticClass: "md-datepicker-body-header" },
          [
            _c(
              "md-button",
              {
                staticClass: "md-dense md-icon-button",
                on: { click: _vm.previousMonth }
              },
              [_c("md-arrow-left-icon")],
              1
            ),
            _vm._v(" "),
            _c(
              "md-button",
              {
                staticClass: "md-dense md-icon-button",
                on: { click: _vm.nextMonth }
              },
              [_c("md-arrow-right-icon")],
              1
            )
          ],
          1
        )
      : _vm._e()
  ]
),
_vm._v(" "),
_c(
  "div",
  {
    staticClass: "md-datepicker-body-content",
    style: _vm.contentStyles
  },
  [
    _c(
      "transition",
      { attrs: { name: "md-datepicker-view" } },
      [
        _vm.currentView === "day"
          ? _c(
```

```
"transition-group",
{
 staticClass:
   "md-datepicker-panel md-datepicker-calendar",
 class: _vm.calendarClasses,
 attrs: {
  tag: "div",
  name: "md-datepicker-month"
 }
},
_vm._l([_vm.currentDate], function(
 month,
 index
) {
 return _c(
  "div",
  {
   key: month.getMonth(),
   staticClass:
    "md-datepicker-panel md-datepicker-month"
  },
  [
   _c(
    "md-button",
    {
     staticClass:
      "md-dense md-datepicker-month-trigger",
     on: {
      click: function($event) {
       _vm.currentView = "month";
      }
     }
    },
    [
     _vm._v(
      _vm._s(_vm.currentMonthName) +
       " " +
       _vm._s(_vm.currentYear)
     )
    ]
   ),
   _vm._v(" "),
   _c(
    "div",
    { staticClass: "md-datepicker-week" },
    _vm._l(_vm.locale.shorterDays, function(
```

```
    day,
    index
  ) {
    return _c("span", { key: index }, [
      _vm._v(_vm._s(day))
    ])
  })
),
_vm._v(" "),
_c(
  "div",
  { staticClass: "md-datepicker-days" },
  [
    _vm._l(_vm.firstDayOfMonth, function(
      day
    ) {
      return _c("span", {
        key: day,
        staticClass: "md-datepicker-empty"
      })
    }),
    _vm._v(" "),
    _vm._l(_vm.daysInMonth, function(
      day
    ) {
      return _c(
        "div",
        {
          key: day,
          staticClass: "md-datepicker-day"
        },
        [
          _c(
            "span",
            {
              staticClass:
                "md-datepicker-day-button",
              class: {
                "md-datepicker-selected": _vm.isSelectedDay(
                  day
                ),
                "md-datepicker-today": _vm.isToday(
                  day
                ),
                "md-datepicker-disabled": _vm.isDisabled(
                  day
```

```
                    )
                  },
                  on: {
                    click: function($event) {
                      _vm.selectDate(day);
                    }
                  }
                },
                [_vm._v(_vm._s(day))]
              )
            ]
          )
        })
      ],
      2
    )
  ],
  1
 )
})
)
: _vm.currentView === "month"
 ? _c(
    "div",
    {
     staticClass:
      "md-datepicker-panel md-datepicker-month-selector"
    },
    [
     _c(
      "md-button",
      {
       staticClass:
        "md-datepicker-year-trigger",
       on: {
        click: function($event) {
         _vm.currentView = "year";
        }
       }
      },
      [_vm._v(_vm._s(_vm.currentYear))]
     ),
     _vm._v(" "),
     _vm._l(_vm.locale.months, function(
      month,
      index
```

```
      ) {
        return _c(
          "span",
          {
            key: month,
            staticClass:
              "md-datepicker-month-button",
            class: {
              "md-datepicker-selected":
                _vm.currentMonthName === month
            },
            on: {
              click: function($event) {
                _vm.switchMonth(index);
              }
            }
          },
          [_vm._v(_vm._s(month))]
        )
      })
    ],
    2
  )
: _vm.currentView === "year"
  ? _c(
      "keep-alive",
      [
        _c(
          "md-content",
          {
            staticClass:
              "md-datepicker-panel md-datepicker-year-selector md-scrollbar"
          },
          _vm._l(_vm.availableYears, function(
            year
          ) {
            return _c(
              "span",
              {
                key: year,
                staticClass:
                  "md-datepicker-year-button",
                class: {
                  "md-datepicker-selected":
                    _vm.currentYear === year
                },
```

```
                        on: {
                          click: function($event) {
                            _vm.switchYear(year);
                          }
                        }
                      },
                      [_vm._v(_vm._s(year))]
                    )
                  })
                )
              ],
              1
            )
          : _vm._e()
      ],
      1
    )
  ],
  1
),
_vm._v(" "),
_c(
  "md-dialog-actions",
  { staticClass: "md-datepicker-body-footer" },
  [
    _c(
      "md-button",
      {
        staticClass: "md-primary",
        on: { click: _vm.onCancel }
      },
      [_vm._v("Cancel")]
    ),
    _vm._v(" "),
    _c(
      "md-button",
      {
        staticClass: "md-primary",
        on: { click: _vm.onConfirm }
      },
      [_vm._v("Ok")]
    )
  ],
  1
)
],
```

```
            1
          )
        ]
      )
    ]
  )
  ],
  1
 )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdDatepicker_MdDatepickerDialog = (esExports);
// CONCATENATED MODULE: ./src/components/MdDatepicker/MdDatepickerDialog.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(183);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdDatepickerDialog_default.a,
  MdDatepicker_MdDatepickerDialog,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdDatepicker/MdDatepickerDialog.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}
```

```
/* harmony default export */ var components_MdDatepicker_MdDatepickerDialog =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 183 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 184 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _add_months = __webpack_require__(39);

var _add_months2 = _interopRequireDefault(_add_months);

var _start_of_month = __webpack_require__(185);

var _start_of_month2 = _interopRequireDefault(_start_of_month);

var _sub_months = __webpack_require__(186);

var _sub_months2 = _interopRequireDefault(_sub_months);

var _get_date = __webpack_require__(187);

var _get_date2 = _interopRequireDefault(_get_date);

var _get_day = __webpack_require__(188);

var _get_day2 = _interopRequireDefault(_get_day);

var _get_days_in_month = __webpack_require__(24);

var _get_days_in_month2 = _interopRequireDefault(_get_days_in_month);

var _get_month = __webpack_require__(189);

var _get_month2 = _interopRequireDefault(_get_month);
```

```
var _get_year = __webpack_require__(190);

var _get_year2 = _interopRequireDefault(_get_year);

var _is_equal = __webpack_require__(191);

var _is_equal2 = _interopRequireDefault(_is_equal);

var _is_same_day = __webpack_require__(192);

var _is_same_day2 = _interopRequireDefault(_is_same_day);

var _is_today = __webpack_require__(193);

var _is_today2 = _interopRequireDefault(_is_today);

var _set_date = __webpack_require__(194);

var _set_date2 = _interopRequireDefault(_set_date);

var _set_month = __webpack_require__(195);

var _set_month2 = _interopRequireDefault(_set_month);

var _set_year = __webpack_require__(196);

var _set_year2 = _interopRequireDefault(_set_year);

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdPopover = __webpack_require__(25);

var _MdPopover2 = _interopRequireDefault(_MdPopover);

var _MdArrowRightIcon = __webpack_require__(200);

var _MdArrowRightIcon2 = _interopRequireDefault(_MdArrowRightIcon);

var _MdArrowLeftIcon = __webpack_require__(202);

var _MdArrowLeftIcon2 = _interopRequireDefault(_MdArrowLeftIcon);

var _MdDialog = __webpack_require__(10);
```

```
var _MdDialog2 = _interopRequireDefault(_MdDialog);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; } //
//
//
//
```

//
//
//

```
//
//
//
//
//
//
//

var getElements = function getElements(el, selector) {
  if (el && el.querySelector) {
    return el.querySelectorAll(selector);
  }

  return false;
};

exports.default = new _MdComponent2.default({
  name: 'MdDatepickerDialog',
  components: {
    MdPopover: _MdPopover2.default,
    MdArrowRightIcon: _MdArrowRightIcon2.default,
    MdArrowLeftIcon: _MdArrowLeftIcon2.default,
    MdDialog: _MdDialog2.default
  },
  props: {
    mdDate: Date,
    mdDisabledDates: [Array, Function]
  },
  data: function data() {
    return {
      currentDate: null,
      selectedDate: null,
      showDialog: false,
      monthAction: null,
      currentView: 'day',
      contentStyles: {},
      availableYears: null
    };
  },
  computed: {
    locale: function locale() {
      return this.$material.locale;
    },
    popperSettings: function popperSettings() {
      return {
        placement: 'bottom-start',
```

```
    modifiers: {
      keepTogether: {
        enabled: true
      },
      flip: {
        enabled: false
      }
    }
  };
},
calendarClasses: function calendarClasses() {
  if (this.monthAction === 'next') {
    return 'md-next';
  }

  return 'md-previous';
},
firstDayOfMonth: function firstDayOfMonth() {
  return (0, _start_of_month2.default)(this.currentDate).getDay();
},
daysInMonth: function daysInMonth() {
  return (0, _get_days_in_month2.default)(this.currentDate);
},
currentDay: function currentDay() {
  if (this.selectedDate) {
    return (0, _get_date2.default)(this.selectedDate);
  }

  return (0, _get_date2.default)(this.currentDate);
},
currentMonth: function currentMonth() {
  return (0, _get_month2.default)(this.currentDate);
},
currentMonthName: function currentMonthName() {
  return this.locale.months[this.currentMonth];
},
currentYear: function currentYear() {
  return (0, _get_year2.default)(this.currentDate);
},
selectedYear: function selectedYear() {
  if (this.selectedDate) {
    return (0, _get_year2.default)(this.selectedDate);
  }

  return (0, _get_year2.default)(this.currentDate);
},
```

```
  shortDayName: function shortDayName() {
    if (this.selectedDate) {
      return this.locale.shortDays[(0, _get_day2.default)(this.selectedDate)];
    }

    return this.locale.shortDays[(0, _get_day2.default)(this.currentDate)];
  },
  shortMonthName: function shortMonthName() {
    if (this.selectedDate) {
      return this.locale.shortMonths[(0, _get_month2.default)(this.selectedDate)];
    }

    return this.locale.shortMonths[(0, _get_month2.default)(this.currentDate)];
  }
},
watch: {
  mdDate: function mdDate() {
    this.currentDate = this.mdDate || new Date();
    this.selectedDate = this.mdDate;
  },
  currentDate: function () {
    var _ref = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function
        _callee(next, previous) {
      return regeneratorRuntime.wrap(function _callee$(_context) {
        var this$1 = this;

        while (1) {
          switch (_context.prev = _context.next) {
            case 0:
              _context.next = 2;
              return this$1.$nextTick();

            case 2:

              if (previous) {
                this$1.setContentStyles();
              }

            case 3:
            case 'end':
              return _context.stop();
          }
        }
      }, _callee, this);
    }));
```

```
  function currentDate(_x, _x2) {
    return _ref.apply(this, arguments);
  }

  return currentDate;
}(),
currentView: function () {
  var _ref2 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function
      _callee2() {
    var activeYear;
    return regeneratorRuntime.wrap(function _callee2$(_context2) {
      var this$1 = this;

      while (1) {
        switch (_context2.prev = _context2.next) {
          case 0:
            _context2.next = 2;
            return this$1.$nextTick();

          case 2:

            if (this$1.currentView === 'year') {
              activeYear = getElements(this$1.$el, '.md-datepicker-year-button.md-datepicker-
        selected');


              if (activeYear.length) {
                activeYear[0].scrollIntoView({
                  behavior: 'instant',
                  block: 'center',
                  inline: 'center'
                });
              }
            }

          case 3:
          case 'end':
            return _context2.stop();
        }
      }
    }, _callee2, this);
  }));

  function currentView() {
    return _ref2.apply(this, arguments);
  }
```

```
    return currentView;
  }()
},
methods: {
  setContentStyles: function setContentStyles() {
    var months = getElements(this.$el, '.md-datepicker-month');

    if (months.length) {
      var nextMonth = months[months.length - 1];

      this.contentStyles = {
        height: nextMonth.offsetHeight + 10 + 'px'
      };
    }
  },
  setAvailableYears: function setAvailableYears() {
    var _locale = this.locale,
        startYear = _locale.startYear,
        endYear = _locale.endYear;

    var counter = startYear;
    var years = [];

    while (counter <= endYear) {
      years.push(counter++);
    }

    this.availableYears = years;
  },
  handleDisabledDateByArray: function handleDisabledDateByArray(date) {
    return this.mdDisabledDates.some(function (disabledDate) {
      return (0, _is_same_day2.default)(disabledDate, date);
    });
  },
  isDisabled: function isDisabled(day) {
    if (this.mdDisabledDates) {
      var targetDate = (0, _set_date2.default)(this.currentDate, day);

      if (Array.isArray(this.mdDisabledDates)) {
        return this.handleDisabledDateByArray(targetDate);
      } else if (typeof this.mdDisabledDates === 'function') {
        return this.mdDisabledDates(targetDate);
      }
    }
  },
```

```
  isSelectedDay: function isSelectedDay(day) {
    return (0, _is_equal2.default)(this.selectedDate, (0, _set_date2.default)(this.currentDate,
        day));
  },
  isToday: function isToday(day) {
    return (0, _is_today2.default)((0, _set_date2.default)(this.currentDate, day));
  },
  previousMonth: function previousMonth() {
    this.monthAction = 'previous';
    this.currentDate = (0, _sub_months2.default)(this.currentDate, 1);
  },
  nextMonth: function nextMonth() {
    this.monthAction = 'next';
    this.currentDate = (0, _add_months2.default)(this.currentDate, 1);
  },
  switchMonth: function switchMonth(index) {
    this.currentDate = (0, _set_month2.default)(this.currentDate, index);
    this.currentView = 'day';
  },
  switchYear: function switchYear(year) {
    this.currentDate = (0, _set_year2.default)(this.currentDate, year);
    this.currentView = 'month';
  },
  selectDate: function selectDate(day) {
    this.currentDate = (0, _set_date2.default)(this.currentDate, day);
    this.selectedDate = this.currentDate;
  },
  closeDialog: function closeDialog() {
    this.$emit('md-closed');
  },
  onClose: function onClose() {
    this.closeDialog();
  },
  onCancel: function onCancel() {
    this.closeDialog();
  },
  onConfirm: function onConfirm() {
    this.closeDialog();
    this.$emit('update:mdDate', this.selectedDate);
  }
},
created: function created() {
  var _this = this;

  this.setAvailableYears();
  this.currentDate = this.mdDate || new Date();
```

```
    this.selectedDate = this.mdDate;
    this.currentView = 'day';

    window.setTimeout(function () {
      _this.setContentStyles();
    }, 50);
  }
});

/***/ }),
/* 185 */
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);

/**
 * @category Month Helpers
 * @summary Return the start of a month for the given date.
 *
 * @description
 * Return the start of a month for the given date.
 * The result will be in the local timezone.
 *
 * @param {Date|String|Number} date - the original date
 * @returns {Date} the start of a month
 *
 * @example
 * // The start of a month for 2 September 2014 11:55:00:
 * var result = startOfMonth(new Date(2014, 8, 2, 11, 55, 0))
 * //=> Mon Sep 01 2014 00:00:00
 */
function startOfMonth (dirtyDate) {
  var date = parse(dirtyDate);
  date.setDate(1);
  date.setHours(0, 0, 0, 0);
  return date
}

module.exports = startOfMonth;


/***/ }),
/* 186 */
/***/ (function(module, exports, __webpack_require__) {

var addMonths = __webpack_require__(39);
```

```
/**
 * @category Month Helpers
 * @summary Subtract the specified number of months from the given date.
 *
 * @description
 * Subtract the specified number of months from the given date.
 *
 * @param {Date|String|Number} date - the date to be changed
 * @param {Number} amount - the amount of months to be subtracted
 * @returns {Date} the new date with the months subtracted
 *
 * @example
 * // Subtract 5 months from 1 February 2015:
 * var result = subMonths(new Date(2015, 1, 1), 5)
 * //=> Mon Sep 01 2014 00:00:00
 */
function subMonths (dirtyDate, dirtyAmount) {
  var amount = Number(dirtyAmount);
  return addMonths(dirtyDate, -amount)
}

module.exports = subMonths;


/***/ }),
/* 187 */
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);

/**
 * @category Day Helpers
 * @summary Get the day of the month of the given date.
 *
 * @description
 * Get the day of the month of the given date.
 *
 * @param {Date|String|Number} date - the given date
 * @returns {Number} the day of month
 *
 * @example
 * // Which day of the month is 29 February 2012?
 * var result = getDate(new Date(2012, 1, 29))
 * //=> 29
 */
```

```
function getDate (dirtyDate) {
  var date = parse(dirtyDate);
  var dayOfMonth = date.getDate();
  return dayOfMonth
}

module.exports = getDate;


/***/ }),
/* 188 */
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);

/**
 * @category Weekday Helpers
 * @summary Get the day of the week of the given date.
 *
 * @description
 * Get the day of the week of the given date.
 *
 * @param {Date|String|Number} date - the given date
 * @returns {Number} the day of week
 *
 * @example
 * // Which day of the week is 29 February 2012?
 * var result = getDay(new Date(2012, 1, 29))
 * //=> 3
 */
function getDay (dirtyDate) {
  var date = parse(dirtyDate);
  var day = date.getDay();
  return day
}

module.exports = getDay;


/***/ }),
/* 189 */
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);

/**
```

```
 * @category Month Helpers
 * @summary Get the month of the given date.
 *
 * @description
 * Get the month of the given date.
 *
 * @param {Date|String|Number} date - the given date
 * @returns {Number} the month
 *
 * @example
 * // Which month is 29 February 2012?
 * var result = getMonth(new Date(2012, 1, 29))
 * //=> 1
 */
function getMonth (dirtyDate) {
  var date = parse(dirtyDate);
  var month = date.getMonth();
  return month
}

module.exports = getMonth;


/***/ }),
/* 190 */
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);

/**
 * @category Year Helpers
 * @summary Get the year of the given date.
 *
 * @description
 * Get the year of the given date.
 *
 * @param {Date|String|Number} date - the given date
 * @returns {Number} the year
 *
 * @example
 * // Which year is 2 July 2014?
 * var result = getYear(new Date(2014, 6, 2))
 * //=> 2014
 */
function getYear (dirtyDate) {
  var date = parse(dirtyDate);
```

```
  var year = date.getFullYear();
  return year
}

module.exports = getYear;


/***/ }),
/* 191 */
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);

/**
 * @category Common Helpers
 * @summary Are the given dates equal?
 *
 * @description
 * Are the given dates equal?
 *
 * @param {Date|String|Number} dateLeft - the first date to compare
 * @param {Date|String|Number} dateRight - the second date to compare
 * @returns {Boolean} the dates are equal
 *
 * @example
 * // Are 2 July 2014 06:30:45.000 and 2 July 2014 06:30:45.500 equal?
 * var result = isEqual(
 *   new Date(2014, 6, 2, 6, 30, 45, 0)
 *   new Date(2014, 6, 2, 6, 30, 45, 500)
 * )
 * //=> false
 */
function isEqual (dirtyLeftDate, dirtyRightDate) {
  var dateLeft = parse(dirtyLeftDate);
  var dateRight = parse(dirtyRightDate);
  return dateLeft.getTime() === dateRight.getTime()
}

module.exports = isEqual;


/***/ }),
/* 192 */
/***/ (function(module, exports, __webpack_require__) {

var startOfDay = __webpack_require__(21);
```

```
/**
 * @category Day Helpers
 * @summary Are the given dates in the same day?
 *
 * @description
 * Are the given dates in the same day?
 *
 * @param {Date|String|Number} dateLeft - the first date to check
 * @param {Date|String|Number} dateRight - the second date to check
 * @returns {Boolean} the dates are in the same day
 *
 * @example
 * // Are 4 September 06:00:00 and 4 September 18:00:00 in the same day?
 * var result = isSameDay(
 *   new Date(2014, 8, 4, 6, 0),
 *   new Date(2014, 8, 4, 18, 0)
 * )
 * //=> true
 */
function isSameDay (dirtyDateLeft, dirtyDateRight) {
  var dateLeftStartOfDay = startOfDay(dirtyDateLeft);
  var dateRightStartOfDay = startOfDay(dirtyDateRight);

  return dateLeftStartOfDay.getTime() === dateRightStartOfDay.getTime()
}

module.exports = isSameDay;


/***/ }),
/* 193 */
/***/ (function(module, exports, __webpack_require__) {

var startOfDay = __webpack_require__(21);

/**
 * @category Day Helpers
 * @summary Is the given date today?
 *
 * @description
 * Is the given date today?
 *
 * @param {Date|String|Number} date - the date to check
 * @returns {Boolean} the date is today
 *
```

```
 * @example
 * // If today is 6 October 2014, is 6 October 14:00:00 today?
 * var result = isToday(new Date(2014, 9, 6, 14, 0))
 * //=> true
 */
function isToday (dirtyDate) {
  return startOfDay(dirtyDate).getTime() === startOfDay(new Date()).getTime()
}

module.exports = isToday;


/***/ }),
/* 194 */
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);

/**
 * @category Day Helpers
 * @summary Set the day of the month to the given date.
 *
 * @description
 * Set the day of the month to the given date.
 *
 * @param {Date|String|Number} date - the date to be changed
 * @param {Number} dayOfMonth - the day of the month of the new date
 * @returns {Date} the new date with the day of the month setted
 *
 * @example
 * // Set the 30th day of the month to 1 September 2014:
 * var result = setDate(new Date(2014, 8, 1), 30)
 * //=> Tue Sep 30 2014 00:00:00
 */
function setDate (dirtyDate, dirtyDayOfMonth) {
  var date = parse(dirtyDate);
  var dayOfMonth = Number(dirtyDayOfMonth);
  date.setDate(dayOfMonth);
  return date
}

module.exports = setDate;


/***/ }),
/* 195 */
```

```
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);
var getDaysInMonth = __webpack_require__(24);

/**
 * @category Month Helpers
 * @summary Set the month to the given date.
 *
 * @description
 * Set the month to the given date.
 *
 * @param {Date|String|Number} date - the date to be changed
 * @param {Number} month - the month of the new date
 * @returns {Date} the new date with the month setted
 *
 * @example
 * // Set February to 1 September 2014:
 * var result = setMonth(new Date(2014, 8, 1), 1)
 * //=> Sat Feb 01 2014 00:00:00
 */
function setMonth (dirtyDate, dirtyMonth) {
  var date = parse(dirtyDate);
  var month = Number(dirtyMonth);
  var year = date.getFullYear();
  var day = date.getDate();

  var dateWithDesiredMonth = new Date(0);
  dateWithDesiredMonth.setFullYear(year, month, 15);
  dateWithDesiredMonth.setHours(0, 0, 0, 0);
  var daysInMonth = getDaysInMonth(dateWithDesiredMonth);
  // Set the last day of the new month
  // if the original date was the last day of the longer month
  date.setMonth(month, Math.min(day, daysInMonth));
  return date
}

module.exports = setMonth;


/***/ }),
/* 196 */
/***/ (function(module, exports, __webpack_require__) {

var parse = __webpack_require__(3);
```

```
/**
 * @category Year Helpers
 * @summary Set the year to the given date.
 *
 * @description
 * Set the year to the given date.
 *
 * @param {Date|String|Number} date - the date to be changed
 * @param {Number} year - the year of the new date
 * @returns {Date} the new date with the year setted
 *
 * @example
 * // Set year 2013 to 1 September 2014:
 * var result = setYear(new Date(2014, 8, 1), 2013)
 * //=> Sun Sep 01 2013 00:00:00
 */
function setYear (dirtyDate, dirtyYear) {
  var date = parse(dirtyDate);
  var year = Number(dirtyYear);
  date.setFullYear(year);
  return date
}

module.exports = setYear;


/***/ }),
/* 197 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 198 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
          { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
          source[key]; } } } return target; };
```

```
var _popper = __webpack_require__(199);

var _popper2 = _interopRequireDefault(_popper);

var _deepmerge = __webpack_require__(30);

var _deepmerge2 = _interopRequireDefault(_deepmerge);

var _MdPortal = __webpack_require__(16);

var _MdPortal2 = _interopRequireDefault(_MdPortal);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; }

exports.default = {
  name: 'MdPopover',
  abstract: true,
  components: {
    MdPortal: _MdPortal2.default
  },
  props: {
    mdActive: Boolean,
    mdSettings: {
      type: Object,
      default: function _default() {
        return {};
      }
    }
  },
  data: function data() {
    return {
      popperInstance: null,
      originalParentEl: null,
      shouldRender: false,
      shouldActivate: false
    };
  },
  computed: {
```

```
  popoverClasses: function popoverClasses() {
    if (this.shouldActivate) {
      return 'md-active';
    } else if (this.shouldRender) {
      return 'md-rendering';
    }
  }
},
watch: {
  mdActive: {
    immediate: true,
    handler: function handler(shouldRender) {
      this.shouldRender = shouldRender;

      if (shouldRender) {
        this.bindPopper();
      } else {
        this.shouldActivate = false;
      }
    }
  },
  mdSettings: function mdSettings() {
    if (this.popperInstance) {
      this.createPopper();
    }
  }
},
methods: {
  getPopperOptions: function getPopperOptions() {
    var _this = this;

    return {
      placement: 'bottom',
      modifiers: {
        preventOverflow: {
          boundariesElement: 'viewport',
          padding: 16
        },
        computeStyle: {
          gpuAcceleration: false
        }
      },
      onCreate: function onCreate() {
        _this.shouldActivate = true;
        _this.$emit('md-active');
      }
```

```
  };
},
setOriginalParent: function setOriginalParent(el) {
  if (!this.originalParentEl) {
    this.originalParentEl = el;
  }
},
killPopper: function killPopper() {
  if (this.popperInstance) {
    this.popperInstance.destroy();
    this.popperInstance = null;
  }
},
bindPopper: function () {
  var _ref = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee()
      {
    return regeneratorRuntime.wrap(function _callee$(_context) {
      var this$1 = this;

      while (1) {
        switch (_context.prev = _context.next) {
          case 0:
            _context.next = 2;
            return this$1.$nextTick();

          case 2:

            if (this$1.originalParentEl) {
              this$1.createPopper();
            }

          case 3:
          case 'end':
            return _context.stop();
        }
      }
    }, _callee, this);
  }));

  function bindPopper() {
    return _ref.apply(this, arguments);
  }

  return bindPopper;
}(),
createPopper: function () {
```

```
    var _ref2 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function
        _callee2() {
      var options;
      return regeneratorRuntime.wrap(function _callee2$(_context2) {
        var this$1 = this;

        while (1) {
          switch (_context2.prev = _context2.next) {
            case 0:
              if (this$1.mdSettings) {
                options = (0, _deepmerge2.default)(this$1.getPopperOptions(), this$1.mdSettings);


                if (this$1.$el.constructor.name.toLowerCase() !== 'comment') {
                  this$1.popperInstance = new _popper2.default(this$1.originalParentEl, this$1.$el,
          options);
                }
              }

            case 1:
            case 'end':
              return _context2.stop();
          }
        }
      }, _callee2, this);
    }));

    function createPopper() {
      return _ref2.apply(this, arguments);
    }

    return createPopper;
  }(),
  resetPopper: function resetPopper() {
    if (this.popperInstance) {
      this.killPopper();
      this.createPopper();
    }
  }
},
beforeDestroy: function beforeDestroy() {
  this.killPopper();
},
mounted: function mounted() {
  this.resetPopper();
},
```

```
  render: function render(createElement) {
    return createElement(_MdPortal2.default, {
      props: _extends({}, this.$attrs),
      on: _extends({}, this.$listeners, {
        'md-initial-parent': this.setOriginalParent,
        'md-destroy': this.killPopper
      })
    }, this.$slots.default);
  }
};

/***/ }),
/* 199 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
/* WEBPACK VAR INJECTION */(function(global) {/**!
 * @fileOverview Kickass library to create and place poppers near their reference elements.
 * @version 1.12.6
 * @license
 * Copyright (c) 2016 Federico Zivolo and contributors
 *
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        OTHER
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        ARISING FROM,
 * OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
        DEALINGS IN THE
 * SOFTWARE.
 */
var isBrowser = typeof window !== 'undefined' && typeof window.document !== 'undefined';
```

```
var longerTimeoutBrowsers = ['Edge', 'Trident', 'Firefox'];
var timeoutDuration = 0;
for (var i = 0; i < longerTimeoutBrowsers.length; i += 1) {
  if (isBrowser && navigator.userAgent.indexOf(longerTimeoutBrowsers[i]) >= 0) {
    timeoutDuration = 1;
    break;
  }
}

function microtaskDebounce(fn) {
  var called = false;
  return function () {
    if (called) {
      return;
    }
    called = true;
    Promise.resolve().then(function () {
      called = false;
      fn();
    });
  };
}

function taskDebounce(fn) {
  var scheduled = false;
  return function () {
    if (!scheduled) {
      scheduled = true;
      setTimeout(function () {
        scheduled = false;
        fn();
      }, timeoutDuration);
    }
  };
}

var supportsMicroTasks = isBrowser && window.Promise;

/**
* Create a debounced version of a method, that's asynchronously deferred
* but called in the minimum time possible.
*
* @method
* @memberof Popper.Utils
* @argument {Function} fn
* @returns {Function}
```

```
*/
var debounce = supportsMicroTasks ? microtaskDebounce : taskDebounce;

/**
 * Check if the given variable is a function
 * @method
 * @memberof Popper.Utils
 * @argument {Any} functionToCheck - variable to check
 * @returns {Boolean} answer to: is a function?
 */
function isFunction(functionToCheck) {
  var getType = {};
  return functionToCheck && getType.toString.call(functionToCheck) === '[object Function]';
}

/**
 * Get CSS computed property of the given element
 * @method
 * @memberof Popper.Utils
 * @argument {Eement} element
 * @argument {String} property
 */
function getStyleComputedProperty(element, property) {
  if (element.nodeType !== 1) {
    return [];
  }
  // NOTE: 1 DOM access here
  var css = window.getComputedStyle(element, null);
  return property ? css[property] : css;
}

/**
 * Returns the parentNode or the host of the element
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element
 * @returns {Element} parent
 */
function getParentNode(element) {
  if (element.nodeName === 'HTML') {
    return element;
  }
  return element.parentNode || element.host;
}

/**
```

```
 * Returns the scrolling parent of the given element
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element
 * @returns {Element} scroll parent
 */
function getScrollParent(element) {
  // Return body, `getScroll` will take care to get the correct `scrollTop` from it
  if (!element) {
    return window.document.body;
  }

  switch (element.nodeName) {
    case 'HTML':
    case 'BODY':
      return element.ownerDocument.body;
    case '#document':
      return element.body;
  }

  // Firefox want us to check `-x` and `-y` variations as well

  var _getStyleComputedProp = getStyleComputedProperty(element),
      overflow = _getStyleComputedProp.overflow,
      overflowX = _getStyleComputedProp.overflowX,
      overflowY = _getStyleComputedProp.overflowY;

  if (/(auto|scroll)/.test(overflow + overflowY + overflowX)) {
    return element;
  }

  return getScrollParent(getParentNode(element));
}

/**
 * Returns the offset parent of the given element
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element
 * @returns {Element} offset parent
 */
function getOffsetParent(element) {
  // NOTE: 1 DOM access here
  var offsetParent = element && element.offsetParent;
  var nodeName = offsetParent && offsetParent.nodeName;
```

```
  if (!nodeName || nodeName === 'BODY' || nodeName === 'HTML') {
    if (element) {
      return element.ownerDocument.documentElement;
    }

    return window.document.documentElement;
  }

  // .offsetParent will return the closest TD or TABLE in case
  // no offsetParent is present, I hate this job...
  if (['TD', 'TABLE'].indexOf(offsetParent.nodeName) !== -1 &&
          getStyleComputedProperty(offsetParent, 'position') === 'static') {
    return getOffsetParent(offsetParent);
  }

  return offsetParent;
}

function isOffsetContainer(element) {
  var nodeName = element.nodeName;

  if (nodeName === 'BODY') {
    return false;
  }
  return nodeName === 'HTML' || getOffsetParent(element.firstElementChild) === element;
}

/**
 * Finds the root node (document, shadowDOM root) of the given element
 * @method
 * @memberof Popper.Utils
 * @argument {Element} node
 * @returns {Element} root node
 */
function getRoot(node) {
  if (node.parentNode !== null) {
    return getRoot(node.parentNode);
  }

  return node;
}

/**
 * Finds the offset parent common to the two provided nodes
 * @method
 * @memberof Popper.Utils
```

```
 * @argument {Element} element1
 * @argument {Element} element2
 * @returns {Element} common offset parent
 */
function findCommonOffsetParent(element1, element2) {
  // This check is needed to avoid errors in case one of the elements isn't defined for any reason
  if (!element1 || !element1.nodeType || !element2 || !element2.nodeType) {
    return window.document.documentElement;
  }

  // Here we make sure to give as "start" the element that comes first in the DOM
  var order = element1.compareDocumentPosition(element2) &
          Node.DOCUMENT_POSITION_FOLLOWING;
  var start = order ? element1 : element2;
  var end = order ? element2 : element1;

  // Get common ancestor container
  var range = document.createRange();
  range.setStart(start, 0);
  range.setEnd(end, 0);
  var commonAncestorContainer = range.commonAncestorContainer;

  // Both nodes are inside #document

  if (element1 !== commonAncestorContainer && element2 !== commonAncestorContainer ||
          start.contains(end)) {
    if (isOffsetContainer(commonAncestorContainer)) {
      return commonAncestorContainer;
    }

    return getOffsetParent(commonAncestorContainer);
  }

  // one of the nodes is inside shadowDOM, find which one
  var element1root = getRoot(element1);
  if (element1root.host) {
    return findCommonOffsetParent(element1root.host, element2);
  } else {
    return findCommonOffsetParent(element1, getRoot(element2).host);
  }
}

/**
 * Gets the scroll value of the given element in the given side (top and left)
 * @method
 * @memberof Popper.Utils
```

```
 * @argument {Element} element
 * @argument {String} side `top` or `left`
 * @returns {number} amount of scrolled pixels
 */
function getScroll(element) {
  var side = arguments.length > 1 && arguments[1] !== undefined ? arguments[1] : 'top';

  var upperSide = side === 'top' ? 'scrollTop' : 'scrollLeft';
  var nodeName = element.nodeName;

  if (nodeName === 'BODY' || nodeName === 'HTML') {
    var html = element.ownerDocument.documentElement;
    var scrollingElement = element.ownerDocument.scrollingElement || html;
    return scrollingElement[upperSide];
  }

  return element[upperSide];
}

/*
 * Sum or subtract the element scroll values (left and top) from a given rect object
 * @method
 * @memberof Popper.Utils
 * @param {Object} rect - Rect object you want to change
 * @param {HTMLElement} element - The element from the function reads the scroll values
 * @param {Boolean} subtract - set to true if you want to subtract the scroll values
 * @return {Object} rect - The modifier rect object
 */
function includeScroll(rect, element) {
  var subtract = arguments.length > 2 && arguments[2] !== undefined ? arguments[2] : false;

  var scrollTop = getScroll(element, 'top');
  var scrollLeft = getScroll(element, 'left');
  var modifier = subtract ? -1 : 1;
  rect.top += scrollTop * modifier;
  rect.bottom += scrollTop * modifier;
  rect.left += scrollLeft * modifier;
  rect.right += scrollLeft * modifier;
  return rect;
}

/*
 * Helper to detect borders of a given element
 * @method
 * @memberof Popper.Utils
 * @param {CSSStyleDeclaration} styles
```

```
 * Result of `getStyleComputedProperty` on the given element
 * @param {String} axis - `x` or `y`
 * @return {number} borders - The borders size of the given axis
 */

function getBordersSize(styles, axis) {
  var sideA = axis === 'x' ? 'Left' : 'Top';
  var sideB = sideA === 'Left' ? 'Right' : 'Bottom';

  return +styles['border' + sideA + 'Width'].split('px')[0] + +styles['border' + sideB +
        'Width'].split('px')[0];
}

/**
 * Tells if you are running Internet Explorer 10
 * @method
 * @memberof Popper.Utils
 * @returns {Boolean} isIE10
 */
var isIE10 = undefined;

var isIE10$1 = function () {
  if (isIE10 === undefined) {
    isIE10 = navigator.appVersion.indexOf('MSIE 10') !== -1;
  }
  return isIE10;
};

function getSize(axis, body, html, computedStyle) {
  return Math.max(body['offset' + axis], body['scroll' + axis], html['client' + axis], html['offset' +
        axis], html['scroll' + axis], isIE10$1() ? html['offset' + axis] + computedStyle['margin' +
        (axis === 'Height' ? 'Top' : 'Left')] + computedStyle['margin' + (axis === 'Height' ?
        'Bottom' : 'Right')] : 0);
}

function getWindowSizes() {
  var body = window.document.body;
  var html = window.document.documentElement;
  var computedStyle = isIE10$1() && window.getComputedStyle(html);

  return {
    height: getSize('Height', body, html, computedStyle),
    width: getSize('Width', body, html, computedStyle)
  };
}
```

```
var classCallCheck = function (instance, Constructor) {
  if (!(instance instanceof Constructor)) {
    throw new TypeError("Cannot call a class as a function");
  }
};

var createClass = function () {
  function defineProperties(target, props) {
    for (var i = 0; i < props.length; i++) {
      var descriptor = props[i];
      descriptor.enumerable = descriptor.enumerable || false;
      descriptor.configurable = true;
      if ("value" in descriptor) { descriptor.writable = true; }
      Object.defineProperty(target, descriptor.key, descriptor);
    }
  }

  return function (Constructor, protoProps, staticProps) {
    if (protoProps) { defineProperties(Constructor.prototype, protoProps); }
    if (staticProps) { defineProperties(Constructor, staticProps); }
    return Constructor;
  };
}();




var defineProperty = function (obj, key, value) {
  if (key in obj) {
    Object.defineProperty(obj, key, {
      value: value,
      enumerable: true,
      configurable: true,
      writable: true
    });
  } else {
    obj[key] = value;
  }

  return obj;
};

var _extends = Object.assign || function (target) {
  var arguments$1 = arguments;
```

```
  for (var i = 1; i < arguments.length; i++) {
    var source = arguments$1[i];

    for (var key in source) {
      if (Object.prototype.hasOwnProperty.call(source, key)) {
        target[key] = source[key];
      }
    }
  }

  return target;
};

/**
 * Given element offsets, generate an output similar to getBoundingClientRect
 * @method
 * @memberof Popper.Utils
 * @argument {Object} offsets
 * @returns {Object} ClientRect like output
 */
function getClientRect(offsets) {
  return _extends({}, offsets, {
    right: offsets.left + offsets.width,
    bottom: offsets.top + offsets.height
  });
}

/**
 * Get bounding client rect of given element
 * @method
 * @memberof Popper.Utils
 * @param {HTMLElement} element
 * @return {Object} client rect
 */
function getBoundingClientRect(element) {
  var rect = {};

  // IE10 10 FIX: Please, don't ask, the element isn't
  // considered in DOM in some circumstances...
  // This isn't reproducible in IE10 compatibility mode of IE11
  if (isIE10$1()) {
    try {
      rect = element.getBoundingClientRect();
      var scrollTop = getScroll(element, 'top');
      var scrollLeft = getScroll(element, 'left');
      rect.top += scrollTop;
```

```
      rect.left += scrollLeft;
      rect.bottom += scrollTop;
      rect.right += scrollLeft;
    } catch (err) {}
  } else {
    rect = element.getBoundingClientRect();
  }

  var result = {
    left: rect.left,
    top: rect.top,
    width: rect.right - rect.left,
    height: rect.bottom - rect.top
  };

  // subtract scrollbar size from sizes
  var sizes = element.nodeName === 'HTML' ? getWindowSizes() : {};
  var width = sizes.width || element.clientWidth || result.right - result.left;
  var height = sizes.height || element.clientHeight || result.bottom - result.top;

  var horizScrollbar = element.offsetWidth - width;
  var vertScrollbar = element.offsetHeight - height;

  // if an hypothetical scrollbar is detected, we must be sure it's not a `border`
  // we make this check conditional for performance reasons
  if (horizScrollbar || vertScrollbar) {
    var styles = getStyleComputedProperty(element);
    horizScrollbar -= getBordersSize(styles, 'x');
    vertScrollbar -= getBordersSize(styles, 'y');

    result.width -= horizScrollbar;
    result.height -= vertScrollbar;
  }

  return getClientRect(result);
}

function getOffsetRectRelativeToArbitraryNode(children, parent) {
  var isIE10 = isIE10$1();
  var isHTML = parent.nodeName === 'HTML';
  var childrenRect = getBoundingClientRect(children);
  var parentRect = getBoundingClientRect(parent);
  var scrollParent = getScrollParent(children);

  var styles = getStyleComputedProperty(parent);
  var borderTopWidth = +styles.borderTopWidth.split('px')[0];
```

```
  var borderLeftWidth = +styles.borderLeftWidth.split('px')[0];

  var offsets = getClientRect({
    top: childrenRect.top - parentRect.top - borderTopWidth,
    left: childrenRect.left - parentRect.left - borderLeftWidth,
    width: childrenRect.width,
    height: childrenRect.height
  });
  offsets.marginTop = 0;
  offsets.marginLeft = 0;

  // Subtract margins of documentElement in case it's being used as parent
  // we do this only on HTML because it's the only element that behaves
  // differently when margins are applied to it. The margins are included in
  // the box of the documentElement, in the other cases not.
  if (!isIE10 && isHTML) {
    var marginTop = +styles.marginTop.split('px')[0];
    var marginLeft = +styles.marginLeft.split('px')[0];

    offsets.top -= borderTopWidth - marginTop;
    offsets.bottom -= borderTopWidth - marginTop;
    offsets.left -= borderLeftWidth - marginLeft;
    offsets.right -= borderLeftWidth - marginLeft;

    // Attach marginTop and marginLeft because in some circumstances we may need them
    offsets.marginTop = marginTop;
    offsets.marginLeft = marginLeft;
  }

  if (isIE10 ? parent.contains(scrollParent) : parent === scrollParent &&
        scrollParent.nodeName !== 'BODY') {
    offsets = includeScroll(offsets, parent);
  }

  return offsets;
}

function getViewportOffsetRectRelativeToArtbitraryNode(element) {
  var html = element.ownerDocument.documentElement;
  var relativeOffset = getOffsetRectRelativeToArbitraryNode(element, html);
  var width = Math.max(html.clientWidth, window.innerWidth || 0);
  var height = Math.max(html.clientHeight, window.innerHeight || 0);

  var scrollTop = getScroll(html);
  var scrollLeft = getScroll(html, 'left');
```

```
  var offset = {
    top: scrollTop - relativeOffset.top + relativeOffset.marginTop,
    left: scrollLeft - relativeOffset.left + relativeOffset.marginLeft,
    width: width,
    height: height
  };

  return getClientRect(offset);
}

/**
 * Check if the given element is fixed or is inside a fixed parent
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element
 * @argument {Element} customContainer
 * @returns {Boolean} answer to "isFixed?"
 */
function isFixed(element) {
  var nodeName = element.nodeName;
  if (nodeName === 'BODY' || nodeName === 'HTML') {
    return false;
  }
  if (getStyleComputedProperty(element, 'position') === 'fixed') {
    return true;
  }
  return isFixed(getParentNode(element));
}

/**
 * Computed the boundaries limits and return them
 * @method
 * @memberof Popper.Utils
 * @param {HTMLElement} popper
 * @param {HTMLElement} reference
 * @param {number} padding
 * @param {HTMLElement} boundariesElement - Element used to define the boundaries
 * @returns {Object} Coordinates of the boundaries
 */
function getBoundaries(popper, reference, padding, boundariesElement) {
  // NOTE: 1 DOM access here
  var boundaries = { top: 0, left: 0 };
  var offsetParent = findCommonOffsetParent(popper, reference);

  // Handle viewport case
  if (boundariesElement === 'viewport') {
```

```
    boundaries = getViewportOffsetRectRelativeToArtbitraryNode(offsetParent);
  } else {
    // Handle other cases based on DOM element used as boundaries
    var boundariesNode = void 0;
    if (boundariesElement === 'scrollParent') {
      boundariesNode = getScrollParent(getParentNode(popper));
      if (boundariesNode.nodeName === 'BODY') {
        boundariesNode = popper.ownerDocument.documentElement;
      }
    } else if (boundariesElement === 'window') {
      boundariesNode = popper.ownerDocument.documentElement;
    } else {
      boundariesNode = boundariesElement;
    }

    var offsets = getOffsetRectRelativeToArbitraryNode(boundariesNode, offsetParent);

    // In case of HTML, we need a different computation
    if (boundariesNode.nodeName === 'HTML' && !isFixed(offsetParent)) {
      var _getWindowSizes = getWindowSizes(),
          height = _getWindowSizes.height,
          width = _getWindowSizes.width;

      boundaries.top += offsets.top - offsets.marginTop;
      boundaries.bottom = height + offsets.top;
      boundaries.left += offsets.left - offsets.marginLeft;
      boundaries.right = width + offsets.left;
    } else {
      // for all the other DOM elements, this one is good
      boundaries = offsets;
    }
  }

  // Add paddings
  boundaries.left += padding;
  boundaries.top += padding;
  boundaries.right -= padding;
  boundaries.bottom -= padding;

  return boundaries;
}

function getArea(_ref) {
  var width = _ref.width,
      height = _ref.height;
```

```
  return width * height;
}

/**
 * Utility used to transform the `auto` placement to the placement with more
 * available space.
 * @method
 * @memberof Popper.Utils
 * @argument {Object} data - The data object generated by update method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function computeAutoPlacement(placement, refRect, popper, reference, boundariesElement) {
  var padding = arguments.length > 5 && arguments[5] !== undefined ? arguments[5] : 0;

  if (placement.indexOf('auto') === -1) {
    return placement;
  }

  var boundaries = getBoundaries(popper, reference, padding, boundariesElement);

  var rects = {
    top: {
      width: boundaries.width,
      height: refRect.top - boundaries.top
    },
    right: {
      width: boundaries.right - refRect.right,
      height: boundaries.height
    },
    bottom: {
      width: boundaries.width,
      height: boundaries.bottom - refRect.bottom
    },
    left: {
      width: refRect.left - boundaries.left,
      height: boundaries.height
    }
  };

  var sortedAreas = Object.keys(rects).map(function (key) {
    return _extends({
      key: key
    }, rects[key], {
      area: getArea(rects[key])
    });
```

```
  }).sort(function (a, b) {
    return b.area - a.area;
  });

  var filteredAreas = sortedAreas.filter(function (_ref2) {
    var width = _ref2.width,
        height = _ref2.height;
    return width >= popper.clientWidth && height >= popper.clientHeight;
  });

  var computedPlacement = filteredAreas.length > 0 ? filteredAreas[0].key : sortedAreas[0].key;

  var variation = placement.split('-')[1];

  return computedPlacement + (variation ? '-' + variation : '');
}

/**
 * Get offsets to the reference element
 * @method
 * @memberof Popper.Utils
 * @param {Object} state
 * @param {Element} popper - the popper element
 * @param {Element} reference - the reference element (the popper will be relative to this)
 * @returns {Object} An object containing the offsets which will be applied to the popper
 */
function getReferenceOffsets(state, popper, reference) {
  var commonOffsetParent = findCommonOffsetParent(popper, reference);
  return getOffsetRectRelativeToArbitraryNode(reference, commonOffsetParent);
}

/**
 * Get the outer sizes of the given element (offset size + margins)
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element
 * @returns {Object} object containing width and height properties
 */
function getOuterSizes(element) {
  var styles = window.getComputedStyle(element);
  var x = parseFloat(styles.marginTop) + parseFloat(styles.marginBottom);
  var y = parseFloat(styles.marginLeft) + parseFloat(styles.marginRight);
  var result = {
    width: element.offsetWidth + y,
    height: element.offsetHeight + x
  };
```

```
  return result;
}

/**
 * Get the opposite placement of the given one
 * @method
 * @memberof Popper.Utils
 * @argument {String} placement
 * @returns {String} flipped placement
 */
function getOppositePlacement(placement) {
  var hash = { left: 'right', right: 'left', bottom: 'top', top: 'bottom' };
  return placement.replace(/left|right|bottom|top/g, function (matched) {
    return hash[matched];
  });
}

/**
 * Get offsets to the popper
 * @method
 * @memberof Popper.Utils
 * @param {Object} position - CSS position the Popper will get applied
 * @param {HTMLElement} popper - the popper element
 * @param {Object} referenceOffsets - the reference offsets (the popper will be relative to this)
 * @param {String} placement - one of the valid placement options
 * @returns {Object} popperOffsets - An object containing the offsets which will be applied to
        the popper
 */
function getPopperOffsets(popper, referenceOffsets, placement) {
  placement = placement.split('-')[0];

  // Get popper node sizes
  var popperRect = getOuterSizes(popper);

  // Add position, width and height to our offsets object
  var popperOffsets = {
    width: popperRect.width,
    height: popperRect.height
  };

  // depending by the popper placement we have to compute its offsets slightly differently
  var isHoriz = ['right', 'left'].indexOf(placement) !== -1;
  var mainSide = isHoriz ? 'top' : 'left';
  var secondarySide = isHoriz ? 'left' : 'top';
  var measurement = isHoriz ? 'height' : 'width';
  var secondaryMeasurement = !isHoriz ? 'height' : 'width';
```

```
  popperOffsets[mainSide] = referenceOffsets[mainSide] + referenceOffsets[measurement] / 2 -
          popperRect[measurement] / 2;
  if (placement === secondarySide) {
    popperOffsets[secondarySide] = referenceOffsets[secondarySide] -
          popperRect[secondaryMeasurement];
  } else {
    popperOffsets[secondarySide] = referenceOffsets[getOppositePlacement(secondarySide)];
  }

  return popperOffsets;
}

/**
 * Mimics the `find` method of Array
 * @method
 * @memberof Popper.Utils
 * @argument {Array} arr
 * @argument prop
 * @argument value
 * @returns index or -1
 */
function find(arr, check) {
  // use native find if supported
  if (Array.prototype.find) {
    return arr.find(check);
  }

  // use `filter` to obtain the same behavior of `find`
  return arr.filter(check)[0];
}

/**
 * Return the index of the matching object
 * @method
 * @memberof Popper.Utils
 * @argument {Array} arr
 * @argument prop
 * @argument value
 * @returns index or -1
 */
function findIndex(arr, prop, value) {
  // use native findIndex if supported
  if (Array.prototype.findIndex) {
    return arr.findIndex(function (cur) {
      return cur[prop] === value;
```

```
    });
  }

  // use `find` + `indexOf` if `findIndex` isn't supported
  var match = find(arr, function (obj) {
    return obj[prop] === value;
  });
  return arr.indexOf(match);
}

/**
 * Loop trough the list of modifiers and run them in order,
 * each of them will then edit the data object.
 * @method
 * @memberof Popper.Utils
 * @param {dataObject} data
 * @param {Array} modifiers
 * @param {String} ends - Optional modifier name used as stopper
 * @returns {dataObject}
 */
function runModifiers(modifiers, data, ends) {
  var modifiersToRun = ends === undefined ? modifiers : modifiers.slice(0, findIndex(modifiers,
          'name', ends));

  modifiersToRun.forEach(function (modifier) {
    if (modifier['function']) {
      // eslint-disable-line dot-notation
      console.warn('`modifier.function` is deprecated, use `modifier.fn`!');
    }
    var fn = modifier['function'] || modifier.fn; // eslint-disable-line dot-notation
    if (modifier.enabled && isFunction(fn)) {
      // Add properties to offsets to make them a complete clientRect object
      // we do this before each modifier to make sure the previous one doesn't
      // mess with these values
      data.offsets.popper = getClientRect(data.offsets.popper);
      data.offsets.reference = getClientRect(data.offsets.reference);

      data = fn(data, modifier);
    }
  });

  return data;
}

/**
 * Updates the position of the popper, computing the new offsets and applying
```

```
 * the new style.<br />
 * Prefer `scheduleUpdate` over `update` because of performance reasons.
 * @method
 * @memberof Popper
 */
function update() {
  // if popper is destroyed, don't perform any further update
  if (this.state.isDestroyed) {
    return;
  }

  var data = {
    instance: this,
    styles: {},
    arrowStyles: {},
    attributes: {},
    flipped: false,
    offsets: {}
  };

  // compute reference element offsets
  data.offsets.reference = getReferenceOffsets(this.state, this.popper, this.reference);

  // compute auto placement, store placement inside the data object,
  // modifiers will be able to edit `placement` if needed
  // and refer to originalPlacement to know the original value
  data.placement = computeAutoPlacement(this.options.placement, data.offsets.reference,
        this.popper, this.reference, this.options.modifiers.flip.boundariesElement,
        this.options.modifiers.flip.padding);

  // store the computed placement inside `originalPlacement`
  data.originalPlacement = data.placement;

  // compute the popper offsets
  data.offsets.popper = getPopperOffsets(this.popper, data.offsets.reference, data.placement);
  data.offsets.popper.position = 'absolute';

  // run the modifiers
  data = runModifiers(this.modifiers, data);

  // the first `update` will call `onCreate` callback
  // the other ones will call `onUpdate` callback
  if (!this.state.isCreated) {
    this.state.isCreated = true;
    this.options.onCreate(data);
  } else {
```

```
    this.options.onUpdate(data);
  }
}

/**
 * Helper used to know if the given modifier is enabled.
 * @method
 * @memberof Popper.Utils
 * @returns {Boolean}
 */
function isModifierEnabled(modifiers, modifierName) {
  return modifiers.some(function (_ref) {
    var name = _ref.name,
        enabled = _ref.enabled;
    return enabled && name === modifierName;
  });
}

/**
 * Get the prefixed supported property name
 * @method
 * @memberof Popper.Utils
 * @argument {String} property (camelCase)
 * @returns {String} prefixed property (camelCase or PascalCase, depending on the vendor
          prefix)
 */
function getSupportedPropertyName(property) {
  var prefixes = [false, 'ms', 'Webkit', 'Moz', 'O'];
  var upperProp = property.charAt(0).toUpperCase() + property.slice(1);

  for (var i = 0; i < prefixes.length - 1; i++) {
    var prefix = prefixes[i];
    var toCheck = prefix ? '' + prefix + upperProp : property;
    if (typeof window.document.body.style[toCheck] !== 'undefined') {
      return toCheck;
    }
  }
  return null;
}

/**
 * Destroy the popper
 * @method
 * @memberof Popper
 */
function destroy() {
```

```
  this.state.isDestroyed = true;

  // touch DOM only if `applyStyle` modifier is enabled
  if (isModifierEnabled(this.modifiers, 'applyStyle')) {
    this.popper.removeAttribute('x-placement');
    this.popper.style.left = '';
    this.popper.style.position = '';
    this.popper.style.top = '';
    this.popper.style[getSupportedPropertyName('transform')] = '';
  }

  this.disableEventListeners();

  // remove the popper if user explicity asked for the deletion on destroy
  // do not use `remove` because IE11 doesn't support it
  if (this.options.removeOnDestroy) {
    this.popper.parentNode.removeChild(this.popper);
  }
  return this;
}

/**
 * Get the window associated with the element
 * @argument {Element} element
 * @returns {Window}
 */
function getWindow(element) {
  var ownerDocument = element.ownerDocument;
  return ownerDocument ? ownerDocument.defaultView : window;
}

function attachToScrollParents(scrollParent, event, callback, scrollParents) {
  var isBody = scrollParent.nodeName === 'BODY';
  var target = isBody ? scrollParent.ownerDocument.defaultView : scrollParent;
  target.addEventListener(event, callback, { passive: true });

  if (!isBody) {
    attachToScrollParents(getScrollParent(target.parentNode), event, callback, scrollParents);
  }
  scrollParents.push(target);
}

/**
 * Setup needed event listeners used to update the popper position
 * @method
 * @memberof Popper.Utils
```

```
 * @private
 */
function setupEventListeners(reference, options, state, updateBound) {
  // Resize event listener on window
  state.updateBound = updateBound;
  getWindow(reference).addEventListener('resize', state.updateBound, { passive: true });

  // Scroll event listener on scroll parents
  var scrollElement = getScrollParent(reference);
  attachToScrollParents(scrollElement, 'scroll', state.updateBound, state.scrollParents);
  state.scrollElement = scrollElement;
  state.eventsEnabled = true;

  return state;
}

/**
 * It will add resize/scroll events and start recalculating
 * position of the popper element when they are triggered.
 * @method
 * @memberof Popper
 */
function enableEventListeners() {
  if (!this.state.eventsEnabled) {
    this.state = setupEventListeners(this.reference, this.options, this.state, this.scheduleUpdate);
  }
}

/**
 * Remove event listeners used to update the popper position
 * @method
 * @memberof Popper.Utils
 * @private
 */
function removeEventListeners(reference, state) {
  // Remove resize event listener on window
  getWindow(reference).removeEventListener('resize', state.updateBound);

  // Remove scroll event listener on scroll parents
  state.scrollParents.forEach(function (target) {
    target.removeEventListener('scroll', state.updateBound);
  });

  // Reset state
  state.updateBound = null;
  state.scrollParents = [];
```

```
  state.scrollElement = null;
  state.eventsEnabled = false;
  return state;
}

/**
 * It will remove resize/scroll events and won't recalculate popper position
 * when they are triggered. It also won't trigger onUpdate callback anymore,
 * unless you call `update` method manually.
 * @method
 * @memberof Popper
 */
function disableEventListeners() {
  if (this.state.eventsEnabled) {
    window.cancelAnimationFrame(this.scheduleUpdate);
    this.state = removeEventListeners(this.reference, this.state);
  }
}

/**
 * Tells if a given input is a number
 * @method
 * @memberof Popper.Utils
 * @param {*} input to check
 * @return {Boolean}
 */
function isNumeric(n) {
  return n !== '' && !isNaN(parseFloat(n)) && isFinite(n);
}

/**
 * Set the style to the given popper
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element - Element to apply the style to
 * @argument {Object} styles
 * Object with a list of properties and values which will be applied to the element
 */
function setStyles(element, styles) {
  Object.keys(styles).forEach(function (prop) {
    var unit = '';
    // add unit if the value is numeric and is one of the following
    if (['width', 'height', 'top', 'right', 'bottom', 'left'].indexOf(prop) !== -1 &&
        isNumeric(styles[prop])) {
      unit = 'px';
    }
```

```
    element.style[prop] = styles[prop] + unit;
  });
}

/**
 * Set the attributes to the given popper
 * @method
 * @memberof Popper.Utils
 * @argument {Element} element - Element to apply the attributes to
 * @argument {Object} styles
 * Object with a list of properties and values which will be applied to the element
 */
function setAttributes(element, attributes) {
  Object.keys(attributes).forEach(function (prop) {
    var value = attributes[prop];
    if (value !== false) {
      element.setAttribute(prop, attributes[prop]);
    } else {
      element.removeAttribute(prop);
    }
  });
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} data.styles - List of style properties - values to apply to popper element
 * @argument {Object} data.attributes - List of attribute properties - values to apply to popper
          element
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The same data object
 */
function applyStyle(data) {
  // any property present in `data.styles` will be applied to the popper,
  // in this way we can make the 3rd party modifiers add custom styles to it
  // Be aware, modifiers could override the properties defined in the previous
  // lines of this modifier!
  setStyles(data.instance.popper, data.styles);

  // any property present in `data.attributes` will be applied to the popper,
  // they will be set as HTML attributes of the element
  setAttributes(data.instance.popper, data.attributes);

  // if arrowElement is defined and arrowStyles has some properties
  if (data.arrowElement && Object.keys(data.arrowStyles).length) {
```

```
    setStyles(data.arrowElement, data.arrowStyles);
  }

  return data;
}

/**
 * Set the x-placement attribute before everything else because it could be used
 * to add margins to the popper margins needs to be calculated to get the
 * correct popper offsets.
 * @method
 * @memberof Popper.modifiers
 * @param {HTMLElement} reference - The reference element used to position the popper
 * @param {HTMLElement} popper - The HTML element used as popper.
 * @param {Object} options - Popper.js options
 */
function applyStyleOnLoad(reference, popper, options, modifierOptions, state) {
  // compute reference element offsets
  var referenceOffsets = getReferenceOffsets(state, popper, reference);

  // compute auto placement, store placement inside the data object,
  // modifiers will be able to edit `placement` if needed
  // and refer to originalPlacement to know the original value
  var placement = computeAutoPlacement(options.placement, referenceOffsets, popper,
          reference, options.modifiers.flip.boundariesElement, options.modifiers.flip.padding);

  popper.setAttribute('x-placement', placement);

  // Apply `position` to popper before anything else because
  // without the position applied we can't guarantee correct computations
  setStyles(popper, { position: 'absolute' });

  return options;
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function computeStyle(data, options) {
  var x = options.x,
      y = options.y;
  var popper = data.offsets.popper;
```

```
// Remove this legacy support in Popper.js v2

var legacyGpuAccelerationOption = find(data.instance.modifiers, function (modifier) {
  return modifier.name === 'applyStyle';
}).gpuAcceleration;
if (legacyGpuAccelerationOption !== undefined) {
  console.warn('WARNING: `gpuAcceleration` option moved to `computeStyle` modifier and
        will not be supported in future versions of Popper.js!');
}
var gpuAcceleration = legacyGpuAccelerationOption !== undefined ?
        legacyGpuAccelerationOption : options.gpuAcceleration;

var offsetParent = getOffsetParent(data.instance.popper);
var offsetParentRect = getBoundingClientRect(offsetParent);

// Styles
var styles = {
  position: popper.position
};

// floor sides to avoid blurry text
var offsets = {
  left: Math.floor(popper.left),
  top: Math.floor(popper.top),
  bottom: Math.floor(popper.bottom),
  right: Math.floor(popper.right)
};

var sideA = x === 'bottom' ? 'top' : 'bottom';
var sideB = y === 'right' ? 'left' : 'right';

// if gpuAcceleration is set to `true` and transform is supported,
//  we use `translate3d` to apply the position to the popper we
// automatically use the supported prefixed version if needed
var prefixedProperty = getSupportedPropertyName('transform');

// now, let's make a step back and look at this code closely (wtf?)
// If the content of the popper grows once it's been positioned, it
// may happen that the popper gets misplaced because of the new content
// overflowing its reference element
// To avoid this problem, we provide two options (x and y), which allow
// the consumer to define the offset origin.
// If we position a popper on top of a reference element, we can set
// `x` to `top` to make the popper grow towards its top instead of
// its bottom.
```

```
  var left = void 0,
      top = void 0;
  if (sideA === 'bottom') {
    top = -offsetParentRect.height + offsets.bottom;
  } else {
    top = offsets.top;
  }
  if (sideB === 'right') {
    left = -offsetParentRect.width + offsets.right;
  } else {
    left = offsets.left;
  }
  if (gpuAcceleration && prefixedProperty) {
    styles[prefixedProperty] = 'translate3d(' + left + 'px, ' + top + 'px, 0)';
    styles[sideA] = 0;
    styles[sideB] = 0;
    styles.willChange = 'transform';
  } else {
    // othwerise, we use the standard `top`, `left`, `bottom` and `right` properties
    var invertTop = sideA === 'bottom' ? -1 : 1;
    var invertLeft = sideB === 'right' ? -1 : 1;
    styles[sideA] = top * invertTop;
    styles[sideB] = left * invertLeft;
    styles.willChange = sideA + ', ' + sideB;
  }

  // Attributes
  var attributes = {
    'x-placement': data.placement
  };

  // Update `data` attributes, styles and arrowStyles
  data.attributes = _extends({}, attributes, data.attributes);
  data.styles = _extends({}, styles, data.styles);
  data.arrowStyles = _extends({}, data.offsets.arrow, data.arrowStyles);

  return data;
}

/**
 * Helper used to know if the given modifier depends from another one.<br />
 * It checks if the needed modifier is listed and enabled.
 * @method
 * @memberof Popper.Utils
 * @param {Array} modifiers - list of modifiers
 * @param {String} requestingName - name of requesting modifier
```

```
 * @param {String} requestedName - name of requested modifier
 * @returns {Boolean}
 */
function isModifierRequired(modifiers, requestingName, requestedName) {
  var requesting = find(modifiers, function (_ref) {
    var name = _ref.name;
    return name === requestingName;
  });

  var isRequired = !!requesting && modifiers.some(function (modifier) {
    return modifier.name === requestedName && modifier.enabled && modifier.order <
        requesting.order;
  });

  if (!isRequired) {
    var _requesting = '`' + requestingName + '`';
    var requested = '`' + requestedName + '`';
    console.warn(requested + ' modifier is required by ' + _requesting + ' modifier in order to
        work, be sure to include it before ' + _requesting + '!');
  }
  return isRequired;
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by update method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function arrow(data, options) {
  // arrow depends on keepTogether in order to work
  if (!isModifierRequired(data.instance.modifiers, 'arrow', 'keepTogether')) {
    return data;
  }

  var arrowElement = options.element;

  // if arrowElement is a string, suppose it's a CSS selector
  if (typeof arrowElement === 'string') {
    arrowElement = data.instance.popper.querySelector(arrowElement);

    // if arrowElement is not found, don't run the modifier
    if (!arrowElement) {
      return data;
    }
```

```
} else {
  // if the arrowElement isn't a query selector we must check that the
  // provided DOM node is child of its popper node
  if (!data.instance.popper.contains(arrowElement)) {
    console.warn('WARNING: `arrow.element` must be child of its popper element!');
    return data;
  }
}

var placement = data.placement.split('-')[0];
var _data$offsets = data.offsets,
    popper = _data$offsets.popper,
    reference = _data$offsets.reference;

var isVertical = ['left', 'right'].indexOf(placement) !== -1;

var len = isVertical ? 'height' : 'width';
var sideCapitalized = isVertical ? 'Top' : 'Left';
var side = sideCapitalized.toLowerCase();
var altSide = isVertical ? 'left' : 'top';
var opSide = isVertical ? 'bottom' : 'right';
var arrowElementSize = getOuterSizes(arrowElement)[len];

//
// extends keepTogether behavior making sure the popper and its
// reference have enough pixels in conjuction
//

// top/left side
if (reference[opSide] - arrowElementSize < popper[side]) {
  data.offsets.popper[side] -= popper[side] - (reference[opSide] - arrowElementSize);
}
// bottom/right side
if (reference[side] + arrowElementSize > popper[opSide]) {
  data.offsets.popper[side] += reference[side] + arrowElementSize - popper[opSide];
}

// compute center of the popper
var center = reference[side] + reference[len] / 2 - arrowElementSize / 2;

// Compute the sideValue using the updated popper offsets
// take popper margin in account because we don't have this info available
var popperMarginSide = getStyleComputedProperty(data.instance.popper, 'margin' +
        sideCapitalized).replace('px', '');
var sideValue = center - getClientRect(data.offsets.popper)[side] - popperMarginSide;
```

```
  // prevent arrowElement from being placed not contiguously to its popper
  sideValue = Math.max(Math.min(popper[len] - arrowElementSize, sideValue), 0);

  data.arrowElement = arrowElement;
  data.offsets.arrow = {};
  data.offsets.arrow[side] = Math.round(sideValue);
  data.offsets.arrow[altSide] = ''; // make sure to unset any eventual altSide value from the DOM
        node

  return data;
}

/**
 * Get the opposite placement variation of the given one
 * @method
 * @memberof Popper.Utils
 * @argument {String} placement variation
 * @returns {String} flipped placement variation
 */
function getOppositeVariation(variation) {
  if (variation === 'end') {
    return 'start';
  } else if (variation === 'start') {
    return 'end';
  }
  return variation;
}

/**
 * List of accepted placements to use as values of the `placement` option.<br />
 * Valid placements are:
 * - `auto`
 * - `top`
 * - `right`
 * - `bottom`
 * - `left`
 *
 * Each placement can have a variation from this list:
 * - `-start`
 * - `-end`
 *
 * Variations are interpreted easily if you think of them as the left to right
 * written languages. Horizontally (`top` and `bottom`), `start` is left and `end`
 * is right.<br />
 * Vertically (`left` and `right`), `start` is top and `end` is bottom.
 *
```

```
 * Some valid examples are:
 * - `top-end` (on top of reference, right aligned)
 * - `right-start` (on right of reference, top aligned)
 * - `bottom` (on bottom, centered)
 * - `auto-right` (on the side with more space available, alignment depends by placement)
 *
 * @static
 * @type {Array}
 * @enum {String}
 * @readonly
 * @method placements
 * @memberof Popper
 */
var placements = ['auto-start', 'auto', 'auto-end', 'top-start', 'top', 'top-end', 'right-start', 'right',
        'right-end', 'bottom-end', 'bottom', 'bottom-start', 'left-end', 'left', 'left-start'];

// Get rid of `auto` `auto-start` and `auto-end`
var validPlacements = placements.slice(3);

/**
 * Given an initial placement, returns all the subsequent placements
 * clockwise (or counter-clockwise).
 *
 * @method
 * @memberof Popper.Utils
 * @argument {String} placement - A valid placement (it accepts variations)
 * @argument {Boolean} counter - Set to true to walk the placements counterclockwise
 * @returns {Array} placements including their variations
 */
function clockwise(placement) {
  var counter = arguments.length > 1 && arguments[1] !== undefined ? arguments[1] : false;

  var index = validPlacements.indexOf(placement);
  var arr = validPlacements.slice(index + 1).concat(validPlacements.slice(0, index));
  return counter ? arr.reverse() : arr;
}

var BEHAVIORS = {
  FLIP: 'flip',
  CLOCKWISE: 'clockwise',
  COUNTERCLOCKWISE: 'counterclockwise'
};

/**
 * @function
 * @memberof Modifiers
```

```
 * @argument {Object} data - The data object generated by update method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function flip(data, options) {
  // if `inner` modifier is enabled, we can't use the `flip` modifier
  if (isModifierEnabled(data.instance.modifiers, 'inner')) {
    return data;
  }

  if (data.flipped && data.placement === data.originalPlacement) {
    // seems like flip is trying to loop, probably there's not enough space on any of the flippable
        sides
    return data;
  }

  var boundaries = getBoundaries(data.instance.popper, data.instance.reference, options.padding,
        options.boundariesElement);

  var placement = data.placement.split('-')[0];
  var placementOpposite = getOppositePlacement(placement);
  var variation = data.placement.split('-')[1] || '';

  var flipOrder = [];

  switch (options.behavior) {
    case BEHAVIORS.FLIP:
      flipOrder = [placement, placementOpposite];
      break;
    case BEHAVIORS.CLOCKWISE:
      flipOrder = clockwise(placement);
      break;
    case BEHAVIORS.COUNTERCLOCKWISE:
      flipOrder = clockwise(placement, true);
      break;
    default:
      flipOrder = options.behavior;
  }

  flipOrder.forEach(function (step, index) {
    if (placement !== step || flipOrder.length === index + 1) {
      return data;
    }

    placement = data.placement.split('-')[0];
    placementOpposite = getOppositePlacement(placement);
```

```
var popperOffsets = data.offsets.popper;
var refOffsets = data.offsets.reference;

// using floor because the reference offsets may contain decimals we are not going to consider
      here
var floor = Math.floor;
var overlapsRef = placement === 'left' && floor(popperOffsets.right) > floor(refOffsets.left) ||
      placement === 'right' && floor(popperOffsets.left) < floor(refOffsets.right) || placement
      === 'top' && floor(popperOffsets.bottom) > floor(refOffsets.top) || placement ===
      'bottom' && floor(popperOffsets.top) < floor(refOffsets.bottom);

var overflowsLeft = floor(popperOffsets.left) < floor(boundaries.left);
var overflowsRight = floor(popperOffsets.right) > floor(boundaries.right);
var overflowsTop = floor(popperOffsets.top) < floor(boundaries.top);
var overflowsBottom = floor(popperOffsets.bottom) > floor(boundaries.bottom);

var overflowsBoundaries = placement === 'left' && overflowsLeft || placement === 'right'
      && overflowsRight || placement === 'top' && overflowsTop || placement === 'bottom'
      && overflowsBottom;

// flip the variation if required
var isVertical = ['top', 'bottom'].indexOf(placement) !== -1;
var flippedVariation = !!options.flipVariations && (isVertical && variation === 'start' &&
      overflowsLeft || isVertical && variation === 'end' && overflowsRight || !isVertical &&
      variation === 'start' && overflowsTop || !isVertical && variation === 'end' &&
      overflowsBottom);

if (overlapsRef || overflowsBoundaries || flippedVariation) {
  // this boolean to detect any flip loop
  data.flipped = true;

  if (overlapsRef || overflowsBoundaries) {
    placement = flipOrder[index + 1];
  }

  if (flippedVariation) {
    variation = getOppositeVariation(variation);
  }

  data.placement = placement + (variation ? '-' + variation : '');

  // this object contains `position`, we want to preserve it along with
  // any additional property we may add in the future
  data.offsets.popper = _extends({}, data.offsets.popper,
      getPopperOffsets(data.instance.popper, data.offsets.reference, data.placement));
```

```
      data = runModifiers(data.instance.modifiers, data, 'flip');
    }
  });
  return data;
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by update method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function keepTogether(data) {
  var _data$offsets = data.offsets,
      popper = _data$offsets.popper,
      reference = _data$offsets.reference;

  var placement = data.placement.split('-')[0];
  var floor = Math.floor;
  var isVertical = ['top', 'bottom'].indexOf(placement) !== -1;
  var side = isVertical ? 'right' : 'bottom';
  var opSide = isVertical ? 'left' : 'top';
  var measurement = isVertical ? 'width' : 'height';

  if (popper[side] < floor(reference[opSide])) {
    data.offsets.popper[opSide] = floor(reference[opSide]) - popper[measurement];
  }
  if (popper[opSide] > floor(reference[side])) {
    data.offsets.popper[opSide] = floor(reference[side]);
  }

  return data;
}

/**
 * Converts a string containing value + unit into a px value number
 * @function
 * @memberof {modifiers~offset}
 * @private
 * @argument {String} str - Value + unit string
 * @argument {String} measurement - `height` or `width`
 * @argument {Object} popperOffsets
 * @argument {Object} referenceOffsets
 * @returns {Number|String}
```

```
 * Value in pixels, or original string if no values were extracted
 */
function toValue(str, measurement, popperOffsets, referenceOffsets) {
  // separate value from unit
  var split = str.match(/((?:\-|\+)?\d*\.?\d*)(.*)/);
  var value = +split[1];
  var unit = split[2];

  // If it's not a number it's an operator, I guess
  if (!value) {
    return str;
  }

  if (unit.indexOf('%') === 0) {
    var element = void 0;
    switch (unit) {
      case '%p':
        element = popperOffsets;
        break;
      case '%':
      case '%r':
      default:
        element = referenceOffsets;
    }

    var rect = getClientRect(element);
    return rect[measurement] / 100 * value;
  } else if (unit === 'vh' || unit === 'vw') {
    // if is a vh or vw, we calculate the size based on the viewport
    var size = void 0;
    if (unit === 'vh') {
      size = Math.max(document.documentElement.clientHeight, window.innerHeight || 0);
    } else {
      size = Math.max(document.documentElement.clientWidth, window.innerWidth || 0);
    }
    return size / 100 * value;
  } else {
    // if is an explicit pixel unit, we get rid of the unit and keep the value
    // if is an implicit unit, it's px, and we return just the value
    return value;
  }
}

/**
 * Parse an `offset` string to extrapolate `x` and `y` numeric offsets.
 * @function
```

```
 * @memberof {modifiers~offset}
 * @private
 * @argument {String} offset
 * @argument {Object} popperOffsets
 * @argument {Object} referenceOffsets
 * @argument {String} basePlacement
 * @returns {Array} a two cells array with x and y offsets in numbers
 */
function parseOffset(offset, popperOffsets, referenceOffsets, basePlacement) {
  var offsets = [0, 0];

  // Use height if placement is left or right and index is 0 otherwise use width
  // in this way the first offset will use an axis and the second one
  // will use the other one
  var useHeight = ['right', 'left'].indexOf(basePlacement) !== -1;

  // Split the offset string to obtain a list of values and operands
  // The regex addresses values with the plus or minus sign in front (+10, -20, etc)
  var fragments = offset.split(/(\+|\-)/).map(function (frag) {
    return frag.trim();
  });

  // Detect if the offset string contains a pair of values or a single one
  // they could be separated by comma or space
  var divider = fragments.indexOf(find(fragments, function (frag) {
    return frag.search(/,|\s/) !== -1;
  }));

  if (fragments[divider] && fragments[divider].indexOf(',') === -1) {
    console.warn('Offsets separated by white space(s) are deprecated, use a comma (,) instead.');
  }

  // If divider is found, we divide the list of values and operands to divide
  // them by ofset X and Y.
  var splitRegex = /\s*,\s*|\s+/;
  var ops = divider !== -1 ? [fragments.slice(0,
          divider).concat([fragments[divider].split(splitRegex)[0]]),
          [fragments[divider].split(splitRegex)[1]].concat(fragments.slice(divider + 1))] :
          [fragments];

  // Convert the values with units to absolute pixels to allow our computations
  ops = ops.map(function (op, index) {
    // Most of the units rely on the orientation of the popper
    var measurement = (index === 1 ? !useHeight : useHeight) ? 'height' : 'width';
    var mergeWithPrevious = false;
    return op
```

```
    // This aggregates any `+` or `-` sign that aren't considered operators
    // e.g.: 10 + +5 => [10, +, +5]
    .reduce(function (a, b) {
      if (a[a.length - 1] === '' && ['+', '-'].indexOf(b) !== -1) {
        a[a.length - 1] = b;
        mergeWithPrevious = true;
        return a;
      } else if (mergeWithPrevious) {
        a[a.length - 1] += b;
        mergeWithPrevious = false;
        return a;
      } else {
        return a.concat(b);
      }
    }, [])
    // Here we convert the string values into number values (in px)
    .map(function (str) {
      return toValue(str, measurement, popperOffsets, referenceOffsets);
    });
  });

  // Loop trough the offsets arrays and execute the operations
  ops.forEach(function (op, index) {
    op.forEach(function (frag, index2) {
      if (isNumeric(frag)) {
        offsets[index] += frag * (op[index2 - 1] === '-' ? -1 : 1);
      }
    });
  });
  return offsets;
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by update method
 * @argument {Object} options - Modifiers configuration and options
 * @argument {Number|String} options.offset=0
 * The offset value as described in the modifier description
 * @returns {Object} The data object, properly modified
 */
function offset(data, _ref) {
  var offset = _ref.offset;
  var placement = data.placement,
      _data$offsets = data.offsets,
      popper = _data$offsets.popper,
```

```
    reference = _data$offsets.reference;

  var basePlacement = placement.split('-')[0];

  var offsets = void 0;
  if (isNumeric(+offset)) {
    offsets = [+offset, 0];
  } else {
    offsets = parseOffset(offset, popper, reference, basePlacement);
  }

  if (basePlacement === 'left') {
    popper.top += offsets[0];
    popper.left -= offsets[1];
  } else if (basePlacement === 'right') {
    popper.top += offsets[0];
    popper.left += offsets[1];
  } else if (basePlacement === 'top') {
    popper.left += offsets[0];
    popper.top -= offsets[1];
  } else if (basePlacement === 'bottom') {
    popper.left += offsets[0];
    popper.top += offsets[1];
  }

  data.popper = popper;
  return data;
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function preventOverflow(data, options) {
  var boundariesElement = options.boundariesElement || getOffsetParent(data.instance.popper);

  // If offsetParent is the reference element, we really want to
  // go one step up and use the next offsetParent as reference to
  // avoid to make this modifier completely useless and look like broken
  if (data.instance.reference === boundariesElement) {
    boundariesElement = getOffsetParent(boundariesElement);
  }
```

```
  var boundaries = getBoundaries(data.instance.popper, data.instance.reference, options.padding,
          boundariesElement);
  options.boundaries = boundaries;

  var order = options.priority;
  var popper = data.offsets.popper;

  var check = {
    primary: function primary(placement) {
      var value = popper[placement];
      if (popper[placement] < boundaries[placement] && !options.escapeWithReference) {
        value = Math.max(popper[placement], boundaries[placement]);
      }
      return defineProperty({}, placement, value);
    },
    secondary: function secondary(placement) {
      var mainSide = placement === 'right' ? 'left' : 'top';
      var value = popper[mainSide];
      if (popper[placement] > boundaries[placement] && !options.escapeWithReference) {
        value = Math.min(popper[mainSide], boundaries[placement] - (placement === 'right' ?
            popper.width : popper.height));
      }
      return defineProperty({}, mainSide, value);
    }
  };

  order.forEach(function (placement) {
    var side = ['left', 'top'].indexOf(placement) !== -1 ? 'primary' : 'secondary';
    popper = _extends({}, popper, check[side](placement));
  });

  data.offsets.popper = popper;

  return data;
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function shift(data) {
  var placement = data.placement;
  var basePlacement = placement.split('-')[0];
```

```
  var shiftvariation = placement.split('-')[1];

  // if shift shiftvariation is specified, run the modifier
  if (shiftvariation) {
    var _data$offsets = data.offsets,
        reference = _data$offsets.reference,
        popper = _data$offsets.popper;

    var isVertical = ['bottom', 'top'].indexOf(basePlacement) !== -1;
    var side = isVertical ? 'left' : 'top';
    var measurement = isVertical ? 'width' : 'height';

    var shiftOffsets = {
      start: defineProperty({}, side, reference[side]),
      end: defineProperty({}, side, reference[side] + reference[measurement] -
          popper[measurement])
    };

    data.offsets.popper = _extends({}, popper, shiftOffsets[shiftvariation]);
  }

  return data;
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by update method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function hide(data) {
  if (!isModifierRequired(data.instance.modifiers, 'hide', 'preventOverflow')) {
    return data;
  }

  var refRect = data.offsets.reference;
  var bound = find(data.instance.modifiers, function (modifier) {
    return modifier.name === 'preventOverflow';
  }).boundaries;

  if (refRect.bottom < bound.top || refRect.left > bound.right || refRect.top > bound.bottom ||
        refRect.right < bound.left) {
    // Avoid unnecessary DOM access if visibility hasn't changed
    if (data.hide === true) {
      return data;
```

```
    }

    data.hide = true;
    data.attributes['x-out-of-boundaries'] = '';
  } else {
    // Avoid unnecessary DOM access if visibility hasn't changed
    if (data.hide === false) {
      return data;
    }

    data.hide = false;
    data.attributes['x-out-of-boundaries'] = false;
  }

  return data;
}

/**
 * @function
 * @memberof Modifiers
 * @argument {Object} data - The data object generated by `update` method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {Object} The data object, properly modified
 */
function inner(data) {
  var placement = data.placement;
  var basePlacement = placement.split('-')[0];
  var _data$offsets = data.offsets,
      popper = _data$offsets.popper,
      reference = _data$offsets.reference;

  var isHoriz = ['left', 'right'].indexOf(basePlacement) !== -1;

  var subtractLength = ['top', 'left'].indexOf(basePlacement) === -1;

  popper[isHoriz ? 'left' : 'top'] = reference[basePlacement] - (subtractLength ? popper[isHoriz ?
          'width' : 'height'] : 0);

  data.placement = getOppositePlacement(placement);
  data.offsets.popper = getClientRect(popper);

  return data;
}

/**
 * Modifier function, each modifier can have a function of this type assigned
```

```
 * to its `fn` property.<br />
 * These functions will be called on each update, this means that you must
 * make sure they are performant enough to avoid performance bottlenecks.
 *
 * @function ModifierFn
 * @argument {dataObject} data - The data object generated by `update` method
 * @argument {Object} options - Modifiers configuration and options
 * @returns {dataObject} The data object, properly modified
 */

/**
 * Modifiers are plugins used to alter the behavior of your poppers.<br />
 * Popper.js uses a set of 9 modifiers to provide all the basic functionalities
 * needed by the library.
 *
 * Usually you don't want to override the `order`, `fn` and `onLoad` props.
 * All the other properties are configurations that could be tweaked.
 * @namespace modifiers
 */
var modifiers = {
  /**
   * Modifier used to shift the popper on the start or end of its reference
   * element.<br />
   * It will read the variation of the `placement` property.<br />
   * It can be one either `-end` or `-start`.
   * @memberof modifiers
   * @inner
   */
  shift: {
    /** @prop {number} order=100 - Index used to define the order of execution */
    order: 100,
    /** @prop {Boolean} enabled=true - Whether the modifier is enabled or not */
    enabled: true,
    /** @prop {ModifierFn} */
    fn: shift
  },

  /**
   * The `offset` modifier can shift your popper on both its axis.
   *
   * It accepts the following units:
   * - `px` or unitless, interpreted as pixels
   * - `%` or `%r`, percentage relative to the length of the reference element
   * - `%p`, percentage relative to the length of the popper element
   * - `vw`, CSS viewport width unit
   * - `vh`, CSS viewport height unit
```

```
 *
 * For length is intended the main axis relative to the placement of the popper.<br />
 * This means that if the placement is `top` or `bottom`, the length will be the
 * `width`. In case of `left` or `right`, it will be the height.
 *
 * You can provide a single value (as `Number` or `String`), or a pair of values
 * as `String` divided by a comma or one (or more) white spaces.<br />
 * The latter is a deprecated method because it leads to confusion and will be
 * removed in v2.<br />
 * Additionally, it accepts additions and subtractions between different units.
 * Note that multiplications and divisions aren't supported.
 *
 * Valid examples are:
 * ```
 * 10
 * '10%'
 * '10, 10'
 * '10%, 10'
 * '10 + 10%'
 * '10 - 5vh + 3%'
 * '-10px + 5vh, 5px - 6%'
 * ```
 * > **NB**: If you desire to apply offsets to your poppers in a way that may make them
       overlap
 * > with their reference element, unfortunately, you will have to disable the `flip` modifier.
 * > More on this [reading this issue](https://github.com/FezVrasta/popper.js/issues/373)
 *
 * @memberof modifiers
 * @inner
 */
offset: {
  /** @prop {number} order=200 - Index used to define the order of execution */
  order: 200,
  /** @prop {Boolean} enabled=true - Whether the modifier is enabled or not */
  enabled: true,
  /** @prop {ModifierFn} */
  fn: offset,
  /** @prop {Number|String} offset=0
   * The offset value as described in the modifier description
   */
  offset: 0
},

/**
 * Modifier used to prevent the popper from being positioned outside the boundary.
 *
```

```
 * An scenario exists where the reference itself is not within the boundaries.<br />
 * We can say it has "escaped the boundaries" — or just "escaped".<br />
 * In this case we need to decide whether the popper should either:
 *
 * - detach from the reference and remain "trapped" in the boundaries, or
 * - if it should ignore the boundary and "escape with its reference"
 *
 * When `escapeWithReference` is set to`true` and reference is completely
 * outside its boundaries, the popper will overflow (or completely leave)
 * the boundaries in order to remain attached to the edge of the reference.
 *
 * @memberof modifiers
 * @inner
 */
preventOverflow: {
  /** @prop {number} order=300 - Index used to define the order of execution */
  order: 300,
  /** @prop {Boolean} enabled=true - Whether the modifier is enabled or not */
  enabled: true,
  /** @prop {ModifierFn} */
  fn: preventOverflow,
  /**
   * @prop {Array} [priority=['left','right','top','bottom']]
   * Popper will try to prevent overflow following these priorities by default,
   * then, it could overflow on the left and on top of the `boundariesElement`
   */
  priority: ['left', 'right', 'top', 'bottom'],
  /**
   * @prop {number} padding=5
   * Amount of pixel used to define a minimum distance between the boundaries
   * and the popper this makes sure the popper has always a little padding
   * between the edges of its container
   */
  padding: 5,
  /**
   * @prop {String|HTMLElement} boundariesElement='scrollParent'
   * Boundaries used by the modifier, can be `scrollParent`, `window`,
   * `viewport` or any DOM element.
   */
  boundariesElement: 'scrollParent'
},

/**
 * Modifier used to make sure the reference and its popper stay near eachothers
 * without leaving any gap between the two. Expecially useful when the arrow is
 * enabled and you want to assure it to point to its reference element.
```

```
 * It cares only about the first axis, you can still have poppers with margin
 * between the popper and its reference element.
 * @memberof modifiers
 * @inner
 */
keepTogether: {
  /** @prop {number} order=400 - Index used to define the order of execution */
  order: 400,
  /** @prop {Boolean} enabled=true - Whether the modifier is enabled or not */
  enabled: true,
  /** @prop {ModifierFn} */
  fn: keepTogether
},

/**
 * This modifier is used to move the `arrowElement` of the popper to make
 * sure it is positioned between the reference element and its popper element.
 * It will read the outer size of the `arrowElement` node to detect how many
 * pixels of conjuction are needed.
 *
 * It has no effect if no `arrowElement` is provided.
 * @memberof modifiers
 * @inner
 */
arrow: {
  /** @prop {number} order=500 - Index used to define the order of execution */
  order: 500,
  /** @prop {Boolean} enabled=true - Whether the modifier is enabled or not */
  enabled: true,
  /** @prop {ModifierFn} */
  fn: arrow,
  /** @prop {String|HTMLElement} element='[x-arrow]' - Selector or node used as arrow */
  element: '[x-arrow]'
},

/**
 * Modifier used to flip the popper's placement when it starts to overlap its
 * reference element.
 *
 * Requires the `preventOverflow` modifier before it in order to work.
 *
 * **NOTE:** this modifier will interrupt the current update cycle and will
 * restart it if it detects the need to flip the placement.
 * @memberof modifiers
 * @inner
 */
```

```
flip: {
  /** @prop {number} order=600 - Index used to define the order of execution */
  order: 600,
  /** @prop {Boolean} enabled=true - Whether the modifier is enabled or not */
  enabled: true,
  /** @prop {ModifierFn} */
  fn: flip,
  /**
   * @prop {String|Array} behavior='flip'
   * The behavior used to change the popper's placement. It can be one of
   * `flip`, `clockwise`, `counterclockwise` or an array with a list of valid
   * placements (with optional variations).
   */
  behavior: 'flip',
  /**
   * @prop {number} padding=5
   * The popper will flip if it hits the edges of the `boundariesElement`
   */
  padding: 5,
  /**
   * @prop {String|HTMLElement} boundariesElement='viewport'
   * The element which will define the boundaries of the popper position,
   * the popper will never be placed outside of the defined boundaries
   * (except if keepTogether is enabled)
   */
  boundariesElement: 'viewport'
},

/**
 * Modifier used to make the popper flow toward the inner of the reference element.
 * By default, when this modifier is disabled, the popper will be placed outside
 * the reference element.
 * @memberof modifiers
 * @inner
 */
inner: {
  /** @prop {number} order=700 - Index used to define the order of execution */
  order: 700,
  /** @prop {Boolean} enabled=false - Whether the modifier is enabled or not */
  enabled: false,
  /** @prop {ModifierFn} */
  fn: inner
},

/**
 * Modifier used to hide the popper when its reference element is outside of the
```

```
 * popper boundaries. It will set a `x-out-of-boundaries` attribute which can
 * be used to hide with a CSS selector the popper when its reference is
 * out of boundaries.
 *
 * Requires the `preventOverflow` modifier before it in order to work.
 * @memberof modifiers
 * @inner
 */
hide: {
  /** @prop {number} order=800 - Index used to define the order of execution */
  order: 800,
  /** @prop {Boolean} enabled=true - Whether the modifier is enabled or not */
  enabled: true,
  /** @prop {ModifierFn} */
  fn: hide
},

/**
 * Computes the style that will be applied to the popper element to gets
 * properly positioned.
 *
 * Note that this modifier will not touch the DOM, it just prepares the styles
 * so that `applyStyle` modifier can apply it. This separation is useful
 * in case you need to replace `applyStyle` with a custom implementation.
 *
 * This modifier has `850` as `order` value to maintain backward compatibility
 * with previous versions of Popper.js. Expect the modifiers ordering method
 * to change in future major versions of the library.
 *
 * @memberof modifiers
 * @inner
 */
computeStyle: {
  /** @prop {number} order=850 - Index used to define the order of execution */
  order: 850,
  /** @prop {Boolean} enabled=true - Whether the modifier is enabled or not */
  enabled: true,
  /** @prop {ModifierFn} */
  fn: computeStyle,
  /**
   * @prop {Boolean} gpuAcceleration=true
   * If true, it uses the CSS 3d transformation to position the popper.
   * Otherwise, it will use the `top` and `left` properties.
   */
  gpuAcceleration: true,
  /**
```

```
    * @prop {string} [x='bottom']
    * Where to anchor the X axis (`bottom` or `top`). AKA X offset origin.
    * Change this if your popper should grow in a direction different from `bottom`
    */
   x: 'bottom',
   /**
    * @prop {string} [x='left']
    * Where to anchor the Y axis (`left` or `right`). AKA Y offset origin.
    * Change this if your popper should grow in a direction different from `right`
    */
   y: 'right'
  },

  /**
   * Applies the computed styles to the popper element.
   *
   * All the DOM manipulations are limited to this modifier. This is useful in case
   * you want to integrate Popper.js inside a framework or view library and you
   * want to delegate all the DOM manipulations to it.
   *
   * Note that if you disable this modifier, you must make sure the popper element
   * has its position set to `absolute` before Popper.js can do its work!
   *
   * Just disable this modifier and define you own to achieve the desired effect.
   *
   * @memberof modifiers
   * @inner
   */
  applyStyle: {
   /** @prop {number} order=900 - Index used to define the order of execution */
   order: 900,
   /** @prop {Boolean} enabled=true - Whether the modifier is enabled or not */
   enabled: true,
   /** @prop {ModifierFn} */
   fn: applyStyle,
   /** @prop {Function} */
   onLoad: applyStyleOnLoad,
   /**
    * @deprecated since version 1.10.0, the property moved to `computeStyle` modifier
    * @prop {Boolean} gpuAcceleration=true
    * If true, it uses the CSS 3d transformation to position the popper.
    * Otherwise, it will use the `top` and `left` properties.
    */
   gpuAcceleration: undefined
  }
 };
```

```
/**
 * The `dataObject` is an object containing all the informations used by Popper.js
 * this object get passed to modifiers and to the `onCreate` and `onUpdate` callbacks.
 * @name dataObject
 * @property {Object} data.instance The Popper.js instance
 * @property {String} data.placement Placement applied to popper
 * @property {String} data.originalPlacement Placement originally defined on init
 * @property {Boolean} data.flipped True if popper has been flipped by flip modifier
 * @property {Boolean} data.hide True if the reference element is out of boundaries, useful to
       know when to hide the popper.
 * @property {HTMLElement} data.arrowElement Node used as arrow by arrow modifier
 * @property {Object} data.styles Any CSS property defined here will be applied to the popper,
       it expects the JavaScript nomenclature (eg. `marginBottom`)
 * @property {Object} data.arrowStyles Any CSS property defined here will be applied to the
       popper arrow, it expects the JavaScript nomenclature (eg. `marginBottom`)
 * @property {Object} data.boundaries Offsets of the popper boundaries
 * @property {Object} data.offsets The measurements of popper, reference and arrow elements.
 * @property {Object} data.offsets.popper `top`, `left`, `width`, `height` values
 * @property {Object} data.offsets.reference `top`, `left`, `width`, `height` values
 * @property {Object} data.offsets.arrow] `top` and `left` offsets, only one of them will be
       different from 0
 */

/**
 * Default options provided to Popper.js constructor.<br />
 * These can be overriden using the `options` argument of Popper.js.<br />
 * To override an option, simply pass as 3rd argument an object with the same
 * structure of this object, example:
 * ```
 * new Popper(ref, pop, {
 *   modifiers: {
 *     preventOverflow: { enabled: false }
 *   }
 * })
 * ```
 * @type {Object}
 * @static
 * @memberof Popper
 */
var Defaults = {
  /**
   * Popper's placement
   * @prop {Popper.placements} placement='bottom'
   */
  placement: 'bottom',
```

```
  /**
   * Whether events (resize, scroll) are initially enabled
   * @prop {Boolean} eventsEnabled=true
   */
  eventsEnabled: true,

  /**
   * Set to true if you want to automatically remove the popper when
   * you call the `destroy` method.
   * @prop {Boolean} removeOnDestroy=false
   */
  removeOnDestroy: false,

  /**
   * Callback called when the popper is created.<br />
   * By default, is set to no-op.<br />
   * Access Popper.js instance with `data.instance`.
   * @prop {onCreate}
   */
  onCreate: function onCreate() {},

  /**
   * Callback called when the popper is updated, this callback is not called
   * on the initialization/creation of the popper, but only on subsequent
   * updates.<br />
   * By default, is set to no-op.<br />
   * Access Popper.js instance with `data.instance`.
   * @prop {onUpdate}
   */
  onUpdate: function onUpdate() {},

  /**
   * List of modifiers used to modify the offsets before they are applied to the popper.
   * They provide most of the functionalities of Popper.js
   * @prop {modifiers}
   */
  modifiers: modifiers
};

/**
 * @callback onCreate
 * @param {dataObject} data
 */

/**
```

```
 * @callback onUpdate
 * @param {dataObject} data
 */

// Utils
// Methods
var Popper = function () {
  /**
   * Create a new Popper.js instance
   * @class Popper
   * @param {HTMLElement|referenceObject} reference - The reference element used to
        position the popper
   * @param {HTMLElement} popper - The HTML element used as popper.
   * @param {Object} options - Your custom options to override the ones defined in
        [Defaults](#defaults)
   * @return {Object} instance - The generated Popper.js instance
   */
  function Popper(reference, popper) {
    var _this = this;

    var options = arguments.length > 2 && arguments[2] !== undefined ? arguments[2] : {};
    classCallCheck(this, Popper);

    this.scheduleUpdate = function () {
      return requestAnimationFrame(_this.update);
    };

    // make update() debounced, so that it only runs at most once-per-tick
    this.update = debounce(this.update.bind(this));

    // with {} we create a new object with the options inside it
    this.options = _extends({}, Popper.Defaults, options);

    // init state
    this.state = {
      isDestroyed: false,
      isCreated: false,
      scrollParents: []
    };

    // get reference and popper elements (allow jQuery wrappers)
    this.reference = reference && reference.jquery ? reference[0] : reference;
    this.popper = popper && popper.jquery ? popper[0] : popper;

    // Deep merge modifiers options
    this.options.modifiers = {};
```

```
  Object.keys(_extends({}, Popper.Defaults.modifiers, options.modifiers)).forEach(function
      (name) {
    _this.options.modifiers[name] = _extends({}, Popper.Defaults.modifiers[name] || {},
      options.modifiers ? options.modifiers[name] : {});
  });

  // Refactoring modifiers' list (Object => Array)
  this.modifiers = Object.keys(this.options.modifiers).map(function (name) {
    return _extends({
      name: name
    }, _this.options.modifiers[name]);
  })
  // sort the modifiers by order
  .sort(function (a, b) {
    return a.order - b.order;
  });

  // modifiers have the ability to execute arbitrary code when Popper.js get inited
  // such code is executed in the same order of its modifier
  // they could add new properties to their options configuration
  // BE AWARE: don't add options to `options.modifiers.name` but to `modifierOptions`!
  this.modifiers.forEach(function (modifierOptions) {
    if (modifierOptions.enabled && isFunction(modifierOptions.onLoad)) {
      modifierOptions.onLoad(_this.reference, _this.popper, _this.options, modifierOptions,
        _this.state);
    }
  });

  // fire the first update to position the popper in the right place
  this.update();

  var eventsEnabled = this.options.eventsEnabled;
  if (eventsEnabled) {
    // setup event listeners, they will take care of update the position in specific situations
    this.enableEventListeners();
  }

  this.state.eventsEnabled = eventsEnabled;
}

// We can't use class properties because they don't get listed in the
// class prototype and break stuff like Sinon stubs


createClass(Popper, [{
  key: 'update',
```

```
    value: function update$$1() {
      return update.call(this);
    }
  }, {
    key: 'destroy',
    value: function destroy$$1() {
      return destroy.call(this);
    }
  }, {
    key: 'enableEventListeners',
    value: function enableEventListeners$$1() {
      return enableEventListeners.call(this);
    }
  }, {
    key: 'disableEventListeners',
    value: function disableEventListeners$$1() {
      return disableEventListeners.call(this);
    }

    /**
     * Schedule an update, it will run on the next UI update available
     * @method scheduleUpdate
     * @memberof Popper
     */


    /**
     * Collection of utilities useful when writing custom modifiers.
     * Starting from version 1.7, this method is available only if you
     * include `popper-utils.js` before `popper.js`.
     *
     * **DEPRECATION**: This way to access PopperUtils is deprecated
     * and will be removed in v2! Use the PopperUtils module directly instead.
     * Due to the high instability of the methods contained in Utils, we can't
     * guarantee them to follow semver. Use them at your own risk!
     * @static
     * @private
     * @type {Object}
     * @deprecated since version 1.8
     * @member Utils
     * @memberof Popper
     */

  }]);
  return Popper;
}();
```

```
/**
 * The `referenceObject` is an object that provides an interface compatible with Popper.js
 * and lets you use it as replacement of a real DOM node.<br />
 * You can use this method to position a popper relatively to a set of coordinates
 * in case you don't have a DOM node to use as reference.
 *
 * ```
 * new Popper(referenceObject, popperNode);
 * ```
 *
 * NB: This feature isn't supported in Internet Explorer 10
 * @name referenceObject
 * @property {Function} data.getBoundingClientRect
 * A function that returns a set of coordinates compatible with the native
        `getBoundingClientRect` method.
 * @property {number} data.clientWidth
 * An ES6 getter that will return the width of the virtual reference element.
 * @property {number} data.clientHeight
 * An ES6 getter that will return the height of the virtual reference element.
 */


Popper.Utils = (typeof window !== 'undefined' ? window : global).PopperUtils;
Popper.placements = placements;
Popper.Defaults = Defaults;

/* harmony default export */ __webpack_exports__["default"] = (Popper);
//# sourceMappingURL=popper.js.map

/* WEBPACK VAR INJECTION */}.call(__webpack_exports__, __webpack_require__(17)));

/***/ }),
/* 200 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/core/icons/MdArrowRightIc
        on.vue
var MdArrowRightIcon = __webpack_require__(201);
var MdArrowRightIcon_default =
        /*#__PURE__*/__webpack_require__.n(MdArrowRightIcon);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
```

```
        1e23e1bf","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/core/icons/MdArrowRigh
        tIcon.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm._m(0)
};
var staticRenderFns = [
  function() {
    var _vm = this;
    var _h = _vm.$createElement;
    var _c = _vm._self._c || _h;
    return _c("md-icon", { staticClass: "md-icon-image" }, [
      _c(
        "svg",
        {
          attrs: {
            height: "24",
            viewBox: "0 0 24 24",
            width: "24",
            xmlns: "http://www.w3.org/2000/svg"
          }
        },
        [
          _c("path", {
            attrs: { d: "M8.59 16.34l4.58-4.59-4.58-4.59L10 5.75l6 6-6 6z" }
          }),
          _vm._v(" "),
          _c("path", { attrs: { d: "M0-.25h24v24H0z", fill: "none" } })
        ]
      )
    ])
  }
];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var icons_MdArrowRightIcon = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
```

```
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdArrowRightIcon_default.a,
  icons_MdArrowRightIcon,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/core/icons/MdArrowRightIcon.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var core_icons_MdArrowRightIcon =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 201 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdIcon = __webpack_require__(5);

var _MdIcon2 = _interopRequireDefault(_MdIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdArrowRightIcon',
  components: {
    MdIcon: _MdIcon2.default
  }
}; //
//
//
```

```
//
//
//
//
//
//

/***/ }),
/* 202 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/core/icons/MdArrowLeftIco
        n.vue
var MdArrowLeftIcon = __webpack_require__(203);
var MdArrowLeftIcon_default = /*#__PURE__*/__webpack_require__.n(MdArrowLeftIcon);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        5cc7b6f4","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/core/icons/MdArrowLeftI
        con.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm._m(0)
};
var staticRenderFns = [
  function() {
    var _vm = this;
    var _h = _vm.$createElement;
    var _c = _vm._self._c || _h;
    return _c("md-icon", { staticClass: "md-icon-image" }, [
      _c(
        "svg",
        {
          attrs: {
            height: "24",
            viewBox: "0 0 24 24",
            width: "24",
            xmlns: "http://www.w3.org/2000/svg"
          }
        },
        [
```

```
        _c("path", {
          attrs: { d: "M15.41 16.09l-4.58-4.59 4.58-4.59L14 5.5l-6 6 6 6z" }
        }),
        _vm._v(" "),
        _c("path", { attrs: { d: "M0-.5h24v24H0z", fill: "none" } })
      ]
    )
  ])
}
];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var icons_MdArrowLeftIcon = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
 var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
 MdArrowLeftIcon_default.a,
 icons_MdArrowLeftIcon,
 __vue_template_functional__,
 __vue_styles__,
 __vue_scopeId__,
 __vue_module_identifier__
);
Component.options.__file = "src/core/icons/MdArrowLeftIcon.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var core_icons_MdArrowLeftIcon =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 203 */
/***/ (function(module, exports, __webpack_require__) {
```

```
Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdIcon = __webpack_require__(5);

var _MdIcon2 = _interopRequireDefault(_MdIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdArrowLeftIcon',
  components: {
    MdIcon: _MdIcon2.default
  }
}; //
//
//
//
//
//
//
//
//

/***/ }),
/* 204 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 205 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);
```

```
var _MdPortal = __webpack_require__(16);

var _MdPortal2 = _interopRequireDefault(_MdPortal);

var _MdOverlay = __webpack_require__(23);

var _MdOverlay2 = _interopRequireDefault(_MdOverlay);

var _MdFocusTrap = __webpack_require__(40);

var _MdFocusTrap2 = _interopRequireDefault(_MdFocusTrap);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; } //
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//

exports.default = new _MdComponent2.default({
  name: 'MdDialog',
  components: {
    MdPortal: _MdPortal2.default,
    MdOverlay: _MdOverlay2.default,
    MdFocusTrap: _MdFocusTrap2.default
  },
  props: {
```

```
  mdActive: Boolean,
  mdBackdrop: {
    type: Boolean,
    default: true
  },
  mdBackdropClass: {
    type: String,
    default: 'md-dialog-overlay'
  },
  mdCloseOnEsc: {
    type: Boolean,
    default: true
  },
  mdClickOutsideToClose: {
    type: Boolean,
    default: true
  },
  mdFullscreen: {
    type: Boolean,
    default: true
  },
  mdAnimateFromSource: Boolean
},
computed: {
  dialogClasses: function dialogClasses() {
    return {
      'md-dialog-fullscreen': this.mdFullscreen
    };
  }
},
watch: {
  mdActive: function () {
    var _ref = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function
        _callee(isActive) {
      return regeneratorRuntime.wrap(function _callee$(_context) {
        var this$1 = this;

        while (1) {
          switch (_context.prev = _context.next) {
            case 0:
              _context.next = 2;
              return this$1.$nextTick();

            case 2:

              if (isActive) {
```

```
              this$1.$emit('md-opened');
            } else {
              this$1.$emit('md-closed');
            }

          case 3:
          case 'end':
            return _context.stop();
        }
      }
    }, _callee, this);
  }));

  function mdActive(_x) {
    return _ref.apply(this, arguments);
  }

  return mdActive;
 }()
},
methods: {
 closeDialog: function closeDialog() {
  this.$emit('update:mdActive', false);
 },
 onClick: function onClick() {
  if (this.mdClickOutsideToClose) {
   this.closeDialog();
  }
 },
 onEsc: function onEsc() {
  if (this.mdCloseOnEsc) {
   this.closeDialog();
  }
 }
}
});

/***/ }),
/* 206 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/core/icons/MdDateIcon.vue
var MdDateIcon = __webpack_require__(207);
var MdDateIcon_default = /*#__PURE__*/__webpack_require__.n(MdDateIcon);
```

```
// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        644b79cc","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/core/icons/MdDateIcon.v
        ue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm._m(0)
};
var staticRenderFns = [
  function() {
    var _vm = this;
    var _h = _vm.$createElement;
    var _c = _vm._self._c || _h;
    return _c("md-icon", { staticClass: "md-icon-image" }, [
      _c(
        "svg",
        {
          attrs: {
            height: "24",
            viewBox: "0 0 24 24",
            width: "24",
            xmlns: "http://www.w3.org/2000/svg"
          }
        },
        [
          _c("path", {
            attrs: {
              d:
                "M17 12h-5v5h5v-5zM16 1v2H8V1H6v2H5c-1.11 0-1.99.9-1.99 2L3 19c0 1.1.89 2 2
            2h14c1.1 0 2-.9 2-2V5c0-1.1-.9-2-2-2h-1V1h-2zm3 18H5V8h14v11z"
            }
          }),
          _vm._v(" "),
          _c("path", { attrs: { d: "M0 0h24v24H0z", fill: "none" } })
        ]
      )
    ])
  }
];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var icons_MdDateIcon = (esExports);
```

```
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdDateIcon_default.a,
  icons_MdDateIcon,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/core/icons/MdDateIcon.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var core_icons_MdDateIcon = __webpack_exports__["default"] =
        (Component.exports);


/***/ }),
/* 207 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdIcon = __webpack_require__(5);

var _MdIcon2 = _interopRequireDefault(_MdIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
```

```
  name: 'MdDateIcon',
  components: {
    MdIcon: _MdIcon2.default
  }
}; //
//
//
//
//
//
//
//
//

/***/ }),
/* 208 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdDialog = __webpack_require__(10);

var _MdDialog2 = _interopRequireDefault(_MdDialog);

var _MdDialogTitle = __webpack_require__(209);

var _MdDialogTitle2 = _interopRequireDefault(_MdDialogTitle);

var _MdDialogContent = __webpack_require__(212);

var _MdDialogContent2 = _interopRequireDefault(_MdDialogContent);

var _MdDialogActions = __webpack_require__(215);

var _MdDialogActions2 = _interopRequireDefault(_MdDialogActions);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
```

```
  (0, _material2.default)(Vue);
  Vue.component(_MdDialog2.default.name, _MdDialog2.default);
  Vue.component(_MdDialogTitle2.default.name, _MdDialogTitle2.default);
  Vue.component(_MdDialogContent2.default.name, _MdDialogContent2.default);
  Vue.component(_MdDialogActions2.default.name, _MdDialogActions2.default);
};

/***/ }),
/* 209 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdDialog/MdD
        ialogTitle.vue
var MdDialogTitle = __webpack_require__(211);
var MdDialogTitle_default = /*#__PURE__*/__webpack_require__.n(MdDialogTitle);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        879275ce","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdDialog/M
        dDialogTitle.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "span",
    { staticClass: "md-dialog-title md-title" },
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdDialog_MdDialogTitle = (esExports);
// CONCATENATED MODULE: ./src/components/MdDialog/MdDialogTitle.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(210);
}
var normalizeComponent = __webpack_require__(0);
/* script */
```

```
/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdDialogTitle_default.a,
  MdDialog_MdDialogTitle,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdDialog/MdDialogTitle.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdDialog_MdDialogTitle =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 210 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 211 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
```

```
//
//

exports.default = {
  name: 'MdDialogTitle'
};

/***/ }),
/* 212 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdDialog/MdD
        ialogContent.vue
var MdDialogContent = __webpack_require__(214);
var MdDialogContent_default = /*#__PURE__*/__webpack_require__.n(MdDialogContent);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        dae90f0c","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdDialog/M
        dDialogContent.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c("div", { staticClass: "md-dialog-content" }, [_vm._t("default")], 2)
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdDialog_MdDialogContent = (esExports);
// CONCATENATED MODULE: ./src/components/MdDialog/MdDialogContent.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(213);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
```

```
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdDialogContent_default.a,
  MdDialog_MdDialogContent,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdDialog/MdDialogContent.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdDialog_MdDialogContent =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 213 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 214 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
//

exports.default = {
  name: 'MdDialogContent'
```

```
};

/***/ }),
/* 215 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdDialog/MdD
        ialogActions.vue
var MdDialogActions = __webpack_require__(217);
var MdDialogActions_default = /*#__PURE__*/__webpack_require__.n(MdDialogActions);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        092eaafe","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdDialog/M
        dDialogActions.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c("div", { staticClass: "md-dialog-actions" }, [_vm._t("default")], 2)
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdDialog_MdDialogActions = (esExports);
// CONCATENATED MODULE: ./src/components/MdDialog/MdDialogActions.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(216);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
```

```
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdDialogActions_default.a,
  MdDialog_MdDialogActions,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdDialog/MdDialogActions.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdDialog_MdDialogActions =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 216 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 217 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
//

exports.default = {
  name: 'MdDialogActions'
};

/***/ }),
/* 218 */
/***/ (function(module, exports, __webpack_require__) {
```

```
Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdDialog = __webpack_require__(10);

var _MdDialog2 = _interopRequireDefault(_MdDialog);

var _MdDialogAlert = __webpack_require__(219);

var _MdDialogAlert2 = _interopRequireDefault(_MdDialogAlert);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdDialog2.default.name, _MdDialog2.default);
  Vue.component(_MdDialogAlert2.default.name, _MdDialogAlert2.default);
};

/***/ }),
/* 219 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdDialog/MdD
        ialogAlert/MdDialogAlert.vue
var MdDialogAlert = __webpack_require__(220);
var MdDialogAlert_default = /*#__PURE__*/__webpack_require__.n(MdDialogAlert);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        197ab94b","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdDialog/M
        dDialogAlert/MdDialogAlert.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
```

```
  return _c(
    "md-dialog",
    _vm._g(
      _vm._b(
        { attrs: { "md-fullscreen": false } },
        "md-dialog",
        _vm.$attrs,
        false
      ),
      _vm.$listeners
    ),
    [
      _vm.mdTitle
        ? _c("md-dialog-title", [_vm._v(_vm._s(_vm.mdTitle))])
        : _vm._e(),
      _vm._v(" "),
      _vm.mdContent
        ? _c("md-dialog-content", {
            domProps: { innerHTML: _vm._s(_vm.mdContent) }
          })
        : _vm._e(),
      _vm._v(" "),
      _c(
        "md-dialog-actions",
        [
          _c(
            "md-button",
            {
              staticClass: "md-primary",
              on: {
                click: function($event) {
                  _vm.$emit("update:mdActive", false);
                }
              }
            },
            [_vm._v(_vm._s(_vm.mdConfirmText))]
          )
        ],
        1
      )
    ],
    1
  )
};
var staticRenderFns = [];
render._withStripped = true;
```

```
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdDialogAlert_MdDialogAlert = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdDialogAlert_default.a,
  MdDialogAlert_MdDialogAlert,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdDialog/MdDialogAlert/MdDialogAlert.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdDialog_MdDialogAlert_MdDialogAlert =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 220 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
//
```

```
//
//
//
//
//

exports.default = {
  name: 'MdDialogAlert',
  props: {
    mdTitle: String,
    mdContent: String,
    mdConfirmText: {
      type: String,
      default: 'Ok'
    }
  }
};

/***/ }),
/* 221 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdDialog = __webpack_require__(10);

var _MdDialog2 = _interopRequireDefault(_MdDialog);

var _MdDialogConfirm = __webpack_require__(222);

var _MdDialogConfirm2 = _interopRequireDefault(_MdDialogConfirm);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdDialog2.default.name, _MdDialog2.default);
  Vue.component(_MdDialogConfirm2.default.name, _MdDialogConfirm2.default);
};
```

```
/***/ }),
/* 222 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdDialog/MdD
        ialogConfirm/MdDialogConfirm.vue
var MdDialogConfirm = __webpack_require__(223);
var MdDialogConfirm_default = /*#__PURE__*/__webpack_require__.n(MdDialogConfirm);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        acc7afda","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdDialog/M
        dDialogConfirm/MdDialogConfirm.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-dialog",
    _vm._g(
      _vm._b(
        { attrs: { "md-fullscreen": false } },
        "md-dialog",
        _vm.$attrs,
        false
      ),
      _vm.$listeners
    ),
    [
      _vm.mdTitle
        ? _c("md-dialog-title", [_vm._v(_vm._s(_vm.mdTitle))])
        : _vm._e(),
      _vm._v(" "),
      _vm.mdContent
        ? _c("md-dialog-content", {
            domProps: { innerHTML: _vm._s(_vm.mdContent) }
          })
        : _vm._e(),
      _vm._v(" "),
      _c(
        "md-dialog-actions",
        [
```

```
        _c(
          "md-button",
          { staticClass: "md-primary", on: { click: _vm.onCancel } },
          [_vm._v(_vm._s(_vm.mdCancelText))]
        ),
        _vm._v(" "),
        _c(
          "md-button",
          { staticClass: "md-primary", on: { click: _vm.onConfirm } },
          [_vm._v(_vm._s(_vm.mdConfirmText))]
        )
      ],
      1
    )
  ],
  1
 )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdDialogConfirm_MdDialogConfirm = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdDialogConfirm_default.a,
  MdDialogConfirm_MdDialogConfirm,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file =
        "src/components/MdDialog/MdDialogConfirm/MdDialogConfirm.vue";
```

```
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdDialog_MdDialogConfirm_MdDialogConfirm =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 223 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
//
//
//
//
//
//
//

exports.default = {
  name: 'MdDialogConfirm',
  props: {
    mdTitle: String,
    mdContent: String,
    mdConfirmText: {
      type: String,
      default: 'Ok'
    },
    mdCancelText: {
      type: String,
      default: 'Cancel'
    }
  },
  methods: {
    onCancel: function onCancel() {
      this.$emit('md-cancel');
```

```
      this.$emit('update:mdActive', false);
    },
    onConfirm: function onConfirm() {
      this.$emit('md-confirm');
      this.$emit('update:mdActive', false);
    }
  }
};

/***/ }),
/* 224 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdDialog = __webpack_require__(10);

var _MdDialog2 = _interopRequireDefault(_MdDialog);

var _MdDialogPrompt = __webpack_require__(225);

var _MdDialogPrompt2 = _interopRequireDefault(_MdDialogPrompt);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdDialog2.default.name, _MdDialog2.default);
  Vue.component(_MdDialogPrompt2.default.name, _MdDialogPrompt2.default);
};

/***/ }),
/* 225 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdDialog/MdD
        ialogPrompt/MdDialogPrompt.vue
```

```
var MdDialogPrompt = __webpack_require__(226);
var MdDialogPrompt_default = /*#__PURE__*/__webpack_require__.n(MdDialogPrompt);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        7b3c8c22","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdDialog/M
        dDialogPrompt/MdDialogPrompt.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-dialog",
    _vm._b(
      {
        attrs: { "md-fullscreen": false },
        on: { "md-opened": _vm.setInputFocus }
      },
      "md-dialog",
      _vm.$attrs,
      false
    ),
    [
      _vm.mdTitle
        ? _c("md-dialog-title", [_vm._v(_vm._s(_vm.mdTitle))])
        : _vm._e(),
      _vm._v(" "),
      _vm.mdContent
        ? _c("md-dialog-content", {
            domProps: { innerHTML: _vm._s(_vm.mdContent) }
          })
        : _vm._e(),
      _vm._v(" "),
      _c(
        "md-dialog-content",
        [
          _c(
            "md-field",
            [
              _c("md-input", {
                ref: "input",
                attrs: {
                  id: _vm.mdInputId,
                  name: _vm.mdInputName,
                  maxlength: _vm.mdInputMaxlength,
```

```
            placeholder: _vm.mdInputPlaceholder
          },
          nativeOn: {
            keydown: function($event) {
              if (
                !("button" in $event) &&
                _vm._k($event.keyCode, "enter", 13, $event.key)
              ) {
                return null
              }
              _vm.onConfirm($event);
            }
          },
          model: {
            value: _vm.inputValue,
            callback: function($$v) {
              _vm.inputValue = $$v;
            },
            expression: "inputValue"
          }
        })
      ],
      1
    )
  ],
  1
),
_vm._v(" "),
_c(
  "md-dialog-actions",
  [
    _c(
      "md-button",
      { staticClass: "md-primary", on: { click: _vm.onCancel } },
      [_vm._v(_vm._s(_vm.mdCancelText))]
    ),
    _vm._v(" "),
    _c(
      "md-button",
      { staticClass: "md-primary", on: { click: _vm.onConfirm } },
      [_vm._v(_vm._s(_vm.mdConfirmText))]
    )
  ],
  1
)
],
```

```
    1
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdDialogPrompt_MdDialogPrompt = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdDialogPrompt_default.a,
  MdDialogPrompt_MdDialogPrompt,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file =
        "src/components/MdDialog/MdDialogPrompt/MdDialogPrompt.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdDialog_MdDialogPrompt_MdDialogPrompt =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 226 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
```

```
//
//
//
//
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//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//

exports.default = {
  name: 'MdDialogPrompt',
  props: {
    value: {},
    mdTitle: String,
    mdInputName: String,
    mdInputId: String,
    mdInputMaxlength: [String, Number],
    mdInputPlaceholder: [String, Number],
    mdContent: String,
    mdConfirmText: {
      type: String,
      default: 'Ok'
    },
    mdCancelText: {
      type: String,
      default: 'Cancel'
    }
  },
  data: function data() {
```

```
    return {
      inputValue: null
    };
  },
  watch: {
    value: function value() {
      this.inputValue = this.value;
    }
  },
  methods: {
    onCancel: function onCancel() {
      this.$emit('md-cancel');
      this.$emit('update:mdActive', false);
    },
    onConfirm: function onConfirm() {
      this.$emit('input', this.inputValue);
      this.$emit('md-confirm', this.inputValue);
      this.$emit('update:mdActive', false);
    },
    setInputFocus: function setInputFocus() {
      var _this = this;

      window.setTimeout(function () {
        _this.$refs.input.$el.focus();
      }, 50);
    }
  },
  created: function created() {
    this.inputValue = this.value;
  }
};

/***/ }),
/* 227 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdDivider = __webpack_require__(228);
```

```
var _MdDivider2 = _interopRequireDefault(_MdDivider);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdDivider2.default.name, _MdDivider2.default);
};

/***/ }),
/* 228 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdDivider/Md
        Divider.vue
var MdDivider = __webpack_require__(230);
var MdDivider_default = /*#__PURE__*/__webpack_require__.n(MdDivider);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        8ca7ced6","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdDivider/
        MdDivider.vue

var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm.insideList
    ? _c("li", { staticClass: "md-divider", class: [_vm.$mdActiveTheme] })
    : _c("hr", { staticClass: "md-divider", class: [_vm.$mdActiveTheme] })
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdDivider_MdDivider = (esExports);
// CONCATENATED MODULE: ./src/components/MdDivider/MdDivider.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(229);
}
var normalizeComponent = __webpack_require__(0);
```

```
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdDivider_default.a,
  MdDivider_MdDivider,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdDivider/MdDivider.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdDivider_MdDivider =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 229 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 230 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);
```

```
var _MdComponent2 = _interopRequireDefault(_MdComponent);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdDivider',
  computed: {
    insideList: function insideList() {
      return this.$parent.$options._componentTag === 'md-list';
    }
  }
}); //
//
//
//
//

/***/ }),
/* 231 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdDrawer = __webpack_require__(232);

var _MdDrawer2 = _interopRequireDefault(_MdDrawer);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdDrawer2.default.name, _MdDrawer2.default);
};

/***/ }),
/* 232 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
```

```
// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdDrawer/Md
        Drawer.vue
var MdDrawer = __webpack_require__(234);
var MdDrawer_default = /*#__PURE__*/__webpack_require__.n(MdDrawer);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        801caa62","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdDrawer/
        MdDrawer.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    {
      staticClass: "md-drawer",
      class: [_vm.$mdActiveTheme, _vm.drawerClasses]
    },
    [
      _vm._t("default"),
      _vm._v(" "),
      _vm.mdFixed
        ? _c("md-overlay", {
            attrs: { "md-active": _vm.mdActive },
            on: { click: _vm.closeDrawer }
          })
        : _c("md-overlay", {
            attrs: { "md-active": _vm.mdActive, "md-attach-to-parent": "" },
            on: { click: _vm.closeDrawer }
          })
    ],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdDrawer_MdDrawer = (esExports);
// CONCATENATED MODULE: ./src/components/MdDrawer/MdDrawer.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(233);
```

```
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdDrawer_default.a,
  MdDrawer_MdDrawer,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdDrawer/MdDrawer.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdDrawer_MdDrawer =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 233 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 234 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
```

```
var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
          { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
          source[key]; } } } return target; }; //
//
//
//
//
//
//
//

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdOverlay = __webpack_require__(23);

var _MdOverlay2 = _interopRequireDefault(_MdOverlay);

var _MdPropValidator = __webpack_require__(4);

var _MdPropValidator2 = _interopRequireDefault(_MdPropValidator);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdDrawer',
  components: {
    MdOverlay: _MdOverlay2.default
  },
  props: {
    mdLeft: Boolean,
    mdRight: Boolean,
    mdPermanent: _extends({
      type: String
    }, (0, _MdPropValidator2.default)('md-permanent', ['full', 'clipped', 'card'])),
    mdPersistent: _extends({
      type: String
    }, (0, _MdPropValidator2.default)('md-persistent', ['mini', 'full'])),
    mdActive: Boolean,
    mdFixed: Boolean
  },
  watch: {
    mdActive: function mdActive(visible) {
```

```
    if (visible) {
      this.$emit('md-opened');
    } else {
      this.$emit('md-closed');
    }
  }
},
computed: {
  drawerClasses: function drawerClasses() {
    var classes = {
      'md-left': this.mdLeft,
      'md-right': this.mdRight,
      'md-temporary': this.isTemporary,
      'md-persistent': this.mdPersistent,
      'md-permanent': this.mdPermanent,
      'md-active': this.mdActive,
      'md-fixed': this.mdFixed
    };

    if (this.mdPermanent) {
      classes['md-permanent-' + this.mdPermanent] = true;
    }

    if (this.mdPersistent) {
      classes['md-persistent-' + this.mdPersistent] = true;
    }

    return classes;
  },
  isTemporary: function isTemporary() {
    return !this.mdPermanent && !this.mdPersistent;
  },
  mode: function mode() {
    if (this.mdPersistent) {
      return 'persistent';
    }

    if (this.mdPermanent) {
      return 'permanent';
    }

    return 'temporary';
  },
  submode: function submode() {
    if (this.mdPersistent) {
      return this.mdPersistent;
```

```
    }

    if (this.mdPermanent) {
      return this.mdPermanent;
    }
  }
 },
 methods: {
  closeDrawer: function closeDrawer() {
   this.$emit('update:mdActive', false);
  }
 }
});

/***/ }),
/* 235 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
 value: true
});

__webpack_require__(236);

exports.default = function (Vue) {};

/***/ }),
/* 236 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 237 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
 value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);
```

```
var _MdEmptyState = __webpack_require__(41);

var _MdEmptyState2 = _interopRequireDefault(_MdEmptyState);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdEmptyState2.default.name, _MdEmptyState2.default);
};

/***/ }),
/* 238 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 239 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdEmptyStateProps = __webpack_require__(42);

var _MdEmptyStateProps2 = _interopRequireDefault(_MdEmptyStateProps);

var _MdAssetIcon = __webpack_require__(18);

var _MdAssetIcon2 = _interopRequireDefault(_MdAssetIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdEmptyState',
  mixins: [_MdAssetIcon2.default],
  props: _MdEmptyStateProps2.default,
  computed: {
    emptyStateClasses: function emptyStateClasses() {
```

```
      return {
        'md-rounded': this.mdRounded
      };
    },
    emptyStateStyles: function emptyStateStyles() {
      if (this.mdRounded) {
        var size = this.mdSize + 'px';

        return {
          width: size,
          height: size
        };
      }
    }
  }
}); //
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//

/***/ }),
/* 240 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);
```

```
var _MdIcon = __webpack_require__(43);

var _MdIcon2 = _interopRequireDefault(_MdIcon);

var _MdSelect = __webpack_require__(241);

var _MdSelect2 = _interopRequireDefault(_MdSelect);

var _MdField = __webpack_require__(20);

var _MdField2 = _interopRequireDefault(_MdField);

var _MdFile = __webpack_require__(260);

var _MdFile2 = _interopRequireDefault(_MdFile);

var _MdInput = __webpack_require__(14);

var _MdInput2 = _interopRequireDefault(_MdInput);

var _MdTextarea = __webpack_require__(265);

var _MdTextarea2 = _interopRequireDefault(_MdTextarea);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.use(_MdIcon2.default);
  Vue.use(_MdSelect2.default);
  Vue.component(_MdField2.default.name, _MdField2.default);
  Vue.component(_MdFile2.default.name, _MdFile2.default);
  Vue.component(_MdInput2.default.name, _MdInput2.default);
  Vue.component(_MdTextarea2.default.name, _MdTextarea2.default);
};

/***/ }),
/* 241 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);
```

```
var _material2 = _interopRequireDefault(_material);

var _MdSelect = __webpack_require__(242);

var _MdSelect2 = _interopRequireDefault(_MdSelect);

var _MdOption = __webpack_require__(254);

var _MdOption2 = _interopRequireDefault(_MdOption);

var _MdOptgroup = __webpack_require__(257);

var _MdOptgroup2 = _interopRequireDefault(_MdOptgroup);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdSelect2.default.name, _MdSelect2.default);
  Vue.component(_MdOption2.default.name, _MdOption2.default);
  Vue.component(_MdOptgroup2.default.name, _MdOptgroup2.default);
};

/***/ }),
/* 242 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdField/MdSel
        ect/MdSelect.vue
var MdSelect = __webpack_require__(244);
var MdSelect_default = /*#__PURE__*/__webpack_require__.n(MdSelect);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        7e35dfa3","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdField/Md
        Select/MdSelect.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-menu",
```

```
{
 staticClass: "md-select",
 class: { "md-disabled": _vm.disabled },
 attrs: {
  "md-close-on-select": false,
  "md-active": _vm.showSelect,
  "md-offset-x": _vm.offset.x,
  "md-offset-y": _vm.offset.y
 },
 on: {
  "update:mdActive": function($event) {
   _vm.showSelect = $event;
  },
  "md-opened": _vm.onOpen,
  "md-closed": _vm.onClose
 }
},
[
 _c(
  "md-input",
  _vm._g(
   _vm._b(
    {
     ref: "input",
     staticClass: "md-input md-select-value",
     attrs: {
      readonly: "",
      disabled: _vm.disabled,
      required: _vm.required,
      placeholder: _vm.placeholder
     },
     on: {
      focus: function($event) {
       $event.preventDefault();
       _vm.onFocus($event);
      },
      blur: function($event) {
       $event.preventDefault();
       _vm.removeHighlight($event);
      },
      click: _vm.openSelect,
      keydown: [
       function($event) {
        if (
         !("button" in $event) &&
         _vm._k($event.keyCode, "down", 40, $event.key)
```

```
            ) {
              return null
            }
            _vm.openSelect($event);
          },
          function($event) {
            if (
              !("button" in $event) &&
              _vm._k($event.keyCode, "enter", 13, $event.key)
            ) {
              return null
            }
            _vm.openSelect($event);
          },
          function($event) {
            if (
              !("button" in $event) &&
              _vm._k($event.keyCode, "space", 32, $event.key)
            ) {
              return null
            }
            _vm.openSelect($event);
          }
        ]
      },
      model: {
        value: _vm.MdSelect.label,
        callback: function($$v) {
          _vm.$set(_vm.MdSelect, "label", $$v);
        },
        expression: "MdSelect.label"
      }
    },
    "md-input",
    _vm.$attrs,
    false
  ),
  _vm.inputListeners
)
),
_vm._v(" "),
_c("md-drop-down-icon", {
  nativeOn: {
    click: function($event) {
      _vm.openSelect($event);
    }
```

```
  }
}),
_vm._v(" "),
_c(
  "keep-alive",
  [
    _c(
      "md-menu-content",
      {
        ref: "menu",
        staticClass: "md-select-menu",
        style: _vm.menuStyles,
        attrs: {
          "md-content-class": _vm.mdClass,
          "md-list-class": _vm.mdDense && "md-dense",
          id: _vm.uniqueId
        }
      },
      [_vm._t("default")],
      2
    )
  ],
  1
),
_vm._v(" "),
_c("input", {
  directives: [
    {
      name: "model",
      rawName: "v-model",
      value: _vm.model,
      expression: "model"
    }
  ],
  staticClass: "md-input-fake",
  attrs: { disabled: _vm.disabled, readonly: "", tabindex: "-1" },
  domProps: { value: _vm.model },
  on: {
    input: function($event) {
      if ($event.target.composing) {
        return
      }
      _vm.model = $event.target.value;
    }
  }
}),
```

```
      _vm._v(" "),
      _c(
        "select",
        _vm._b(
          {
            directives: [
              {
                name: "model",
                rawName: "v-model",
                value: _vm.model,
                expression: "model"
              }
            ],
            attrs: { readonly: "", tabindex: "-1" },
            on: {
              change: function($event) {
                var $$selectedVal = Array.prototype.filter
                  .call($event.target.options, function(o) {
                    return o.selected
                  })
                  .map(function(o) {
                    var val = "_value" in o ? o._value : o.value;
                    return val
                  });
                _vm.model = $event.target.multiple
                  ? $$selectedVal
                  : $$selectedVal[0];
              }
            }
          },
          "select",
          _vm.attributes,
          false
        )
      )
    ],
    1
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdSelect_MdSelect = (esExports);
// CONCATENATED MODULE: ./src/components/MdField/MdSelect/MdSelect.vue
var disposed = false;
function injectStyle (ssrContext) {
```

```
  if (disposed) { return }
  __webpack_require__(243);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdSelect_default.a,
  MdSelect_MdSelect,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdField/MdSelect/MdSelect.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdField_MdSelect_MdSelect =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 243 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 244 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
```

```
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; }; //
//
//
//
```

```
//
//
//
//
//

var _raf = __webpack_require__(9);

var _raf2 = _interopRequireDefault(_raf);

var _MdUuid = __webpack_require__(6);

var _MdUuid2 = _interopRequireDefault(_MdUuid);

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdDropDownIcon = __webpack_require__(245);

var _MdDropDownIcon2 = _interopRequireDefault(_MdDropDownIcon);

var _MdMenu = __webpack_require__(44);

var _MdMenu2 = _interopRequireDefault(_MdMenu);

var _MdMenuContent = __webpack_require__(45);

var _MdMenuContent2 = _interopRequireDefault(_MdMenuContent);

var _MdInput = __webpack_require__(14);

var _MdInput2 = _interopRequireDefault(_MdInput);

var _MdFieldMixin = __webpack_require__(15);

var _MdFieldMixin2 = _interopRequireDefault(_MdFieldMixin);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; }
```

```
var defaultOffset = {
  x: -15,
  y: -48
};

exports.default = {
  name: 'MdSelect',
  components: {
    MdInput: _MdInput2.default,
    MdMenu: _MdMenu2.default,
    MdMenuContent: _MdMenuContent2.default,
    MdDropDownIcon: _MdDropDownIcon2.default
  },
  mixins: [_MdFieldMixin2.default],
  props: {
    mdDense: Boolean,
    mdClass: String,
    multiple: Boolean,
    id: String,
    name: String
  },
  inject: ['MdField'],
  data: function data() {
    return {
      uniqueId: 'md-select-menu-' + (0, _MdUuid2.default)(),
      menuStyles: {},
      offset: {
        x: defaultOffset.x,
        y: 0
      },
      showSelect: true,
      didMount: false,
      MdSelect: {
        items: {},
        label: null,
        multiple: false,
        modelValue: this.model,
        setValue: this.setValue,
        setContent: this.setContent,
        setMultipleValue: this.setMultipleValue,
        setMultipleContent: this.setMultipleContent
      }
    };
  },
  provide: function provide() {
```

```
  var MdSelect = this.MdSelect;

  return { MdSelect: MdSelect };
},

computed: {
  inputListeners: function inputListeners() {
    return _extends({}, this.$listeners, {
      input: undefined
    });
  }
},
watch: {
  localValue: {
    immediate: true,
    handler: function handler() {
      this.setFieldContent();
    }
  },
  multiple: {
    immediate: true,
    handler: function handler(isMultiple) {
      var _this = this;

      this.MdSelect.multiple = isMultiple;
      this.$nextTick(function () {
        return _this.initialLocalValueByDefault();
      });
    }
  },
  model: function model() {
    this.MdSelect.modelValue = this.model;
  }
},
methods: {
  elHasScroll: function elHasScroll(el) {
    return el.scrollHeight > el.offsetHeight;
  },
  scrollToSelectedOption: function scrollToSelectedOption(el, menu) {
    var top = el.offsetTop;
    var elHeight = el.offsetHeight;
    var menuHeight = menu.offsetHeight;

    menu.scrollTop = top - (menuHeight - elHeight) / 2;
  },
  setOffsets: function () {
```

```
var _ref = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function
    _callee(target) {
  var menu, selected;
  return regeneratorRuntime.wrap(function _callee$(_context) {
    var this$1 = this;

    while (1) {
      switch (_context.prev = _context.next) {
        case 0:
          _context.next = 2;
          return this$1.$nextTick();

        case 2:

          if (!this$1.$isServer) {
            menu = document.getElementById(this$1.uniqueId);


            if (menu) {
              selected = target || menu.querySelector('.md-selected');


              if (selected) {
                this$1.scrollToSelectedOption(selected, menu);
                this$1.offset.y = defaultOffset.y - selected.offsetTop + menu.scrollTop + 8;
                this$1.menuStyles = {
                  'transform-origin': '0 ' + Math.abs(this$1.offset.y) + 'px'
                };
              } else {
                this$1.offset.y = defaultOffset.y + 1;
                this$1.menuStyles = {};
              }
            }
          }

        case 3:
        case 'end':
          return _context.stop();
      }
    }
  }, _callee, this);
}));

function setOffsets(_x) {
  return _ref.apply(this, arguments);
}
```

```
  return setOffsets;
}(),
onOpen: function onOpen() {
  var _this2 = this;

  this.$emit('md-opened');
  if (this.didMount) {
    this.setOffsets();
    window.setTimeout(function () {
      _this2.MdField.focused = true;
    }, 10);
  }
},
applyHighlight: function applyHighlight() {
  this.MdField.focused = false;
  this.MdField.highlighted = true;
  this.$refs.input.$el.focus();
},
onClose: function onClose() {
  this.$emit('md-closed');
  if (this.didMount) {
    this.applyHighlight();
  }
},
onFocus: function onFocus() {
  if (this.didMount) {
    this.applyHighlight();
  }
},
removeHighlight: function removeHighlight() {
  this.MdField.highlighted = false;
},
openSelect: function openSelect() {
  if (!this.disabled) {
    this.showSelect = true;
  }
},
arrayAccessorRemove: function arrayAccessorRemove(arr, index) {
  var before = arr.slice(0, index);
  var after = arr.slice(index + 1, arr.length);
  return before.concat(after);
},
toggleArrayValue: function toggleArrayValue(value) {
  var index = this.localValue.indexOf(value);
  var includes = index > -1;
```

```
  if (!includes) {
    this.localValue = this.localValue.concat([value]);
  } else {
    this.localValue = this.arrayAccessorRemove(this.localValue, index);
  }
  this.emitSelected(this.localValue);
},
setValue: function setValue(newValue) {
  this.model = newValue;
  this.emitSelected(newValue);
  this.setFieldValue();
  this.showSelect = false;
},
setContent: function setContent(newLabel) {
  this.MdSelect.label = newLabel;
},
setContentByValue: function setContentByValue() {
  var textContent = this.MdSelect.items[this.localValue];

  if (textContent) {
    this.setContent(textContent);
  } else {
    this.setContent('');
  }
},
setMultipleValue: function setMultipleValue(value) {
  var newValue = value;
  this.toggleArrayValue(newValue);
  this.setFieldValue();
},
setMultipleContentByValue: function setMultipleContentByValue() {
  var _this3 = this;

  if (!this.localValue) {
    this.initialLocalValueByDefault();
  }
  var content = [];

  this.localValue.forEach(function (item) {
    var textContent = _this3.MdSelect.items[item];

    if (textContent) {
      content.push(textContent);
    }
  });
```

```
    this.setContent(content.join(', '));
  },
  setFieldContent: function setFieldContent() {
    if (this.multiple) {
      this.setMultipleContentByValue();
    } else {
      this.setContentByValue();
    }
  },
  initialLocalValueByDefault: function initialLocalValueByDefault() {
    var isArray = Array.isArray(this.localValue);
    if (this.multiple && !isArray) {
      var isSet = this.localValue !== undefined && this.localValue !== null;
      this.localValue = isSet ? [this.localValue] : [];
      return;
    }
    if (!this.multiple && isArray) {
      this.localValue = this.localValue.length > 0 ? this.localValue[0] : null;
    }
  },
  emitSelected: function emitSelected(value) {
    this.$emit('md-selected', value);
  }
},
mounted: function () {
  var _ref2 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee2()
        {
    return regeneratorRuntime.wrap(function _callee2$(_context2) {
      var this$1 = this;

      while (1) {
        switch (_context2.prev = _context2.next) {
          case 0:
            this$1.showSelect = false;
            this$1.setFieldContent();

            _context2.next = 4;
            return this$1.$nextTick();

          case 4:
            this$1.didMount = true;

          case 5:
          case 'end':
            return _context2.stop();
        }
```

```
        }
      }, _callee2, this);
    }));

    function mounted() {
      return _ref2.apply(this, arguments);
    }

    return mounted;
  }()
};

/***/ }),
/* 245 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/core/icons/MdDropDownIco
        n.vue
var MdDropDownIcon = __webpack_require__(246);
var MdDropDownIcon_default = /*#__PURE__*/__webpack_require__.n(MdDropDownIcon);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        44db031d","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/core/icons/MdDropDown
        Icon.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm._m(0)
};
var staticRenderFns = [
  function() {
    var _vm = this;
    var _h = _vm.$createElement;
    var _c = _vm._self._c || _h;
    return _c("md-icon", { staticClass: "md-icon-image" }, [
      _c(
        "svg",
        {
          attrs: {
            height: "24",
            viewBox: "0 0 24 24",
```

```
          width: "24",
          xmlns: "http://www.w3.org/2000/svg"
        }
      },
      [
        _c("path", { attrs: { d: "M7 10l5 5 5-5z" } }),
        _vm._v(" "),
        _c("path", { attrs: { d: "M0 0h24v24H0z", fill: "none" } })
      ]
    )
  ])
}
];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var icons_MdDropDownIcon = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
 var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
 MdDropDownIcon_default.a,
 icons_MdDropDownIcon,
 __vue_template_functional__,
 __vue_styles__,
 __vue_scopeId__,
 __vue_module_identifier__
);
Component.options.__file = "src/core/icons/MdDropDownIcon.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var core_icons_MdDropDownIcon =
        __webpack_exports__["default"] = (Component.exports);
```

```
/***/ }),
/* 246 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdIcon = __webpack_require__(5);

var _MdIcon2 = _interopRequireDefault(_MdIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdDropDownIcon',
  components: {
    MdIcon: _MdIcon2.default
  }
}; //
//
//
//
//
//
//
//

/***/ }),
/* 247 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 248 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
```

```
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; }; //
//
//
//
//
//

var _MdPropValidator = __webpack_require__(4);

var _MdPropValidator2 = _interopRequireDefault(_MdPropValidator);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; }

exports.default = {
  name: 'MdMenu',
  props: {
    mdActive: Boolean,
    mdAlignTrigger: Boolean,
    mdOffsetX: Number,
    mdOffsetY: Number,
    mdFullWidth: Boolean,
    mdDense: Boolean,
    mdDirection: _extends({
      type: String,
      default: 'bottom-start'
    }, (0, _MdPropValidator2.default)('md-direction', ['top-end', 'top-start', 'bottom-end', 'bottom-
        start'])),
    mdCloseOnSelect: {
      type: Boolean,
      default: true
    },
    mdSize: _extends({
      type: String,
      default: 'small'
    }, (0, _MdPropValidator2.default)('md-size', ['auto', 'small', 'medium', 'big', 'huge']))
  },
```

```
data: function data() {
  return {
    triggerEl: null,
    MdMenu: {
      instance: this,
      active: this.mdActive,
      direction: this.mdDirection,
      size: this.mdSize,
      alignTrigger: this.mdAlignTrigger,
      offsetX: this.mdOffsetX,
      offsetY: this.mdOffsetY,
      fullWidth: this.mdFullWidth,
      dense: this.mdDense,
      closeOnSelect: this.mdCloseOnSelect,
      bodyClickObserver: null,
      windowResizeObserver: null
    }
  };
},
provide: function provide() {
  return {
    MdMenu: this.MdMenu
  };
},

computed: {
  isActive: function isActive() {
    return this.MdMenu.active;
  }
},
watch: {
  mdActive: {
    immediate: true,
    handler: function handler(isActive) {
      this.MdMenu.active = isActive;
    }
  },
  mdDirection: function mdDirection(direction) {
    this.MdMenu.direction = direction;
  },
  mdSize: function mdSize(size) {
    this.MdMenu.size = size;
  },
  mdAlignTrigger: function mdAlignTrigger(aligned) {
    this.MdMenu.alignTrigger = aligned;
  },
```

```
  mdOffsetX: function mdOffsetX(offset) {
    this.MdMenu.offsetX = offset;
  },
  mdOffsetY: function mdOffsetY(offset) {
    this.MdMenu.offsetY = offset;
  },
  isActive: function isActive(_isActive) {
    this.$emit('update:mdActive', _isActive);

    if (!_isActive) {
      this.$emit('md-closed');
    } else {
      this.$emit('md-opened');
    }
  }
},
methods: {
  toggleContent: function toggleContent($event) {
    $event.stopPropagation();
    this.MdMenu.active = !this.MdMenu.active;
  }
},
mounted: function () {
  var _ref = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee() {
    return regeneratorRuntime.wrap(function _callee$(_context) {
      var this$1 = this;

      while (1) {
        switch (_context.prev = _context.next) {
          case 0:
            _context.next = 2;
            return this$1.$nextTick();

          case 2:

            this$1.triggerEl = this$1.$el.querySelector('[md-menu-trigger]');

            if (this$1.triggerEl) {
              this$1.triggerEl.addEventListener('click', this$1.toggleContent);
            }

          case 4:
          case 'end':
            return _context.stop();
        }
      }
```

```
    }, _callee, this);
  }));

  function mounted() {
    return _ref.apply(this, arguments);
  }

  return mounted;
 }(),
 beforeDestroy: function beforeDestroy() {
  if (this.triggerEl) {
   this.triggerEl.removeEventListener('click', this.toggleContent);
  }
 }
};

/***/ }),
/* 249 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 250 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
 value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; };

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdPropValidator = __webpack_require__(4);

var _MdPropValidator2 = _interopRequireDefault(_MdPropValidator);

var _MdObserveEvent = __webpack_require__(46);
```

```
var _MdObserveEvent2 = _interopRequireDefault(_MdObserveEvent);

var _MdResizeObserver = __webpack_require__(251);

var _MdResizeObserver2 = _interopRequireDefault(_MdResizeObserver);

var _MdPopover = __webpack_require__(25);

var _MdPopover2 = _interopRequireDefault(_MdPopover);

var _MdFocusTrap = __webpack_require__(40);

var _MdFocusTrap2 = _interopRequireDefault(_MdFocusTrap);

var _MdList = __webpack_require__(47);

var _MdList2 = _interopRequireDefault(_MdList);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; }

function _defineProperty(obj, key, value) { if (key in obj) { Object.defineProperty(obj, key,
        { value: value, enumerable: true, configurable: true, writable: true }); } else { obj[key] =
        value; } return obj; } //
//
//
//
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//
//
//
//
```

```
//
//
//
//

exports.default = new _MdComponent2.default({
  name: 'MdMenuContent',
  components: {
    MdPopover: _MdPopover2.default,
    MdFocusTrap: _MdFocusTrap2.default,
    MdList: _MdList2.default
  },
  props: {
    mdListClass: [String, Boolean],
    mdContentClass: [String, Boolean]
  },
  inject: ['MdMenu'],
  data: function data() {
    return {
      highlightIndex: -1,
      didMount: false,
      highlightItems: [],
      popperSettings: null,
      menuStyles: ''
    };
  },
  computed: {
    highlightedItem: function highlightedItem() {
      return this.highlightItems[this.highlightIndex];
    },
    shouldRender: function shouldRender() {
      return this.MdMenu.active;
    },
    menuClasses: function menuClasses() {
      var _ref;

      var prefix = 'md-menu-content-';

      return _ref = {}, _defineProperty(_ref, prefix + this.MdMenu.direction, true),
          _defineProperty(_ref, prefix + this.MdMenu.size, true), _defineProperty(_ref, 'md-menu-
          content', this.didMount), _defineProperty(_ref, 'md-shallow', !this.didMount), _ref;
    },
    listClasses: function listClasses() {
      return _extends({
        'md-dense': this.MdMenu.dense
      }, this.mdListClass);
```

```
  }
},
watch: {
  shouldRender: function () {
    var _ref2 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function
        _callee(_shouldRender) {
      return regeneratorRuntime.wrap(function _callee$(_context) {
        var this$1 = this;

        while (1) {
          switch (_context.prev = _context.next) {
            case 0:
              if (!_shouldRender) {
                _context.next = 7;
                break;
              }

              this$1.setPopperSettings();
              _context.next = 4;
              return this$1.$nextTick();

            case 4:
              this$1.setInitialHighlightIndex();
              this$1.createClickEventObserver();
              this$1.createResizeObserver();

            case 7:
            case 'end':
              return _context.stop();
          }
        }
      }, _callee, this);
    }));

    function shouldRender(_x) {
      return _ref2.apply(this, arguments);
    }

    return shouldRender;
  }()
},
methods: {
  setPopperSettings: function setPopperSettings() {
    var _MdMenu = this.MdMenu,
        direction = _MdMenu.direction,
        alignTrigger = _MdMenu.alignTrigger;
```

```
  var _getOffsets = this.getOffsets(),
      offsetX = _getOffsets.offsetX,
      offsetY = _getOffsets.offsetY;

  if (!this.hasCustomOffsets()) {
    if (this.MdMenu.instance.$el && this.MdMenu.instance.$el.offsetHeight) {
      offsetY = -this.MdMenu.instance.$el.offsetHeight - 11;
    }

    if (direction.includes('start')) {
      offsetX = -8;
    } else if (direction.includes('end')) {
      offsetX = 8;
    }
  }

  this.popperSettings = {
    placement: direction,
    modifiers: {
      keepTogether: {
        enabled: true
      },
      flip: {
        enabled: false
      },
      offset: {
        offset: offsetX + ', ' + offsetY
      }
    }
  };
},
setInitialHighlightIndex: function setInitialHighlightIndex() {
  var _this = this;

  this.setHighlightItems();
  this.highlightItems.forEach(function (item, index) {
    if (item.classList.contains('md-selected')) {
      _this.highlightIndex = index - 1;
    }
  });
},
setHighlightItems: function setHighlightItems() {
  if (this.$el.querySelectorAll) {
    var items = this.$el.querySelectorAll('.md-list-item-container:not(.md-list-item-
        default):not([disabled])');
```

```
    this.highlightItems = Array.from(items);
   }
  },
  setHighlight: function setHighlight(direction) {
   this.setHighlightItems();

   if (this.highlightItems.length) {
    if (direction === 'down') {
     if (this.highlightIndex === this.highlightItems.length - 1) {
      this.highlightIndex = 0;
     } else {
      this.highlightIndex++;
     }
    } else {
     if (this.highlightIndex === 0) {
      this.highlightIndex = this.highlightItems.length - 1;
     } else {
      this.highlightIndex--;
     }
    }

    this.clearAllHighlights();
    this.setItemHighlight();
   }
  },
  clearAllHighlights: function clearAllHighlights() {
   this.highlightItems.forEach(function (item) {
    item.parentNode.__vue__.highlighted = false;
   });
  },
  setItemHighlight: function setItemHighlight() {
   if (this.highlightedItem) {
    this.highlightedItem.parentNode.__vue__.highlighted = true;
    if (this.$parent.$parent.setOffsets) {
     this.$parent.$parent.setOffsets(this.highlightedItem.parentNode);
    }
   }
  },
  setSelection: function setSelection() {
   if (this.highlightedItem) {
    this.highlightedItem.parentNode.click();
   }
  },
  onEsc: function onEsc() {
   this.MdMenu.active = false;
```

```
},
getOffsets: function getOffsets() {
  return {
    offsetX: this.MdMenu.offsetX || 0,
    offsetY: this.MdMenu.offsetY || 0
  };
},
hasCustomOffsets: function hasCustomOffsets() {
  var _MdMenu2 = this.MdMenu,
      offsetX = _MdMenu2.offsetX,
      offsetY = _MdMenu2.offsetY,
      alignTrigger = _MdMenu2.alignTrigger;


  return Boolean(alignTrigger || offsetY || offsetX);
},
createClickEventObserver: function createClickEventObserver() {
  var _this2 = this;

  if (document) {
    this.MdMenu.bodyClickObserver = new _MdObserveEvent2.default(document.body,
        'click', function ($event) {
      $event.stopPropagation();

      if (!_this2.$el.contains($event.target)) {
        _this2.MdMenu.active = false;
        _this2.MdMenu.bodyClickObserver.destroy();
        _this2.MdMenu.windowResizeObserver.destroy();
      }
    });
  }
},
createResizeObserver: function createResizeObserver() {
  this.MdMenu.windowResizeObserver = new _MdResizeObserver2.default(window,
      this.setStyles);
},
setupWatchers: function setupWatchers() {
  this.$watch('MdMenu.direction', this.setPopperSettings);
  this.$watch('MdMenu.alignTrigger', this.setPopperSettings);
  this.$watch('MdMenu.offsetX', this.setPopperSettings);
  this.$watch('MdMenu.offsetY', this.setPopperSettings);
},
setStyles: function setStyles() {
  if (this.MdMenu.fullWidth) {
    this.menuStyles = '\n          width: ' + this.MdMenu.instance.$el.offsetWidth + 'px;\n
      max-width: ' + this.MdMenu.instance.$el.offsetWidth + 'px\n        ';
```

```
    }
   }
  },
  mounted: function () {
   var _ref3 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee2()
         {
    return regeneratorRuntime.wrap(function _callee2$(_context2) {
     var this$1 = this;

     while (1) {
      switch (_context2.prev = _context2.next) {
       case 0:
        _context2.next = 2;
        return this$1.$nextTick();

       case 2:
        this$1.setHighlightItems();
        this$1.setupWatchers();
        this$1.setStyles();
        this$1.didMount = true;

       case 6:
       case 'end':
        return _context2.stop();
      }
     }
    }, _callee2, this);
   }));

   function mounted() {
    return _ref3.apply(this, arguments);
   }

   return mounted;
  }(),
  beforeDestroy: function beforeDestroy() {
   if (this.MdMenu.bodyClickObserver) {
    this.MdMenu.bodyClickObserver.destroy();
   }

   if (this.MdMenu.windowResizeObserver) {
    this.MdMenu.windowResizeObserver.destroy();
   }
  }
});
```

```
/***/ }),
/* 251 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _raf = __webpack_require__(9);

var _raf2 = _interopRequireDefault(_raf);

var _MdObserveEvent = __webpack_require__(46);

var _MdObserveEvent2 = _interopRequireDefault(_MdObserveEvent);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function () {
  var el = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : window;
  var observerFn = arguments[1];

  var observer = (0, _MdObserveEvent2.default)(el, 'resize', function () {
    (0, _raf2.default)(observerFn);
  }, { passive: true });

  return {
    destroy: function destroy() {
      return observer.destroy;
    }
  };
};

/***/ }),
/* 252 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 253 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
```

```
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdList'
}); //
//
//
//
//
//

/***/ }),
/* 254 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdField/MdSel
        ect/MdOption.vue
var MdOption = __webpack_require__(256);
var MdOption_default = /*#__PURE__*/__webpack_require__.n(MdOption);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        32c8ce9c","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdField/Md
        Select/MdOption.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-menu-item",
    {
      class: _vm.optionClasses,
      attrs: { disabled: _vm.isDisabled },
      on: { click: _vm.setSelection }
    },
    [
```

```
      _vm.MdSelect.multiple
        ? _c("md-checkbox", {
            staticClass: "md-primary",
            model: {
              value: _vm.isChecked,
              callback: function($$v) {
                _vm.isChecked = $$v;
              },
              expression: "isChecked"
            }
          })
        : _vm._e(),
      _vm._v(" "),
      _c(
        "span",
        { ref: "text", staticClass: "md-list-item-text" },
        [_vm._t("default")],
        2
      )
    ],
    1
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdSelect_MdOption = (esExports);
// CONCATENATED MODULE: ./src/components/MdField/MdSelect/MdOption.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(255);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
```

```
var Component = normalizeComponent(
  MdOption_default.a,
  MdSelect_MdOption,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdField/MdSelect/MdOption.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdField_MdSelect_MdOption =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 255 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 256 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdUuid = __webpack_require__(6);

var _MdUuid2 = _interopRequireDefault(_MdUuid);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdOption',
  props: {
    value: [String, Number, Boolean],
    disabled: Boolean
  },
  inject: {
    MdSelect: {},
```

```
  MdOptgroup: {
    default: {}
  }
},
data: function data() {
  return {
    uniqueId: 'md-option-' + (0, _MdUuid2.default)(),
    isSelected: false,
    isChecked: false
  };
},
computed: {
  selectValue: function selectValue() {
    return this.MdSelect.modelValue;
  },
  isMultiple: function isMultiple() {
    return this.MdSelect.multiple;
  },
  isDisabled: function isDisabled() {
    return this.MdOptgroup.disabled || this.disabled;
  },
  key: function key() {
    var isSet = this.value || this.value === 0;
    return isSet ? this.value : this.uniqueId;
  },
  inputLabel: function inputLabel() {
    return this.MdSelect.label;
  },
  optionClasses: function optionClasses() {
    return {
      'md-selected': this.isSelected || this.isChecked
    };
  }
},
watch: {
  inputLabel: function inputLabel() {
    this.setIsSelected();
  }
},
methods: {
  getTextContent: function getTextContent() {
    if (this.$el) {
      return this.$el.textContent.trim();
    }

    var slot = this.$slots.default;
```

```
      return slot ? slot[0].text.trim() : '';
    },
    setIsSelected: function setIsSelected() {
      this.isSelected = this.inputLabel === this.getTextContent();
    },
    setSingleSelection: function setSingleSelection() {
      this.MdSelect.setValue(this.value);
    },
    setMultipleSelection: function setMultipleSelection() {
      this.isChecked = !this.isChecked;
      this.MdSelect.setMultipleValue(this.value);
    },
    setSelection: function setSelection() {
      if (!this.disabled) {
        if (this.isMultiple) {
          this.setMultipleSelection();
        } else {
          this.setSingleSelection();
        }
      }
    },
    setItem: function setItem() {
      this.$set(this.MdSelect.items, this.key, this.getTextContent());
    }
  },
  updated: function updated() {
    this.setItem();
  },
  created: function created() {
    this.setItem();
    this.setIsSelected();

    if (this.isMultiple && this.selectValue && this.selectValue.length) {
      this.isChecked = this.selectValue.includes(this.value);
    }
  }
}; //
//
//
//
//
//
//
//
```

```
//

/***/ }),
/* 257 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdField/MdSel
        ect/MdOptgroup.vue
var MdOptgroup = __webpack_require__(259);
var MdOptgroup_default = /*#__PURE__*/__webpack_require__.n(MdOptgroup);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        60840a93","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdField/Md
        Select/MdOptgroup.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-optgroup" },
    [
      _c("md-subheader", [_vm._v(_vm._s(_vm.label))]),
      _vm._v(" "),
      _vm._t("default")
    ],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdSelect_MdOptgroup = (esExports);
// CONCATENATED MODULE: ./src/components/MdField/MdSelect/MdOptgroup.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(258);
}
var normalizeComponent = __webpack_require__(0);
/* script */
```

```
/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdOptgroup_default.a,
  MdSelect_MdOptgroup,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdField/MdSelect/MdOptgroup.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdField_MdSelect_MdOptgroup =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 258 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 259 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
```

```
//
//

exports.default = {
  name: 'MdOptgroup',
  props: {
    label: String,
    disabled: Boolean
  },
  provide: function provide() {
    return {
      MdOptgroup: {
        disabled: this.disabled
      }
    };
  }
};

/***/ }),
/* 260 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdField/MdFil
        e/MdFile.vue
var MdFile = __webpack_require__(262);
var MdFile_default = /*#__PURE__*/__webpack_require__.n(MdFile);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        16fac4a3","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdField/Md
        File/MdFile.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-file" },
    [
      _c("md-file-icon", {
        nativeOn: {
          click: function($event) {
            _vm.openPicker($event);
```

```
    }
  }
}),
_vm._v(" "),
_c(
  "input",
  _vm._b(
    {
      directives: [
        {
          name: "model",
          rawName: "v-model",
          value: _vm.model,
          expression: "model"
        }
      ],
      staticClass: "md-input",
      attrs: { readonly: "" },
      domProps: { value: _vm.model },
      on: {
        focus: _vm.openPicker,
        blur: _vm.onBlur,
        input: function($event) {
          if ($event.target.composing) {
            return
          }
          _vm.model = $event.target.value;
        }
      }
    },
    "input",
    {
      disabled: _vm.disabled,
      required: _vm.required,
      placeholder: _vm.placeholder
    },
    false
  )
),
_vm._v(" "),
_c(
  "input",
  _vm._g(
    _vm._b(
      {
        ref: "inputFile",
```

```
            attrs: { type: "file" },
            on: { change: _vm.onChange }
          },
          "input",
          _vm.attributes,
          false
        ),
        _vm.$listeners
      )
    )
  ],
  1
 )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdFile_MdFile = (esExports);
// CONCATENATED MODULE: ./src/components/MdField/MdFile/MdFile.vue
var disposed = false;
function injectStyle (ssrContext) {
 if (disposed) { return }
 __webpack_require__(261);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
 var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
 MdFile_default.a,
 MdFile_MdFile,
 __vue_template_functional__,
 __vue_styles__,
 __vue_scopeId__,
 __vue_module_identifier__
);
Component.options.__file = "src/components/MdField/MdFile/MdFile.vue";
```

```
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdField_MdFile_MdFile = __webpack_exports__["default"] =
        (Component.exports);


/***/ }),
/* 261 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 262 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdUuid = __webpack_require__(6);

var _MdUuid2 = _interopRequireDefault(_MdUuid);

var _MdFileIcon = __webpack_require__(263);

var _MdFileIcon2 = _interopRequireDefault(_MdFileIcon);

var _MdFieldMixin = __webpack_require__(15);

var _MdFieldMixin2 = _interopRequireDefault(_MdFieldMixin);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _toConsumableArray(arr) { if (Array.isArray(arr)) { for (var i = 0, arr2 =
        Array(arr.length); i < arr.length; i++) { arr2[i] = arr[i]; } return arr2; } else { return
        Array.from(arr); } } //
//
//
//
//
//
```

```
//
//
//
//
//
//
//
//
//

exports.default = {
  name: 'MdFile',
  components: {
    MdFileIcon: _MdFileIcon2.default
  },
  props: {
    id: {
      type: String,
      default: function _default() {
        return 'md-file-' + (0, _MdUuid2.default)();
      }
    },
    name: String
  },
  mixins: [_MdFieldMixin2.default],
  inject: ['MdField'],
  methods: {
    getMultipleName: function getMultipleName(files) {
      var names = [];

      [].concat(_toConsumableArray(files)).forEach(function (_ref) {
        var name = _ref.name;
        return names.push(name);
      });

      return names.join(', ');
    },
    getFileName: function getFileName(files, target) {
      if (!files) {
        return target.value.split('\\').pop();
      }

      if (files.length > 1) {
        return this.getMultipleName(files);
      }
```

```
      if (files.length === 1) {
        return files[0].name;
      }

      return null;
    },
    openPicker: function openPicker() {
      this.onFocus();
      this.$refs.inputFile.click();
    },
    onChange: function onChange($event) {
      this.onFileSelected($event);
    },
    onFileSelected: function onFileSelected(_ref2) {
      var target = _ref2.target,
          dataTransfer = _ref2.dataTransfer;

      var files = target.files || dataTransfer.files;

      this.model = this.getFileName(files, target);
      this.$emit('md-change', files || target.value);
    }
  },
  created: function created() {
    this.MdField.file = true;
  },
  beforeDestroy: function beforeDestroy() {
    this.MdField.file = false;
  }
};

/***/ }),
/* 263 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/core/icons/MdFileIcon.vue
var MdFileIcon = __webpack_require__(264);
var MdFileIcon_default = /*#__PURE__*/__webpack_require__.n(MdFileIcon);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        3bd0ca30","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/core/icons/MdFileIcon.vu
        e
```

```
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm._m(0)
};
var staticRenderFns = [
  function() {
    var _vm = this;
    var _h = _vm.$createElement;
    var _c = _vm._self._c || _h;
    return _c("md-icon", { staticClass: "md-icon-image" }, [
      _c(
        "svg",
        {
          attrs: {
            height: "24",
            viewBox: "0 0 24 24",
            width: "24",
            xmlns: "http://www.w3.org/2000/svg"
          }
        },
        [
          _c("path", {
            attrs: {
              d:
                "M16.5 6v11.5c0 2.21-1.79 4-4 4s-4-1.79-4-4V5c0-1.38 1.12-2.5 2.5-2.5s2.5 1.12 2.5
            2.5v10.5c0 .55-.45 1-1 1s-1-.45-1-1V6H10v9.5c0 1.38 1.12 2.5 2.5 2.5s2.5-1.12 2.5-
            2.5V5c0-2.21-1.79-4-4-4S7 2.79 7 5v12.5c0 3.04 2.46 5.5 5.5 5.5s5.5-2.46 5.5-5.5V6h-
            1.5z"
            }
          }),
          _vm._v(" "),
          _c("path", { attrs: { d: "M0 0h24v24H0z", fill: "none" } })
        ]
      )
    ])
  }
];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var icons_MdFileIcon = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */
```

```
/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdFileIcon_default.a,
  icons_MdFileIcon,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/core/icons/MdFileIcon.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var core_icons_MdFileIcon = __webpack_exports__["default"] =
        (Component.exports);


/***/ }),
/* 264 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdIcon = __webpack_require__(5);

var _MdIcon2 = _interopRequireDefault(_MdIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdFileIcon',
  components: {
    MdIcon: _MdIcon2.default
  }
```

```
}; //
//
//
//
//
//
//
//
//

/***/ }),
/* 265 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdField/MdTe
        xtarea/MdTextarea.vue
var MdTextarea = __webpack_require__(266);
var MdTextarea_default = /*#__PURE__*/__webpack_require__.n(MdTextarea);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        445d103a","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdField/Md
        Textarea/MdTextarea.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "textarea",
    _vm._g(
      _vm._b(
        {
          directives: [
            {
              name: "model",
              rawName: "v-model",
              value: _vm.model,
              expression: "model"
            }
          ],
          staticClass: "md-textarea",
          style: _vm.textareaStyles,
          domProps: { value: _vm.model },
```

```
        on: {
          focus: _vm.onFocus,
          blur: _vm.onBlur,
          input: function($event) {
            if ($event.target.composing) {
              return
            }
            _vm.model = $event.target.value;
          }
        }
      },
      "textarea",
      _vm.attributes,
      false
    ),
    _vm.$listeners
  )
 )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdTextarea_MdTextarea = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
 var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
 MdTextarea_default.a,
 MdTextarea_MdTextarea,
 __vue_template_functional__,
 __vue_styles__,
 __vue_scopeId__,
 __vue_module_identifier__
);
Component.options.__file = "src/components/MdField/MdTextarea/MdTextarea.vue";
```

```
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdField_MdTextarea_MdTextarea =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 266 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdUuid = __webpack_require__(6);

var _MdUuid2 = _interopRequireDefault(_MdUuid);

var _MdFieldMixin = __webpack_require__(15);

var _MdFieldMixin2 = _interopRequireDefault(_MdFieldMixin);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; } //
//
//
//
//
//
//
//
//
//
```

```
//
//

function calculateContentHeight(el, lineHeight) {
  var origHeight = el.style.height;
  var height = el.offsetHeight;
  var scrollHeight = el.scrollHeight;

  el.style.overflow = 'hidden';

  if (height >= scrollHeight) {
    el.style.height = height + lineHeight + 'px';

    if (scrollHeight < el.scrollHeight) {
      el.style.height = origHeight;

      return height;
    }
  }

  return scrollHeight;
}

exports.default = new _MdComponent2.default({
  name: 'MdTextarea',
  mixins: [_MdFieldMixin2.default],
  inject: ['MdField'],
  props: {
    id: {
      type: String,
      default: function _default() {
        return 'md-textarea-' + (0, _MdUuid2.default)();
      }
    },
    mdAutogrow: Boolean
  },
  computed: {
    textareaStyles: function textareaStyles() {
      return {
        height: this.textareaHeight
      };
    }
  },
  methods: {
    getTextAreaLineSize: function getTextAreaLineSize() {
      var style = window.getComputedStyle(this.$el);
```

```
  return parseInt(style.lineHeight, 10);
},
setTextAreaSize: function setTextAreaSize(height) {
  var newHeight = height;

  if (!height) {
    var size = this.getTextAreaLineSize();

    newHeight = calculateContentHeight(this.$el, size);
  }

  this.textareaHeight = newHeight + 'px';
},
applyStyles: function () {
  var _ref = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee()
      {
    var _this = this;

    return regeneratorRuntime.wrap(function _callee$(_context) {
      var this$1 = this;

      while (1) {
        switch (_context.prev = _context.next) {
          case 0:
            if (!this$1.mdAutogrow) {
              _context.next = 6;
              break;
            }

            this$1.setTextAreaSize(32);
            _context.next = 4;
            return this$1.$nextTick();

          case 4:
            this$1.setTextAreaSize();
            window.setTimeout(function () {
              _this.$el.style.overflow = 'auto';
            }, 10);

          case 6:
          case 'end':
            return _context.stop();
        }
      }
    }, _callee, this);
```

```
    }));

    function applyStyles() {
      return _ref.apply(this, arguments);
    }

    return applyStyles;
  }(),
  setTextarea: function setTextarea() {
    this.MdField.textarea = true;
  },
  setAutogrow: function setAutogrow() {
    this.MdField.autogrow = this.mdAutogrow;
  },
  onInput: function onInput() {
    this.setFieldValue();
    this.applyStyles();
  }
},
created: function created() {
  this.setTextarea();
  this.setAutogrow();
},
mounted: function () {
  var _ref2 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee2()
        {
    return regeneratorRuntime.wrap(function _callee2$(_context2) {
      var this$1 = this;

      while (1) {
        switch (_context2.prev = _context2.next) {
          case 0:
            _context2.next = 2;
            return this$1.$nextTick();

          case 2:
            this$1.applyStyles();

          case 3:
          case 'end':
            return _context2.stop();
        }
      }
    }, _callee2, this);
  }));
```

```
    function mounted() {
      return _ref2.apply(this, arguments);
    }

    return mounted;
  }(),
  beforeDestroy: function beforeDestroy() {
    this.setTextarea(false);
  }
});

/***/ }),
/* 267 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdHighlightText = __webpack_require__(268);

var _MdHighlightText2 = _interopRequireDefault(_MdHighlightText);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdHighlightText2.default.name, _MdHighlightText2.default);
};

/***/ }),
/* 268 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdHighlightText_vue__ =
        __webpack_require__(270);
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdHighlightText_vue___default =
```

```
        __webpack_require__.n(__WEBPACK_IMPORTED_MODULE_0__babel_loader_node
        _modules_vue_loader_lib_selector_type_script_index_0_bustCache_MdHighlightText_v
        ue__);
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(269);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */
var __vue_template__ = null;
/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(

        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdHighlightText_vue___default.a,
  __vue_template__,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdHighlightText/MdHighlightText.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 269 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
```

```
/* 270 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _vue = __webpack_require__(7);

var _vue2 = _interopRequireDefault(_vue);

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function getHTMLOutput(str) {
  var text = str;

  if (!text) {
    text = '$&';
  }

  return '<span class="md-highlight-text-match">' + text + '</span>';
}

function fuzzyHighlight(text, term) {
  if (term.length === 0) {
    return text;
  }

  var offset = text.toLowerCase().indexOf(term[0].toLowerCase());

  if (offset === -1) {
    return null;
  }

  var last = 0;
  for (var i = 1; i < term.length; i++) {
    if (text[offset + i] !== term[i]) {
      break;
    }

    last = i;
```

```
  }

  var before = text.slice(0, offset);
  var match = getHTMLOutput(text.slice(offset, offset + last + 1));
  var after = fuzzyHighlight(text.slice(offset + last + 1), term.slice(last + 1));

  return before + match + after;
}

function normalHighlight(text, term) {
  var matches = new RegExp(term + '(?!([^<]+)?<)', 'gi');

  return text.replace(matches, getHTMLOutput());
}

function generateHighlight(_ref, term, isFuzzy) {
  var text = _ref.text;

  if (text && term && term[0]) {
    if (isFuzzy) {
      return fuzzyHighlight(text, term) || text;
    }

    return normalHighlight(text, term);
  }

  return text;
}

exports.default = new _MdComponent2.default({
  name: 'MdHighlightText',
  abstract: true,
  props: {
    mdTerm: String,
    mdFuzzySearch: {
      type: Boolean,
      default: true
    }
  },
  render: function render(createElement) {
    try {
      var defaultSlot = this.$slots.default;

      if (!defaultSlot) {
        return null;
      }
```

```
      if (defaultSlot.length > 1 || defaultSlot[0].tag) {
        throw new Error();
      }

      var HTMLContent = generateHighlight(defaultSlot[0], this.mdTerm, this.mdFuzzySearch);

      return createElement('div', {
        staticClass: 'md-highlight-text',
        class: this.$mdActiveTheme,
        domProps: {
          innerHTML: HTMLContent
        }
      });
    } catch (e) {
      _vue2.default.util.warn('MdHighlightText can only render text nodes.', this);
    }

    return null;
  }
});

/***/ }),
/* 271 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdImage = __webpack_require__(272);

var _MdImage2 = _interopRequireDefault(_MdImage);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdImage2.default.name, _MdImage2.default);
};
```

```
/***/ }),
/* 272 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdImage/MdI
        mage.vue
var MdImage = __webpack_require__(274);
var MdImage_default = /*#__PURE__*/__webpack_require__.n(MdImage);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        4511ea59","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdImage/M
        dImage.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-image", class: [_vm.$mdActiveTheme] },
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdImage_MdImage = (esExports);
// CONCATENATED MODULE: ./src/components/MdImage/MdImage.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(273);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
```

```
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdImage_default.a,
  MdImage_MdImage,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdImage/MdImage.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdImage_MdImage =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 273 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 274 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdImage',
  props: {
    mdSrc: String
```

```
  }
});

/***/ }),
/* 275 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

__webpack_require__(276);

exports.default = function (Vue) {};

/***/ }),
/* 276 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 277 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdList = __webpack_require__(47);

var _MdList2 = _interopRequireDefault(_MdList);

var _MdListItem = __webpack_require__(48);

var _MdListItem2 = _interopRequireDefault(_MdListItem);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
```

```
  (0, _material2.default)(Vue);
  Vue.component(_MdList2.default.name, _MdList2.default);
  Vue.component(_MdListItem2.default.name, _MdListItem2.default);
};

/***/ }),
/* 278 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 279 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
          { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
          source[key]; } } } return target; };

var _MdInteractionEvents = __webpack_require__(49);

var _MdInteractionEvents2 = _interopRequireDefault(_MdInteractionEvents);

var _MdRouterLinkProps = __webpack_require__(12);

var _MdRouterLinkProps2 = _interopRequireDefault(_MdRouterLinkProps);

var _MdListItemDefault = __webpack_require__(280);

var _MdListItemDefault2 = _interopRequireDefault(_MdListItemDefault);

var _MdListItemButton = __webpack_require__(284);

var _MdListItemButton2 = _interopRequireDefault(_MdListItemButton);

var _MdListItemLink = __webpack_require__(286);

var _MdListItemLink2 = _interopRequireDefault(_MdListItemLink);
```

```
var _MdListItemRouter = __webpack_require__(288);

var _MdListItemRouter2 = _interopRequireDefault(_MdListItemRouter);

var _MdListItemExpand = __webpack_require__(290);

var _MdListItemExpand2 = _interopRequireDefault(_MdListItemExpand);

var _MdButton = __webpack_require__(13);

var _MdButton2 = _interopRequireDefault(_MdButton);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function hasExpansion(props) {
  return props.hasOwnProperty('mdExpand') && props.mdExpand !== false;
}

function resolveScopedSlot(props, children) {
  if (hasExpansion(props)) {
    return {
      'md-expand': function mdExpand() {
        return children['md-expand'][0];
      }
    };
  }
}

exports.default = {
  name: 'MdListItem',
  functional: true,
  components: {
    MdButton: _MdButton2.default
  },
  render: function render(createElement, _ref) {
    var parent = _ref.parent,
        props = _ref.props,
        listeners = _ref.listeners,
        data = _ref.data,
        slots = _ref.slots;

    var children = slots();
    var listComponent = _MdListItemDefault2.default;
    var staticClass = 'md-list-item';

    if (hasExpansion(props)) {
```

```
    listComponent = _MdListItemExpand2.default;
   } else if (parent && parent.$router && props.to) {
    listComponent = _MdListItemRouter2.default;
    listComponent.props = (0, _MdRouterLinkProps2.default)(parent, {
     target: String
    });
    delete listComponent.props.href;
   } else if (props.href) {
    listComponent = _MdListItemLink2.default;
   } else {
    var listenerNames = Object.keys(listeners);

    listenerNames.forEach(function (listener) {
     if (_MdInteractionEvents2.default.includes(listener)) {
      listComponent = _MdListItemButton2.default;
     }
    });
   }

   if (data.staticClass) {
    staticClass += ' ' + data.staticClass;
   }

   return createElement('li', _extends({}, data, {
    staticClass: staticClass,
    on: listeners
   }), [createElement(listComponent, {
    props: props,
    scopedSlots: resolveScopedSlot(props, children),
    staticClass: 'md-list-item-container md-button-clean'
   }, children.default)]);
  }
};

/***/ }),
/* 280 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdList/MdListI
        tem/MdListItemDefault.vue
var MdListItemDefault = __webpack_require__(281);
var MdListItemDefault_default = /*#__PURE__*/__webpack_require__.n(MdListItemDefault);
```

```
// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        b4eac868","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdList/MdL
        istItem/MdListItemDefault.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-list-item-default", on: { click: _vm.toggleControl } },
    [
      _c(
        "md-list-item-content",
        { attrs: { "md-disabled": "" } },
        [_vm._t("default")],
        2
      )
    ],
    1
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdListItem_MdListItemDefault = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdListItemDefault_default.a,
  MdListItem_MdListItemDefault,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
```

```
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdList/MdListItem/MdListItemDefault.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdList_MdListItem_MdListItemDefault =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 281 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdListItemMixin = __webpack_require__(11);

var _MdListItemMixin2 = _interopRequireDefault(_MdListItemMixin);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdListItemDefault',
  mixins: [_MdListItemMixin2.default],
  methods: {
    toggleControl: function toggleControl() {
      var control = this.$el.querySelector('.md-checkbox-container, .md-switch-container, .md-
          radio-container');

      if (control) {
        control.click();
      }
    }
  }
}; //
//
//
//
//
//
```

```
//

/***/ }),
/* 282 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdList/MdListI
        tem/MdListItemContent.vue
var MdListItemContent = __webpack_require__(283);
var MdListItemContent_default = /*#__PURE__*/__webpack_require__.n(MdListItemContent);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        af37c3f8","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdList/MdL
        istItem/MdListItemContent.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-ripple",
    {
      staticClass: "md-list-item-content",
      attrs: { "md-disabled": _vm.mdDisabled }
    },
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdListItem_MdListItemContent = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
```

```
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdListItemContent_default.a,
  MdListItem_MdListItemContent,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdList/MdListItem/MdListItemContent.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdList_MdListItem_MdListItemContent =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 283 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdRipple = __webpack_require__(8);

var _MdRipple2 = _interopRequireDefault(_MdRipple);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdListItemContent',
  components: {
    MdRipple: _MdRipple2.default
  },
  props: {
    mdDisabled: Boolean
  }
}; //
//
//
```

```
//
//
//

/***/ }),
/* 284 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdList/MdListI
        tem/MdListItemButton.vue
var MdListItemButton = __webpack_require__(285);
var MdListItemButton_default = /*#__PURE__*/__webpack_require__.n(MdListItemButton);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        4d27ca12","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdList/MdL
        istItem/MdListItemButton.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "button",
    {
      staticClass: "md-list-item-button",
      attrs: { type: "button", disabled: _vm.disabled }
    },
    [
      _c(
        "md-list-item-content",
        { attrs: { "md-disabled": _vm.isDisabled } },
        [_vm._t("default")],
        2
      )
    ],
    1
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdListItem_MdListItemButton = (esExports);
var normalizeComponent = __webpack_require__(0);
```

```
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdListItemButton_default.a,
  MdListItem_MdListItemButton,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdList/MdListItem/MdListItemButton.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdList_MdListItem_MdListItemButton =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 285 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdListItemMixin = __webpack_require__(11);

var _MdListItemMixin2 = _interopRequireDefault(_MdListItemMixin);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdListItemButton',
```

```
  mixins: [_MdListItemMixin2.default]
}; //
//
//
//
//
//
//
//

/***/ }),
/* 286 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdList/MdListI
        tem/MdListItemLink.vue
var MdListItemLink = __webpack_require__(287);
var MdListItemLink_default = /*#__PURE__*/__webpack_require__.n(MdListItemLink);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        49acb202","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdList/MdL
        istItem/MdListItemLink.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "a",
    _vm._b(
      { staticClass: "md-list-item-link" },
      "a",
      { href: _vm.href, disabled: _vm.disabled, target: _vm.target },
      false
    ),
    [
      _c(
        "md-list-item-content",
        { attrs: { "md-disabled": _vm.isDisabled } },
        [_vm._t("default")],
        2
      )
    ],
```

```
    1
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdListItem_MdListItemLink = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdListItemLink_default.a,
  MdListItem_MdListItemLink,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdList/MdListItem/MdListItemLink.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdList_MdListItem_MdListItemLink =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 287 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
```

```
var _MdListItemMixin = __webpack_require__(11);

var _MdListItemMixin2 = _interopRequireDefault(_MdListItemMixin);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdListItemLink',
  mixins: [_MdListItemMixin2.default],
  props: {
    href: String,
    target: String
  }
}; //
//
//
//
//
//
//

/***/ }),
/* 288 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdList/MdListI
        tem/MdListItemRouter.vue
var MdListItemRouter = __webpack_require__(289);
var MdListItemRouter_default = /*#__PURE__*/__webpack_require__.n(MdListItemRouter);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        091cb0e4","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdList/MdL
        istItem/MdListItemRouter.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "router-link",
    _vm._b(
      { staticClass: "md-list-item-router" },
```

```
      "router-link",
      _vm.routerProps,
      false
    ),
    [
      _c(
        "md-list-item-content",
        { attrs: { "md-disabled": _vm.isDisabled } },
        [_vm._t("default")],
        2
      )
    ],
    1
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdListItem_MdListItemRouter = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdListItemRouter_default.a,
  MdListItem_MdListItemRouter,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdList/MdListItem/MdListItemRouter.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}
```

```
/* harmony default export */ var MdList_MdListItem_MdListItemRouter =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 289 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdListItemMixin = __webpack_require__(11);

var _MdListItemMixin2 = _interopRequireDefault(_MdListItemMixin);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdListItemRouter',
  mixins: [_MdListItemMixin2.default],
  computed: {
    routerProps: function routerProps() {
      return this.$props;
    }
  }
}; //
//
//
//
//
//
//

/***/ }),
/* 290 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdList/MdListI
        tem/MdListItemExpand.vue
var MdListItemExpand = __webpack_require__(292);
var MdListItemExpand_default = /*#__PURE__*/__webpack_require__.n(MdListItemExpand);
```

```
// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        378e4342","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdList/MdL
        istItem/MdListItemExpand.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-list-item-expand", class: _vm.expandClasses },
    [
      _c(
        "md-list-item-content",
        {
          attrs: { "md-disabled": _vm.isDisabled },
          nativeOn: {
            click: function($event) {
              _vm.toggleExpand($event);
            }
          }
        },
        [
          _vm._t("default"),
          _vm._v(" "),
          _c("md-arrow-down-icon", { staticClass: "md-list-expand-icon" })
        ],
        2
      ),
      _vm._v(" "),
      _c(
        "div",
        {
          ref: "listExpand",
          staticClass: "md-list-expand",
          style: _vm.expandStyles
        },
        [_vm._t("md-expand")],
        2
      )
    ],
    1
  )
};
```

```
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdListItem_MdListItemExpand = (esExports);
// CONCATENATED MODULE: ./src/components/MdList/MdListItem/MdListItemExpand.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(291);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdListItemExpand_default.a,
  MdListItem_MdListItemExpand,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdList/MdListItem/MdListItemExpand.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdList_MdListItem_MdListItemExpand =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 291 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin
```

```
/***/ }),
/* 292 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _raf = __webpack_require__(9);

var _raf2 = _interopRequireDefault(_raf);

var _MdArrowDownIcon = __webpack_require__(293);

var _MdArrowDownIcon2 = _interopRequireDefault(_MdArrowDownIcon);

var _MdListItemMixin = __webpack_require__(11);

var _MdListItemMixin2 = _interopRequireDefault(_MdListItemMixin);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdListItemExpand',
  components: {
    MdArrowDownIcon: _MdArrowDownIcon2.default
  },
  mixins: [_MdListItemMixin2.default],
  data: function data() {
    return {
      expandStyles: {},
      showContent: false
    };
  },
  computed: {
    expandClasses: function expandClasses() {
      return {
        'md-active': this.showContent
      };
    }
  },
  methods: {
    getChildrenSize: function getChildrenSize() {
      var expandEl = this.$refs.listExpand;
      var size = 0;
```

```
    Array.from(expandEl.children).forEach(function (child) {
      size += child.offsetHeight;
    });

    return size;
  },
  toggleExpand: function toggleExpand() {
    var _this = this;

    (0, _raf2.default)(function () {
      var fullHeight = 0;

      if (!_this.showContent) {
        fullHeight = 'auto'; // this.getChildrenSize() + 'px'
      }

      _this.expandStyles = { height: fullHeight };
      _this.showContent = !_this.showContent;
    });
  }
 }
}; //
//
//
//
//
//
//
//
//
//
//
//
//
//

/***/ }),
/* 293 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/core/icons/MdArrowDownIc
        on.vue
var MdArrowDownIcon = __webpack_require__(294);
```

```
var MdArrowDownIcon_default =
        /*#__PURE__*/__webpack_require__.n(MdArrowDownIcon);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        2443de21","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/core/icons/MdArrowDow
        nIcon.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm._m(0)
};
var staticRenderFns = [
  function() {
    var _vm = this;
    var _h = _vm.$createElement;
    var _c = _vm._self._c || _h;
    return _c("md-icon", { staticClass: "md-icon-image" }, [
      _c(
        "svg",
        {
          attrs: {
            height: "24",
            viewBox: "0 0 24 24",
            width: "24",
            xmlns: "http://www.w3.org/2000/svg"
          }
        },
        [
          _c("path", {
            attrs: { d: "M7.41 7.84L12 12.42l4.59-4.58L18 9.25l-6 6-6-6z" }
          }),
          _vm._v(" "),
          _c("path", { attrs: { d: "M0-.75h24v24H0z", fill: "none" } })
        ]
      )
    ])
  }
];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var icons_MdArrowDownIcon = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */
```

```
/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdArrowDownIcon_default.a,
  icons_MdArrowDownIcon,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/core/icons/MdArrowDownIcon.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var core_icons_MdArrowDownIcon =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 294 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdIcon = __webpack_require__(5);

var _MdIcon2 = _interopRequireDefault(_MdIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdArrowDownIcon',
  components: {
```

```
    MdIcon: _MdIcon2.default
  }
}; //
//
//
//
//
//
//
//
//

/***/ }),
/* 295 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdMenu = __webpack_require__(44);

var _MdMenu2 = _interopRequireDefault(_MdMenu);

var _MdMenuContent = __webpack_require__(45);

var _MdMenuContent2 = _interopRequireDefault(_MdMenuContent);

var _MdMenuItem = __webpack_require__(296);

var _MdMenuItem2 = _interopRequireDefault(_MdMenuItem);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdMenu2.default.name, _MdMenu2.default);
  Vue.component(_MdMenuContent2.default.name, _MdMenuContent2.default);
  Vue.component(_MdMenuItem2.default.name, _MdMenuItem2.default);
};
```

```
/***/ }),
/* 296 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdMenu/MdM
        enuItem.vue
var MdMenuItem = __webpack_require__(297);
var MdMenuItem_default = /*#__PURE__*/__webpack_require__.n(MdMenuItem);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        26762702","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdMenu/M
        dMenuItem.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-list-item",
    _vm._g(
      _vm._b(
        {
          staticClass: "md-menu-item",
          class: [_vm.itemClasses, _vm.$mdActiveTheme],
          attrs: { disabled: _vm.disabled, tabindex: _vm.highlighted && -1 }
        },
        "md-list-item",
        _vm.$attrs,
        false
      ),
      _vm.listeners
    ),
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdMenu_MdMenuItem = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */
```

```
/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdMenuItem_default.a,
  MdMenu_MdMenuItem,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdMenu/MdMenuItem.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdMenu_MdMenuItem =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 297 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdInteractionEvents = __webpack_require__(49);

var _MdInteractionEvents2 = _interopRequireDefault(_MdInteractionEvents);

var _MdListItem = __webpack_require__(48);
```

```
var _MdListItem2 = _interopRequireDefault(_MdListItem);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdMenuItem',
  props: {
    disabled: Boolean
  },
  inject: ['MdMenu'],
  data: function data() {
    return {
      listeners: {},
      highlighted: false
    };
  },
  computed: {
    itemClasses: function itemClasses() {
      return {
        'md-highlight': this.highlighted
      };
    }
  },
  created: function created() {
    var _this = this;

    if (this.MdMenu.closeOnSelect) {
      var listenerNames = Object.keys(this.$listeners);

      listenerNames.forEach(function (listener) {
        if (_MdInteractionEvents2.default.includes(listener)) {
          _this.listeners[listener] = function ($event) {
            if (!_this.disabled) {
              _this.$listeners[listener]($event);
              _this.MdMenu.active = false;

              if (_this.MdMenu.eventObserver) {
                _this.MdMenu.eventObserver.destroy();
              }
            }
          };
        } else {
          _this.listeners[listener] = _this.$listeners[listener];
        }
      });
    } else {
```

```
      this.listeners = this.$listeners;
    }
  }
}); //
//
//
//
//
//

/***/ }),
/* 298 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdProgressBar = __webpack_require__(299);

var _MdProgressBar2 = _interopRequireDefault(_MdProgressBar);

var _MdProgressSpinner = __webpack_require__(302);

var _MdProgressSpinner2 = _interopRequireDefault(_MdProgressSpinner);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdProgressBar2.default.name, _MdProgressBar2.default);
  Vue.component(_MdProgressSpinner2.default.name, _MdProgressSpinner2.default);
};

/***/ }),
/* 299 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
```

```
// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdProgress/Md
        ProgressBar/MdProgressBar.vue
var MdProgressBar = __webpack_require__(301);
var MdProgressBar_default = /*#__PURE__*/__webpack_require__.n(MdProgressBar);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        ec82e758","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdProgress/
        MdProgressBar/MdProgressBar.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c("transition", { attrs: { name: "md-progress-bar", appear: "" } }, [
    _c(
      "div",
      {
        staticClass: "md-progress-bar",
        class: [_vm.progressClasses, _vm.$mdActiveTheme]
      },
      [
        _c("div", {
          staticClass: "md-progress-bar-track",
          style: _vm.progressTrackStyle
        }),
        _vm._v(" "),
        _c("div", {
          staticClass: "md-progress-bar-fill",
          style: _vm.progressValueStyle
        }),
        _vm._v(" "),
        _c("div", {
          staticClass: "md-progress-bar-buffer",
          attrs: { Style: _vm.progressBufferStyle }
        })
      ]
    )
  ])
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdProgressBar_MdProgressBar = (esExports);
```

```
// CONCATENATED
        MODULE: ./src/components/MdProgress/MdProgressBar/MdProgressBar.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(300);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdProgressBar_default.a,
  MdProgressBar_MdProgressBar,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdProgress/MdProgressBar/MdProgressBar.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdProgress_MdProgressBar_MdProgressBar =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 300 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 301 */
/***/ (function(module, exports, __webpack_require__) {
```

```
Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
          { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
          source[key]; } } } return target; }; //
//
//
//
//
//
//
//
//
//

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdPropValidator = __webpack_require__(4);

var _MdPropValidator2 = _interopRequireDefault(_MdPropValidator);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdProgressBar',
  props: {
    mdValue: {
      type: Number,
      default: 0
    },
    mdBuffer: {
      type: Number,
      default: 0
    },
    mdMode: _extends({
      type: String,
      default: 'determinate'
    }, (0, _MdPropValidator2.default)('md-mode', ['determinate', 'indeterminate', 'query', 'buffer']))
```

```
  },
  computed: {
    isDeterminate: function isDeterminate() {
      return this.mdMode === 'determinate';
    },
    isBuffer: function isBuffer() {
      return this.mdMode === 'buffer';
    },
    hasAmountFill: function hasAmountFill() {
      return this.isBuffer || this.isDeterminate;
    },
    progressClasses: function progressClasses() {
      return 'md-' + this.mdMode;
    },
    progressValueStyle: function progressValueStyle() {
      if (this.hasAmountFill) {
        return 'width: ' + this.mdValue + '%';
      }
    },
    progressTrackStyle: function progressTrackStyle() {
      if (this.hasAmountFill) {
        return 'width: ' + this.mdBuffer + '%';
      }
    },
    progressBufferStyle: function progressBufferStyle() {
      if (this.hasAmountFill) {
        return 'left: calc(' + this.mdBuffer + '% + 8px)';
      }
    }
  }
});

/***/ }),
/* 302 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdProgress/Md
        ProgressSpinner/MdProgressSpinner.vue
var MdProgressSpinner = __webpack_require__(304);
var MdProgressSpinner_default = /*#__PURE__*/__webpack_require__.n(MdProgressSpinner);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        0abf13e0","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
```

```
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdProgress/
        MdProgressSpinner/MdProgressSpinner.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "transition",
    { attrs: { name: "md-progress-spinner", appear: "" } },
    [
      _c(
        "div",
        {
          staticClass: "md-progress-spinner",
          class: [_vm.progressClasses, _vm.$mdActiveTheme]
        },
        [
          _c(
            "svg",
            {
              staticClass: "md-progress-spinner-draw",
              style: _vm.svgStyles,
              attrs: {
                preserveAspectRatio: "xMidYMid meet",
                focusable: "false",
                viewBox: "0 0 " + _vm.mdDiameter + " " + _vm.mdDiameter
              }
            },
            [
              _c("circle", {
                staticClass: "md-progress-spinner-circle",
                style: _vm.circleStyles,
                attrs: { cx: "50%", cy: "50%", r: _vm.circleRadius }
              })
            ]
          )
        ]
      )
    ]
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdProgressSpinner_MdProgressSpinner = (esExports);
```

```
// CONCATENATED
        MODULE: ./src/components/MdProgress/MdProgressSpinner/MdProgressSpinner.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(303);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdProgressSpinner_default.a,
  MdProgressSpinner_MdProgressSpinner,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file =
        "src/components/MdProgress/MdProgressSpinner/MdProgressSpinner.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var MdProgress_MdProgressSpinner_MdProgressSpinner =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 303 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 304 */
```

```
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; }; //
//
//
//
//
//
//
//
//
//
//
//
//
//
//

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdPropValidator = __webpack_require__(4);

var _MdPropValidator2 = _interopRequireDefault(_MdPropValidator);

var _MdProgressSpinnerAnimation = __webpack_require__(305);

var _MdProgressSpinnerAnimation2 = _interopRequireDefault(_MdProgressSpinnerAnimation);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _defineProperty(obj, key, value) { if (key in obj) { Object.defineProperty(obj, key,
        { value: value, enumerable: true, configurable: true, writable: true }); } else { obj[key] =
        value; } return obj; }

var MdProgressSpinner = {
```

```
  styleTag: null,
  diameters: new Set()
};

exports.default = new _MdComponent2.default({
  name: 'MdProgressSpinner',
  props: {
    mdValue: {
      type: Number,
      default: 0
    },
    mdDiameter: {
      type: Number,
      default: 60
    },
    mdStroke: {
      type: Number,
      default: 6
    },
    mdMode: _extends({
      type: String,
      default: 'determinate'
    }, (0, _MdPropValidator2.default)('md-mode', ['determinate', 'indeterminate']))
  },
  computed: {
    isDeterminate: function isDeterminate() {
      return this.mdMode === 'determinate';
    },
    isIndeterminate: function isIndeterminate() {
      return this.mdMode === 'indeterminate';
    },
    isIE: function isIE() {
      return navigator.userAgent.toLowerCase().includes('trident');
    },
    progressClasses: function progressClasses() {
      var _ref;

      var animationClass = 'md-progress-spinner-indeterminate';

      if (this.isIE) {
        animationClass += '-fallback';
      }

      return _ref = {}, _defineProperty(_ref, animationClass, true), _defineProperty(_ref, 'md-' +
          this.mdMode, true), _ref;
    },
```

```
  svgStyles: function svgStyles() {
    var size = this.mdDiameter + 'px';

    return {
      width: size,
      height: size
    };
  },
  circleStyles: function circleStyles() {
    return {
      'stroke-dashoffset': this.circleStrokeDashOffset,
      'stroke-dasharray': this.circleStrokeDashArray,
      'stroke-width': this.circleStrokeWidth,
      'animation-name': 'md-progress-spinner-stroke-rotate-' + this.mdDiameter
    };
  },
  circleRadius: function circleRadius() {
    return (this.mdDiameter - this.mdStroke) / 2;
  },
  circleStrokeWidth: function circleStrokeWidth() {
    return this.mdStroke + 'px';
  },
  circleCircumference: function circleCircumference() {
    return 2 * Math.PI * this.circleRadius;
  },
  circleStrokeDashArray: function circleStrokeDashArray() {
    return this.circleCircumference + 'px';
  },
  circleStrokeDashOffset: function circleStrokeDashOffset() {
    if (this.isDeterminate) {
      return this.circleCircumference * (100 - this.mdValue) / 100 + 'px';
    }

    if (this.isIndeterminate && this.isIE) {
      return this.circleCircumference * 0.2 + 'px';
    }

    return null;
  }
},
watch: {
  mdDiameter: function mdDiameter() {
    this.attachStyleTag();
  }
},
methods: {
```

```
    getAnimationCSS: function getAnimationCSS() {
      return _MdProgressSpinnerAnimation2.default.replace(/START_VALUE/g, '' + 0.95 *
          this.circleCircumference).replace(/END_VALUE/g, '' + 0.2 *
          this.circleCircumference).replace(/DIAMETER/g, '' + this.mdDiameter);
    },
    attachStyleTag: function attachStyleTag() {
      var styleTag = MdProgressSpinner.styleTag;

      if (!styleTag) {
        styleTag = document.getElementById('md-progress-spinner-styles');
      }

      if (!styleTag) {
        styleTag = document.createElement('style');

        styleTag.id = 'md-progress-spinner-styles';
        document.head.appendChild(styleTag);
        MdProgressSpinner.styleTag = styleTag;
      }

      if (styleTag && styleTag.sheet) {
        styleTag.sheet.insertRule(this.getAnimationCSS(), 0);
      }

      MdProgressSpinner.diameters.add(this.mdDiameter);
    }
  },
  mounted: function mounted() {
    this.attachStyleTag();
  }
});

/***/ }),
/* 305 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
exports.default = "\n  @keyframes md-progress-spinner-stroke-rotate-DIAMETER {\n    0% {\n
          stroke-dashoffset: START_VALUE;\n      transform: rotate(0);\n    }\n\n    12.5% {\n
          stroke-dashoffset: END_VALUE;\n      transform: rotate(0);\n    }\n\n    12.51% {\n
          stroke-dashoffset: END_VALUE;\n      transform: rotateX(180deg)
          rotate(72.5deg);\n    }\n\n    25% {\n      stroke-dashoffset: START_VALUE;\n
          transform: rotateX(180deg) rotate(72.5deg);\n    }\n\n    25.1% {\n      stroke-dashoffset:
```

```
        START_VALUE;\n      transform: rotate(270deg);\n    }\n\n    37.5% {\n      stroke-
        dashoffset: END_VALUE;\n      transform: rotate(270deg);\n    }\n\n    37.51% {\n
        stroke-dashoffset: END_VALUE;\n      transform: rotateX(180deg)
        rotate(161.5deg);\n    }\n\n    50% {\n      stroke-dashoffset: START_VALUE;\n
        transform: rotateX(180deg) rotate(161.5deg);\n    }\n\n    50.01% {\n      stroke-
        dashoffset: START_VALUE;\n      transform: rotate(180deg);\n    }\n\n    62.5% {\n
        stroke-dashoffset: END_VALUE;\n      transform: rotate(180deg);\n    }\n\n    62.51% {\n
        stroke-dashoffset: END_VALUE;\n      transform: rotateX(180deg)
        rotate(251.5deg);\n    }\n\n    75% {\n      stroke-dashoffset: START_VALUE;\n
        transform: rotateX(180deg) rotate(251.5deg);\n    }\n\n    75.01% {\n      stroke-
        dashoffset: START_VALUE;\n      transform: rotate(90deg);\n    }\n\n    87.5% {\n
        stroke-dashoffset: END_VALUE;\n      transform: rotate(90deg);\n    }\n\n    87.51% {\n
        stroke-dashoffset: END_VALUE;\n      transform: rotateX(180deg)
        rotate(341.5deg);\n    }\n\n    100% {\n      stroke-dashoffset: START_VALUE;\n
        transform: rotateX(180deg) rotate(341.5deg);\n    }\n  }\n";

/***/ }),
/* 306 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdRadio = __webpack_require__(307);

var _MdRadio2 = _interopRequireDefault(_MdRadio);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdRadio2.default.name, _MdRadio2.default);
};

/***/ }),
/* 307 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
```

```
// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdRadio/MdR
        adio.vue
var MdRadio = __webpack_require__(309);
var MdRadio_default = /*#__PURE__*/__webpack_require__.n(MdRadio);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        b5b900ce","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdRadio/M
        dRadio.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-radio", class: [_vm.$mdActiveTheme, _vm.radioClasses] },
    [
      _c(
        "div",
        {
          staticClass: "md-radio-container",
          on: {
            click: function($event) {
              $event.stopPropagation();
              _vm.toggleCheck($event);
            }
          }
        },
        [
          _c(
            "md-ripple",
            {
              attrs: {
                "md-centered": "",
                "md-active": _vm.rippleActive,
                "md-disabled": _vm.disabled
              },
              on: {
                "update:mdActive": function($event) {
                  _vm.rippleActive = $event;
                }
              }
            },
            [
```

```
            _c(
              "input",
              _vm._b(
                { attrs: { type: "radio" } },
                "input",
                {
                  id: _vm.id,
                  name: _vm.name,
                  disabled: _vm.disabled,
                  required: _vm.required,
                  value: _vm.value
                },
                false
              )
            )
          ]
        )
      ],
      1
    ),
    _vm._v(" "),
    _vm.$slots.default
      ? _c(
          "label",
          {
            staticClass: "md-radio-label",
            attrs: { for: _vm.id },
            on: {
              click: function($event) {
                $event.preventDefault();
                _vm.toggleCheck($event);
              }
            }
          },
          [_vm._t("default")],
          2
        )
      : _vm._e()
  ]
 )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdRadio_MdRadio = (esExports);
// CONCATENATED MODULE: ./src/components/MdRadio/MdRadio.vue
```

```
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(308);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdRadio_default.a,
  MdRadio_MdRadio,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdRadio/MdRadio.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdRadio_MdRadio =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 308 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 309 */
/***/ (function(module, exports, __webpack_require__) {
```

```
Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdUuid = __webpack_require__(6);

var _MdUuid2 = _interopRequireDefault(_MdUuid);

var _MdRipple = __webpack_require__(8);

var _MdRipple2 = _interopRequireDefault(_MdRipple);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdRadio',
  components: {
    MdRipple: _MdRipple2.default
  },
  props: {
    model: [String, Number, Boolean],
    value: {
      type: [String, Number, Boolean],
      default: 'on'
    },
    id: {
      type: String,
      default: function _default() {
        return 'md-radio-' + (0, _MdUuid2.default)();
      }
    },
    name: [String, Number],
    required: Boolean,
    disabled: Boolean
  },
  model: {
    prop: 'model',
    event: 'change'
  },
  data: function data() {
    return {
      rippleActive: false
```

```
    };
  },
  computed: {
    isSelected: function isSelected() {
      return this.model === this.value;
    },
    radioClasses: function radioClasses() {
      return {
        'md-checked': this.isSelected,
        'md-disabled': this.disabled,
        'md-required': this.required
      };
    }
  },
  methods: {
    toggleCheck: function toggleCheck() {
      if (!this.disabled) {
        this.rippleActive = true;
        this.$emit('change', this.value);
      }
    }
  }
}); //
//
//
//
//
//
//
//
//
//
//
//
//
//

/***/ }),
/* 310 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
```

```
var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdRipple = __webpack_require__(8);

var _MdRipple2 = _interopRequireDefault(_MdRipple);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdRipple2.default.name, _MdRipple2.default);
};

/***/ }),
/* 311 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdSnackbar = __webpack_require__(312);

var _MdSnackbar2 = _interopRequireDefault(_MdSnackbar);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdSnackbar2.default.name, _MdSnackbar2.default);
};

/***/ }),
/* 312 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
```

```
// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdSnackbar/M
        dSnackbar.vue
var MdSnackbar = __webpack_require__(314);
var MdSnackbar_default = /*#__PURE__*/__webpack_require__.n(MdSnackbar);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        7063bc8f","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdSnackbar
        /MdSnackbar.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm.mdPersistent && _vm.mdDuration !== Infinity
    ? _c(
        "md-portal",
        [
          _c(
            "keep-alive",
            [
              _vm.mdActive
                ? _c(
                    "md-snackbar-content",
                    {
                      attrs: {
                        "md-classes": [_vm.snackbarClasses, _vm.$mdActiveTheme]
                      }
                    },
                    [_vm._t("default")],
                    2
                  )
                : _vm._e()
            ],
            1
          )
        ],
        1
      )
    : _c(
        "md-portal",
        [
          _vm.mdActive
            ? _c(
                "md-snackbar-content",
```

```
            {
              attrs: {
                "md-classes": [_vm.snackbarClasses, _vm.$mdActiveTheme]
              }
            },
            [_vm._t("default")],
            2
          )
        : _vm._e()
    ],
    1
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdSnackbar_MdSnackbar = (esExports);
// CONCATENATED MODULE: ./src/components/MdSnackbar/MdSnackbar.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(313);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdSnackbar_default.a,
  MdSnackbar_MdSnackbar,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdSnackbar/MdSnackbar.vue";
```

```
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdSnackbar_MdSnackbar =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 313 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 314 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; }; //
//
//
//
//
//
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//
//
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//
//
//
//
//

var _MdComponent = __webpack_require__(2);
```

```
var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdPropValidator = __webpack_require__(4);

var _MdPropValidator2 = _interopRequireDefault(_MdPropValidator);

var _MdPortal = __webpack_require__(16);

var _MdPortal2 = _interopRequireDefault(_MdPortal);

var _MdSnackbarContent = __webpack_require__(315);

var _MdSnackbarContent2 = _interopRequireDefault(_MdSnackbarContent);

var _MdSnackbarQueue = __webpack_require__(317);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; }

function _defineProperty(obj, key, value) { if (key in obj) { Object.defineProperty(obj, key,
        { value: value, enumerable: true, configurable: true, writable: true }); } else { obj[key] =
        value; } return obj; }

exports.default = new _MdComponent2.default({
  name: 'MdSnackbar',
  components: {
    MdPortal: _MdPortal2.default,
    MdSnackbarContent: _MdSnackbarContent2.default
  },
  props: {
    mdActive: Boolean,
    mdPersistent: Boolean,
    mdDuration: {
      type: Number,
      default: 4000
    },
    mdPosition: _extends({
      type: String,
      default: 'center'
    }, (0, _MdPropValidator2.default)('md-position', ['center', 'left']))
```

```
},
computed: {
  snackbarClasses: function snackbarClasses() {
    return _defineProperty({}, 'md-position-' + this.mdPosition, true);
  }
},
watch: {
  mdActive: function () {
    var _ref2 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function
        _callee(isActive) {
      return regeneratorRuntime.wrap(function _callee$(_context) {
        var this$1 = this;

        while (1) {
          switch (_context.prev = _context.next) {
            case 0:
              if (!isActive) {
                _context.next = 7;
                break;
              }

              _context.next = 3;
              return (0, _MdSnackbarQueue.createSnackbar)(this$1.mdDuration, this$1);

            case 3:

              this$1.$emit('update:mdActive', false);
              this$1.$emit('md-opened');
              _context.next = 9;
              break;

            case 7:
              (0, _MdSnackbarQueue.destroySnackbar)();
              this$1.$emit('md-closed');

            case 9:
            case 'end':
              return _context.stop();
          }
        }
      }, _callee, this);
    }));

    function mdActive(_x) {
      return _ref2.apply(this, arguments);
    }
```

```
    return mdActive;
  }()
 }
});

/***/ }),
/* 315 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdSnackbar/M
        dSnackbarContent.vue
var MdSnackbarContent = __webpack_require__(316);
var MdSnackbarContent_default =
        /*#__PURE__*/__webpack_require__.n(MdSnackbarContent);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        ffe066cc","hasScoped":false,"buble":{"transforms":{"stripWithFunctional":true}}}!./nod
        e_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdSnackbar
        /MdSnackbarContent.vue
var render = function(_h, _vm) {
 var _c = _vm._c;
 return _c("transition", { attrs: { name: "md-snackbar", appear: "" } }, [
  _c("div", { staticClass: "md-snackbar", class: _vm.props.mdClasses }, [
   _c("div", { staticClass: "md-snackbar-content" }, [_vm._t("default")], 2)
  ])
 ])
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdSnackbar_MdSnackbarContent = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
 var __vue_template_functional__ = true;
/* styles */
var __vue_styles__ = null;
/* scopeId */
```

```
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdSnackbarContent_default.a,
  MdSnackbar_MdSnackbarContent,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdSnackbar/MdSnackbarContent.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdSnackbar_MdSnackbarContent =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 316 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
//
//
//
//
//

exports.default = {
  name: 'MdSnackbarContent',
  props: {
    mdClasses: Array
  }
};
```

```
/***/ }),
/* 317 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; }

var currentSnackbar = null;
var timeout = null;

function createPromise(duration, context) {
  return new Promise(function (resolve) {
    currentSnackbar = {
      destroy: function destroy() {
        currentSnackbar = null;
        resolve();
      }
    };

    if (duration !== Infinity) {
      timeout = window.setTimeout(function () {
        destroySnackbar();
        context._vnode.componentInstance.initDestroy(true);
      }, duration);
    }
  });
}

var destroySnackbar = exports.destroySnackbar = function destroySnackbar() {
  return new Promise(function () {
    var _ref = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function
          _callee(resolve) {
      return regeneratorRuntime.wrap(function _callee$(_context) {
        while (1) {
          switch (_context.prev = _context.next) {
            case 0:
              if (currentSnackbar) {
```

```
            window.clearTimeout(timeout);
            currentSnackbar.destroy();
            window.setTimeout(resolve, 400);
          } else {
            resolve();
          }

        case 1:
        case "end":
          return _context.stop();
      }
    }
  }, _callee, undefined);
}));

  return function (_x) {
    return _ref.apply(this, arguments);
  };
}());
};

var createSnackbar = exports.createSnackbar = function () {
  var _ref2 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function
        _callee2(duration, context) {
  return regeneratorRuntime.wrap(function _callee2$(_context2) {
    while (1) {
      switch (_context2.prev = _context2.next) {
        case 0:
          if (!currentSnackbar) {
            _context2.next = 4;
            break;
          }

          _context2.next = 3;
          return destroySnackbar();

        case 3:
          return _context2.abrupt("return", createPromise(duration, context));

        case 4:
          return _context2.abrupt("return", createPromise(duration, context));

        case 5:
        case "end":
          return _context2.stop();
      }
```

```
      }
    }, _callee2, undefined);
  }));

  return function createSnackbar(_x2, _x3) {
    return _ref2.apply(this, arguments);
  };
}();

/***/ }),
/* 318 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdSpeedDial = __webpack_require__(319);

var _MdSpeedDial2 = _interopRequireDefault(_MdSpeedDial);

var _MdSpeedDialTarget = __webpack_require__(322);

var _MdSpeedDialTarget2 = _interopRequireDefault(_MdSpeedDialTarget);

var _MdSpeedDialContent = __webpack_require__(325);

var _MdSpeedDialContent2 = _interopRequireDefault(_MdSpeedDialContent);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdSpeedDial2.default.name, _MdSpeedDial2.default);
  Vue.component(_MdSpeedDialTarget2.default.name, _MdSpeedDialTarget2.default);
  Vue.component(_MdSpeedDialContent2.default.name, _MdSpeedDialContent2.default);
};

/***/ }),
/* 319 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
```

```
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdSpeedDial/
        MdSpeedDial.vue
var MdSpeedDial = __webpack_require__(321);
var MdSpeedDial_default = /*#__PURE__*/__webpack_require__.n(MdSpeedDial);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        470f76d1","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdSpeedDia
        l/MdSpeedDial.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    {
      staticClass: "md-speed-dial",
      class: [_vm.$mdActiveTheme, _vm.speedDialClasses]
    },
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdSpeedDial_MdSpeedDial = (esExports);
// CONCATENATED MODULE: ./src/components/MdSpeedDial/MdSpeedDial.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(320);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
```

```
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdSpeedDial_default.a,
  MdSpeedDial_MdSpeedDial,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdSpeedDial/MdSpeedDial.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdSpeedDial_MdSpeedDial =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 320 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 321 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; }; //
//
//
//
//
```

```
var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdPropValidator = __webpack_require__(4);

var _MdPropValidator2 = _interopRequireDefault(_MdPropValidator);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _defineProperty(obj, key, value) { if (key in obj) { Object.defineProperty(obj, key,
        { value: value, enumerable: true, configurable: true, writable: true }); } else { obj[key] =
        value; } return obj; }

exports.default = new _MdComponent2.default({
  name: 'MdSpeedDial',
  props: {
    mdEvent: _extends({
      type: String,
      default: 'hover'
    }, (0, _MdPropValidator2.default)('md-event', ['click', 'hover'])),
    mdDirection: _extends({
      type: String,
      default: 'top'
    }, (0, _MdPropValidator2.default)('md-direction', ['top', 'bottom'])),
    mdEffect: _extends({
      type: String,
      default: 'fling'
    }, (0, _MdPropValidator2.default)('md-effect', ['fling', 'scale', 'opacity']))
  },
  data: function data() {
    return {
      MdSpeedDial: {
        active: false,
        event: this.mdEvent,
        direction: this.mdDirection
      }
    };
  },
  provide: function provide() {
    return {
      MdSpeedDial: this.MdSpeedDial
    };
  },
```

```
  computed: {
    speedDialClasses: function speedDialClasses() {
      var _ref;

      return _ref = {
        'md-active': this.MdSpeedDial.active,
        'md-with-hover': this.mdEvent === 'hover'
      }, _defineProperty(_ref, 'md-direction-' + this.mdDirection, true), _defineProperty(_ref, 'md-
          effect-' + this.mdEffect, true), _ref;
    }
  }
});

/***/ }),
/* 322 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdSpeedDial/
        MdSpeedDialTarget.vue
var MdSpeedDialTarget = __webpack_require__(324);
var MdSpeedDialTarget_default =
        /*#__PURE__*/__webpack_require__.n(MdSpeedDialTarget);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        654a757c","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdSpeedDia
        l/MdSpeedDialTarget.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-button",
    _vm._g(
      _vm._b(
        {
          staticClass: "md-speed-dial-target md-fab",
          on: { click: _vm.handleClick }
        },
        "md-button",
        _vm.$attrs,
        false
      ),
```

```
      _vm.$listeners
    ),
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdSpeedDial_MdSpeedDialTarget = (esExports);
// CONCATENATED MODULE: ./src/components/MdSpeedDial/MdSpeedDialTarget.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(323);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdSpeedDialTarget_default.a,
  MdSpeedDial_MdSpeedDialTarget,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdSpeedDial/MdSpeedDialTarget.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdSpeedDial_MdSpeedDialTarget =
        __webpack_exports__["default"] = (Component.exports);
```

```
/***/ }),
/* 323 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 324 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdButton = __webpack_require__(13);

var _MdButton2 = _interopRequireDefault(_MdButton);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdSpeedDialTarget',
  components: {
    MdButton: _MdButton2.default
  },
  inject: ['MdSpeedDial'],
  methods: {
    handleClick: function handleClick() {
      if (this.MdSpeedDial.event === 'click') {
        this.MdSpeedDial.active = !this.MdSpeedDial.active;
      }
    }
  }
}; //
//
//
//
//

/***/ }),
/* 325 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
```

```
// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdSpeedDial/
        MdSpeedDialContent.vue
var MdSpeedDialContent = __webpack_require__(327);
var MdSpeedDialContent_default =
        /*#__PURE__*/__webpack_require__.n(MdSpeedDialContent);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        45ac6418","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdSpeedDia
        l/MdSpeedDialContent.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-speed-dial-content" },
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdSpeedDial_MdSpeedDialContent = (esExports);
// CONCATENATED MODULE: ./src/components/MdSpeedDial/MdSpeedDialContent.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(326);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
```

```
var Component = normalizeComponent(
  MdSpeedDialContent_default.a,
  MdSpeedDial_MdSpeedDialContent,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdSpeedDial/MdSpeedDialContent.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdSpeedDial_MdSpeedDialContent =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 326 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 327 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; }

//
//
//
//
//
//
```

```
function getChildIndex(direction, index, count) {
  if (direction === 'top') {
    return count - index - 1;
  }

  return index;
}

exports.default = {
  name: 'MdSpeedDialContent',
  inject: ['MdSpeedDial'],
  methods: {
    setChildrenIndexes: function () {
      var _ref = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee()
          {
        var _this = this;

        var countChild;
        return regeneratorRuntime.wrap(function _callee$(_context) {
          var this$1 = this;

          while (1) {
            switch (_context.prev = _context.next) {
              case 0:
                _context.next = 2;
                return this$1.$nextTick();

              case 2:
                countChild = this$1.$children.length;


                this$1.$children.forEach(function (child, index) {
                  if (child._vnode.tag === 'button') {
                    var childIndex = getChildIndex(_this.MdSpeedDial.direction, index, countChild);

                    child.$el.setAttribute('md-button-index', childIndex);
                    child.$el.classList.add('md-raised');
                  }
                });

              case 4:
              case 'end':
                return _context.stop();
            }
          }
        }, _callee, this);
```

```
    }));

    function setChildrenIndexes() {
      return _ref.apply(this, arguments);
    }

    return setChildrenIndexes;
  }()
 },
 mounted: function mounted() {
  this.setChildrenIndexes();
 },
 updated: function updated() {
  this.setChildrenIndexes();
 }
};

/***/ }),
/* 328 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
 value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdSteppers = __webpack_require__(329);

var _MdSteppers2 = _interopRequireDefault(_MdSteppers);

var _MdStep = __webpack_require__(339);

var _MdStep2 = _interopRequireDefault(_MdStep);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
 (0, _material2.default)(Vue);
 Vue.component(_MdSteppers2.default.name, _MdSteppers2.default);
 Vue.component(_MdStep2.default.name, _MdStep2.default);
};
```

```
/***/ }),
/* 329 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdSteppers/Md
        Steppers.vue
var MdSteppers = __webpack_require__(331);
var MdSteppers_default = /*#__PURE__*/__webpack_require__.n(MdSteppers);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        95acb722","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdSteppers/
        MdSteppers.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    {
      staticClass: "md-steppers",
      class: [_vm.steppersClasses, _vm.$mdActiveTheme]
    },
    [
      !_vm.mdVertical
        ? _c(
            "div",
            { staticClass: "md-steppers-navigation" },
            _vm._l(_vm.MdSteppers.items, function(_, index) {
              return _c("md-step-header", {
                key: index,
                attrs: { index: index }
              })
            })
          )
        : _vm._e(),
      _vm._v(" "),
      _c(
        "div",
        { staticClass: "md-steppers-wrapper", style: _vm.contentStyles },
        [
          _c(
            "div",
```

```
          {
            staticClass: "md-steppers-container",
            style: _vm.containerStyles
          },
          [_vm._t("default")],
          2
        )
      ]
    )
  ]
 )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdSteppers_MdSteppers = (esExports);
// CONCATENATED MODULE: ./src/components/MdSteppers/MdSteppers.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(330);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdSteppers_default.a,
  MdSteppers_MdSteppers,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdSteppers/MdSteppers.vue";
```

```
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdSteppers_MdSteppers =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 330 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 331 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdObserveElement = __webpack_require__(26);

var _MdObserveElement2 = _interopRequireDefault(_MdObserveElement);

var _MdStepHeader = __webpack_require__(50);

var _MdStepHeader2 = _interopRequireDefault(_MdStepHeader);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; } //
//
//
```

```
//
//
//
//
//
//
//
//
//
//

exports.default = new _MdComponent2.default({
  name: 'MdSteppers',
  components: {
    MdStepHeader: _MdStepHeader2.default
  },
  props: {
    mdSyncRoute: Boolean,
    mdDynamicHeight: Boolean,
    mdVertical: Boolean,
    mdLinear: Boolean,
    mdAlternative: Boolean,
    mdActiveStep: [String, Number]
  },
  data: function data() {
    return {
      activeStepIndex: 0,
      noTransition: true,
      containerStyles: {},
      contentStyles: {},
      MdSteppers: {
        activeStep: 0,
        isLinear: false,
        isVertical: false,
        items: {}
      }
    };
  },
  provide: function provide() {
    var MdSteppers = this.MdSteppers;

    MdSteppers.getStepperNumber = this.getStepperNumber;
    MdSteppers.setActiveStep = this.setActiveStep;
    MdSteppers.isPreviousStepperDone = this.isPreviousStepperDone;

    return { MdSteppers: MdSteppers };
```

```
},

computed: {
  steppersClasses: function steppersClasses() {
    return {
      'md-no-transition': this.noTransition,
      'md-alternative': this.mdAlternative,
      'md-horizontal': !this.mdVertical,
      'md-vertical': this.mdVertical,
      'md-dynamic-height': this.mdDynamicHeight
    };
  },
  activeIndex: function activeIndex() {
    return this.MdSteppers.activeStep;
  }
},
watch: {
  mdActiveStep: function mdActiveStep(stepper) {
    this.MdSteppers.activeStep = stepper;
    this.$emit('md-changed', stepper);
  },
  mdLinear: function mdLinear(isLinear) {
    this.MdSteppers.isLinear = isLinear;
  },
  mdVertical: function mdVertical(isVertical) {
    this.MdSteppers.isVertical = isVertical;
  },
  activeIndex: function () {
    var _ref = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee()
        {
      return regeneratorRuntime.wrap(function _callee$(_context) {
        var this$1 = this;

        while (1) {
          switch (_context.prev = _context.next) {
            case 0:
              _context.next = 2;
              return this$1.$nextTick();

            case 2:
              this$1.setActiveStepIndex();
              this$1.calculateStepperPos();

            case 4:
            case 'end':
              return _context.stop();
```

```
          }
        }
      }, _callee, this);
    }));

    function activeIndex() {
      return _ref.apply(this, arguments);
    }

    return activeIndex;
  }()
},
methods: {
  hasActiveStep: function hasActiveStep() {
    return this.MdSteppers.activeStep || this.mdActiveStep;
  },
  getItemsAndKeys: function getItemsAndKeys() {
    var items = this.MdSteppers.items;

    return {
      items: items,
      keys: Object.keys(items)
    };
  },
  getStepperNumber: function getStepperNumber(id) {
    var stepperNames = Object.keys(this.MdSteppers.items);

    return stepperNames.indexOf(id) + 1;
  },
  isStepperDone: function isStepperDone(id) {
    return this.MdSteppers.items[id].done;
  },
  isPreviousStepperDone: function isPreviousStepperDone(id) {
    var items = this.MdSteppers.items;

    var stepperNames = Object.keys(items);
    var activeIndex = this.getStepperNumber(id) - 2;
    var previousIndex = stepperNames[activeIndex];

    if (!previousIndex) {
      return true;
    }

    return items[previousIndex].done;
  },
  isStepperEditable: function isStepperEditable(id) {
```

```
  return this.MdSteppers.items[id].editable;
},
setStepperAsDone: function setStepperAsDone(id) {
  this.MdSteppers.items[id].done = true;
},
setPreviousStepperAsDone: function setPreviousStepperAsDone(newId) {
  var activeIndex = this.getStepperNumber(this.MdSteppers.activeStep);
  var newIndex = this.getStepperNumber(newId);

  if (newIndex > activeIndex) {
    this.setStepperAsDone(this.MdSteppers.activeStep);
  }
},
setActiveStep: function setActiveStep(id) {
  if (this.mdLinear && !this.isPreviousStepperDone(id)) {
    return false;
  }

  if (id !== this.MdSteppers.activeStep && (this.isStepperEditable(id)
      || !this.isStepperDone(id))) {
    this.setPreviousStepperAsDone(id);
    this.MdSteppers.activeStep = id;
    this.$emit('md-changed', id);
    this.$emit('update:mdActiveStep', id);
    this.MdSteppers.items[id].error = null;
  }
},
setActiveStepIndex: function setActiveStepIndex() {
  var activeButton = this.$el.querySelector('.md-button.md-active');

  if (activeButton) {
    this.activeStepIndex = [].indexOf.call(activeButton.parentNode.childNodes, activeButton);
  }
},
setActiveStepByIndex: function setActiveStepByIndex(index) {
  var _getItemsAndKeys = this.getItemsAndKeys(),
      keys = _getItemsAndKeys.keys;

  if (!this.hasActiveStep()) {
    this.MdSteppers.activeStep = keys[index];
  }
},
setActiveStepByRoute: function setActiveStepByRoute() {
  var this$1 = this;

  var _this = this;
```

```
  var _getItemsAndKeys2 = this.getItemsAndKeys(),
      items = _getItemsAndKeys2.items,
      keys = _getItemsAndKeys2.keys;

  var stepperIndex = null;

  if (this.$router) {
    keys.forEach(function (key, index) {
      var item = items[key];
      var toProp = item.props.to;

      if (toProp && toProp === _this.$route.path) {
        stepperIndex = index;
      }
    });
  }

  if (!this.hasActiveStep() && !stepperIndex) {
    this.MdSteppers.activeStep = keys[0];
  } else {
    this.MdSteppers.activeStep = keys[stepperIndex];

    for (var i = 0; i < stepperIndex; i++) {
      this$1.setStepperAsDone(keys[i]);
    }
  }
},
setupObservers: function setupObservers() {
  var steppersContent = this.$el.querySelector('.md-steppers-wrapper');

  if ('ResizeObserver' in window) {
    this.resizeObserver = new window.ResizeObserver(this.calculateStepperPos);
    this.resizeObserver.observe(this.$el);
  }

  if (steppersContent) {
    this.resizeObserver = (0, _MdObserveElement2.default)(this.$el.querySelector('.md-
        steppers-wrapper'), {
      childList: true,
      characterData: true,
      subtree: true
    }, this.calculateStepperPos);
  }
},
calculateStepperPos: function calculateStepperPos() {
```

```
    if (!this.mdVertical) {
      var stepperElement = this.$el.querySelector('.md-stepper:nth-child(' + (this.activeStepIndex
          + 1) + ')');

      this.contentStyles = {
        height: stepperElement.offsetHeight + 'px'
      };

      this.containerStyles = {
        transform: 'translate3D(' + -this.activeStepIndex * 100 + '%, 0, 0)'
      };
    }
  },
  setupWatchers: function setupWatchers() {
    if (this.mdSyncRoute) {
      this.$watch('$route', {
        deep: true,
        handler: function handler() {
          this.setActiveStepByRoute();
        }
      });
    }
  }
},
created: function created() {
  this.MdSteppers.activeStep = this.mdActiveStep;
  this.MdSteppers.isLinear = this.mdLinear;
  this.MdSteppers.isVertical = this.mdVertical;
},
mounted: function () {
  var _ref2 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee2()
        {
    var _this2 = this;

    return regeneratorRuntime.wrap(function _callee2$(_context2) {
      var this$1 = this;

      while (1) {
        switch (_context2.prev = _context2.next) {
          case 0:
            _context2.next = 2;
            return this$1.$nextTick();

          case 2:

            if (this$1.mdSyncRoute) {
```

```
            this$1.setActiveStepByRoute();
          } else {
            this$1.setActiveStepByIndex(0);
          }

          _context2.next = 5;
          return this$1.$nextTick();

        case 5:

          this$1.setActiveStepIndex();
          this$1.calculateStepperPos();

          window.setTimeout(function () {
            _this2.noTransition = false;
            _this2.setupObservers();
            _this2.setupWatchers();
          }, 100);

        case 8:
        case 'end':
          return _context2.stop();
      }
    }
  }, _callee2, this);
}));

function mounted() {
  return _ref2.apply(this, arguments);
}

return mounted;
}()
});

/***/ }),
/* 332 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdWarningIcon = __webpack_require__(333);
```

```
var _MdWarningIcon2 = _interopRequireDefault(_MdWarningIcon);

var _MdCheckIcon = __webpack_require__(335);

var _MdCheckIcon2 = _interopRequireDefault(_MdCheckIcon);

var _MdEditIcon = __webpack_require__(337);

var _MdEditIcon2 = _interopRequireDefault(_MdEditIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdStepperHeader',
  components: {
    MdWarningIcon: _MdWarningIcon2.default,
    MdCheckIcon: _MdCheckIcon2.default,
    MdEditIcon: _MdEditIcon2.default
  },
  props: {
    index: {
      type: String,
      required: true
    }
  },
  inject: ['MdSteppers'],
  computed: {
    data: function data() {
      return this.MdSteppers.items[this.index];
    },
    shouldDisable: function shouldDisable() {
      var data = this.data,
          index = this.index,
          MdSteppers = this.MdSteppers;


      if (data.done && !data.editable) {
        return true;
      }

      return MdSteppers.isLinear && !MdSteppers.isPreviousStepperDone(index);
    },
    classes: function classes() {
      return {
        'md-active': this.index === this.MdSteppers.activeStep,
        'md-error': this.data.error,
```

```
        'md-done': this.data.done
      };
    }
  }
}; //
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//

/***/ }),
/* 333 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/core/icons/MdWarningIcon.
        vue
var MdWarningIcon = __webpack_require__(334);
var MdWarningIcon_default = /*#__PURE__*/__webpack_require__.n(MdWarningIcon);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        8993dc9c","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/core/icons/MdWarningIc
        on.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm._m(0)
};
var staticRenderFns = [
```

```
  function() {
    var _vm = this;
    var _h = _vm.$createElement;
    var _c = _vm._self._c || _h;
    return _c("md-icon", { staticClass: "md-icon-image" }, [
      _c(
        "svg",
        {
          attrs: {
            height: "24",
            viewBox: "0 0 24 24",
            width: "24",
            xmlns: "http://www.w3.org/2000/svg"
          }
        },
        [
          _c("path", { attrs: { d: "M0 0h24v24H0z", fill: "none" } }),
          _vm._v(" "),
          _c("path", {
            attrs: { d: "M1 21h22L12 2 1 21zm12-3h-2v-2h2v2zm0-4h-2v-4h2v4z" }
          })
        ]
      )
    ])
  }
];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var icons_MdWarningIcon = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdWarningIcon_default.a,
  icons_MdWarningIcon,
  __vue_template_functional__,
```

```
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/core/icons/MdWarningIcon.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var core_icons_MdWarningIcon =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 334 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdIcon = __webpack_require__(5);

var _MdIcon2 = _interopRequireDefault(_MdIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdWarningIcon',
  components: {
    MdIcon: _MdIcon2.default
  }
}; //
//
//
//
//
//
//
//
//

/***/ }),
/* 335 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
```

```
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/core/icons/MdCheckIcon.vu
        e
var MdCheckIcon = __webpack_require__(336);
var MdCheckIcon_default = /*#__PURE__*/__webpack_require__.n(MdCheckIcon);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        4154b05e","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/core/icons/MdCheckIcon.
        vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm._m(0)
};
var staticRenderFns = [
  function() {
    var _vm = this;
    var _h = _vm.$createElement;
    var _c = _vm._self._c || _h;
    return _c("md-icon", { staticClass: "md-icon-image" }, [
      _c(
        "svg",
        {
          attrs: {
            height: "24",
            viewBox: "0 0 24 24",
            width: "24",
            xmlns: "http://www.w3.org/2000/svg"
          }
        },
        [
          _c("path", { attrs: { d: "M0 0h24v24H0z", fill: "none" } }),
          _vm._v(" "),
          _c("path", {
            attrs: { d: "M9 16.17L4.83 12l-1.42 1.41L9 19 21 7l-1.41-1.41z" }
          })
        ]
      )
    ])
  }
];
```

```
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var icons_MdCheckIcon = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdCheckIcon_default.a,
  icons_MdCheckIcon,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/core/icons/MdCheckIcon.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var core_icons_MdCheckIcon = __webpack_exports__["default"] =
        (Component.exports);


/***/ }),
/* 336 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdIcon = __webpack_require__(5);

var _MdIcon2 = _interopRequireDefault(_MdIcon);
```

```
function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdDoneIcon',
  components: {
    MdIcon: _MdIcon2.default
  }
}; //
//
//
//
//
//
//
//
//

/***/ }),
/* 337 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/core/icons/MdEditIcon.vue
var MdEditIcon = __webpack_require__(338);
var MdEditIcon_default = /*#__PURE__*/__webpack_require__.n(MdEditIcon);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        75d6b514","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/core/icons/MdEditIcon.v
        ue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm._m(0)
};
var staticRenderFns = [
  function() {
    var _vm = this;
    var _h = _vm.$createElement;
    var _c = _vm._self._c || _h;
    return _c("md-icon", { staticClass: "md-icon-image" }, [
      _c(
        "svg",
```

```
      {
       attrs: {
         height: "24",
         viewBox: "0 0 24 24",
         width: "24",
         xmlns: "http://www.w3.org/2000/svg"
       }
      },
      [
       _c("path", {
         attrs: {
           d:
             "M3 17.25V21h3.75L17.81 9.94l-3.75-3.75L3 17.25zM20.71 7.04c.39-.39.39-1.02 0-
         1.41l-2.34-2.34c-.39-.39-1.02-.39-1.41 0l-1.83 1.83 3.75 3.75 1.83-1.83z"
         }
       }),
       _vm._v(" "),
       _c("path", { attrs: { d: "M0 0h24v24H0z", fill: "none" } })
      ]
     )
    ])
  }
];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var icons_MdEditIcon = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdEditIcon_default.a,
  icons_MdEditIcon,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
```

```
);
Component.options.__file = "src/core/icons/MdEditIcon.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var core_icons_MdEditIcon = __webpack_exports__["default"] =
        (Component.exports);


/***/ }),
/* 338 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdIcon = __webpack_require__(5);

var _MdIcon2 = _interopRequireDefault(_MdIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdEditIcon',
  components: {
    MdIcon: _MdIcon2.default
  }
}; //
//
//
//
//
//
//
//

/***/ }),
/* 339 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
```

```
// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdSteppers/Md
        Step.vue
var MdStep = __webpack_require__(341);
var MdStep_default = /*#__PURE__*/__webpack_require__.n(MdStep);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        8624960e","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdSteppers/
        MdStep.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-stepper" },
    [
      _vm.MdSteppers.isVertical
        ? _c("md-step-header", { attrs: { index: _vm.id } })
        : _vm._e(),
      _vm._v(" "),
      _c(
        "div",
        {
          staticClass: "md-stepper-content",
          class: { "md-active": _vm.id === _vm.MdSteppers.activeStep }
        },
        [_vm._t("default")],
        2
      )
    ],
    1
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdSteppers_MdStep = (esExports);
// CONCATENATED MODULE: ./src/components/MdSteppers/MdStep.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(340);
}
```

```
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdStep_default.a,
  MdSteppers_MdStep,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdSteppers/MdStep.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdSteppers_MdStep =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 340 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 341 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
```

```
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
          { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
          source[key]; } } } return target; }; //
//
//
//
//
//
//
//
//
//

var _MdUuid = __webpack_require__(6);

var _MdUuid2 = _interopRequireDefault(_MdUuid);

var _MdStepHeader = __webpack_require__(50);

var _MdStepHeader2 = _interopRequireDefault(_MdStepHeader);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdStep',
  components: {
    MdStepHeader: _MdStepHeader2.default
  },
  props: {
    id: {
      type: String,
      default: function _default() {
        return 'md-stepper-' + (0, _MdUuid2.default)();
      }
    },
    href: [String, Number],
    to: null,
    mdLabel: String,
    mdDescription: String,
    mdError: String,
    mdDone: Boolean,
    mdEditable: {
      type: Boolean,
      default: true
    }
```

```
},
inject: ['MdSteppers'],
watch: {
  $props: {
    deep: true,
    handler: function handler() {
      this.setStepperData();
    }
  }
},
methods: {
  getPropValues: function getPropValues() {
    var _this = this;

    var propNames = Object.keys(this.$options.props);
    var ignoredProps = ['id', 'mdLabel', 'mdDescription', 'mdError', 'mdEditable'];
    var values = {};

    propNames.forEach(function (prop) {
      if (!ignoredProps.includes(prop)) {
        if (_this[prop]) {
          values[prop] = _this[prop];
        } else if (_this.$attrs.hasOwnProperty(prop)) {
          if (prop) {
            values[prop] = _this.$attrs[prop];
          } else {
            values[prop] = true;
          }
        }
      }
    });

    return values;
  },
  setStepperData: function setStepperData() {
    this.$set(this.MdSteppers.items, this.id, {
      label: this.mdLabel,
      description: this.mdDescription,
      error: this.mdError,
      done: this.mdDone,
      editable: this.mdEditable,
      props: this.getPropValues(),
      events: this.$listeners
    });
  },
  setupWatchers: function setupWatchers() {
```

```
    var _this2 = this;

    var getProp = function getProp(prop) {
      if (_this2.MdSteppers.items[_this2.id]) {
        return _this2.MdSteppers.items[_this2.id][prop];
      }
    };

    this.$watch(function () {
      return getProp('error');
    }, function () {
      return _this2.$emit('update:mdError', getProp('error'));
    });

    this.$watch(function () {
      return getProp('done');
    }, function () {
      return _this2.$emit('update:mdDone', getProp('done'));
    });
  }
},
created: function created() {
  this.setStepperData();
  this.setupWatchers();
},
beforeDestroy: function beforeDestroy() {
  this.$delete(this.MdSteppers.items, this.id);
},
render: function render(createElement) {
  var stepperAttrs = {
    staticClass: 'md-stepper',
    attrs: _extends({}, this.$attrs, {
      id: this.id
    }),
    on: this.$listeners
  };

  if (this.href) {
    this.buttonProps = this.$options.props;
  } else if (this.$router && this.to) {
    this.$options.props = MdRouterLinkProps(this, this.$options.props);

    stepperAttrs.props = this.$props;
  }

  return createElement('div', stepperAttrs, this.$slots.default);
```

```
  }
};

/***/ }),
/* 342 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdSubheader = __webpack_require__(343);

var _MdSubheader2 = _interopRequireDefault(_MdSubheader);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdSubheader2.default.name, _MdSubheader2.default);
};

/***/ }),
/* 343 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdSubheader/
        MdSubheader.vue
var MdSubheader = __webpack_require__(345);
var MdSubheader_default = /*#__PURE__*/__webpack_require__.n(MdSubheader);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        7ff30e86","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdSubheade
        r/MdSubheader.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
```

```
  var _c = _vm._self._c || _h;
  return _vm.insideList
    ? _c(
        "li",
        { staticClass: "md-subheader", class: [_vm.$mdActiveTheme] },
        [_vm._t("default")],
        2
      )
    : _c(
        "div",
        { staticClass: "md-subheader", class: [_vm.$mdActiveTheme] },
        [_vm._t("default")],
        2
      )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdSubheader_MdSubheader = (esExports);
// CONCATENATED MODULE: ./src/components/MdSubheader/MdSubheader.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(344);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdSubheader_default.a,
  MdSubheader_MdSubheader,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
```

```
Component.options.__file = "src/components/MdSubheader/MdSubheader.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdSubheader_MdSubheader =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 344 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 345 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdSubheader',
  computed: {
    insideList: function insideList() {
      return this.$parent.$options._componentTag === 'md-list';
    }
  }
}); //
//
//
//
//
//
//
//
```

```
//

/***/ }),
/* 346 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdSwitch = __webpack_require__(347);

var _MdSwitch2 = _interopRequireDefault(_MdSwitch);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdSwitch2.default.name, _MdSwitch2.default);
};

/***/ }),
/* 347 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdSwitch/MdS
        witch.vue
var MdSwitch = __webpack_require__(349);
var MdSwitch_default = /*#__PURE__*/__webpack_require__.n(MdSwitch);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        5ff953a2","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdSwitch/
        MdSwitch.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
```

```
return _c(
  "div",
  { staticClass: "md-switch", class: [_vm.$mdActiveTheme, _vm.checkClasses] },
  [
    _c(
      "div",
      {
        staticClass: "md-switch-container",
        on: {
          click: function($event) {
            $event.stopPropagation();
            _vm.toggleCheck($event);
          }
        }
      },
      [
        _c(
          "div",
          { staticClass: "md-switch-thumb" },
          [
            _c(
              "md-ripple",
              {
                attrs: {
                  "md-centered": "",
                  "md-active": _vm.rippleActive,
                  "md-disabled": _vm.disabled
                },
                on: {
                  "update:mdActive": function($event) {
                    _vm.rippleActive = $event;
                  }
                }
              },
              [
                _c(
                  "input",
                  _vm._b(
                    { attrs: { type: "checkbox" } },
                    "input",
                    {
                      id: _vm.id,
                      name: _vm.name,
                      disabled: _vm.disabled,
                      required: _vm.required,
                      value: _vm.value
```

```
                },
                false
              )
            )
          ]
        )
      ],
      1
    )
  ]
),
_vm._v(" "),
_vm.$slots.default
  ? _c(
      "label",
      {
        staticClass: "md-switch-label",
        attrs: { for: _vm.id },
        on: {
          click: function($event) {
            $event.preventDefault();
            _vm.toggleCheck($event);
          }
        }
      },
      [_vm._t("default")],
      2
    )
  : _vm._e()
 ]
)
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdSwitch_MdSwitch = (esExports);
// CONCATENATED MODULE: ./src/components/MdSwitch/MdSwitch.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(348);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */
```

```
/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdSwitch_default.a,
  MdSwitch_MdSwitch,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdSwitch/MdSwitch.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdSwitch_MdSwitch =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 348 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 349 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdCheckboxMixin = __webpack_require__(33);
```

```
var _MdCheckboxMixin2 = _interopRequireDefault(_MdCheckboxMixin);

var _MdUuid = __webpack_require__(6);

var _MdUuid2 = _interopRequireDefault(_MdUuid);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdSwitch',
  mixins: [_MdCheckboxMixin2.default],
  props: {
    id: {
      type: String,
      default: function _default() {
        return 'md-switch-' + (0, _MdUuid2.default)();
      }
    }
  }
}); //
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//

/***/ }),
/* 350 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
```

```
var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdTableContainer = __webpack_require__(351);

var _MdTableContainer2 = _interopRequireDefault(_MdTableContainer);

var _MdTableToolbar = __webpack_require__(374);

var _MdTableToolbar2 = _interopRequireDefault(_MdTableToolbar);

var _MdTableEmptyState = __webpack_require__(379);

var _MdTableEmptyState2 = _interopRequireDefault(_MdTableEmptyState);

var _MdTableRow = __webpack_require__(51);

var _MdTableRow2 = _interopRequireDefault(_MdTableRow);

var _MdTableHead = __webpack_require__(27);

var _MdTableHead2 = _interopRequireDefault(_MdTableHead);

var _MdTableCell = __webpack_require__(382);

var _MdTableCell2 = _interopRequireDefault(_MdTableCell);

var _MdTablePagination = __webpack_require__(385);

var _MdTablePagination2 = _interopRequireDefault(_MdTablePagination);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component('MdTable', _MdTableContainer2.default);
  Vue.component(_MdTableToolbar2.default.name, _MdTableToolbar2.default);
  Vue.component(_MdTableEmptyState2.default.name, _MdTableEmptyState2.default);
  Vue.component(_MdTableRow2.default.name, _MdTableRow2.default);
  Vue.component(_MdTableHead2.default.name, _MdTableHead2.default);
  Vue.component(_MdTableCell2.default.name, _MdTableCell2.default);
  Vue.component(_MdTablePagination2.default.name, _MdTablePagination2.default);
};

/***/ }),
```

```
/* 351 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
          { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
          source[key]; } } } return target; };

var _MdTable = __webpack_require__(352);

var _MdTable2 = _interopRequireDefault(_MdTable);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function processChildren(children, createElement) {
  var slotNames = ['md-table-toolbar', 'md-table-empty-state', 'md-table-pagination'];
  var nodes = Array.from(children);
  var namedSlots = {};

  nodes.forEach(function (node, index) {
    if (node && node.tag) {
      var tag = node.componentOptions && node.componentOptions.tag;

      if (tag && slotNames.includes(tag)) {
        node.data.slot = tag;
        node.data.attrs = node.data.attrs || {};
        namedSlots[tag] = function () {
          return node;
        };
        nodes.splice(index, 1);
      }
    }
  });

  return {
    childNodes: nodes,
    slots: namedSlots
  };
}
```

```
exports.default = {
  name: 'MdTableContainer',
  functional: true,
  render: function render(createElement, _ref) {
    var data = _ref.data,
        props = _ref.props,
        children = _ref.children;

    var slotChildren = [];
    var scopedSlots = data.scopedSlots;

    if (children) {
      var _processChildren = processChildren(children, createElement),
          childNodes = _processChildren.childNodes,
          slots = _processChildren.slots;

      slotChildren = childNodes;
      scopedSlots = _extends({}, scopedSlots, slots);
    }

    return createElement(_MdTable2.default, _extends({}, data, {
      props: props,
      scopedSlots: scopedSlots
    }), [slotChildren]);
  }
};

/***/ }),
/* 352 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdTable/MdTa
        ble.vue
var MdTable = __webpack_require__(354);
var MdTable_default = /*#__PURE__*/__webpack_require__.n(MdTable);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        aaeced82","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdTable/M
        dTable.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
```

```
var _c = _vm._self._c || _h;
return _c(
  "md-tag-switcher",
  { staticClass: "md-table", attrs: { "md-tag": _vm.contentTag } },
  [
    _vm._t("md-table-toolbar"),
    _vm._v(" "),
    _c(
      "keep-alive",
      [
        _vm.$scopedSlots["md-table-alternate-header"] && _vm.selectedCount
          ? _c(
              "md-table-alternate-header",
              [
                _vm._t("md-table-alternate-header", null, {
                  count: _vm.selectedCount
                })
              ],
              2
            )
          : _vm._e()
      ],
      1
    ),
    _vm._v(" "),
    _vm.mdFixedHeader
      ? _c(
          "div",
          {
            staticClass: "md-table-fixed-header",
            class: _vm.headerClasses,
            style: _vm.headerStyles
          },
          [_c("table", [_c("md-table-thead")], 1)]
        )
      : _vm._e(),
    _vm._v(" "),
    _c(
      "md-content",
      {
        staticClass: "md-table-content md-scrollbar",
        class: _vm.contentClasses,
        style: _vm.contentStyles,
        on: { scroll: _vm.setScroll }
      },
      [
```

```
 _c(
   "table",
   [
     !_vm.mdFixedHeader && _vm.$scopedSlots["md-table-row"]
       ? _c("md-table-thead", { class: _vm.headerClasses })
       : _vm._e(),
     _vm._v(" "),
     !_vm.$scopedSlots["md-table-row"]
       ? _c("tbody", [_vm._t("default")], 2)
       : _vm.value.length
         ? _c(
             "tbody",
             _vm._l(_vm.value, function(item, index) {
               return _c(
                 "md-table-row-ghost",
                 {
                   key: _vm.getRowId(item[_vm.mdModelId]),
                   attrs: {
                     "md-id": _vm.getRowId(item[_vm.mdModelId]),
                     "md-index": index
                   }
                 },
                 [_vm._t("md-table-row", null, { item: item })],
                 2
               )
             })
           )
         : _vm.$scopedSlots["md-table-empty-state"]
           ? _c("tbody", [
               _c("tr", [
                 _c(
                   "td",
                   { attrs: { colspan: _vm.headerCount } },
                   [_vm._t("md-table-empty-state")],
                   2
                 )
               ])
             ])
           : _vm._e()
   ],
   1
 ),
 _vm._v(" "),
 _vm._t("md-table-pagination")
],
2
```

```
      ),
      _vm._v(" "),
      _vm.value ? _vm._t("default") : _vm._e()
    ],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdTable_MdTable = (esExports);
// CONCATENATED MODULE: ./src/components/MdTable/MdTable.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(353);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdTable_default.a,
  MdTable_MdTable,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdTable/MdTable.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdTable_MdTable =
        __webpack_exports__["default"] = (Component.exports);
```

```
/***/ }),
/* 353 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 354 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
          { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
          source[key]; } } } return target; }; //
//
//
//
```

```
//
//
//
```

```
var _MdTableAlternateHeader2 = _interopRequireDefault(_MdTableAlternateHeader);

var _MdTableRow = __webpack_require__(51);

var _MdTableRow2 = _interopRequireDefault(_MdTableRow);

var _MdTableRowGhost = __webpack_require__(372);

var _MdTableRowGhost2 = _interopRequireDefault(_MdTableRowGhost);

var _MdTableCellSelection = __webpack_require__(52);

var _MdTableCellSelection2 = _interopRequireDefault(_MdTableCellSelection);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdTable',
  components: {
    MdTagSwitcher: _MdTagSwitcher2.default,
    MdTableAlternateHeader: _MdTableAlternateHeader2.default,
    MdTableThead: _MdTableThead2.default,
    MdTableRow: _MdTableRow2.default,
    MdTableRowGhost: _MdTableRowGhost2.default,
    MdTableCellSelection: _MdTableCellSelection2.default
  },
  props: {
    value: [Array, Object],
    mdModelId: {
      type: String,
      default: 'id'
    },
    mdCard: Boolean,
    mdFixedHeader: Boolean,
    mdHeight: {
      type: Number,
      default: 400
    },
    mdSort: String,
    mdSortOrder: _extends({
      type: String,
      default: 'asc'
    }, (0, _MdPropValidator2.default)('md-sort-order', ['asc', 'desc'])),
    mdSortFn: {
      type: Function,
```

```
    default: function _default(value) {
      var _this = this;

      return value.sort(function (a, b) {
        var sortBy = _this.MdTable.sort;

        if (_this.MdTable.sortOrder === 'desc') {
          return a[sortBy].localeCompare(b[sortBy]);
        }

        return b[sortBy].localeCompare(a[sortBy]);
      });
    }
  }
},
data: function data() {
  return {
    fixedHeaderPadding: 0,
    hasContentScroll: false,
    MdTable: {
      items: {},
      sort: null,
      sortOrder: null,
      singleSelection: null,
      selectedItems: {},
      selectable: {},
      fixedHeader: null,
      contentPadding: null,
      contentEl: null,
      // computed
      hasValue: this.hasValue,
      // methods
      emitEvent: this.emitEvent,
      sortTable: this.sortTable,
      manageItemSelection: this.manageItemSelection,
      getModel: this.getModel,
      getModelItem: this.getModelItem
    }
  };
},

computed: {
  contentTag: function contentTag() {
    if (this.mdCard) {
      return 'md-card';
    }
```

```
    return 'md-content';
   },
   headerCount: function headerCount() {
    return Object.keys(this.MdTable.items).length;
   },
   selectedCount: function selectedCount() {
    return Object.keys(this.MdTable.selectedItems).length;
   },
   headerStyles: function headerStyles() {
    if (this.mdFixedHeader) {
     return 'padding-right: ' + this.fixedHeaderPadding + 'px';
    }
   },
   hasValue: function hasValue() {
    return this.value && this.value.length !== 0;
   },
   headerClasses: function headerClasses() {
    if (this.mdFixedHeader && this.hasContentScroll || !this.hasValue) {
     return 'md-table-fixed-header-active';
    }
   },
   contentStyles: function contentStyles() {
    if (this.mdFixedHeader) {
     return 'height: ' + this.mdHeight + 'px';
    }
   },
   contentClasses: function contentClasses() {
    if (this.mdFixedHeader && this.value.length === 0) {
     return 'md-table-empty';
    }
   }
  },
  provide: function provide() {
   var MdTable = this.MdTable;

   return { MdTable: MdTable };
  },

  watch: {
   mdSort: {
    immediate: true,
    handler: function handler() {
     this.MdTable.sort = this.mdSort;
    }
   },
```

```
  mdSortOrder: {
    immediate: true,
    handler: function handler() {
      this.MdTable.sortOrder = this.mdSortOrder;
    }
  },
  mdFixedHeader: {
    immediate: true,
    handler: function handler() {
      this.MdTable.fixedHeader = this.mdFixedHeader;
    }
  },
  hasValue: {
    immediate: true,
    handler: function handler() {
      this.MdTable.hasValue = this.hasValue;
    }
  }
},
methods: {
  emitEvent: function emitEvent(eventName, value) {
    this.$emit(eventName, value);
  },
  getRowId: function getRowId(id) {
    if (id) {
      return id;
    }

    return 'md-row-' + (0, _MdUuid2.default)();
  },
  setScroll: function setScroll($event) {
    var _this2 = this;

    (0, _raf2.default)(function () {
      _this2.hasContentScroll = $event.target.scrollTop > 0;
    });
  },
  getContentEl: function getContentEl() {
    return this.$el.querySelector('.md-table-content');
  },
  setContentEl: function setContentEl() {
    this.MdTable.contentEl = this.getContentEl();
  },
  setHeaderPadding: function setHeaderPadding() {
    this.setContentEl();
```

```
    var contentEl = this.MdTable.contentEl;

    var tableEl = contentEl.childNodes[0];

    this.fixedHeaderPadding = contentEl.offsetWidth - tableEl.offsetWidth;
   },
   getModel: function getModel() {
    return this.value;
   },
   getModelItem: function getModelItem(index) {
    return this.value[index];
   },
   manageItemSelection: function manageItemSelection(index) {
    if (this.MdTable.selectedItems[index]) {
     this.$delete(this.MdTable.selectedItems, index);
    } else {
     this.$set(this.MdTable.selectedItems, index, this.value[index]);
    }

    this.sendSelectionEvent();
   },
   sendSelectionEvent: function sendSelectionEvent() {
    this.$emit('md-selected', Object.values(this.MdTable.selectedItems));
   },
   sortTable: function sortTable() {
    if (Array.isArray(this.value)) {
     this.$emit('input', this.mdSortFn(this.value));
    }
   }
  },
  mounted: function mounted() {
   this.setContentEl();

   if (this.mdFixedHeader) {
    this.setHeaderPadding();
   }
  }
};

/***/ }),
/* 355 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
```

```
        b_selector_type_script_index_0_bustCache_MdTagSwitcher_vue__ =
        __webpack_require__(356);
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdTagSwitcher_vue___default =
        __webpack_require__.n(__WEBPACK_IMPORTED_MODULE_0__babel_loader_node
        _modules_vue_loader_lib_selector_type_script_index_0_bustCache_MdTagSwitcher_vu
        e__);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */
var __vue_template__ = null;
/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(

        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdTagSwitcher_vue___default.a,
  __vue_template__,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdTagSwitcher/MdTagSwitcher.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 356 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
```

```
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; };

exports.default = {
  functional: true,
  props: {
    mdTag: {
      type: String,
      default: 'div'
    }
  },
  render: function render(createElement, _ref) {
    var props = _ref.props,
        children = _ref.children,
        data = _ref.data,
        listeners = _ref.listeners;

    return createElement(props.mdTag, _extends({}, data, {
      on: listeners
    }), children);
  }
};

/***/ }),
/* 357 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdTable/MdTa
        bleThead.vue
var MdTableThead = __webpack_require__(358);
var MdTableThead_default = /*#__PURE__*/__webpack_require__.n(MdTableThead);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        8a8392f6","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdTable/M
        dTableThead.vue
var render = function() {
  var _vm = this;
```

```
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c("thead", [
    _c(
      "tr",
      [
        _c("md-table-head-selection"),
        _vm._v(" "),
        _vm._l(_vm.MdTable.items, function(item, index) {
          return _c(
            "md-table-head",
            _vm._b({ key: index }, "md-table-head", item, false)
          )
        })
      ],
      2
    )
  ])
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdTable_MdTableThead = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdTableThead_default.a,
  MdTable_MdTableThead,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdTable/MdTableThead.vue";
```

```
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdTable_MdTableThead =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 358 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdTableHead = __webpack_require__(27);

var _MdTableHead2 = _interopRequireDefault(_MdTableHead);

var _MdTableHeadSelection = __webpack_require__(363);

var _MdTableHeadSelection2 = _interopRequireDefault(_MdTableHeadSelection);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

//
//
//
//
//
//
//
//
//

exports.default = {
  name: 'MdTableThead',
  inject: ['MdTable'],
  components: {
    MdTableHead: _MdTableHead2.default,
    MdTableHeadSelection: _MdTableHeadSelection2.default
  }
};
```

```
/***/ }),
/* 359 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 360 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdUpwardIcon = __webpack_require__(361);

var _MdUpwardIcon2 = _interopRequireDefault(_MdUpwardIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; } //
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
//
```

```
exports.default = {
  name: 'MdTableHead',
  components: {
    MdUpwardIcon: _MdUpwardIcon2.default
  },
  props: {
    mdNumeric: Boolean,
    numeric: Boolean,
    label: String,
    tooltip: String,
    sortBy: String
  },
  inject: ['MdTable'],
  data: function data() {
    return {
      width: null
    };
  },
  computed: {
    hasSort: function hasSort() {
      return this.MdTable.sort && this.sortBy;
    },
    isSorted: function isSorted() {
      if (this.MdTable.sort) {
        return this.MdTable.sort === this.sortBy;
      }
    },
    isDescSorted: function isDescSorted() {
      return this.isSorted && this.MdTable.sortOrder === 'desc';
    },
    isAscSorted: function isAscSorted() {
      return this.isSorted && this.MdTable.sortOrder === 'asc';
    },
    headStyles: function headStyles() {
      return {
        width: this.width + 'px'
      };
    },
    headClasses: function headClasses() {
      return {
        'md-numeric': this.numeric || this.mdNumeric,
        'md-sortable': this.hasSort,
        'md-sorted': this.isSorted,
        'md-sorted-desc': this.isDescSorted
      };
```

```
  }
},
methods: {
  changeSort: function changeSort() {
    if (this.hasSort) {
      if (this.isAscSorted) {
        this.MdTable.sortOrder = 'desc';
      } else {
        this.MdTable.sortOrder = 'asc';
      }

      this.MdTable.sort = this.sortBy;
      this.MdTable.emitEvent('md-sorted', this.MdTable.sort);
      this.MdTable.emitEvent('update:mdSort', this.MdTable.sort);
      this.MdTable.emitEvent('update:mdSortOrder', this.MdTable.sortOrder);
      this.MdTable.sortTable();
    }
  },
  getChildNodesBySelector: function getChildNodesBySelector(el, selector) {
    return Array.from(el.childNodes).filter(function (_ref) {
      var classList = _ref.classList;
      return classList && classList.contains(selector);
    });
  },
  getNodeIndex: function getNodeIndex(nodes, el) {
    return [].indexOf.call(nodes, el);
  },
  setWidth: function setWidth() {
    if (this.MdTable.fixedHeader) {
      var cellSelector = 'md-table-cell';
      var thEls = this.getChildNodesBySelector(this.$el.parentNode, 'md-table-head');
      var tdEls = this.MdTable.contentEl.querySelectorAll('tr:first-child .' + cellSelector);
      var nodeIndex = this.getNodeIndex(thEls, this.$el);

      this.width = tdEls[nodeIndex].offsetWidth;
    }
  }
},
updated: function () {
  var _ref2 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee()
        {
    return regeneratorRuntime.wrap(function _callee$(_context) {
      var this$1 = this;

      while (1) {
        switch (_context.prev = _context.next) {
```

```
        case 0:
          _context.next = 2;
          return this$1.$nextTick();

        case 2:
          this$1.setWidth();

        case 3:
        case 'end':
          return _context.stop();
      }
    }
  }, _callee, this);
}));

function updated() {
  return _ref2.apply(this, arguments);
}

return updated;
}(),
mounted: function () {
  var _ref3 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee2()
        {
    return regeneratorRuntime.wrap(function _callee2$(_context2) {
      var this$1 = this;

      while (1) {
        switch (_context2.prev = _context2.next) {
          case 0:
            _context2.next = 2;
            return this$1.$nextTick();

          case 2:
            this$1.setWidth();

          case 3:
          case 'end':
            return _context2.stop();
        }
      }
    }, _callee2, this);
  }));

  function mounted() {
    return _ref3.apply(this, arguments);
```

```
    }

    return mounted;
  }()
};

/***/ }),
/* 361 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/core/icons/MdUpwardIcon.v
        ue
var MdUpwardIcon = __webpack_require__(362);
var MdUpwardIcon_default = /*#__PURE__*/__webpack_require__.n(MdUpwardIcon);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        235f197a","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/core/icons/MdUpwardIco
        n.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm._m(0)
};
var staticRenderFns = [
  function() {
    var _vm = this;
    var _h = _vm.$createElement;
    var _c = _vm._self._c || _h;
    return _c("md-icon", { staticClass: "md-icon-image" }, [
      _c(
        "svg",
        {
          attrs: {
            height: "24",
            viewBox: "0 0 24 24",
            width: "24",
            xmlns: "http://www.w3.org/2000/svg"
          }
        },
        [
          _c("path", { attrs: { d: "M0 0h24v24H0V0z", fill: "none" } }),
```

```
        _vm._v(" "),
        _c("path", {
          attrs: {
            d: "M4 12l1.41 1.41L11 7.83V20h2V7.83l5.58 5.59L20 12l-8-8-8 8z"
          }
        })
      ]
    )
  ])
}
];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var icons_MdUpwardIcon = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
 var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
 MdUpwardIcon_default.a,
 icons_MdUpwardIcon,
 __vue_template_functional__,
 __vue_styles__,
 __vue_scopeId__,
 __vue_module_identifier__
);
Component.options.__file = "src/core/icons/MdUpwardIcon.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var core_icons_MdUpwardIcon = __webpack_exports__["default"]
        = (Component.exports);


/***/ }),
/* 362 */
```

```
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdIcon = __webpack_require__(5);

var _MdIcon2 = _interopRequireDefault(_MdIcon);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdArrowDownIcon',
  components: {
    MdIcon: _MdIcon2.default
  }
}; //
//
//
//
//
//
//
//
//

/***/ }),
/* 363 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdTable/MdTa
        bleHeadSelection.vue
var MdTableHeadSelection = __webpack_require__(364);
var MdTableHeadSelection_default =
        /*#__PURE__*/__webpack_require__.n(MdTableHeadSelection);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        7fa31cbd","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdTable/M
        dTableHeadSelection.vue
var render = function() {
```

```
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _vm.selectableCount
    ? _c("md-table-head", { staticClass: "md-table-cell-selection" }, [
        _c(
          "div",
          { staticClass: "md-table-cell-container" },
          [
            _c("md-checkbox", {
              attrs: { disabled: _vm.isDisabled },
              on: { change: _vm.onChange },
              model: {
                value: _vm.allSelected,
                callback: function($$v) {
                  _vm.allSelected = $$v;
                },
                expression: "allSelected"
              }
            })
          ],
          1
        )
      ])
    : _vm._e()
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdTable_MdTableHeadSelection = (esExports);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdTableHeadSelection_default.a,
  MdTable_MdTableHeadSelection,
```

```
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdTable/MdTableHeadSelection.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdTable_MdTableHeadSelection =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 364 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdTableHead = __webpack_require__(27);

var _MdTableHead2 = _interopRequireDefault(_MdTableHead);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdTableHeadSelection',
  components: {
    MdTableHead: _MdTableHead2.default
  },
  inject: ['MdTable'],
  data: function data() {
    return {
      allSelected: false
    };
  },
  computed: {
    selectableCount: function selectableCount() {
      return Object.keys(this.selectable).length;
    },
    isDisabled: function isDisabled() {
      return !this.selectableCount;
```

```
    },
    selectable: function selectable() {
      return this.MdTable.selectable;
    },
    selectedItems: function selectedItems() {
      return this.MdTable.selectedItems;
    }
  },
  watch: {
    selectedItems: {
      immediate: true,
      deep: true,
      handler: function handler(items) {
        var _this = this;

        window.setTimeout(function () {
          var countSelected = Object.keys(items).length;

          if (_this.selectableCount > 0 && countSelected > 0) {
            _this.allSelected = countSelected === _this.selectableCount;
          }
        }, 10);
      }
    }
  },
  methods: {
    onChange: function onChange() {
      var _this2 = this;

      Object.values(this.MdTable.selectable).forEach(function (callback) {
        callback(_this2.allSelected);
      });
    }
  }
}; //
//
//
//
//
//
//

/***/ }),
/* 365 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
```

```
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdTable/MdTa
        bleAlternateHeader.vue
var MdTableAlternateHeader = __webpack_require__(367);
var MdTableAlternateHeader_default =
        /*#__PURE__*/__webpack_require__.n(MdTableAlternateHeader);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        4241c118","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdTable/M
        dTableAlternateHeader.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c("transition", { attrs: { name: "md-table-alternate-header" } }, [
    _c(
      "div",
      { staticClass: "md-table-alternate-header" },
      [_vm._t("default")],
      2
    )
  ])
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdTable_MdTableAlternateHeader = (esExports);
// CONCATENATED MODULE: ./src/components/MdTable/MdTableAlternateHeader.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(366);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
```

```
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdTableAlternateHeader_default.a,
  MdTable_MdTableAlternateHeader,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdTable/MdTableAlternateHeader.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdTable_MdTableAlternateHeader =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 366 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 367 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
//
//
//

exports.default = {
  name: 'MdTableAlternateHeader'
```

```
};

/***/ }),
/* 368 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 369 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
          { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
          source[key]; } } } return target; }; //
//
//
//
//
//
//
//
//
//
//
//

var _MdPropValidator = __webpack_require__(4);

var _MdPropValidator2 = _interopRequireDefault(_MdPropValidator);

var _MdTableCellSelection = __webpack_require__(52);

var _MdTableCellSelection2 = _interopRequireDefault(_MdTableCellSelection);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdTableRow',
```

```
components: {
  MdTableCellSelection: _MdTableCellSelection2.default
},
props: {
  mdIndex: [Number, String],
  mdId: [Number, String],
  mdSelectable: _extends({
    type: [String]
  }, (0, _MdPropValidator2.default)('md-selectable', ['multiple', 'single'])),
  mdDisabled: Boolean,
  mdAutoSelect: Boolean
},
inject: ['MdTable'],
data: function data() {
  return {
    index: null,
    isSelected: false
  };
},
computed: {
  selectableCount: function selectableCount() {
    return Object.keys(this.MdTable.selectable).length;
  },
  isSingleSelected: function isSingleSelected() {
    return this.MdTable.singleSelection === this.mdId;
  },
  hasMultipleSelection: function hasMultipleSelection() {
    return this.MdTable.hasValue && this.mdSelectable === 'multiple';
  },
  hasSingleSelection: function hasSingleSelection() {
    return this.MdTable.hasValue && this.mdSelectable === 'single';
  },
  rowClasses: function rowClasses() {
    if (this.MdTable.hasValue) {
      return {
        'md-has-selection': !this.mdDisabled && (this.mdAutoSelect || this.hasSingleSelection),
        'md-selected': this.isSelected,
        'md-selected-single': this.isSingleSelected
      };
    }
  }
},
watch: {
  mdDisabled: function mdDisabled() {
    if (this.mdDisabled) {
      this.removeSelectableItem();
```

```
    } else {
      this.addSelectableItem();
    }
  },
  mdId: function mdId(newId, oldId) {
    this.removeSelectableItem(oldId);
    this.addSelectableItem(newId);
  },
  isSelected: function isSelected() {
    this.MdTable.manageItemSelection(this.mdIndex);
  }
},
methods: {
  onClick: function onClick() {
    if (this.MdTable.hasValue && !this.mdDisabled) {
      if (this.hasMultipleSelection) {
        this.selectRowIfMultiple();
      } else if (this.hasSingleSelection) {
        this.selectRowIfSingle();
      }
    }
  },
  toggleSelection: function toggleSelection() {
    this.isSelected = !this.isSelected;
  },
  selectRowIfSingle: function selectRowIfSingle() {
    if (this.MdTable.singleSelection === this.mdId) {
      this.MdTable.singleSelection = null;
      this.$emit('md-selected', null);
    } else {
      this.MdTable.singleSelection = this.mdId;
      this.$emit('md-selected', this.MdTable.getModelItem(this.mdIndex));
    }
  },
  selectRowIfMultiple: function selectRowIfMultiple() {
    if (this.mdAutoSelect) {
      this.toggleSelection();
    }
  },
  addSelectableItem: function addSelectableItem(id) {
    var _this = this;

    if (this.hasMultipleSelection && !this.mdDisabled) {
      this.$set(this.MdTable.selectable, id || this.mdId, function (isSelected) {
        _this.isSelected = isSelected;
      });
```

```
    }
   },
   removeSelectableItem: function removeSelectableItem(id) {
    if (this.hasMultipleSelection) {
     this.$delete(this.MdTable.selectable, id || this.mdId);
    }
   }
  },
  created: function created() {
   this.addSelectableItem();
  },
  beforeDestroy: function beforeDestroy() {
   this.removeSelectableItem();
  }
};

/***/ }),
/* 370 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 371 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
//
//
//

exports.default = {
  name: 'MdTableCellSelection',
  props: {
   value: Boolean,
   mdRowId: [Number, String],
   mdSelectable: Boolean,
   mdDisabled: Boolean
```

```
  },
  inject: ['MdTable'],
  data: function data() {
    return {
      isSelected: false
    };
  },
  watch: {
    value: function value() {
      this.isSelected = this.value;
    }
  },
  methods: {
    onChange: function onChange() {
      this.$emit('input', this.isSelected);
    }
  }
};

/***/ }),
/* 372 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdTableRowGhost_vue__ =
        __webpack_require__(373);
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdTableRowGhost_vue___default =
        __webpack_require__.n(__WEBPACK_IMPORTED_MODULE_0__babel_loader_node
        _modules_vue_loader_lib_selector_type_script_index_0_bustCache_MdTableRowGhost
        _vue__);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */
var __vue_template__ = null;
/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
```

```
var Component = normalizeComponent(

        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdTableRowGhost_vue___default.a,
  __vue_template__,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdTable/MdTableRowGhost.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 373 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
exports.default = {
  name: 'MdTableRowGhost',
  abstract: true,
  props: {
    mdIndex: [String, Number],
    mdId: [String, Number]
  },
  render: function render() {
    this.$slots.default[0].componentOptions.propsData.mdIndex = this.mdIndex;
    this.$slots.default[0].componentOptions.propsData.mdId = this.mdId;

    return this.$slots.default[0];
  }
};

/***/ }),
/* 374 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
```

```
// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdTable/MdTa
        bleToolbar.vue
var MdTableToolbar = __webpack_require__(376);
var MdTableToolbar_default = /*#__PURE__*/__webpack_require__.n(MdTableToolbar);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        3f6f4028","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdTable/M
        dTableToolbar.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-toolbar",
    {
      staticClass: "md-table-toolbar md-transparent",
      attrs: { "md-elevation": 0 }
    },
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdTable_MdTableToolbar = (esExports);
// CONCATENATED MODULE: ./src/components/MdTable/MdTableToolbar.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(375);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
```

```
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdTableToolbar_default.a,
  MdTable_MdTableToolbar,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdTable/MdTableToolbar.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdTable_MdTableToolbar =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 375 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 376 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdToolbar = __webpack_require__(53);

var _MdToolbar2 = _interopRequireDefault(_MdToolbar);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdTableToolbar',
  components: {
    MdToolbar: _MdToolbar2.default
  },
  inject: ['MdTable']
```

```
}; //
//
//
//
//
//

/***/ }),
/* 377 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 378 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = new _MdComponent2.default({
  name: 'MdToolbar',
  props: {
    mdElevation: {
      type: [String, Number],
      default: 4
    }
  }
}); //
//
//
//
//
//

/***/ }),
/* 379 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
```

```
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdTable/MdTa
        bleEmptyState.vue
var MdTableEmptyState = __webpack_require__(381);
var MdTableEmptyState_default =
        /*#__PURE__*/__webpack_require__.n(MdTableEmptyState);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        6f84743a","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdTable/M
        dTableEmptyState.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-empty-state",
    _vm._b(
      { staticClass: "md-table-empty-state" },
      "md-empty-state",
      _vm.$props,
      false
    ),
    [_vm._t("default")],
    2
  )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdTable_MdTableEmptyState = (esExports);
// CONCATENATED MODULE: ./src/components/MdTable/MdTableEmptyState.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(380);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
```

```
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdTableEmptyState_default.a,
  MdTable_MdTableEmptyState,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdTable/MdTableEmptyState.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdTable_MdTableEmptyState =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 380 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 381 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _MdEmptyState = __webpack_require__(41);

var _MdEmptyState2 = _interopRequireDefault(_MdEmptyState);

var _MdEmptyStateProps = __webpack_require__(42);

var _MdEmptyStateProps2 = _interopRequireDefault(_MdEmptyStateProps);
```

```
function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

//
//
//
//
//
//

exports.default = {
  name: 'MdTableEmptyState',
  props: _MdEmptyStateProps2.default,
  inject: ['MdTable']
};

/***/ }),
/* 382 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdTable/MdTa
        bleCell.vue
var MdTableCell = __webpack_require__(384);
var MdTableCell_default = /*#__PURE__*/__webpack_require__.n(MdTableCell);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        813d6b7e","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdTable/M
        dTableCell.vue

var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c("td", { staticClass: "md-table-cell", class: _vm.cellClasses }, [
    _c(
      "div",
      { staticClass: "md-table-cell-container" },
      [_vm._t("default")],
      2
    )
  ])
};
```

```
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdTable_MdTableCell = (esExports);
// CONCATENATED MODULE: ./src/components/MdTable/MdTableCell.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(383);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdTableCell_default.a,
  MdTable_MdTableCell,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdTable/MdTableCell.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdTable_MdTableCell =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 383 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin
```

```
/***/ }),
/* 384 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
//
//
//
//
//

exports.default = {
  name: 'MdTableCell',
  props: {
    mdLabel: String,
    mdNumeric: Boolean,
    mdTooltip: String,
    mdSortBy: String
  },
  inject: ['MdTable'],
  data: function data() {
    return {
      index: null
    };
  },
  computed: {
    cellClasses: function cellClasses() {
      return {
        'md-numeric': this.mdNumeric
      };
    }
  },
  watch: {
    mdSortBy: function mdSortBy() {
      this.setCellData();
    },
    mdNumeric: function mdNumeric() {
      this.setCellData();
    },
    mdLabel: function mdLabel() {
```

```
    this.setCellData();
   },
   mdTooltip: function mdTooltip() {
    this.setCellData();
   }
  },
  methods: {
   setCellData: function setCellData() {
    var $vm = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : this;

    this.$set(this.MdTable.items, $vm.index, {
     label: $vm.mdLabel,
     numeric: $vm.mdNumeric,
     tooltip: $vm.mdTooltip,
     sortBy: $vm.mdSortBy
    });
   },
   updateAllCellData: function updateAllCellData() {
    var _this = this;

    var cells = Array.from(this.$el.parentNode.childNodes).filter(function (_ref) {
     var tagName = _ref.tagName,
         classList = _ref.classList;

     var isSelection = classList && classList.contains('md-table-cell-selection');
     var isTd = tagName && tagName.toLowerCase() === 'td';

     return isTd && !isSelection;
    });

    cells.forEach(function (cell, index) {
     var $vm = cell.__vue__;

     $vm.index = index;

     _this.setCellData($vm);
    });
   }
  },
  mounted: function mounted() {
   this.updateAllCellData();
  }
};

/***/ }),
/* 385 */
```

```
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdTable/MdTa
        blePagination.vue
var MdTablePagination = __webpack_require__(387);
var MdTablePagination_default = /*#__PURE__*/__webpack_require__.n(MdTablePagination);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        4165698e","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdTable/M
        dTablePagination.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-table-pagination" },
    [
      _vm.mdPageOptions !== false
        ? [
            _c("span", { staticClass: "md-table-pagination-label" }, [
              _vm._v(_vm._s(_vm.mdLabel))
            ]),
            _vm._v(" "),
            _c(
              "md-field",
              [
                _c(
                  "md-select",
                  {
                    attrs: {
                      "md-dense": "",
                      "md-class": "md-pagination-select"
                    },
                    on: { changed: _vm.setPageSize },
                    model: {
                      value: _vm.currentPageSize,
                      callback: function($$v) {
                        _vm.currentPageSize = $$v;
                      },
                      expression: "currentPageSize"
                    }
```

```
            },
            _vm._l(_vm.mdPageOptions, function(amount) {
              return _c(
                "md-option",
                { key: amount, attrs: { value: amount } },
                [_vm._v(_vm._s(amount))]
              )
            })
          )
        ],
        1
      )
    ]
  : _vm._e(),
_vm._v(" "),
_c("span", [
  _vm._v(
    _vm._s(_vm.currentItemCount) +
      "-" +
      _vm._s(_vm.currentPageCount) +
      " " +
      _vm._s(_vm.mdSeparator) +
      " " +
      _vm._s(_vm.mdTotal)
  )
]),
_vm._v(" "),
_c(
  "md-button",
  {
    staticClass: "md-icon-button md-table-pagination-previous",
    attrs: { disabled: _vm.mdPage === 1 },
    on: {
      click: function($event) {
        _vm.goToPrevious();
      }
    }
  },
  [_c("md-icon", [_vm._v("keyboard_arrow_left")])],
  1
),
_vm._v(" "),
_c(
  "md-button",
  {
    staticClass: "md-icon-button md-table-pagination-next",
```

```
        on: {
          click: function($event) {
            _vm.goToNext();
          }
        }
      },
      [_c("md-icon", [_vm._v("keyboard_arrow_right")])],
      1
    )
  ],
  2
 )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdTable_MdTablePagination = (esExports);
// CONCATENATED MODULE: ./src/components/MdTable/MdTablePagination.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(386);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdTablePagination_default.a,
  MdTable_MdTablePagination,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdTable/MdTablePagination.vue";
```

```
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdTable_MdTablePagination =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 386 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 387 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});
//
//
//
```

```
exports.default = {
  name: 'MdTablePagination',
  inject: ['MdTable'],
  props: {
    mdPageSize: {
      type: [String, Number],
      default: 10
    },
    mdPageOptions: {
      type: Array,
      default: function _default() {
        return [10, 25, 50, 100];
      }
    },
    mdPage: {
      type: Number,
      default: 1
    },
    mdTotal: {
      type: [String, Number],
      default: 'Many'
    },
    mdLabel: {
      type: String,
      default: 'Rows per page:'
    },
    mdSeparator: {
      type: String,
      default: 'of'
    }
  },
  data: function data() {
    return {
      currentPageSize: 0
    };
  },
  computed: {
    currentItemCount: function currentItemCount() {
      return (this.mdPage - 1) * this.mdPageSize + 1;
    },
    currentPageCount: function currentPageCount() {
      return this.mdPage * this.mdPageSize;
    }
  },
  watch: {
```

```
    mdPageSize: {
      immediate: true,
      handler: function handler(pageSize) {
        this.currentPageSize = this.pageSize;
      }
    }
  },
  methods: {
    setPageSize: function setPageSize() {
      this.$emit('update:mdPageSize', this.currentPageSize);
    },
    goToPrevious: function goToPrevious() {},
    goToNext: function goToNext() {}
  },
  created: function created() {
    this.currentPageSize = this.mdPageSize;
  }
};

/***/ }),
/* 388 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdTabs = __webpack_require__(389);

var _MdTabs2 = _interopRequireDefault(_MdTabs);

var _MdTab = __webpack_require__(392);

var _MdTab2 = _interopRequireDefault(_MdTab);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdTabs2.default.name, _MdTabs2.default);
  Vue.component(_MdTab2.default.name, _MdTab2.default);
```

```
};

/***/ }),
/* 389 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdTabs/MdTa
        bs.vue
var MdTabs = __webpack_require__(391);
var MdTabs_default = /*#__PURE__*/__webpack_require__.n(MdTabs);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        733c1bef","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdTabs/Md
        Tabs.vue
var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "div",
    { staticClass: "md-tabs", class: [_vm.tabsClasses, _vm.$mdActiveTheme] },
    [
      _c(
        "div",
        { staticClass: "md-tabs-navigation", class: _vm.navigationClasses },
        [
          _vm._l(_vm.MdTabs.items, function(ref, index) {
            var label = ref.label;
            var props = ref.props;
            var icon = ref.icon;
            var disabled = ref.disabled;
            var data = ref.data;
            var events = ref.events;
            return _c(
              "md-button",
              _vm._g(
                _vm._b(
                  {
                    key: index,
                    class: {
                      "md-active": index === _vm.activeTab,
                      "md-icon-label": icon && label
```

```
        },
        attrs: { disabled: disabled },
        nativeOn: {
          click: function($event) {
            _vm.setActiveTab(index);
          }
        }
      },
      "md-button",
      props,
      false
    ),
    events
  ),
  [
    _vm.$scopedSlots["md-tab"]
      ? _vm._t("md-tab", null, {
          tab: { label: label, icon: icon, data: data }
        })
      : [
          !icon
            ? [_vm._v(_vm._s(label))]
            : [
                _vm.isAssetIcon(icon)
                  ? _c("md-icon", {
                      staticClass: "md-tab-icon",
                      attrs: { "md-src": icon }
                    })
                  : _c("md-icon", { staticClass: "md-tab-icon" }, [
                      _vm._v(_vm._s(icon))
                    ]),
                _vm._v(" "),
                _c("span", { staticClass: "md-tab-label" }, [
                  _vm._v(_vm._s(label))
                ])
              ]
        ]
  ],
  2
)
}),
_vm._v(" "),
_c("span", {
  ref: "indicator",
  staticClass: "md-tabs-indicator",
  class: _vm.indicatorClass,
```

```
          style: _vm.indicatorStyles
        })
      ],
      2
    ),
    _vm._v(" "),
    _c(
      "md-content",
      {
        directives: [
          {
            name: "show",
            rawName: "v-show",
            value: _vm.hasContent,
            expression: "hasContent"
          }
        ],
        staticClass: "md-tabs-content",
        style: _vm.contentStyles
      },
      [
        _c(
          "div",
          { staticClass: "md-tabs-container", style: _vm.containerStyles },
          [_vm._t("default")],
          2
        )
      ]
    )
  ],
  1
)
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdTabs_MdTabs = (esExports);
// CONCATENATED MODULE: ./src/components/MdTabs/MdTabs.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(390);
}
var normalizeComponent = __webpack_require__(0);
/* script */
```

```
/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdTabs_default.a,
  MdTabs_MdTabs,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdTabs/MdTabs.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdTabs_MdTabs =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 390 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 391 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
```

```
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; }; //
//
//
//
```

```
var _MdPropValidator = __webpack_require__(4);

var _MdPropValidator2 = _interopRequireDefault(_MdPropValidator);

var _MdObserveElement = __webpack_require__(26);

var _MdObserveElement2 = _interopRequireDefault(_MdObserveElement);

var _MdContent = __webpack_require__(35);

var _MdContent2 = _interopRequireDefault(_MdContent);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; }

function _defineProperty(obj, key, value) { if (key in obj) { Object.defineProperty(obj, key,
        { value: value, enumerable: true, configurable: true, writable: true }); } else { obj[key] =
        value; } return obj; }

exports.default = new _MdComponent2.default({
  name: 'MdTabs',
  mixins: [_MdAssetIcon2.default],
  components: {
    MdContent: _MdContent2.default
  },
  props: {
    mdAlignment: _extends({
      type: String,
      default: 'left'
    }, (0, _MdPropValidator2.default)('md-alignment', ['left', 'right', 'centered', 'fixed'])),
    mdElevation: {
      type: [Number, String],
      default: 0
    },
    mdSyncRoute: Boolean,
    mdDynamicHeight: Boolean,
    mdActiveTab: [String, Number]
  },
  data: function data() {
```

```
  return {
    resizeObserver: null,
    activeTab: 0,
    activeTabIndex: 0,
    indicatorStyles: {},
    indicatorClass: null,
    noTransition: true,
    containerStyles: {},
    contentStyles: {
      height: '0px'
    },
    hasContent: false,
    MdTabs: {
      items: {}
    }
  };
},
provide: function provide() {
  return {
    MdTabs: this.MdTabs
  };
},

computed: {
  tabsClasses: function tabsClasses() {
    var _ref;

    return _ref = {}, _defineProperty(_ref, 'md-alignment-' + this.mdAlignment, true),
        _defineProperty(_ref, 'md-no-transition', this.noTransition), _defineProperty(_ref, 'md-
        dynamic-height', this.mdDynamicHeight), _ref;
  },
  navigationClasses: function navigationClasses() {
    return 'md-elevation-' + this.mdElevation;
  }
},
watch: {
  MdTabs: {
    deep: true,
    handler: function handler() {
      this.setHasContent();
    }
  },
  activeTab: function () {
    var _ref2 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee()
        {
      return regeneratorRuntime.wrap(function _callee$(_context) {
```

```
    var this$1 = this;

    while (1) {
      switch (_context.prev = _context.next) {
        case 0:
          _context.next = 2;
          return this$1.$nextTick();

        case 2:
          this$1.setIndicatorStyles();
          this$1.setActiveTabIndex();
          this$1.calculateTabPos();

        case 5:
        case 'end':
          return _context.stop();
      }
    }
  }, _callee, this);
 }));

 function activeTab() {
  return _ref2.apply(this, arguments);
 }

 return activeTab;
}(),
mdActiveTab: function mdActiveTab(tab) {
 this.activeTab = tab;
 this.$emit('md-changed', tab);
},
mdAlignment: function () {
 var _ref3 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function
      _callee2() {
  return regeneratorRuntime.wrap(function _callee2$(_context2) {
    var this$1 = this;

    while (1) {
      switch (_context2.prev = _context2.next) {
        case 0:
          _context2.next = 2;
          return this$1.$nextTick();

        case 2:
          this$1.setIndicatorStyles();
```

```
          case 3:
          case 'end':
            return _context2.stop();
        }
      }
    }, _callee2, this);
  }));

  function mdAlignment() {
    return _ref3.apply(this, arguments);
  }

  return mdAlignment;
 }()
},
methods: {
 hasActiveTab: function hasActiveTab() {
  return this.activeTab || this.mdActiveTab;
 },
 getItemsAndKeys: function getItemsAndKeys() {
  var items = this.MdTabs.items;

  return {
   items: items,
   keys: Object.keys(items)
  };
 },
 setActiveTab: function setActiveTab(index) {
  this.activeTab = index;
  this.$emit('md-changed', index);
 },
 setActiveTabIndex: function setActiveTabIndex() {
  var activeButton = this.$el.querySelector('.md-button.md-active');

  if (activeButton) {
   this.activeTabIndex = [].indexOf.call(activeButton.parentNode.childNodes, activeButton);
  }
 },
 setActiveTabByIndex: function setActiveTabByIndex(index) {
  var _getItemsAndKeys = this.getItemsAndKeys(),
     keys = _getItemsAndKeys.keys;

  if (!this.hasActiveTab()) {
   this.activeTab = keys[index];
  }
 },
```

```
setActiveTabByRoute: function setActiveTabByRoute() {
  var _this = this;

  var _getItemsAndKeys2 = this.getItemsAndKeys(),
      items = _getItemsAndKeys2.items,
      keys = _getItemsAndKeys2.keys;

  var tabIndex = null;

  if (this.$router) {
    keys.forEach(function (key, index) {
      var item = items[key];
      var toProp = item.props.to;

      if (toProp && toProp === _this.$route.path) {
        tabIndex = index;
      }
    });
  }

  if (!this.hasActiveTab() && !tabIndex) {
    this.activeTab = keys[0];
  } else {
    this.activeTab = keys[tabIndex];
  }
},
setHasContent: function setHasContent() {
  var _getItemsAndKeys3 = this.getItemsAndKeys(),
      items = _getItemsAndKeys3.items,
      keys = _getItemsAndKeys3.keys;

  this.hasContent = keys.some(function (key) {
    return items[key].hasContent;
  });
},
setIndicatorStyles: function setIndicatorStyles() {
  var _this2 = this;


      window.requestAnimationFrame(_asyncToGenerator( /*#__PURE__*/regeneratorRunti
      me.mark(function _callee3() {
    var activeButton, buttonWidth, buttonLeft, indicatorLeft;
    return regeneratorRuntime.wrap(function _callee3$(_context3) {
      while (1) {
        switch (_context3.prev = _context3.next) {
          case 0:
```

```
          _context3.next = 2;
          return _this2.$nextTick();

        case 2:
          activeButton = _this2.$el.querySelector('.md-button.md-active');


          if (activeButton && _this2.$refs.indicator) {
            buttonWidth = activeButton.offsetWidth;
            buttonLeft = activeButton.offsetLeft;
            indicatorLeft = _this2.$refs.indicator.offsetLeft;


            if (indicatorLeft < buttonLeft) {
              _this2.indicatorClass = 'md-tabs-indicator-right';
            } else {
              _this2.indicatorClass = 'md-tabs-indicator-left';
            }

            _this2.indicatorStyles = {
              left: buttonLeft + 'px',
              right: 'calc(100% - ' + (buttonWidth + buttonLeft) + 'px)'
            };
          }

        case 4:
        case 'end':
          return _context3.stop();
      }
    }
  }, _callee3, _this2);
 })));
},
calculateTabPos: function calculateTabPos() {
  if (this.hasContent) {
    var tabElement = this.$el.querySelector('.md-tab:nth-child(' + (this.activeTabIndex + 1) +
       ')');

    this.contentStyles = {
      height: tabElement.offsetHeight + 'px'
    };

    this.containerStyles = {
      transform: 'translate3D(' + -this.activeTabIndex * 100 + '%, 0, 0)'
    };
  }
```

```
  },
  setupObservers: function setupObservers() {
    var _this3 = this;

    if ('ResizeObserver' in window) {
      this.resizeObserver = new window.ResizeObserver(this.setIndicatorStyles);
      this.resizeObserver.observe(this.$el);
    } else {
      this.resizeObserver = (0, _MdObserveElement2.default)(this.$el.querySelector('.md-tabs-
          content'), {
        childList: true,
        characterData: true,
        subtree: true
      }, function () {
        _this3.setIndicatorStyles();
        _this3.calculateTabPos();
      });

      window.addEventListener('resize', this.setIndicatorStyles);
    }
  },
  setupWatchers: function setupWatchers() {
    if (this.mdSyncRoute) {
      this.$watch('$route', {
        deep: true,
        handler: function handler() {
          if (this.mdSyncRoute) {
            this.setActiveTabByRoute();
          }
        }
      });
    }
  }
},
created: function created() {
  this.setHasContent();
  this.activeTab = this.mdActiveTab;
},
mounted: function () {
  var _ref5 = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee4()
        {
    var _this4 = this;

    return regeneratorRuntime.wrap(function _callee4$(_context4) {
      var this$1 = this;
```

```
    while (1) {
      switch (_context4.prev = _context4.next) {
        case 0:
          _context4.next = 2;
          return this$1.$nextTick();

        case 2:

          if (this$1.mdSyncRoute) {
            this$1.setActiveTabByRoute();
          } else {
            this$1.setActiveTabByIndex(0);
          }

          _context4.next = 5;
          return this$1.$nextTick();

        case 5:

          this$1.setActiveTabIndex();
          this$1.calculateTabPos();

          window.setTimeout(function () {
            _this4.noTransition = false;
            _this4.setupObservers();
            _this4.setupWatchers();
          }, 100);

        case 8:
        case 'end':
          return _context4.stop();
      }
    }
  }, _callee4, this);
}));

function mounted() {
  return _ref5.apply(this, arguments);
}

return mounted;
}(),
beforeDestroy: function beforeDestroy() {
if (this.resizeObserver) {
  this.resizeObserver.disconnect();
}
```

```
    window.removeEventListener('resize', this.setIndicatorStyles);
  }
});

/***/ }),
/* 392 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdTab_vue__ =
        __webpack_require__(393);
/* harmony import */ var
        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdTab_vue___default =
        __webpack_require__.n(__WEBPACK_IMPORTED_MODULE_0__babel_loader_node
        _modules_vue_loader_lib_selector_type_script_index_0_bustCache_MdTab_vue__);
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */
var __vue_template__ = null;
/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = null;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(

        __WEBPACK_IMPORTED_MODULE_0__babel_loader_node_modules_vue_loader_li
        b_selector_type_script_index_0_bustCache_MdTab_vue___default.a,
  __vue_template__,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
Component.options.__file = "src/components/MdTabs/MdTab.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}
```

```
/* harmony default export */ __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 393 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
          { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
          source[key]; } } } return target; };

var _MdUuid = __webpack_require__(6);

var _MdUuid2 = _interopRequireDefault(_MdUuid);

var _MdObserveElement = __webpack_require__(26);

var _MdObserveElement2 = _interopRequireDefault(_MdObserveElement);

var _MdRouterLinkProps = __webpack_require__(12);

var _MdRouterLinkProps2 = _interopRequireDefault(_MdRouterLinkProps);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = {
  name: 'MdTab',
  props: {
    id: {
      type: String,
      default: function _default() {
        return 'md-tab-' + (0, _MdUuid2.default)();
      }
    },
    href: [String, Number],
    to: null,
    mdDisabled: Boolean,
    mdLabel: [String, Number],
    mdIcon: String,
```

```
  mdTemplateData: {
    type: Object,
    default: function _default() {
      return {};
    }
  }
},
inject: ['MdTabs'],
data: function data() {
  return {
    observer: null
  };
},
watch: {
  $props: {
    deep: true,
    handler: function handler() {
      this.setTabData();
    }
  },
  $attrs: {
    deep: true,
    handler: function handler() {
      this.setTabData();
    }
  }
},
methods: {
  setTabContent: function setTabContent() {
    this.$set(this.MdTabs.items[this.id], 'hasContent', !!this.$slots.default);
  },
  setupObserver: function setupObserver() {
    this.observer = (0, _MdObserveElement2.default)(this.$el, {
      childList: true
    }, this.setTabContent);
  },
  setTabData: function setTabData() {
    this.$set(this.MdTabs.items, this.id, {
      hasContent: !!this.$slots.default,
      label: this.mdLabel,
      icon: this.mdIcon,
      disabled: this.mdDisabled,
      data: this.mdTemplateData,
      props: this.getPropValues(),
      events: this.$listeners
    });
```

```
  },
  getPropValues: function getPropValues() {
    var _this = this;

    var propNames = Object.keys(this.$options.props);
    var ignoredProps = ['id', 'mdLabel', 'mdDisabled', 'mdTemplateData'];
    var values = {};

    propNames.forEach(function (prop) {
      if (!ignoredProps.includes(prop)) {
        if (_this[prop]) {
          values[prop] = _this[prop];
        } else if (_this.$attrs.hasOwnProperty(prop)) {
          if (prop) {
            values[prop] = _this.$attrs[prop];
          } else {
            values[prop] = true;
          }
        }
      }
    });

    return values;
  }
},
mounted: function mounted() {
  this.setupObserver();
  this.setTabData();
},
beforeDestroy: function beforeDestroy() {
  if (this.observer) {
    this.observer.disconnect();
  }

  this.$delete(this.MdTabs.items, this.id);
},
render: function render(createElement) {
  var tabAttrs = {
    staticClass: 'md-tab',
    attrs: _extends({}, this.$attrs, {
      id: this.id
    }),
    on: this.$listeners
  };

  if (this.href) {
```

```
      this.buttonProps = this.$options.props;
    } else if (this.$router && this.to) {
      this.$options.props = (0, _MdRouterLinkProps2.default)(this, this.$options.props);

      tabAttrs.props = this.$props;
    }

    return createElement('div', tabAttrs, this.$slots.default);
  }
};

/***/ }),
/* 394 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);

var _material2 = _interopRequireDefault(_material);

var _MdToolbar = __webpack_require__(53);

var _MdToolbar2 = _interopRequireDefault(_MdToolbar);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdToolbar2.default.name, _MdToolbar2.default);
};

/***/ }),
/* 395 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _material = __webpack_require__(1);
```

```
var _material2 = _interopRequireDefault(_material);

var _MdTooltip = __webpack_require__(396);

var _MdTooltip2 = _interopRequireDefault(_MdTooltip);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.default = function (Vue) {
  (0, _material2.default)(Vue);
  Vue.component(_MdTooltip2.default.name, _MdTooltip2.default);
};

/***/ }),
/* 396 */
/***/ (function(module, __webpack_exports__, __webpack_require__) {
Object.defineProperty(__webpack_exports__, "__esModule", { value: true });

// EXTERNAL MODULE: ./node_modules/babel-loader/lib!./node_modules/vue-
        loader/lib/selector.js?type=script&index=0&bustCache!./src/components/MdTooltip/Md
        Tooltip.vue
var MdTooltip = __webpack_require__(398);
var MdTooltip_default = /*#__PURE__*/__webpack_require__.n(MdTooltip);

// CONCATENATED MODULE: ./node_modules/vue-loader/lib/template-
        compiler?{"id":"data-v-
        03252be9","hasScoped":false,"buble":{"transforms":{}}}!./node_modules/vue-
        loader/lib/selector.js?type=template&index=0&bustCache!./src/components/MdTooltip/
        MdTooltip.vue

var render = function() {
  var _vm = this;
  var _h = _vm.$createElement;
  var _c = _vm._self._c || _h;
  return _c(
    "md-popover",
    {
      attrs: {
        "md-settings": _vm.popperSettings,
        "md-active": _vm.shouldRender
      }
    },
    [
      _vm.shouldRender
        ? _c("transition", { attrs: { name: "md-tooltip" } }, [
            _c(
```

```
            "div",
            {
              staticClass: "md-tooltip",
              class: [_vm.tooltipClasses, _vm.$mdActiveTheme],
              style: _vm.tooltipStyles
            },
            [_vm._t("default")],
            2
          )
        ])
      : _vm._e()
  ],
  1
 )
};
var staticRenderFns = [];
render._withStripped = true;
var esExports = { render: render, staticRenderFns: staticRenderFns };
/* harmony default export */ var MdTooltip_MdTooltip = (esExports);
// CONCATENATED MODULE: ./src/components/MdTooltip/MdTooltip.vue
var disposed = false;
function injectStyle (ssrContext) {
  if (disposed) { return }
  __webpack_require__(397);
}
var normalizeComponent = __webpack_require__(0);
/* script */

/* template */

/* template functional */
  var __vue_template_functional__ = false;
/* styles */
var __vue_styles__ = injectStyle;
/* scopeId */
var __vue_scopeId__ = null;
/* moduleIdentifier (server only) */
var __vue_module_identifier__ = null;
var Component = normalizeComponent(
  MdTooltip_default.a,
  MdTooltip_MdTooltip,
  __vue_template_functional__,
  __vue_styles__,
  __vue_scopeId__,
  __vue_module_identifier__
);
```

```
Component.options.__file = "src/components/MdTooltip/MdTooltip.vue";
if (Component.esModule && Object.keys(Component.esModule).some(function (key) {  return
        key !== "default" && key.substr(0, 2) !== "__"})) {  console.error("named exports are
        not supported in *.vue files.");}

/* harmony default export */ var components_MdTooltip_MdTooltip =
        __webpack_exports__["default"] = (Component.exports);


/***/ }),
/* 397 */
/***/ (function(module, exports) {

// removed by extract-text-webpack-plugin

/***/ }),
/* 398 */
/***/ (function(module, exports, __webpack_require__) {


Object.defineProperty(exports, "__esModule", {
  value: true
});

var _extends = Object.assign || function (target) {
var arguments$1 = arguments;
 for (var i = 1; i < arguments.length; i++) { var source = arguments$1[i]; for (var key in source)
        { if (Object.prototype.hasOwnProperty.call(source, key)) { target[key] =
        source[key]; } } } return target; }; //
//
//
//
//
//
//
//
//

var _MdComponent = __webpack_require__(2);

var _MdComponent2 = _interopRequireDefault(_MdComponent);

var _MdPropValidator = __webpack_require__(4);

var _MdPropValidator2 = _interopRequireDefault(_MdPropValidator);
```

```
var _MdPopover = __webpack_require__(25);

var _MdPopover2 = _interopRequireDefault(_MdPopover);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _asyncToGenerator(fn) { return function () { var gen = fn.apply(this, arguments); return
        new Promise(function (resolve, reject) { function step(key, arg) { try { var info =
        gen[key](arg); var value = info.value; } catch (error) { reject(error); return; } if
        (info.done) { resolve(value); } else { return Promise.resolve(value).then(function (value)
        { step("next", value); }, function (err) { step("throw", err); }); } } return
        step("next"); }); }; }

exports.default = new _MdComponent2.default({
  name: 'MdTooltip',
  components: {
    MdPopover: _MdPopover2.default
  },
  props: {
    mdActive: Boolean,
    mdDelay: {
      type: [String, Number],
      default: 0
    },
    mdDirection: _extends({
      type: String,
      default: 'bottom'
    }, (0, _MdPropValidator2.default)('md-direction', ['top', 'right', 'bottom', 'left']))
  },
  data: function data() {
    return {
      shouldRender: false,
      targetEl: null
    };
  },
  computed: {
    tooltipClasses: function tooltipClasses() {
      return 'md-tooltip-' + this.mdDirection;
    },
    tooltipStyles: function tooltipStyles() {
      return 'transition-delay: ' + this.mdDelay + 'ms';
    },
    popperSettings: function popperSettings() {
      return {
        placement: this.mdDirection,
```

```
      modifiers: {
        offset: {
          offset: '0, 16'
        }
      }
    };
  }
},
watch: {
  mdActive: function mdActive() {
    this.shouldRender = this.mdActive;
  }
},
methods: {
  show: function show() {
    this.shouldRender = true;
  },
  hide: function hide() {
    this.$emit('update:mdActive', false);
    this.shouldRender = false;
  }
},
mounted: function () {
  var _ref = _asyncToGenerator( /*#__PURE__*/regeneratorRuntime.mark(function _callee() {
    return regeneratorRuntime.wrap(function _callee$(_context) {
      var this$1 = this;

      while (1) {
        switch (_context.prev = _context.next) {
          case 0:
            _context.next = 2;
            return this$1.$nextTick();

          case 2:

            this$1.shouldRender = this$1.mdActive;
            this$1.targetEl = this$1._vnode.componentInstance.originalParentEl;

            if (this$1.targetEl) {
              this$1.targetEl.addEventListener('mouseenter', this$1.show, false);
              this$1.targetEl.addEventListener('mouseleave', this$1.hide, false);
            }

          case 5:
          case 'end':
            return _context.stop();
```

```
          }
        }
      }, _callee, this);
    }));

    function mounted() {
      return _ref.apply(this, arguments);
    }

    return mounted;
  }(),
  beforeDestroy: function beforeDestroy() {
    if (this.targetEl) {
      this.targetEl.removeEventListener('mouseenter', this.show);
      this.targetEl.removeEventListener('mouseleave', this.hide);
    }
  }
});

/***/ })
/******/ ]);
});
});

var VueMaterial = unwrapExports(vueMaterial);

var leafletSrc = createCommonjsModule(function (module, exports) {
/* @preserve
 * Leaflet 1.3.1, a JS library for interactive maps. http://leafletjs.com
 * (c) 2010-2017 Vladimir Agafonkin, (c) 2010-2011 CloudMade
 */

(function (global, factory) {
        factory(exports);
}(commonjsGlobal, (function (exports) {
var version = "1.3.1";

/*
 * @namespace Util
 *
 * Various utility functions, used by Leaflet internally.
 */

var freeze = Object.freeze;
Object.freeze = function (obj) { return obj; };
```

```
// @function extend(dest: Object, src?: Object): Object
// Merges the properties of the `src` object (or multiple objects) into `dest` object and returns the
        latter. Has an `L.extend` shortcut.
function extend(dest) {
        var arguments$1 = arguments;

        var i, j, len, src;

        for (j = 1, len = arguments.length; j < len; j++) {
        src = arguments$1[j];
        for (i in src) {
                dest[i] = src[i];
        }
        }
        return dest;
}

// @function create(proto: Object, properties?: Object): Object
// Compatibility polyfill for
        [Object.create](https://developer.mozilla.org/docs/Web/JavaScript/Reference/Global_Obj
        ects/Object/create)
var create = Object.create || (function () {
        function F() {}
        return function (proto) {
        F.prototype = proto;
        return new F();
        };
})();

// @function bind(fn: Function, …): Function
// Returns a new function bound to the arguments passed, like
        [Function.prototype.bind](https://developer.mozilla.org/docs/Web/JavaScript/Reference/
        Global_Objects/Function/bind).
// Has a `L.bind()` shortcut.
function bind(fn, obj) {
        var slice = Array.prototype.slice;

        if (fn.bind) {
        return fn.bind.apply(fn, slice.call(arguments, 1));
        }

        var args = slice.call(arguments, 2);

        return function () {
        return fn.apply(obj, args.length ? args.concat(slice.call(arguments)) : arguments);
        };
```

```
}

// @property lastId: Number
// Last unique ID used by [`stamp()`](#util-stamp)
var lastId = 0;

// @function stamp(obj: Object): Number
// Returns the unique ID of an object, assigning it one if it doesn't have it.
function stamp(obj) {
	/*eslint-disable */
	obj._leaflet_id = obj._leaflet_id || ++lastId;
	return obj._leaflet_id;
	/* eslint-enable */
}

// @function throttle(fn: Function, time: Number, context: Object): Function
// Returns a function which executes function `fn` with the given scope `context`
// (so that the `this` keyword refers to `context` inside `fn`'s code). The function
// `fn` will be called no more than one time per given amount of `time`. The arguments
// received by the bound function will be any arguments passed when binding the
// function, followed by any arguments passed when invoking the bound function.
// Has an `L.throttle` shortcut.
function throttle(fn, time, context) {
	var lock, args, wrapperFn, later;

	later = function () {
	// reset lock and call if queued
	lock = false;
	if (args) {
		wrapperFn.apply(context, args);
		args = false;
	}
	};

	wrapperFn = function () {
	if (lock) {
		// called too soon, queue to call later
		args = arguments;

	} else {
		// call and lock until later
		fn.apply(context, arguments);
		setTimeout(later, time);
		lock = true;
	}
	};
```

```
	return wrapperFn;
}

// @function wrapNum(num: Number, range: Number[], includeMax?: Boolean): Number
// Returns the number `num` modulo `range` in such a way so it lies within
// `range[0]` and `range[1]`. The returned value will be always smaller than
// `range[1]` unless `includeMax` is set to `true`.
function wrapNum(x, range, includeMax) {
	var max = range[1],
	    min = range[0],
	    d = max - min;
	return x === max && includeMax ? x : ((x - min) % d + d) % d + min;
}

// @function falseFn(): Function
// Returns a function which always returns `false`.
function falseFn() { return false; }

// @function formatNum(num: Number, digits?: Number): Number
// Returns the number `num` rounded to `digits` decimals, or to 6 decimals by default.
function formatNum(num, digits) {
	var pow = Math.pow(10, (digits === undefined ? 6 : digits));
	return Math.round(num * pow) / pow;
}

// @function trim(str: String): String
// Compatibility polyfill for
	[String.prototype.trim](https://developer.mozilla.org/docs/Web/JavaScript/Reference/Glo
	bal_Objects/String/Trim)
function trim(str) {
	return str.trim ? str.trim() : str.replace(/^\s+|\s+$/g, '');
}

// @function splitWords(str: String): String[]
// Trims and splits the string on whitespace and returns the array of parts.
function splitWords(str) {
	return trim(str).split(/\s+/);
}

// @function setOptions(obj: Object, options: Object): Object
// Merges the given properties to the `options` of the `obj` object, returning the resulting options.
	See `Class options`. Has an `L.setOptions` shortcut.
function setOptions(obj, options) {
	if (!obj.hasOwnProperty('options')) {
	obj.options = obj.options ? create(obj.options) : {};
```

```
	}
	for (var i in options) {
	obj.options[i] = options[i];
	}
	return obj.options;
}

// @function getParamString(obj: Object, existingUrl?: String, uppercase?: Boolean): String
// Converts an object into a parameter URL string, e.g. `{a: "foo", b: "bar"}`
// translates to `'?a=foo&b=bar'`. If `existingUrl` is set, the parameters will
// be appended at the end. If `uppercase` is `true`, the parameter names will
// be uppercased (e.g. `'?A=foo&B=bar'`)
function getParamString(obj, existingUrl, uppercase) {
	var params = [];
	for (var i in obj) {
	params.push(encodeURIComponent(uppercase ? i.toUpperCase() : i) + '=' +
	encodeURIComponent(obj[i]));
	}
	return ((!existingUrl || existingUrl.indexOf('?') === -1) ? '?' : '&') + params.join('&');
}

var templateRe = /\{ *([\w_-]+) *\}/g;

// @function template(str: String, data: Object): String
// Simple templating facility, accepts a template string of the form `'Hello {a}, {b}'`
// and a data object like `{a: 'foo', b: 'bar'}`, returns evaluated string
// `('Hello foo, bar')`. You can also specify functions instead of strings for
// data values — they will be evaluated passing `data` as an argument.
function template(str, data) {
	return str.replace(templateRe, function (str, key) {
	var value = data[key];

	if (value === undefined) {
		throw new Error('No value provided for variable ' + str);

	} else if (typeof value === 'function') {
		value = value(data);
	}
	return value;
	});
}

// @function isArray(obj): Boolean
// Compatibility polyfill for
	[Array.isArray](https://developer.mozilla.org/docs/Web/JavaScript/Reference/Global_Ob
	jects/Array/isArray)
```

```
var isArray = Array.isArray || function (obj) {
	return (Object.prototype.toString.call(obj) === '[object Array]');
};

// @function indexOf(array: Array, el: Object): Number
// Compatibility polyfill for
	[Array.prototype.indexOf](https://developer.mozilla.org/docs/Web/JavaScript/Reference/
	Global_Objects/Array/indexOf)
function indexOf(array, el) {
	for (var i = 0; i < array.length; i++) {
	if (array[i] === el) { return i; }
	}
	return -1;
}

// @property emptyImageUrl: String
// Data URI string containing a base64-encoded empty GIF image.
// Used as a hack to free memory from unused images on WebKit-powered
// mobile devices (by setting image `src` to this string).
var emptyImageUrl =
	'';

// inspired by http://paulirish.com/2011/requestanimationframe-for-smart-animating/

function getPrefixed(name) {
	return window['webkit' + name] || window['moz' + name] || window['ms' + name];
}

var lastTime = 0;

// fallback for IE 7-8
function timeoutDefer(fn) {
	var time = +new Date(),
	    timeToCall = Math.max(0, 16 - (time - lastTime));

	lastTime = time + timeToCall;
	return window.setTimeout(fn, timeToCall);
}

var requestFn = window.requestAnimationFrame || getPrefixed('RequestAnimationFrame') ||
	timeoutDefer;
var cancelFn = window.cancelAnimationFrame || getPrefixed('CancelAnimationFrame') ||
	getPrefixed('CancelRequestAnimationFrame') || function (id)
	{ window.clearTimeout(id); };

// @function requestAnimFrame(fn: Function, context?: Object, immediate?: Boolean): Number
```

```
// Schedules `fn` to be executed when the browser repaints. `fn` is bound to
// `context` if given. When `immediate` is set, `fn` is called immediately if
// the browser doesn't have native support for
//
        [`window.requestAnimationFrame`](https://developer.mozilla.org/docs/Web/API/windo
        w/requestAnimationFrame),
// otherwise it's delayed. Returns a request ID that can be used to cancel the request.
function requestAnimFrame(fn, context, immediate) {
        if (immediate && requestFn === timeoutDefer) {
        fn.call(context);
        } else {
        return requestFn.call(window, bind(fn, context));
        }
}

// @function cancelAnimFrame(id: Number): undefined
// Cancels a previous `requestAnimFrame`. See also
        [window.cancelAnimationFrame](https://developer.mozilla.org/docs/Web/API/window/c
        ancelAnimationFrame).
function cancelAnimFrame(id) {
        if (id) {
        cancelFn.call(window, id);
        }
}


var Util = (Object.freeze || Object)({
        freeze: freeze,
        extend: extend,
        create: create,
        bind: bind,
        lastId: lastId,
        stamp: stamp,
        throttle: throttle,
        wrapNum: wrapNum,
        falseFn: falseFn,
        formatNum: formatNum,
        trim: trim,
        splitWords: splitWords,
        setOptions: setOptions,
        getParamString: getParamString,
        template: template,
        isArray: isArray,
        indexOf: indexOf,
        emptyImageUrl: emptyImageUrl,
        requestFn: requestFn,
```

```
	cancelFn: cancelFn,
	requestAnimFrame: requestAnimFrame,
	cancelAnimFrame: cancelAnimFrame
});

// @class Class
// @aka L.Class

// @section
// @uninheritable

// Thanks to John Resig and Dean Edwards for inspiration!

function Class() {}

Class.extend = function (props) {
	var this$1 = this;


	// @function extend(props: Object): Function
	// [Extends the current class](#class-inheritance) given the properties to be included.
	// Returns a Javascript function that is a class constructor (to be called with `new`).
	var NewClass = function () {

	// call the constructor
	if (this.initialize) {
		this.initialize.apply(this, arguments);
	}

	// call all constructor hooks
	this.callInitHooks();
	};

	var parentProto = NewClass.__super__ = this.prototype;

	var proto = create(parentProto);
	proto.constructor = NewClass;

	NewClass.prototype = proto;

	// inherit parent's statics
	for (var i in this$1) {
	if (this$1.hasOwnProperty(i) && i !== 'prototype' && i !== '__super__') {
		NewClass[i] = this$1[i];
	}
	}
```

```
	// mix static properties into the class
	if (props.statics) {
	extend(NewClass, props.statics);
	delete props.statics;
	}

	// mix includes into the prototype
	if (props.includes) {
	checkDeprecatedMixinEvents(props.includes);
	extend.apply(null, [proto].concat(props.includes));
	delete props.includes;
	}

	// merge options
	if (proto.options) {
	props.options = extend(create(proto.options), props.options);
	}

	// mix given properties into the prototype
	extend(proto, props);

	proto._initHooks = [];

	// add method for calling all hooks
	proto.callInitHooks = function () {
	var this$1 = this;


	if (this._initHooksCalled) { return; }

	if (parentProto.callInitHooks) {
		parentProto.callInitHooks.call(this);
	}

	this._initHooksCalled = true;

	for (var i = 0, len = proto._initHooks.length; i < len; i++) {
		proto._initHooks[i].call(this$1);
	}
	};

	return NewClass;
};
```

```
// @function include(properties: Object): this
// [Includes a mixin](#class-includes) into the current class.
Class.include = function (props) {
	extend(this.prototype, props);
	return this;
};

// @function mergeOptions(options: Object): this
// [Merges `options`](#class-options) into the defaults of the class.
Class.mergeOptions = function (options) {
	extend(this.prototype.options, options);
	return this;
};

// @function addInitHook(fn: Function): this
// Adds a [constructor hook](#class-constructor-hooks) to the class.
Class.addInitHook = function (fn) { // (Function) || (String, args...)
	var args = Array.prototype.slice.call(arguments, 1);

	var init = typeof fn === 'function' ? fn : function () {
	this[fn].apply(this, args);
	};

	this.prototype._initHooks = this.prototype._initHooks || [];
	this.prototype._initHooks.push(init);
	return this;
};

function checkDeprecatedMixinEvents(includes) {
	if (typeof L === 'undefined' || !L || !L.Mixin) { return; }

	includes = isArray(includes) ? includes : [includes];

	for (var i = 0; i < includes.length; i++) {
	if (includes[i] === L.Mixin.Events) {
		console.warn('Deprecated include of L.Mixin.Events: ' +
			'this property will be removed in future releases, ' +
			'please inherit from L.Evented instead.', new Error().stack);
	}
	}
}

/*
 * @class Evented
 * @aka L.Evented
 * @inherits Class
```

```
 *
 * A set of methods shared between event-powered classes (like `Map` and `Marker`). Generally,
        events allow you to execute some function when something happens with an object (e.g.
        the user clicks on the map, causing the map to fire `'click'` event).
 *
 * @example
 *
 * ```js
 * map.on('click', function(e) {
 *        alert(e.latlng);
 * } );
 * ```
 *
 * Leaflet deals with event listeners by reference, so if you want to add a listener and then
        remove it, define it as a function:
 *
 * ```js
 * function onClick(e) { ... }
 *
 * map.on('click', onClick);
 * map.off('click', onClick);
 * ```
 */

var Events = {
        /* @method on(type: String, fn: Function, context?: Object): this
         * Adds a listener function (`fn`) to a particular event type of the object. You can
        optionally specify the context of the listener (object the this keyword will point to). You
        can also pass several space-separated types (e.g. `'click dblclick'`).
         *
         * @alternative
         * @method on(eventMap: Object): this
         * Adds a set of type/listener pairs, e.g. `{click: onClick, mousemove: onMouseMove}`
         */
        on: function (types, fn, context) {
        var this$1 = this;


        // types can be a map of types/handlers
        if (typeof types === 'object') {
                for (var type in types) {
                        // we don't process space-separated events here for performance;
                        // it's a hot path since Layer uses the on(obj) syntax
                        this$1._on(type, types[type], fn);
                }
```

```
} else {
	// types can be a string of space-separated words
	types = splitWords(types);

	for (var i = 0, len = types.length; i < len; i++) {
		this$1._on(types[i], fn, context);
	}
}

return this;
},

/* @method off(type: String, fn?: Function, context?: Object): this
 * Removes a previously added listener function. If no function is specified, it will remove all the listeners of that particular event from the object. Note that if you passed a custom context to `on`, you must pass the same context to `off` in order to remove the listener.
 *
 * @alternative
 * @method off(eventMap: Object): this
 * Removes a set of type/listener pairs.
 *
 * @alternative
 * @method off: this
 * Removes all listeners to all events on the object.
 */
off: function (types, fn, context) {
var this$1 = this;


if (!types) {
	// clear all listeners if called without arguments
	delete this._events;

} else if (typeof types === 'object') {
	for (var type in types) {
		this$1._off(type, types[type], fn);
	}

} else {
	types = splitWords(types);

	for (var i = 0, len = types.length; i < len; i++) {
		this$1._off(types[i], fn, context);
	}
}
```

```
return this;
},

// attach listener (without syntactic sugar now)
_on: function (type, fn, context) {
this._events = this._events || {};

/* get/init listeners for type */
var typeListeners = this._events[type];
if (!typeListeners) {
        typeListeners = [];
        this._events[type] = typeListeners;
}

if (context === this) {
        // Less memory footprint.
        context = undefined;
}
var newListener = {fn: fn, ctx: context},
   listeners = typeListeners;

// check if fn already there
for (var i = 0, len = listeners.length; i < len; i++) {
        if (listeners[i].fn === fn && listeners[i].ctx === context) {
                return;
        }
}

listeners.push(newListener);
},

_off: function (type, fn, context) {
var this$1 = this;

var listeners,
   i,
   len;

if (!this._events) { return; }

listeners = this._events[type];

if (!listeners) {
        return;
}
```

```
if (!fn) {
	// Set all removed listeners to noop so they are not called if remove happens in fire
	for (i = 0, len = listeners.length; i < len; i++) {
		listeners[i].fn = falseFn;
	}
	// clear all listeners for a type if function isn't specified
	delete this._events[type];
	return;
}

if (context === this) {
	context = undefined;
}

if (listeners) {

	// find fn and remove it
	for (i = 0, len = listeners.length; i < len; i++) {
		var l = listeners[i];
		if (l.ctx !== context) { continue; }
		if (l.fn === fn) {

			// set the removed listener to noop so that's not called if remove
happens in fire
			l.fn = falseFn;

			if (this$1._firingCount) {
				/* copy array in case events are being fired */
				this$1._events[type] = listeners = listeners.slice();
			}
			listeners.splice(i, 1);

			return;
		}
	}
}
},

// @method fire(type: String, data?: Object, propagate?: Boolean): this
// Fires an event of the specified type. You can optionally provide an data
// object — the first argument of the listener function will contain its
// properties. The event can optionally be propagated to event parents.
fire: function (type, data, propagate) {
var this$1 = this;
```

```
if (!this.listens(type, propagate)) { return this; }

var event = extend({}, data, {
	type: type,
	target: this,
	sourceTarget: data && data.sourceTarget || this
});

if (this._events) {
	var listeners = this._events[type];

	if (listeners) {
		this._firingCount = (this._firingCount + 1) || 1;
		for (var i = 0, len = listeners.length; i < len; i++) {
			var l = listeners[i];
			l.fn.call(l.ctx || this$1, event);
		}

		this._firingCount--;
	}
}

if (propagate) {
	// propagate the event to parents (set with addEventParent)
	this._propagateEvent(event);
}

return this;
},

// @method listens(type: String): Boolean
// Returns `true` if a particular event type has any listeners attached to it.
listens: function (type, propagate) {
var this$1 = this;

var listeners = this._events && this._events[type];
if (listeners && listeners.length) { return true; }

if (propagate) {
	// also check parents for listeners if event propagates
	for (var id in this$1._eventParents) {
		if (this$1._eventParents[id].listens(type, propagate)) { return true; }
	}
}
return false;
},
```

```
// @method once(…): this
// Behaves as [`on(…)`](#evented-on), except the listener will only get fired once and
then removed.
once: function (types, fn, context) {
var this$1 = this;


if (typeof types === 'object') {
	for (var type in types) {
		this$1.once(type, types[type], fn);
	}
	return this;
}

var handler = bind(function () {
	this
	   .off(types, fn, context)
	   .off(types, handler, context);
}, this);

// add a listener that's executed once and removed after that
return this
   .on(types, fn, context)
   .on(types, handler, context);
},

// @method addEventParent(obj: Evented): this
// Adds an event parent - an `Evented` that will receive propagated events
addEventParent: function (obj) {
this._eventParents = this._eventParents || {};
this._eventParents[stamp(obj)] = obj;
return this;
},

// @method removeEventParent(obj: Evented): this
// Removes an event parent, so it will stop receiving propagated events
removeEventParent: function (obj) {
if (this._eventParents) {
	delete this._eventParents[stamp(obj)];
}
return this;
},

_propagateEvent: function (e) {
var this$1 = this;
```

```
		for (var id in this$1._eventParents) {
			this$1._eventParents[id].fire(e.type, extend({
				layer: e.target,
				propagatedFrom: e.target
			}, e), true);
		}
		}
};

// aliases; we should ditch those eventually

// @method addEventListener(…): this
// Alias to [`on(…)`](#evented-on)
Events.addEventListener = Events.on;

// @method removeEventListener(…): this
// Alias to [`off(…)`](#evented-off)

// @method clearAllEventListeners(…): this
// Alias to [`off()`](#evented-off)
Events.removeEventListener = Events.clearAllEventListeners = Events.off;

// @method addOneTimeEventListener(…): this
// Alias to [`once(…)`](#evented-once)
Events.addOneTimeEventListener = Events.once;

// @method fireEvent(…): this
// Alias to [`fire(…)`](#evented-fire)
Events.fireEvent = Events.fire;

// @method hasEventListeners(…): Boolean
// Alias to [`listens(…)`](#evented-listens)
Events.hasEventListeners = Events.listens;

var Evented = Class.extend(Events);

/*
 * @class Point
 * @aka L.Point
 *
 * Represents a point with `x` and `y` coordinates in pixels.
 *
 * @example
 *
 * ```js
```

```
 * var point = L.point(200, 300);
 * ```
 *
 * All Leaflet methods and options that accept `Point` objects also accept them in a simple Array
        form (unless noted otherwise), so these lines are equivalent:
 *
 * ```js
 * map.panBy([200, 300]);
 * map.panBy(L.point(200, 300));
 * ```
 *
 * Note that `Point` does not inherit from Leafet's `Class` object,
 * which means new classes can't inherit from it, and new methods
 * can't be added to it with the `include` function.
 */

function Point(x, y, round) {
        // @property x: Number; The `x` coordinate of the point
        this.x = (round ? Math.round(x) : x);
        // @property y: Number; The `y` coordinate of the point
        this.y = (round ? Math.round(y) : y);
}

var trunc = Math.trunc || function (v) {
        return v > 0 ? Math.floor(v) : Math.ceil(v);
};

Point.prototype = {

        // @method clone(): Point
        // Returns a copy of the current point.
        clone: function () {
        return new Point(this.x, this.y);
        },

        // @method add(otherPoint: Point): Point
        // Returns the result of addition of the current and the given points.
        add: function (point) {
        // non-destructive, returns a new point
        return this.clone()._add(toPoint(point));
        },

        _add: function (point) {
        // destructive, used directly for performance in situations where it's safe to modify
        existing point
        this.x += point.x;
```

```
this.y += point.y;
return this;
},

// @method subtract(otherPoint: Point): Point
// Returns the result of subtraction of the given point from the current.
subtract: function (point) {
return this.clone()._subtract(toPoint(point));
},

_subtract: function (point) {
this.x -= point.x;
this.y -= point.y;
return this;
},

// @method divideBy(num: Number): Point
// Returns the result of division of the current point by the given number.
divideBy: function (num) {
return this.clone()._divideBy(num);
},

_divideBy: function (num) {
this.x /= num;
this.y /= num;
return this;
},

// @method multiplyBy(num: Number): Point
// Returns the result of multiplication of the current point by the given number.
multiplyBy: function (num) {
return this.clone()._multiplyBy(num);
},

_multiplyBy: function (num) {
this.x *= num;
this.y *= num;
return this;
},

// @method scaleBy(scale: Point): Point
// Multiply each coordinate of the current point by each coordinate of
// `scale`. In linear algebra terms, multiply the point by the
// [scaling
matrix](https://en.wikipedia.org/wiki/Scaling_%28geometry%29#Matrix_representation)
// defined by `scale`.
```

```
scaleBy: function (point) {
return new Point(this.x * point.x, this.y * point.y);
},

// @method unscaleBy(scale: Point): Point
// Inverse of `scaleBy`. Divide each coordinate of the current point by
// each coordinate of `scale`.
unscaleBy: function (point) {
return new Point(this.x / point.x, this.y / point.y);
},

// @method round(): Point
// Returns a copy of the current point with rounded coordinates.
round: function () {
return this.clone()._round();
},

_round: function () {
this.x = Math.round(this.x);
this.y = Math.round(this.y);
return this;
},

// @method floor(): Point
// Returns a copy of the current point with floored coordinates (rounded down).
floor: function () {
return this.clone()._floor();
},

_floor: function () {
this.x = Math.floor(this.x);
this.y = Math.floor(this.y);
return this;
},

// @method ceil(): Point
// Returns a copy of the current point with ceiled coordinates (rounded up).
ceil: function () {
return this.clone()._ceil();
},

_ceil: function () {
this.x = Math.ceil(this.x);
this.y = Math.ceil(this.y);
return this;
},
```

```
// @method trunc(): Point
// Returns a copy of the current point with truncated coordinates (rounded towards zero).
trunc: function () {
return this.clone()._trunc();
},

_trunc: function () {
this.x = trunc(this.x);
this.y = trunc(this.y);
return this;
},

// @method distanceTo(otherPoint: Point): Number
// Returns the cartesian distance between the current and the given points.
distanceTo: function (point) {
point = toPoint(point);

var x = point.x - this.x,
    y = point.y - this.y;

return Math.sqrt(x * x + y * y);
},

// @method equals(otherPoint: Point): Boolean
// Returns `true` if the given point has the same coordinates.
equals: function (point) {
point = toPoint(point);

return point.x === this.x &&
       point.y === this.y;
},

// @method contains(otherPoint: Point): Boolean
// Returns `true` if both coordinates of the given point are less than the corresponding
current point coordinates (in absolute values).
contains: function (point) {
point = toPoint(point);

return Math.abs(point.x) <= Math.abs(this.x) &&
       Math.abs(point.y) <= Math.abs(this.y);
},

// @method toString(): String
// Returns a string representation of the point for debugging purposes.
toString: function () {
```

```
		return 'Point(' +
			formatNum(this.x) + ', ' +
			formatNum(this.y) + ')';
		}
};

// @factory L.point(x: Number, y: Number, round?: Boolean)
// Creates a Point object with the given `x` and `y` coordinates. If optional `round` is set to true,
		rounds the `x` and `y` values.

// @alternative
// @factory L.point(coords: Number[])
// Expects an array of the form `[x, y]` instead.

// @alternative
// @factory L.point(coords: Object)
// Expects a plain object of the form `{x: Number, y: Number}` instead.
function toPoint(x, y, round) {
		if (x instanceof Point) {
		return x;
		}
		if (isArray(x)) {
		return new Point(x[0], x[1]);
		}
		if (x === undefined || x === null) {
		return x;
		}
		if (typeof x === 'object' && 'x' in x && 'y' in x) {
		return new Point(x.x, x.y);
		}
		return new Point(x, y, round);
}

/*
 * @class Bounds
 * @aka L.Bounds
 *
 * Represents a rectangular area in pixel coordinates.
 *
 * @example
 *
 * ```js
 * var p1 = L.point(10, 10),
 * p2 = L.point(40, 60),
 * bounds = L.bounds(p1, p2);
 * ```
```

```
 *
 * All Leaflet methods that accept `Bounds` objects also accept them in a simple Array form
        (unless noted otherwise), so the bounds example above can be passed like this:
 *
 * ```js
 * otherBounds.intersects([[10, 10], [40, 60]]);
 * ```
 *
 * Note that `Bounds` does not inherit from Leafet's `Class` object,
 * which means new classes can't inherit from it, and new methods
 * can't be added to it with the `include` function.
 */

function Bounds(a, b) {
        var this$1 = this;

        if (!a) { return; }

        var points = b ? [a, b] : a;

        for (var i = 0, len = points.length; i < len; i++) {
        this$1.extend(points[i]);
        }
}

Bounds.prototype = {
        // @method extend(point: Point): this
        // Extends the bounds to contain the given point.
        extend: function (point) { // (Point)
        point = toPoint(point);

        // @property min: Point
        // The top left corner of the rectangle.
        // @property max: Point
        // The bottom right corner of the rectangle.
        if (!this.min && !this.max) {
                this.min = point.clone();
                this.max = point.clone();
        } else {
                this.min.x = Math.min(point.x, this.min.x);
                this.max.x = Math.max(point.x, this.max.x);
                this.min.y = Math.min(point.y, this.min.y);
                this.max.y = Math.max(point.y, this.max.y);
        }
        return this;
        },
```

```
// @method getCenter(round?: Boolean): Point
// Returns the center point of the bounds.
getCenter: function (round) {
return new Point(
	(this.min.x + this.max.x) / 2,
	(this.min.y + this.max.y) / 2, round);
},

// @method getBottomLeft(): Point
// Returns the bottom-left point of the bounds.
getBottomLeft: function () {
return new Point(this.min.x, this.max.y);
},

// @method getTopRight(): Point
// Returns the top-right point of the bounds.
getTopRight: function () { // -> Point
return new Point(this.max.x, this.min.y);
},

// @method getTopLeft(): Point
// Returns the top-left point of the bounds (i.e. [`this.min`](#bounds-min)).
getTopLeft: function () {
return this.min; // left, top
},

// @method getBottomRight(): Point
// Returns the bottom-right point of the bounds (i.e. [`this.max`](#bounds-max)).
getBottomRight: function () {
return this.max; // right, bottom
},

// @method getSize(): Point
// Returns the size of the given bounds
getSize: function () {
return this.max.subtract(this.min);
},

// @method contains(otherBounds: Bounds): Boolean
// Returns `true` if the rectangle contains the given one.
// @alternative
// @method contains(point: Point): Boolean
// Returns `true` if the rectangle contains the given point.
contains: function (obj) {
var min, max;
```

```
if (typeof obj[0] === 'number' || obj instanceof Point) {
        obj = toPoint(obj);
} else {
        obj = toBounds(obj);
}

if (obj instanceof Bounds) {
        min = obj.min;
        max = obj.max;
} else {
        min = max = obj;
}

return (min.x >= this.min.x) &&
    (max.x <= this.max.x) &&
    (min.y >= this.min.y) &&
    (max.y <= this.max.y);
},

// @method intersects(otherBounds: Bounds): Boolean
// Returns `true` if the rectangle intersects the given bounds. Two bounds
// intersect if they have at least one point in common.
intersects: function (bounds) { // (Bounds) -> Boolean
bounds = toBounds(bounds);

var min = this.min,
   max = this.max,
   min2 = bounds.min,
   max2 = bounds.max,
   xIntersects = (max2.x >= min.x) && (min2.x <= max.x),
   yIntersects = (max2.y >= min.y) && (min2.y <= max.y);

return xIntersects && yIntersects;
},

// @method overlaps(otherBounds: Bounds): Boolean
// Returns `true` if the rectangle overlaps the given bounds. Two bounds
// overlap if their intersection is an area.
overlaps: function (bounds) { // (Bounds) -> Boolean
bounds = toBounds(bounds);

var min = this.min,
   max = this.max,
   min2 = bounds.min,
   max2 = bounds.max,
```

```
            xOverlaps = (max2.x > min.x) && (min2.x < max.x),
            yOverlaps = (max2.y > min.y) && (min2.y < max.y);

        return xOverlaps && yOverlaps;
        },

        isValid: function () {
        return !!(this.min && this.max);
        }
};


// @factory L.bounds(corner1: Point, corner2: Point)
// Creates a Bounds object from two corners coordinate pairs.
// @alternative
// @factory L.bounds(points: Point[])
// Creates a Bounds object from the given array of points.
function toBounds(a, b) {
        if (!a || a instanceof Bounds) {
        return a;
        }
        return new Bounds(a, b);
}

/*
 * @class LatLngBounds
 * @aka L.LatLngBounds
 *
 * Represents a rectangular geographical area on a map.
 *
 * @example
 *
 * ```js
 * var corner1 = L.latLng(40.712, -74.227),
 * corner2 = L.latLng(40.774, -74.125),
 * bounds = L.latLngBounds(corner1, corner2);
 * ```
 *
 * All Leaflet methods that accept LatLngBounds objects also accept them in a simple Array
        form (unless noted otherwise), so the bounds example above can be passed like this:
 *
 * ```js
 * map.fitBounds([
 *      [40.712, -74.227],
 *      [40.774, -74.125]
 * ]);
```

```
 * ```
 *
 * Caution: if the area crosses the antimeridian (often confused with the International Date Line),
        you must specify corners _outside_ the [-180, 180] degrees longitude range.
 *
 * Note that `LatLngBounds` does not inherit from Leafet's `Class` object,
 * which means new classes can't inherit from it, and new methods
 * can't be added to it with the `include` function.
 */

function LatLngBounds(corner1, corner2) {
        var this$1 = this;
 // (LatLng, LatLng) or (LatLng[])
        if (!corner1) { return; }

        var latlngs = corner2 ? [corner1, corner2] : corner1;

        for (var i = 0, len = latlngs.length; i < len; i++) {
        this$1.extend(latlngs[i]);
        }
}

LatLngBounds.prototype = {

        // @method extend(latlng: LatLng): this
        // Extend the bounds to contain the given point

        // @alternative
        // @method extend(otherBounds: LatLngBounds): this
        // Extend the bounds to contain the given bounds
        extend: function (obj) {
        var sw = this._southWest,
           ne = this._northEast,
           sw2, ne2;

        if (obj instanceof LatLng) {
                sw2 = obj;
                ne2 = obj;

        } else if (obj instanceof LatLngBounds) {
                sw2 = obj._southWest;
                ne2 = obj._northEast;

                if (!sw2 || !ne2) { return this; }

        } else {
```

```
        return obj ? this.extend(toLatLng(obj) || toLatLngBounds(obj)) : this;
}

if (!sw && !ne) {
        this._southWest = new LatLng(sw2.lat, sw2.lng);
        this._northEast = new LatLng(ne2.lat, ne2.lng);
} else {
        sw.lat = Math.min(sw2.lat, sw.lat);
        sw.lng = Math.min(sw2.lng, sw.lng);
        ne.lat = Math.max(ne2.lat, ne.lat);
        ne.lng = Math.max(ne2.lng, ne.lng);
}

return this;
},

// @method pad(bufferRatio: Number): LatLngBounds
// Returns bounds created by extending or retracting the current bounds by a given ratio in
each direction.
// For example, a ratio of 0.5 extends the bounds by 50% in each direction.
// Negative values will retract the bounds.
pad: function (bufferRatio) {
var sw = this._southWest,
   ne = this._northEast,
   heightBuffer = Math.abs(sw.lat - ne.lat) * bufferRatio,
   widthBuffer = Math.abs(sw.lng - ne.lng) * bufferRatio;

return new LatLngBounds(
      new LatLng(sw.lat - heightBuffer, sw.lng - widthBuffer),
      new LatLng(ne.lat + heightBuffer, ne.lng + widthBuffer));
},

// @method getCenter(): LatLng
// Returns the center point of the bounds.
getCenter: function () {
return new LatLng(
      (this._southWest.lat + this._northEast.lat) / 2,
      (this._southWest.lng + this._northEast.lng) / 2);
},

// @method getSouthWest(): LatLng
// Returns the south-west point of the bounds.
getSouthWest: function () {
return this._southWest;
},
```

```
// @method getNorthEast(): LatLng
// Returns the north-east point of the bounds.
getNorthEast: function () {
return this._northEast;
},

// @method getNorthWest(): LatLng
// Returns the north-west point of the bounds.
getNorthWest: function () {
return new LatLng(this.getNorth(), this.getWest());
},

// @method getSouthEast(): LatLng
// Returns the south-east point of the bounds.
getSouthEast: function () {
return new LatLng(this.getSouth(), this.getEast());
},

// @method getWest(): Number
// Returns the west longitude of the bounds
getWest: function () {
return this._southWest.lng;
},

// @method getSouth(): Number
// Returns the south latitude of the bounds
getSouth: function () {
return this._southWest.lat;
},

// @method getEast(): Number
// Returns the east longitude of the bounds
getEast: function () {
return this._northEast.lng;
},

// @method getNorth(): Number
// Returns the north latitude of the bounds
getNorth: function () {
return this._northEast.lat;
},

// @method contains(otherBounds: LatLngBounds): Boolean
// Returns `true` if the rectangle contains the given one.

// @alternative
```

```
// @method contains (latlng: LatLng): Boolean
// Returns `true` if the rectangle contains the given point.
contains: function (obj) { // (LatLngBounds) or (LatLng) -> Boolean
if (typeof obj[0] === 'number' || obj instanceof LatLng || 'lat' in obj) {
        obj = toLatLng(obj);
} else {
        obj = toLatLngBounds(obj);
}

var sw = this._southWest,
   ne = this._northEast,
   sw2, ne2;

if (obj instanceof LatLngBounds) {
        sw2 = obj.getSouthWest();
        ne2 = obj.getNorthEast();
} else {
        sw2 = ne2 = obj;
}

return (sw2.lat >= sw.lat) && (ne2.lat <= ne.lat) &&
     (sw2.lng >= sw.lng) && (ne2.lng <= ne.lng);
},

// @method intersects(otherBounds: LatLngBounds): Boolean
// Returns `true` if the rectangle intersects the given bounds. Two bounds intersect if they
have at least one point in common.
intersects: function (bounds) {
bounds = toLatLngBounds(bounds);

var sw = this._southWest,
   ne = this._northEast,
   sw2 = bounds.getSouthWest(),
   ne2 = bounds.getNorthEast(),

   latIntersects = (ne2.lat >= sw.lat) && (sw2.lat <= ne.lat),
   lngIntersects = (ne2.lng >= sw.lng) && (sw2.lng <= ne.lng);

return latIntersects && lngIntersects;
},

// @method overlaps(otherBounds: Bounds): Boolean
// Returns `true` if the rectangle overlaps the given bounds. Two bounds overlap if their
intersection is an area.
overlaps: function (bounds) {
bounds = toLatLngBounds(bounds);
```

```
        var sw = this._southWest,
            ne = this._northEast,
            sw2 = bounds.getSouthWest(),
            ne2 = bounds.getNorthEast(),

            latOverlaps = (ne2.lat > sw.lat) && (sw2.lat < ne.lat),
            lngOverlaps = (ne2.lng > sw.lng) && (sw2.lng < ne.lng);

        return latOverlaps && lngOverlaps;
        },

        // @method toBBoxString(): String
        // Returns a string with bounding box coordinates in a
        'southwest_lng,southwest_lat,northeast_lng,northeast_lat' format. Useful for sending
        requests to web services that return geo data.
        toBBoxString: function () {
        return [this.getWest(), this.getSouth(), this.getEast(), this.getNorth()].join(',');
        },

        // @method equals(otherBounds: LatLngBounds, maxMargin?: Number): Boolean
        // Returns `true` if the rectangle is equivalent (within a small margin of error) to the given
        bounds. The margin of error can be overridden by setting `maxMargin` to a small
        number.
        equals: function (bounds, maxMargin) {
        if (!bounds) { return false; }

        bounds = toLatLngBounds(bounds);

        return this._southWest.equals(bounds.getSouthWest(), maxMargin) &&
              this._northEast.equals(bounds.getNorthEast(), maxMargin);
        },

        // @method isValid(): Boolean
        // Returns `true` if the bounds are properly initialized.
        isValid: function () {
        return !!(this._southWest && this._northEast);
        }
};

// TODO International date line?

// @factory L.latLngBounds(corner1: LatLng, corner2: LatLng)
// Creates a `LatLngBounds` object by defining two diagonally opposite corners of the rectangle.

// @alternative
```

```
// @factory L.latLngBounds(latlngs: LatLng[])
// Creates a `LatLngBounds` object defined by the geographical points it contains. Very useful
        for zooming the map to fit a particular set of locations with [`fitBounds`](#map-
        fitbounds).
function toLatLngBounds(a, b) {
        if (a instanceof LatLngBounds) {
        return a;
        }
        return new LatLngBounds(a, b);
}

/* @class LatLng
 * @aka L.LatLng
 *
 * Represents a geographical point with a certain latitude and longitude.
 *
 * @example
 *
 * ```
 * var latlng = L.latLng(50.5, 30.5);
 * ```
 *
 * All Leaflet methods that accept LatLng objects also accept them in a simple Array form and
        simple object form (unless noted otherwise), so these lines are equivalent:
 *
 * ```
 * map.panTo([50, 30]);
 * map.panTo({lon: 30, lat: 50});
 * map.panTo({lat: 50, lng: 30});
 * map.panTo(L.latLng(50, 30));
 * ```
 *
 * Note that `LatLng` does not inherit from Leafet's `Class` object,
 * which means new classes can't inherit from it, and new methods
 * can't be added to it with the `include` function.
 */

function LatLng(lat, lng, alt) {
        if (isNaN(lat) || isNaN(lng)) {
        throw new Error('Invalid LatLng object: (' + lat + ', ' + lng + ')');
        }

        // @property lat: Number
        // Latitude in degrees
        this.lat = +lat;
```

```
	// @property lng: Number
	// Longitude in degrees
	this.lng = +lng;

	// @property alt: Number
	// Altitude in meters (optional)
	if (alt !== undefined) {
	this.alt = +alt;
	}
}

LatLng.prototype = {
	// @method equals(otherLatLng: LatLng, maxMargin?: Number): Boolean
	// Returns `true` if the given `LatLng` point is at the same position (within a small margin
	of error). The margin of error can be overridden by setting `maxMargin` to a small
	number.
	equals: function (obj, maxMargin) {
	if (!obj) { return false; }

	obj = toLatLng(obj);

	var margin = Math.max(
		Math.abs(this.lat - obj.lat),
		Math.abs(this.lng - obj.lng));

	return margin <= (maxMargin === undefined ? 1.0E-9 : maxMargin);
	},

	// @method toString(): String
	// Returns a string representation of the point (for debugging purposes).
	toString: function (precision) {
	return 'LatLng(' +
		formatNum(this.lat, precision) + ', ' +
		formatNum(this.lng, precision) + ')';
	},

	// @method distanceTo(otherLatLng: LatLng): Number
	// Returns the distance (in meters) to the given `LatLng` calculated using the [Spherical
	Law of Cosines](https://en.wikipedia.org/wiki/Spherical_law_of_cosines).
	distanceTo: function (other) {
	return Earth.distance(this, toLatLng(other));
	},

	// @method wrap(): LatLng
	// Returns a new `LatLng` object with the longitude wrapped so it's always between -180
	and +180 degrees.
```

```
	wrap: function () {
	return Earth.wrapLatLng(this);
	},

	// @method toBounds(sizeInMeters: Number): LatLngBounds
	// Returns a new `LatLngBounds` object in which each boundary is `sizeInMeters/2`
	meters apart from the `LatLng`.
	toBounds: function (sizeInMeters) {
	var latAccuracy = 180 * sizeInMeters / 40075017,
	   lngAccuracy = latAccuracy / Math.cos((Math.PI / 180) * this.lat);

	return toLatLngBounds(
		[this.lat - latAccuracy, this.lng - lngAccuracy],
		[this.lat + latAccuracy, this.lng + lngAccuracy]);
	},

	clone: function () {
	return new LatLng(this.lat, this.lng, this.alt);
	}
};



// @factory L.latLng(latitude: Number, longitude: Number, altitude?: Number): LatLng
// Creates an object representing a geographical point with the given latitude and longitude (and
	optionally altitude).

// @alternative
// @factory L.latLng(coords: Array): LatLng
// Expects an array of the form `[Number, Number]` or `[Number, Number, Number]` instead.

// @alternative
// @factory L.latLng(coords: Object): LatLng
// Expects an plain object of the form `{lat: Number, lng: Number}` or `{lat: Number, lng:
	Number, alt: Number}` instead.

function toLatLng(a, b, c) {
	if (a instanceof LatLng) {
	return a;
	}
	if (isArray(a) && typeof a[0] !== 'object') {
	if (a.length === 3) {
		return new LatLng(a[0], a[1], a[2]);
	}
	if (a.length === 2) {
		return new LatLng(a[0], a[1]);
```

```
        }
        return null;
        }
        if (a === undefined || a === null) {
        return a;
        }
        if (typeof a === 'object' && 'lat' in a) {
        return new LatLng(a.lat, 'lng' in a ? a.lng : a.lon, a.alt);
        }
        if (b === undefined) {
        return null;
        }
        return new LatLng(a, b, c);
}

/*
 * @namespace CRS
 * @crs L.CRS.Base
 * Object that defines coordinate reference systems for projecting
 * geographical points into pixel (screen) coordinates and back (and to
        services). See
 * [spatial reference system](http://en.wikipedia.org/wiki/Coordinate_reference_system).
 *
 * Leaflet defines the most usual CRSs by default. If you want to use a
 * CRS not defined by default, take a look at the
 * [Proj4Leaflet](https://github.com/kartena/Proj4Leaflet) plugin.
 *
 * Note that the CRS instances do not inherit from Leafet's `Class` object,
 * and can't be instantiated. Also, new classes can't inherit from them,
 * and methods can't be added to them with the `include` function.
 */

var CRS = {
        // @method latLngToPoint(latlng: LatLng, zoom: Number): Point
        // Projects geographical coordinates into pixel coordinates for a given zoom.
        latLngToPoint: function (latlng, zoom) {
        var projectedPoint = this.projection.project(latlng),
            scale = this.scale(zoom);

        return this.transformation._transform(projectedPoint, scale);
        },

        // @method pointToLatLng(point: Point, zoom: Number): LatLng
        // The inverse of `latLngToPoint`. Projects pixel coordinates on a given
        // zoom into geographical coordinates.
```

```
pointToLatLng: function (point, zoom) {
var scale = this.scale(zoom),
    untransformedPoint = this.transformation.untransform(point, scale);

return this.projection.unproject(untransformedPoint);
},

// @method project(latlng: LatLng): Point
// Projects geographical coordinates into coordinates in units accepted for
// this CRS (e.g. meters for EPSG:3857, for passing it to WMS services).
project: function (latlng) {
return this.projection.project(latlng);
},

// @method unproject(point: Point): LatLng
// Given a projected coordinate returns the corresponding LatLng.
// The inverse of `project`.
unproject: function (point) {
return this.projection.unproject(point);
},

// @method scale(zoom: Number): Number
// Returns the scale used when transforming projected coordinates into
// pixel coordinates for a particular zoom. For example, it returns
// `256 * 2^zoom` for Mercator-based CRS.
scale: function (zoom) {
return 256 * Math.pow(2, zoom);
},

// @method zoom(scale: Number): Number
// Inverse of `scale()`, returns the zoom level corresponding to a scale
// factor of `scale`.
zoom: function (scale) {
return Math.log(scale / 256) / Math.LN2;
},

// @method getProjectedBounds(zoom: Number): Bounds
// Returns the projection's bounds scaled and transformed for the provided `zoom`.
getProjectedBounds: function (zoom) {
if (this.infinite) { return null; }

var b = this.projection.bounds,
    s = this.scale(zoom),
    min = this.transformation.transform(b.min, s),
    max = this.transformation.transform(b.max, s);
```

```
return new Bounds(min, max);
},

// @method distance(latlng1: LatLng, latlng2: LatLng): Number
// Returns the distance between two geographical coordinates.

// @property code: String
// Standard code name of the CRS passed into WMS services (e.g. `'EPSG:3857'`)
//
// @property wrapLng: Number[]
// An array of two numbers defining whether the longitude (horizontal) coordinate
// axis wraps around a given range and how. Defaults to `[-180, 180]` in most
// geographical CRSs. If `undefined`, the longitude axis does not wrap around.
//
// @property wrapLat: Number[]
// Like `wrapLng`, but for the latitude (vertical) axis.

// wrapLng: [min, max],
// wrapLat: [min, max],

// @property infinite: Boolean
// If true, the coordinate space will be unbounded (infinite in both axes)
infinite: false,

// @method wrapLatLng(latlng: LatLng): LatLng
// Returns a `LatLng` where lat and lng has been wrapped according to the
// CRS's `wrapLat` and `wrapLng` properties, if they are outside the CRS's bounds.
wrapLatLng: function (latlng) {
var lng = this.wrapLng ? wrapNum(latlng.lng, this.wrapLng, true) : latlng.lng,
    lat = this.wrapLat ? wrapNum(latlng.lat, this.wrapLat, true) : latlng.lat,
    alt = latlng.alt;

return new LatLng(lat, lng, alt);
},

// @method wrapLatLngBounds(bounds: LatLngBounds): LatLngBounds
// Returns a `LatLngBounds` with the same size as the given one, ensuring
// that its center is within the CRS's bounds.
// Only accepts actual `L.LatLngBounds` instances, not arrays.
wrapLatLngBounds: function (bounds) {
var center = bounds.getCenter(),
    newCenter = this.wrapLatLng(center),
    latShift = center.lat - newCenter.lat,
    lngShift = center.lng - newCenter.lng;

if (latShift === 0 && lngShift === 0) {
```

```
                return bounds;
        }

        var sw = bounds.getSouthWest(),
           ne = bounds.getNorthEast(),
           newSw = new LatLng(sw.lat - latShift, sw.lng - lngShift),
           newNe = new LatLng(ne.lat - latShift, ne.lng - lngShift);

        return new LatLngBounds(newSw, newNe);
        }
};

/*
 * @namespace CRS
 * @crs L.CRS.Earth
 *
 * Serves as the base for CRS that are global such that they cover the earth.
 * Can only be used as the base for other CRS and cannot be used directly,
 * since it does not have a `code`, `projection` or `transformation`. `distance()` returns
 * meters.
 */

var Earth = extend({}, CRS, {
        wrapLng: [-180, 180],

        // Mean Earth Radius, as recommended for use by
        // the International Union of Geodesy and Geophysics,
        // see http://rosettacode.org/wiki/Haversine_formula
        R: 6371000,

        // distance between two geographical points using spherical law of cosines approximation
        distance: function (latlng1, latlng2) {
        var rad = Math.PI / 180,
           lat1 = latlng1.lat * rad,
           lat2 = latlng2.lat * rad,
           sinDLat = Math.sin((latlng2.lat - latlng1.lat) * rad / 2),
           sinDLon = Math.sin((latlng2.lng - latlng1.lng) * rad / 2),
           a = sinDLat * sinDLat + Math.cos(lat1) * Math.cos(lat2) * sinDLon * sinDLon,
           c = 2 * Math.atan2(Math.sqrt(a), Math.sqrt(1 - a));
        return this.R * c;
        }
});

/*
 * @namespace Projection
 * @projection L.Projection.SphericalMercator
```

```
 *
 * Spherical Mercator projection — the most common projection for online maps,
 * used by almost all free and commercial tile providers. Assumes that Earth is
 * a sphere. Used by the `EPSG:3857` CRS.
 */

var SphericalMercator = {

	R: 6378137,
	MAX_LATITUDE: 85.0511287798,

	project: function (latlng) {
	var d = Math.PI / 180,
	   max = this.MAX_LATITUDE,
	   lat = Math.max(Math.min(max, latlng.lat), -max),
	   sin = Math.sin(lat * d);

	return new Point(
		this.R * latlng.lng * d,
		this.R * Math.log((1 + sin) / (1 - sin)) / 2);
	},

	unproject: function (point) {
	var d = 180 / Math.PI;

	return new LatLng(
		(2 * Math.atan(Math.exp(point.y / this.R)) - (Math.PI / 2)) * d,
		point.x * d / this.R);
	},

	bounds: (function () {
	var d = 6378137 * Math.PI;
	return new Bounds([-d, -d], [d, d]);
	})()
};

/*
 * @class Transformation
 * @aka L.Transformation
 *
 * Represents an affine transformation: a set of coefficients `a`, `b`, `c`, `d`
 * for transforming a point of a form `(x, y)` into `(a*x + b, c*y + d)` and doing
 * the reverse. Used by Leaflet in its projections code.
 *
 * @example
 *
```

```
 * ```js
 * var transformation = L.transformation(2, 5, -1, 10),
 *      p = L.point(1, 2),
 *      p2 = transformation.transform(p), //  L.point(7, 8)
 *      p3 = transformation.untransform(p2); //  L.point(1, 2)
 * ```
 */


// factory new L.Transformation(a: Number, b: Number, c: Number, d: Number)
// Creates a `Transformation` object with the given coefficients.
function Transformation(a, b, c, d) {
        if (isArray(a)) {
        // use array properties
        this._a = a[0];
        this._b = a[1];
        this._c = a[2];
        this._d = a[3];
        return;
        }
        this._a = a;
        this._b = b;
        this._c = c;
        this._d = d;
}

Transformation.prototype = {
        // @method transform(point: Point, scale?: Number): Point
        // Returns a transformed point, optionally multiplied by the given scale.
        // Only accepts actual `L.Point` instances, not arrays.
        transform: function (point, scale) { // (Point, Number) -> Point
        return this._transform(point.clone(), scale);
        },

        // destructive transform (faster)
        _transform: function (point, scale) {
        scale = scale || 1;
        point.x = scale * (this._a * point.x + this._b);
        point.y = scale * (this._c * point.y + this._d);
        return point;
        },

        // @method untransform(point: Point, scale?: Number): Point
        // Returns the reverse transformation of the given point, optionally divided
        // by the given scale. Only accepts actual `L.Point` instances, not arrays.
        untransform: function (point, scale) {
```

```
		scale = scale || 1;
		return new Point(
			(point.x / scale - this._b) / this._a,
			(point.y / scale - this._d) / this._c);
		}
};

// factory L.transformation(a: Number, b: Number, c: Number, d: Number)

// @factory L.transformation(a: Number, b: Number, c: Number, d: Number)
// Instantiates a Transformation object with the given coefficients.

// @alternative
// @factory L.transformation(coefficients: Array): Transformation
// Expects an coefficients array of the form
// `[a: Number, b: Number, c: Number, d: Number]`.

function toTransformation(a, b, c, d) {
		return new Transformation(a, b, c, d);
}

/*
 * @namespace CRS
 * @crs L.CRS.EPSG3857
 *
 * The most common CRS for online maps, used by almost all free and commercial
 * tile providers. Uses Spherical Mercator projection. Set in by default in
 * Map's `crs` option.
 */

var EPSG3857 = extend({}, Earth, {
		code: 'EPSG:3857',
		projection: SphericalMercator,

		transformation: (function () {
		var scale = 0.5 / (Math.PI * SphericalMercator.R);
		return toTransformation(scale, 0.5, -scale, 0.5);
		}())
});

var EPSG900913 = extend({}, EPSG3857, {
		code: 'EPSG:900913'
});

// @namespace SVG; @section
// There are several static functions which can be called without instantiating L.SVG:
```

```
// @function create(name: String): SVGElement
// Returns a instance of
	[SVGElement](https://developer.mozilla.org/docs/Web/API/SVGElement),
// corresponding to the class name passed. For example, using 'line' will return
// an instance of
	[SVGLineElement](https://developer.mozilla.org/docs/Web/API/SVGLineElement).
function svgCreate(name) {
	return document.createElementNS('http://www.w3.org/2000/svg', name);
}

// @function pointsToPath(rings: Point[], closed: Boolean): String
// Generates a SVG path string for multiple rings, with each ring turning
// into "M..L..L.." instructions
function pointsToPath(rings, closed) {
	var str = '',
	i, j, len, len2, points, p;

	for (i = 0, len = rings.length; i < len; i++) {
	points = rings[i];

	for (j = 0, len2 = points.length; j < len2; j++) {
		p = points[j];
		str += (j ? 'L' : 'M') + p.x + ' ' + p.y;
	}

	// closes the ring for polygons; "x" is VML syntax
	str += closed ? (svg ? 'z' : 'x') : '';
	}

	// SVG complains about empty path strings
	return str || 'M0 0';
}

/*
 * @namespace Browser
 * @aka L.Browser
 *
 * A namespace with static properties for browser/feature detection used by Leaflet internally.
 *
 * @example
 *
 * ```js
 * if (L.Browser.ielt9) {
 *   alert('Upgrade your browser, dude!');
 * }
```

```
 * ```
 */

var style$1 = document.documentElement.style;

// @property ie: Boolean; `true` for all Internet Explorer versions (not Edge).
var ie = 'ActiveXObject' in window;

// @property ielt9: Boolean; `true` for Internet Explorer versions less than 9.
var ielt9 = ie && !document.addEventListener;

// @property edge: Boolean; `true` for the Edge web browser.
var edge = 'msLaunchUri' in navigator && !('documentMode' in document);

// @property webkit: Boolean;
// `true` for webkit-based browsers like Chrome and Safari (including mobile versions).
var webkit = userAgentContains('webkit');

// @property android: Boolean
// `true` for any browser running on an Android platform.
var android = userAgentContains('android');

// @property android23: Boolean; `true` for browsers running on Android 2 or Android 3.
var android23 = userAgentContains('android 2') || userAgentContains('android 3');

/* See https://stackoverflow.com/a/17961266 for details on detecting stock Android */
var webkitVer = parseInt(/WebKit\/([0-9]+)|$/.exec(navigator.userAgent)[1], 10); // also matches
        AppleWebKit
// @property androidStock: Boolean; `true` for the Android stock browser (i.e. not Chrome)
var androidStock = android && userAgentContains('Google') && webkitVer < 537
        && !('AudioNode' in window);

// @property opera: Boolean; `true` for the Opera browser
var opera = !!window.opera;

// @property chrome: Boolean; `true` for the Chrome browser.
var chrome = userAgentContains('chrome');

// @property gecko: Boolean; `true` for gecko-based browsers like Firefox.
var gecko = userAgentContains('gecko') && !webkit && !opera && !ie;

// @property safari: Boolean; `true` for the Safari browser.
var safari = !chrome && userAgentContains('safari');

var phantom = userAgentContains('phantom');
```

```
// @property opera12: Boolean
// `true` for the Opera browser supporting CSS transforms (version 12 or later).
var opera12 = 'OTransition' in style$1;

// @property win: Boolean; `true` when the browser is running in a Windows platform
var win = navigator.platform.indexOf('Win') === 0;

// @property ie3d: Boolean; `true` for all Internet Explorer versions supporting CSS transforms.
var ie3d = ie && ('transition' in style$1);

// @property webkit3d: Boolean; `true` for webkit-based browsers supporting CSS transforms.
var webkit3d = ('WebKitCSSMatrix' in window) && ('m11' in new
        window.WebKitCSSMatrix()) && !android23;

// @property gecko3d: Boolean; `true` for gecko-based browsers supporting CSS transforms.
var gecko3d = 'MozPerspective' in style$1;

// @property any3d: Boolean
// `true` for all browsers supporting CSS transforms.
var any3d = !window.L_DISABLE_3D && (ie3d || webkit3d || gecko3d) && !opera12
        && !phantom;

// @property mobile: Boolean; `true` for all browsers running in a mobile device.
var mobile = typeof orientation !== 'undefined' || userAgentContains('mobile');

// @property mobileWebkit: Boolean; `true` for all webkit-based browsers in a mobile device.
var mobileWebkit = mobile && webkit;

// @property mobileWebkit3d: Boolean
// `true` for all webkit-based browsers in a mobile device supporting CSS transforms.
var mobileWebkit3d = mobile && webkit3d;

// @property msPointer: Boolean
// `true` for browsers implementing the Microsoft touch events model (notably IE10).
var msPointer = !window.PointerEvent && window.MSPointerEvent;

// @property pointer: Boolean
// `true` for all browsers supporting [pointer events](https://msdn.microsoft.com/en-
        us/library/dn433244%28v=vs.85%29.aspx).
var pointer = !!(window.PointerEvent || msPointer);

// @property touch: Boolean
// `true` for all browsers supporting [touch
        events](https://developer.mozilla.org/docs/Web/API/Touch_events).
// This does not necessarily mean that the browser is running in a computer with
// a touchscreen, it only means that the browser is capable of understanding
```

```
// touch events.
var touch = !window.L_NO_TOUCH && (pointer || 'ontouchstart' in window ||
        (window.DocumentTouch && document instanceof window.DocumentTouch));

// @property mobileOpera: Boolean; `true` for the Opera browser in a mobile device.
var mobileOpera = mobile && opera;

// @property mobileGecko: Boolean
// `true` for gecko-based browsers running in a mobile device.
var mobileGecko = mobile && gecko;

// @property retina: Boolean
// `true` for browsers on a high-resolution "retina" screen.
var retina = (window.devicePixelRatio || (window.screen.deviceXDPI /
        window.screen.logicalXDPI)) > 1;


// @property canvas: Boolean
// `true` when the browser supports
        [`<canvas>`](https://developer.mozilla.org/docs/Web/API/Canvas_API).
var canvas = (function () {
        return !!document.createElement('canvas').getContext;
}());

// @property svg: Boolean
// `true` when the browser supports [SVG](https://developer.mozilla.org/docs/Web/SVG).
var svg = !!(document.createElementNS && svgCreate('svg').createSVGRect);

// @property vml: Boolean
// `true` if the browser supports
        [VML](https://en.wikipedia.org/wiki/Vector_Markup_Language).
var vml = !svg && (function () {
        try {
        var div = document.createElement('div');
        div.innerHTML = '<v:shape adj="1"/>';

        var shape = div.firstChild;
        shape.style.behavior = 'url(#default#VML)';

        return shape && (typeof shape.adj === 'object');

        } catch (e) {
        return false;
        }
}());
```

```
function userAgentContains(str) {
	return navigator.userAgent.toLowerCase().indexOf(str) >= 0;
}


var Browser = (Object.freeze || Object)({
	ie: ie,
	ielt9: ielt9,
	edge: edge,
	webkit: webkit,
	android: android,
	android23: android23,
	androidStock: androidStock,
	opera: opera,
	chrome: chrome,
	gecko: gecko,
	safari: safari,
	phantom: phantom,
	opera12: opera12,
	win: win,
	ie3d: ie3d,
	webkit3d: webkit3d,
	gecko3d: gecko3d,
	any3d: any3d,
	mobile: mobile,
	mobileWebkit: mobileWebkit,
	mobileWebkit3d: mobileWebkit3d,
	msPointer: msPointer,
	pointer: pointer,
	touch: touch,
	mobileOpera: mobileOpera,
	mobileGecko: mobileGecko,
	retina: retina,
	canvas: canvas,
	svg: svg,
	vml: vml
});

/*
 * Extends L.DomEvent to provide touch support for Internet Explorer and Windows-based
	devices.
 */


var POINTER_DOWN =   msPointer ? 'MSPointerDown'   : 'pointerdown';
```

```
var POINTER_MOVE =   msPointer ? 'MSPointerMove'   : 'pointermove';
var POINTER_UP =     msPointer ? 'MSPointerUp'     : 'pointerup';
var POINTER_CANCEL = msPointer ? 'MSPointerCancel' : 'pointercancel';
var TAG_WHITE_LIST = ['INPUT', 'SELECT', 'OPTION'];

var _pointers = {};
var _pointerDocListener = false;

// DomEvent.DoubleTap needs to know about this
var _pointersCount = 0;

// Provides a touch events wrapper for (ms)pointer events.
// ref http://www.w3.org/TR/pointerevents/
        https://www.w3.org/Bugs/Public/show_bug.cgi?id=22890

function addPointerListener(obj, type, handler, id) {
        if (type === 'touchstart') {
        _addPointerStart(obj, handler, id);

        } else if (type === 'touchmove') {
        _addPointerMove(obj, handler, id);

        } else if (type === 'touchend') {
        _addPointerEnd(obj, handler, id);
        }

        return this;
}

function removePointerListener(obj, type, id) {
        var handler = obj['_leaflet_' + type + id];

        if (type === 'touchstart') {
        obj.removeEventListener(POINTER_DOWN, handler, false);

        } else if (type === 'touchmove') {
        obj.removeEventListener(POINTER_MOVE, handler, false);

        } else if (type === 'touchend') {
        obj.removeEventListener(POINTER_UP, handler, false);
        obj.removeEventListener(POINTER_CANCEL, handler, false);
        }

        return this;
}
```

```
function _addPointerStart(obj, handler, id) {
	var onDown = bind(function (e) {
	if (e.pointerType !== 'mouse' && e.MSPOINTER_TYPE_MOUSE &&
	e.pointerType !== e.MSPOINTER_TYPE_MOUSE) {
		// In IE11, some touch events needs to fire for form controls, or
		// the controls will stop working. We keep a whitelist of tag names that
		// need these events. For other target tags, we prevent default on the event.
		if (TAG_WHITE_LIST.indexOf(e.target.tagName) < 0) {
			preventDefault(e);
		} else {
			return;
		}
	}

	_handlePointer(e, handler);
	});

	obj['_leaflet_touchstart' + id] = onDown;
	obj.addEventListener(POINTER_DOWN, onDown, false);

	// need to keep track of what pointers and how many are active to provide e.touches
	emulation
	if (!_pointerDocListener) {
	// we listen documentElement as any drags that end by moving the touch off the screen
	get fired there
	document.documentElement.addEventListener(POINTER_DOWN,
	_globalPointerDown, true);
	document.documentElement.addEventListener(POINTER_MOVE, _globalPointerMove,
	true);
	document.documentElement.addEventListener(POINTER_UP, _globalPointerUp, true);
	document.documentElement.addEventListener(POINTER_CANCEL, _globalPointerUp,
	true);

	_pointerDocListener = true;
	}
}

function _globalPointerDown(e) {
	_pointers[e.pointerId] = e;
	_pointersCount++;
}

function _globalPointerMove(e) {
	if (_pointers[e.pointerId]) {
	_pointers[e.pointerId] = e;
	}
```

```
}

function _globalPointerUp(e) {
	delete _pointers[e.pointerId];
	_pointersCount--;
}

function _handlePointer(e, handler) {
	e.touches = [];
	for (var i in _pointers) {
	e.touches.push(_pointers[i]);
	}
	e.changedTouches = [e];

	handler(e);
}

function _addPointerMove(obj, handler, id) {
	var onMove = function (e) {
	// don't fire touch moves when mouse isn't down
	if ((e.pointerType === e.MSPOINTER_TYPE_MOUSE || e.pointerType === 'mouse')
	&& e.buttons === 0) { return; }

	_handlePointer(e, handler);
	};

	obj['_leaflet_touchmove' + id] = onMove;
	obj.addEventListener(POINTER_MOVE, onMove, false);
}

function _addPointerEnd(obj, handler, id) {
	var onUp = function (e) {
	_handlePointer(e, handler);
	};

	obj['_leaflet_touchend' + id] = onUp;
	obj.addEventListener(POINTER_UP, onUp, false);
	obj.addEventListener(POINTER_CANCEL, onUp, false);
}

/*
 * Extends the event handling code with double tap support for mobile browsers.
 */

var _touchstart = msPointer ? 'MSPointerDown' : pointer ? 'pointerdown' : 'touchstart';
var _touchend = msPointer ? 'MSPointerUp' : pointer ? 'pointerup' : 'touchend';
```

```
var _pre = '_leaflet_';

// inspired by Zepto touch code by Thomas Fuchs
function addDoubleTapListener(obj, handler, id) {
	var last, touch$$1,
	   doubleTap = false,
	   delay = 250;

	function onTouchStart(e) {
	var count;

	if (pointer) {
		if ((!edge) || e.pointerType === 'mouse') { return; }
		count = _pointersCount;
	} else {
		count = e.touches.length;
	}

	if (count > 1) { return; }

	var now = Date.now(),
	   delta = now - (last || now);

	touch$$1 = e.touches ? e.touches[0] : e;
	doubleTap = (delta > 0 && delta <= delay);
	last = now;
	}

	function onTouchEnd(e) {
	if (doubleTap && !touch$$1.cancelBubble) {
		if (pointer) {
			if ((!edge) || e.pointerType === 'mouse') { return; }
			// work around .type being readonly with MSPointer* events
			var newTouch = {},
			   prop, i;

			for (i in touch$$1) {
				prop = touch$$1[i];
				newTouch[i] = prop && prop.bind ? prop.bind(touch$$1) : prop;
			}
			touch$$1 = newTouch;
		}
		touch$$1.type = 'dblclick';
		handler(touch$$1);
		last = null;
	}
```

```
        }

        obj[_pre + _touchstart + id] = onTouchStart;
        obj[_pre + _touchend + id] = onTouchEnd;
        obj[_pre + 'dblclick' + id] = handler;

        obj.addEventListener(_touchstart, onTouchStart, false);
        obj.addEventListener(_touchend, onTouchEnd, false);

        // On some platforms (notably, chrome<55 on win10 + touchscreen + mouse),
        // the browser doesn't fire touchend/pointerup events but does fire
        // native dblclicks. See #4127.
        // Edge 14 also fires native dblclicks, but only for pointerType mouse, see #5180.
        obj.addEventListener('dblclick', handler, false);

        return this;
}

function removeDoubleTapListener(obj, id) {
        var touchstart = obj[_pre + _touchstart + id],
            touchend = obj[_pre + _touchend + id],
            dblclick = obj[_pre + 'dblclick' + id];

        obj.removeEventListener(_touchstart, touchstart, false);
        obj.removeEventListener(_touchend, touchend, false);
        if (!edge) {
        obj.removeEventListener('dblclick', dblclick, false);
        }

        return this;
}

/*
 * @namespace DomEvent
 * Utility functions to work with the [DOM
        events](https://developer.mozilla.org/docs/Web/API/Event), used by Leaflet internally.
 */

// Inspired by John Resig, Dean Edwards and YUI addEvent implementations.

// @function on(el: HTMLElement, types: String, fn: Function, context?: Object): this
// Adds a listener function (`fn`) to a particular DOM event type of the
// element `el`. You can optionally specify the context of the listener
// (object the `this` keyword will point to). You can also pass several
// space-separated types (e.g. `'click dblclick'`).
```

```
// @alternative
// @function on(el: HTMLElement, eventMap: Object, context?: Object): this
// Adds a set of type/listener pairs, e.g. `{click: onClick, mousemove: onMouseMove}`
function on(obj, types, fn, context) {

	if (typeof types === 'object') {
	for (var type in types) {
		addOne(obj, type, types[type], fn);
	}
	} else {
	types = splitWords(types);

	for (var i = 0, len = types.length; i < len; i++) {
		addOne(obj, types[i], fn, context);
	}
	}

	return this;
}

var eventsKey = '_leaflet_events';

// @function off(el: HTMLElement, types: String, fn: Function, context?: Object): this
// Removes a previously added listener function.
// Note that if you passed a custom context to on, you must pass the same
// context to `off` in order to remove the listener.

// @alternative
// @function off(el: HTMLElement, eventMap: Object, context?: Object): this
// Removes a set of type/listener pairs, e.g. `{click: onClick, mousemove: onMouseMove}`
function off(obj, types, fn, context) {

	if (typeof types === 'object') {
	for (var type in types) {
		removeOne(obj, type, types[type], fn);
	}
	} else if (types) {
	types = splitWords(types);

	for (var i = 0, len = types.length; i < len; i++) {
		removeOne(obj, types[i], fn, context);
	}
	} else {
	for (var j in obj[eventsKey]) {
		removeOne(obj, j, obj[eventsKey][j]);
	}
```

```
        delete obj[eventsKey];
        }

        return this;
}

function addOne(obj, type, fn, context) {
        var id = type + stamp(fn) + (context ? '_' + stamp(context) : '');

        if (obj[eventsKey] && obj[eventsKey][id]) { return this; }

        var handler = function (e) {
        return fn.call(context || obj, e || window.event);
        };

        var originalHandler = handler;

        if (pointer && type.indexOf('touch') === 0) {
        // Needs DomEvent.Pointer.js
        addPointerListener(obj, type, handler, id);

        } else if (touch && (type === 'dblclick') && addDoubleTapListener &&
                !(pointer && chrome)) {
        // Chrome >55 does not need the synthetic dblclicks from addDoubleTapListener
        // See #5180
        addDoubleTapListener(obj, handler, id);

        } else if ('addEventListener' in obj) {

        if (type === 'mousewheel') {
                obj.addEventListener('onwheel' in obj ? 'wheel' : 'mousewheel', handler, false);

        } else if ((type === 'mouseenter') || (type === 'mouseleave')) {
                handler = function (e) {
                        e = e || window.event;
                        if (isExternalTarget(obj, e)) {
                                originalHandler(e);
                        }
                };
                obj.addEventListener(type === 'mouseenter' ? 'mouseover' : 'mouseout', handler,
        false);

        } else {
                if (type === 'click' && android) {
                        handler = function (e) {
                                filterClick(e, originalHandler);
```

```
                        };
                }
                obj.addEventListener(type, handler, false);
        }

        } else if ('attachEvent' in obj) {
        obj.attachEvent('on' + type, handler);
        }

        obj[eventsKey] = obj[eventsKey] || {};
        obj[eventsKey][id] = handler;
}

function removeOne(obj, type, fn, context) {

        var id = type + stamp(fn) + (context ? '_' + stamp(context) : ''),
           handler = obj[eventsKey] && obj[eventsKey][id];

        if (!handler) { return this; }

        if (pointer && type.indexOf('touch') === 0) {
        removePointerListener(obj, type, id);

        } else if (touch && (type === 'dblclick') && removeDoubleTapListener &&
                !(pointer && chrome)) {
        removeDoubleTapListener(obj, id);

        } else if ('removeEventListener' in obj) {

        if (type === 'mousewheel') {
                obj.removeEventListener('onwheel' in obj ? 'wheel' : 'mousewheel', handler,
        false);

        } else {
                obj.removeEventListener(
                        type === 'mouseenter' ? 'mouseover' :
                        type === 'mouseleave' ? 'mouseout' : type, handler, false);
        }

        } else if ('detachEvent' in obj) {
        obj.detachEvent('on' + type, handler);
        }

        obj[eventsKey][id] = null;
}
```

```
// @function stopPropagation(ev: DOMEvent): this
// Stop the given event from propagation to parent elements. Used inside the listener functions:
// ```js
// L.DomEvent.on(div, 'click', function (ev) {
//         L.DomEvent.stopPropagation(ev);
// });
// ```
function stopPropagation(e) {

        if (e.stopPropagation) {
        e.stopPropagation();
        } else if (e.originalEvent) {  // In case of Leaflet event.
        e.originalEvent._stopped = true;
        } else {
        e.cancelBubble = true;
        }
        skipped(e);

        return this;
}

// @function disableScrollPropagation(el: HTMLElement): this
// Adds `stopPropagation` to the element's `'mousewheel'` events (plus browser variants).
function disableScrollPropagation(el) {
        addOne(el, 'mousewheel', stopPropagation);
        return this;
}

// @function disableClickPropagation(el: HTMLElement): this
// Adds `stopPropagation` to the element's `'click'`, `'doubleclick'`,
// `'mousedown'` and `'touchstart'` events (plus browser variants).
function disableClickPropagation(el) {
        on(el, 'mousedown touchstart dblclick', stopPropagation);
        addOne(el, 'click', fakeStop);
        return this;
}

// @function preventDefault(ev: DOMEvent): this
// Prevents the default action of the DOM Event `ev` from happening (such as
// following a link in the href of the a element, or doing a POST request
// with page reload when a `<form>` is submitted).
// Use it inside listener functions.
function preventDefault(e) {
        if (e.preventDefault) {
        e.preventDefault();
        } else {
```

```
		e.returnValue = false;
		}
		return this;
}

// @function stop(ev: DOMEvent): this
// Does `stopPropagation` and `preventDefault` at the same time.
function stop(e) {
		preventDefault(e);
		stopPropagation(e);
		return this;
}

// @function getMousePosition(ev: DOMEvent, container?: HTMLElement): Point
// Gets normalized mouse position from a DOM event relative to the
// `container` or to the whole page if not specified.
function getMousePosition(e, container) {
		if (!container) {
		return new Point(e.clientX, e.clientY);
		}

		var rect = container.getBoundingClientRect();

		var scaleX = rect.width / container.offsetWidth || 1;
		var scaleY = rect.height / container.offsetHeight || 1;
		return new Point(
		e.clientX / scaleX - rect.left - container.clientLeft,
		e.clientY / scaleY - rect.top - container.clientTop);
}

// Chrome on Win scrolls double the pixels as in other platforms (see #4538),
// and Firefox scrolls device pixels, not CSS pixels
var wheelPxFactor =
		(win && chrome) ? 2 * window.devicePixelRatio :
		gecko ? window.devicePixelRatio : 1;

// @function getWheelDelta(ev: DOMEvent): Number
// Gets normalized wheel delta from a mousewheel DOM event, in vertical
// pixels scrolled (negative if scrolling down).
// Events from pointing devices without precise scrolling are mapped to
// a best guess of 60 pixels.
function getWheelDelta(e) {
		return (edge) ? e.wheelDeltaY / 2 : // Don't trust window-geometry-based delta
			(e.deltaY && e.deltaMode === 0) ? -e.deltaY / wheelPxFactor : // Pixels
			(e.deltaY && e.deltaMode === 1) ? -e.deltaY * 20 : // Lines
			(e.deltaY && e.deltaMode === 2) ? -e.deltaY * 60 : // Pages
```

```
            (e.deltaX || e.deltaZ) ? 0 : // Skip horizontal/depth wheel events
            e.wheelDelta ? (e.wheelDeltaY || e.wheelDelta) / 2 : // Legacy IE pixels
            (e.detail && Math.abs(e.detail) < 32765) ? -e.detail * 20 : // Legacy Moz lines
            e.detail ? e.detail / -32765 * 60 : // Legacy Moz pages
            0;
}

var skipEvents = {};

function fakeStop(e) {
        // fakes stopPropagation by setting a special event flag, checked/reset with skipped(e)
        skipEvents[e.type] = true;
}

function skipped(e) {
        var events = skipEvents[e.type];
        // reset when checking, as it's only used in map container and propagates outside of the
        map
        skipEvents[e.type] = false;
        return events;
}

// check if element really left/entered the event target (for mouseenter/mouseleave)
function isExternalTarget(el, e) {

        var related = e.relatedTarget;

        if (!related) { return true; }

        try {
        while (related && (related !== el)) {
                related = related.parentNode;
        }
        } catch (err) {
        return false;
        }
        return (related !== el);
}

var lastClick;

// this is a horrible workaround for a bug in Android where a single touch triggers two click
        events
function filterClick(e, handler) {
        var timeStamp = (e.timeStamp || (e.originalEvent && e.originalEvent.timeStamp)),
           elapsed = lastClick && (timeStamp - lastClick);
```

```
        // are they closer together than 500ms yet more than 100ms?
        // Android typically triggers them ~300ms apart while multiple listeners
        // on the same event should be triggered far faster;
        // or check if click is simulated on the element, and if it is, reject any non-simulated
        events

        if ((elapsed && elapsed > 100 && elapsed < 500) || (e.target._simulatedClick
        && !e._simulated)) {
        stop(e);
        return;
        }
        lastClick = timeStamp;

        handler(e);
}



var DomEvent = (Object.freeze || Object)({
        on: on,
        off: off,
        stopPropagation: stopPropagation,
        disableScrollPropagation: disableScrollPropagation,
        disableClickPropagation: disableClickPropagation,
        preventDefault: preventDefault,
        stop: stop,
        getMousePosition: getMousePosition,
        getWheelDelta: getWheelDelta,
        fakeStop: fakeStop,
        skipped: skipped,
        isExternalTarget: isExternalTarget,
        addListener: on,
        removeListener: off
});

/*
 * @namespace DomUtil
 *
 * Utility functions to work with the
        [DOM](https://developer.mozilla.org/docs/Web/API/Document_Object_Model)
 * tree, used by Leaflet internally.
 *
 * Most functions expecting or returning a `HTMLElement` also work for
 * SVG elements. The only difference is that classes refer to CSS classes
```

```
 * in HTML and SVG classes in SVG.
 */


// @property TRANSFORM: String
// Vendor-prefixed transform style name (e.g. `'webkitTransform'` for WebKit).
var TRANSFORM = testProp(
        ['transform', 'WebkitTransform', 'OTransform', 'MozTransform', 'msTransform']);

// webkitTransition comes first because some browser versions that drop vendor prefix don't do
// the same for the transitionend event, in particular the Android 4.1 stock browser

// @property TRANSITION: String
// Vendor-prefixed transition style name.
var TRANSITION = testProp(
        ['webkitTransition', 'transition', 'OTransition', 'MozTransition', 'msTransition']);

// @property TRANSITION_END: String
// Vendor-prefixed transitionend event name.
var TRANSITION_END =
        TRANSITION === 'webkitTransition' || TRANSITION === 'OTransition' ?
        TRANSITION + 'End' : 'transitionend';


// @function get(id: String|HTMLElement): HTMLElement
// Returns an element given its DOM id, or returns the element itself
// if it was passed directly.
function get(id) {
        return typeof id === 'string' ? document.getElementById(id) : id;
}

// @function getStyle(el: HTMLElement, styleAttrib: String): String
// Returns the value for a certain style attribute on an element,
// including computed values or values set through CSS.
function getStyle(el, style) {
        var value = el.style[style] || (el.currentStyle && el.currentStyle[style]);

        if ((!value || value === 'auto') && document.defaultView) {
        var css = document.defaultView.getComputedStyle(el, null);
        value = css ? css[style] : null;
        }
        return value === 'auto' ? null : value;
}

// @function create(tagName: String, className?: String, container?: HTMLElement):
        HTMLElement
```

```
// Creates an HTML element with `tagName`, sets its class to `className`, and optionally
	appends it to `container` element.
function create$1(tagName, className, container) {
	var el = document.createElement(tagName);
	el.className = className || '';

	if (container) {
	container.appendChild(el);
	}
	return el;
}

// @function remove(el: HTMLElement)
// Removes `el` from its parent element
function remove(el) {
	var parent = el.parentNode;
	if (parent) {
	parent.removeChild(el);
	}
}

// @function empty(el: HTMLElement)
// Removes all of `el`'s children elements from `el`
function empty(el) {
	while (el.firstChild) {
	el.removeChild(el.firstChild);
	}
}

// @function toFront(el: HTMLElement)
// Makes `el` the last child of its parent, so it renders in front of the other children.
function toFront(el) {
	var parent = el.parentNode;
	if (parent.lastChild !== el) {
	parent.appendChild(el);
	}
}

// @function toBack(el: HTMLElement)
// Makes `el` the first child of its parent, so it renders behind the other children.
function toBack(el) {
	var parent = el.parentNode;
	if (parent.firstChild !== el) {
	parent.insertBefore(el, parent.firstChild);
	}
}
```

```
// @function hasClass(el: HTMLElement, name: String): Boolean
// Returns `true` if the element's class attribute contains `name`.
function hasClass(el, name) {
	if (el.classList !== undefined) {
	return el.classList.contains(name);
	}
	var className = getClass(el);
	return className.length > 0 && new RegExp('(^|\\s)' + name + '(\\s|$)').test(className);
}

// @function addClass(el: HTMLElement, name: String)
// Adds `name` to the element's class attribute.
function addClass(el, name) {
	if (el.classList !== undefined) {
	var classes = splitWords(name);
	for (var i = 0, len = classes.length; i < len; i++) {
		el.classList.add(classes[i]);
	}
	} else if (!hasClass(el, name)) {
	var className = getClass(el);
	setClass(el, (className ? className + ' ' : '') + name);
	}
}

// @function removeClass(el: HTMLElement, name: String)
// Removes `name` from the element's class attribute.
function removeClass(el, name) {
	if (el.classList !== undefined) {
	el.classList.remove(name);
	} else {
	setClass(el, trim((' ' + getClass(el) + ' ').replace(' ' + name + ' ', ' ')));
	}
}

// @function setClass(el: HTMLElement, name: String)
// Sets the element's class.
function setClass(el, name) {
	if (el.className.baseVal === undefined) {
	el.className = name;
	} else {
	// in case of SVG element
	el.className.baseVal = name;
	}
}
```

```
// @function getClass(el: HTMLElement): String
// Returns the element's class.
function getClass(el) {
	return el.className.baseVal === undefined ? el.className : el.className.baseVal;
}

// @function setOpacity(el: HTMLElement, opacity: Number)
// Set the opacity of an element (including old IE support).
// `opacity` must be a number from `0` to `1`.
function setOpacity(el, value) {
	if ('opacity' in el.style) {
	el.style.opacity = value;
	} else if ('filter' in el.style) {
	_setOpacityIE(el, value);
	}
}

function _setOpacityIE(el, value) {
	var filter = false,
	   filterName = 'DXImageTransform.Microsoft.Alpha';

	// filters collection throws an error if we try to retrieve a filter that doesn't exist
	try {
	filter = el.filters.item(filterName);
	} catch (e) {
	// don't set opacity to 1 if we haven't already set an opacity,
	// it isn't needed and breaks transparent pngs.
	if (value === 1) { return; }
	}

	value = Math.round(value * 100);

	if (filter) {
	filter.Enabled = (value !== 100);
	filter.Opacity = value;
	} else {
	el.style.filter += ' progid:' + filterName + '(opacity=' + value + ')';
	}
}

// @function testProp(props: String[]): String|false
// Goes through the array of style names and returns the first name
// that is a valid style name for an element. If no such name is found,
// it returns false. Useful for vendor-prefixed styles like `transform`.
function testProp(props) {
	var style = document.documentElement.style;
```

```
	for (var i = 0; i < props.length; i++) {
	if (props[i] in style) {
		return props[i];
	}
	}
	return false;
}

// @function setTransform(el: HTMLElement, offset: Point, scale?: Number)
// Resets the 3D CSS transform of `el` so it is translated by `offset` pixels
// and optionally scaled by `scale`. Does not have an effect if the
// browser doesn't support 3D CSS transforms.
function setTransform(el, offset, scale) {
	var pos = offset || new Point(0, 0);

	el.style[TRANSFORM] =
	(ie3d ?
		'translate(' + pos.x + 'px,' + pos.y + 'px)' :
		'translate3d(' + pos.x + 'px,' + pos.y + 'px,0)') +
	(scale ? ' scale(' + scale + ')' : '');
}

// @function setPosition(el: HTMLElement, position: Point)
// Sets the position of `el` to coordinates specified by `position`,
// using CSS translate or top/left positioning depending on the browser
// (used by Leaflet internally to position its layers).
function setPosition(el, point) {

	/*eslint-disable */
	el._leaflet_pos = point;
	/* eslint-enable */

	if (any3d) {
	setTransform(el, point);
	} else {
	el.style.left = point.x + 'px';
	el.style.top = point.y + 'px';
	}
}

// @function getPosition(el: HTMLElement): Point
// Returns the coordinates of an element previously positioned with setPosition.
function getPosition(el) {
	// this method is only used for elements previously positioned using setPosition,
	// so it's safe to cache the position for performance
```

```
	return el._leaflet_pos || new Point(0, 0);
}

// @function disableTextSelection()
// Prevents the user from generating `selectstart` DOM events, usually generated
// when the user drags the mouse through a page with text. Used internally
// by Leaflet to override the behaviour of any click-and-drag interaction on
// the map. Affects drag interactions on the whole document.

// @function enableTextSelection()
// Cancels the effects of a previous [`L.DomUtil.disableTextSelection`](#domutil-
	disabletextselection).
var disableTextSelection;
var enableTextSelection;
var _userSelect;
if ('onselectstart' in document) {
	disableTextSelection = function () {
	on(window, 'selectstart', preventDefault);
	};
	enableTextSelection = function () {
	off(window, 'selectstart', preventDefault);
	};
} else {
	var userSelectProperty = testProp(
	['userSelect', 'WebkitUserSelect', 'OUserSelect', 'MozUserSelect', 'msUserSelect']);

	disableTextSelection = function () {
	if (userSelectProperty) {
		var style = document.documentElement.style;
		_userSelect = style[userSelectProperty];
		style[userSelectProperty] = 'none';
	}
	};
	enableTextSelection = function () {
	if (userSelectProperty) {
		document.documentElement.style[userSelectProperty] = _userSelect;
		_userSelect = undefined;
	}
	};
}

// @function disableImageDrag()
// As [`L.DomUtil.disableTextSelection`](#domutil-disabletextselection), but
// for `dragstart` DOM events, usually generated when the user drags an image.
function disableImageDrag() {
```

```
	on(window, 'dragstart', preventDefault);
}

// @function enableImageDrag()
// Cancels the effects of a previous [`L.DomUtil.disableImageDrag`](#domutil-
	disabletextselection).
function enableImageDrag() {
	off(window, 'dragstart', preventDefault);
}

var _outlineElement;
var _outlineStyle;
// @function preventOutline(el: HTMLElement)
// Makes the [outline](https://developer.mozilla.org/docs/Web/CSS/outline)
// of the element `el` invisible. Used internally by Leaflet to prevent
// focusable elements from displaying an outline when the user performs a
// drag interaction on them.
function preventOutline(element) {
	while (element.tabIndex === -1) {
	element = element.parentNode;
	}
	if (!element.style) { return; }
	restoreOutline();
	_outlineElement = element;
	_outlineStyle = element.style.outline;
	element.style.outline = 'none';
	on(window, 'keydown', restoreOutline);
}

// @function restoreOutline()
// Cancels the effects of a previous [`L.DomUtil.preventOutline`]().
function restoreOutline() {
	if (!_outlineElement) { return; }
	_outlineElement.style.outline = _outlineStyle;
	_outlineElement = undefined;
	_outlineStyle = undefined;
	off(window, 'keydown', restoreOutline);
}


var DomUtil = (Object.freeze || Object)({
	TRANSFORM: TRANSFORM,
	TRANSITION: TRANSITION,
	TRANSITION_END: TRANSITION_END,
	get: get,
	getStyle: getStyle,
```

```
	create: create$1,
	remove: remove,
	empty: empty,
	toFront: toFront,
	toBack: toBack,
	hasClass: hasClass,
	addClass: addClass,
	removeClass: removeClass,
	setClass: setClass,
	getClass: getClass,
	setOpacity: setOpacity,
	testProp: testProp,
	setTransform: setTransform,
	setPosition: setPosition,
	getPosition: getPosition,
	disableTextSelection: disableTextSelection,
	enableTextSelection: enableTextSelection,
	disableImageDrag: disableImageDrag,
	enableImageDrag: enableImageDrag,
	preventOutline: preventOutline,
	restoreOutline: restoreOutline
});

/*
 * @class PosAnimation
 * @aka L.PosAnimation
 * @inherits Evented
 * Used internally for panning animations, utilizing CSS3 Transitions for modern browsers and a
	timer fallback for IE6-9.
 *
 * @example
 * ```js
 * var fx = new L.PosAnimation();
 * fx.run(el, [300, 500], 0.5);
 * ```
 *
 * @constructor L.PosAnimation()
 * Creates a `PosAnimation` object.
 *
 */

var PosAnimation = Evented.extend({

	// @method run(el: HTMLElement, newPos: Point, duration?: Number, easeLinearity?:
	Number)
	// Run an animation of a given element to a new position, optionally setting
```

```
// duration in seconds (`0.25` by default) and easing linearity factor (3rd
// argument of the [cubic bezier curve](http://cubic-bezier.com/#0,0,.5,1),
// `0.5` by default).
run: function (el, newPos, duration, easeLinearity) {
this.stop();

this._el = el;
this._inProgress = true;
this._duration = duration || 0.25;
this._easeOutPower = 1 / Math.max(easeLinearity || 0.5, 0.2);

this._startPos = getPosition(el);
this._offset = newPos.subtract(this._startPos);
this._startTime = +new Date();

// @event start: Event
// Fired when the animation starts
this.fire('start');

this._animate();
},

// @method stop()
// Stops the animation (if currently running).
stop: function () {
if (!this._inProgress) { return; }

this._step(true);
this._complete();
},

_animate: function () {
// animation loop
this._animId = requestAnimFrame(this._animate, this);
this._step();
},

_step: function (round) {
var elapsed = (+new Date()) - this._startTime,
   duration = this._duration * 1000;

if (elapsed < duration) {
        this._runFrame(this._easeOut(elapsed / duration), round);
} else {
        this._runFrame(1);
        this._complete();
```

```
		}
		},

		_runFrame: function (progress, round) {
		var pos = this._startPos.add(this._offset.multiplyBy(progress));
		if (round) {
			pos._round();
		}
		setPosition(this._el, pos);

		// @event step: Event
		// Fired continuously during the animation.
		this.fire('step');
		},

		_complete: function () {
		cancelAnimFrame(this._animId);

		this._inProgress = false;
		// @event end: Event
		// Fired when the animation ends.
		this.fire('end');
		},

		_easeOut: function (t) {
		return 1 - Math.pow(1 - t, this._easeOutPower);
		}
});

/*
 * @class Map
 * @aka L.Map
 * @inherits Evented
 *
 * The central class of the API — it is used to create a map on a page and manipulate it.
 *
 * @example
 *
 * ```js
 * // initialize the map on the "map" div with a given center and zoom
 * var map = L.map('map', {
 *	center: [51.505, -0.09],
 *	zoom: 13
 * });
 * ```
 *
```

```
 */

var Map = Evented.extend({

	options: {
	// @section Map State Options
	// @option crs: CRS = L.CRS.EPSG3857
	// The [Coordinate Reference System](#crs) to use. Don't change this if you're not
	// sure what it means.
	crs: EPSG3857,

	// @option center: LatLng = undefined
	// Initial geographic center of the map
	center: undefined,

	// @option zoom: Number = undefined
	// Initial map zoom level
	zoom: undefined,

	// @option minZoom: Number = *
	// Minimum zoom level of the map.
	// If not specified and at least one `GridLayer` or `TileLayer` is in the map,
	// the lowest of their `minZoom` options will be used instead.
	minZoom: undefined,

	// @option maxZoom: Number = *
	// Maximum zoom level of the map.
	// If not specified and at least one `GridLayer` or `TileLayer` is in the map,
	// the highest of their `maxZoom` options will be used instead.
	maxZoom: undefined,

	// @option layers: Layer[] = []
	// Array of layers that will be added to the map initially
	layers: [],

	// @option maxBounds: LatLngBounds = null
	// When this option is set, the map restricts the view to the given
	// geographical bounds, bouncing the user back if the user tries to pan
	// outside the view. To set the restriction dynamically, use
	// [`setMaxBounds`](#map-setmaxbounds) method.
	maxBounds: undefined,

	// @option renderer: Renderer = *
	// The default method for drawing vector layers on the map. `L.SVG`
	// or `L.Canvas` by default depending on browser support.
	renderer: undefined,
```

```
// @section Animation Options
// @option zoomAnimation: Boolean = true
// Whether the map zoom animation is enabled. By default it's enabled
// in all browsers that support CSS3 Transitions except Android.
zoomAnimation: true,

// @option zoomAnimationThreshold: Number = 4
// Won't animate zoom if the zoom difference exceeds this value.
zoomAnimationThreshold: 4,

// @option fadeAnimation: Boolean = true
// Whether the tile fade animation is enabled. By default it's enabled
// in all browsers that support CSS3 Transitions except Android.
fadeAnimation: true,

// @option markerZoomAnimation: Boolean = true
// Whether markers animate their zoom with the zoom animation, if disabled
// they will disappear for the length of the animation. By default it's
// enabled in all browsers that support CSS3 Transitions except Android.
markerZoomAnimation: true,

// @option transform3DLimit: Number = 2^23
// Defines the maximum size of a CSS translation transform. The default
// value should not be changed unless a web browser positions layers in
// the wrong place after doing a large `panBy`.
transform3DLimit: 8388608, // Precision limit of a 32-bit float

// @section Interaction Options
// @option zoomSnap: Number = 1
// Forces the map's zoom level to always be a multiple of this, particularly
// right after a [`fitBounds()`](#map-fitbounds) or a pinch-zoom.
// By default, the zoom level snaps to the nearest integer; lower values
// (e.g. `0.5` or `0.1`) allow for greater granularity. A value of `0`
// means the zoom level will not be snapped after `fitBounds` or a pinch-zoom.
zoomSnap: 1,

// @option zoomDelta: Number = 1
// Controls how much the map's zoom level will change after a
// [`zoomIn()`](#map-zoomin), [`zoomOut()`](#map-zoomout), pressing `+`
// or `-` on the keyboard, or using the [zoom controls](#control-zoom).
// Values smaller than `1` (e.g. `0.5`) allow for greater granularity.
zoomDelta: 1,

// @option trackResize: Boolean = true
```

```
// Whether the map automatically handles browser window resize to update itself.
trackResize: true
},

initialize: function (id, options) { // (HTMLElement or String, Object)
options = setOptions(this, options);

this._initContainer(id);
this._initLayout();

// hack for https://github.com/Leaflet/Leaflet/issues/1980
this._onResize = bind(this._onResize, this);

this._initEvents();

if (options.maxBounds) {
	this.setMaxBounds(options.maxBounds);
}

if (options.zoom !== undefined) {
	this._zoom = this._limitZoom(options.zoom);
}

if (options.center && options.zoom !== undefined) {
	this.setView(toLatLng(options.center), options.zoom, {reset: true});
}

this._handlers = [];
this._layers = {};
this._zoomBoundLayers = {};
this._sizeChanged = true;

this.callInitHooks();

// don't animate on browsers without hardware-accelerated transitions or old
Android/Opera
this._zoomAnimated = TRANSITION && any3d && !mobileOpera &&
		this.options.zoomAnimation;

// zoom transitions run with the same duration for all layers, so if one of transitionend
events
// happens after starting zoom animation (propagating to the map pane), we know that it
ended globally
if (this._zoomAnimated) {
	this._createAnimProxy();
	on(this._proxy, TRANSITION_END, this._catchTransitionEnd, this);
```

```
}

this._addLayers(this.options.layers);
},


// @section Methods for modifying map state

// @method setView(center: LatLng, zoom: Number, options?: Zoom/pan options): this
// Sets the view of the map (geographical center and zoom) with the given
// animation options.
setView: function (center, zoom, options) {

zoom = zoom === undefined ? this._zoom : this._limitZoom(zoom);
center = this._limitCenter(toLatLng(center), zoom, this.options.maxBounds);
options = options || {};

this._stop();

if (this._loaded && !options.reset && options !== true) {

	if (options.animate !== undefined) {
		options.zoom = extend({animate: options.animate}, options.zoom);
		options.pan = extend({animate: options.animate, duration:
options.duration}, options.pan);
	}

	// try animating pan or zoom
	var moved = (this._zoom !== zoom) ?
		this._tryAnimatedZoom && this._tryAnimatedZoom(center, zoom,
options.zoom) :
		this._tryAnimatedPan(center, options.pan);

	if (moved) {
		// prevent resize handler call, the view will refresh after animation anyway
		clearTimeout(this._sizeTimer);
		return this;
	}
}

// animation didn't start, just reset the map view
this._resetView(center, zoom);

return this;
},
```

```
// @method setZoom(zoom: Number, options?: Zoom/pan options): this
// Sets the zoom of the map.
setZoom: function (zoom, options) {
if (!this._loaded) {
        this._zoom = zoom;
        return this;
}
return this.setView(this.getCenter(), zoom, {zoom: options});
},

// @method zoomIn(delta?: Number, options?: Zoom options): this
// Increases the zoom of the map by `delta` ([`zoomDelta`](#map-zoomdelta) by default).
zoomIn: function (delta, options) {
delta = delta || (any3d ? this.options.zoomDelta : 1);
return this.setZoom(this._zoom + delta, options);
},

// @method zoomOut(delta?: Number, options?: Zoom options): this
// Decreases the zoom of the map by `delta` ([`zoomDelta`](#map-zoomdelta) by default).
zoomOut: function (delta, options) {
delta = delta || (any3d ? this.options.zoomDelta : 1);
return this.setZoom(this._zoom - delta, options);
},

// @method setZoomAround(latlng: LatLng, zoom: Number, options: Zoom options): this
// Zooms the map while keeping a specified geographical point on the map
// stationary (e.g. used internally for scroll zoom and double-click zoom).
// @alternative
// @method setZoomAround(offset: Point, zoom: Number, options: Zoom options): this
// Zooms the map while keeping a specified pixel on the map (relative to the top-left
corner) stationary.
setZoomAround: function (latlng, zoom, options) {
var scale = this.getZoomScale(zoom),
   viewHalf = this.getSize().divideBy(2),
   containerPoint = latlng instanceof Point ? latlng : this.latLngToContainerPoint(latlng),

   centerOffset = containerPoint.subtract(viewHalf).multiplyBy(1 - 1 / scale),
   newCenter = this.containerPointToLatLng(viewHalf.add(centerOffset));

return this.setView(newCenter, zoom, {zoom: options});
},

_getBoundsCenterZoom: function (bounds, options) {

options = options || {};
bounds = bounds.getBounds ? bounds.getBounds() : toLatLngBounds(bounds);
```

```
var paddingTL = toPoint(options.paddingTopLeft || options.padding || [0, 0]),
   paddingBR = toPoint(options.paddingBottomRight || options.padding || [0, 0]),

   zoom = this.getBoundsZoom(bounds, false, paddingTL.add(paddingBR));

zoom = (typeof options.maxZoom === 'number') ? Math.min(options.maxZoom, zoom) :
zoom;

if (zoom === Infinity) {
        return {
                center: bounds.getCenter(),
                zoom: zoom
        };
}

var paddingOffset = paddingBR.subtract(paddingTL).divideBy(2),

   swPoint = this.project(bounds.getSouthWest(), zoom),
   nePoint = this.project(bounds.getNorthEast(), zoom),
   center = this.unproject(swPoint.add(nePoint).divideBy(2).add(paddingOffset), zoom);

return {
        center: center,
        zoom: zoom
};
},

// @method fitBounds(bounds: LatLngBounds, options?: fitBounds options): this
// Sets a map view that contains the given geographical bounds with the
// maximum zoom level possible.
fitBounds: function (bounds, options) {

bounds = toLatLngBounds(bounds);

if (!bounds.isValid()) {
        throw new Error('Bounds are not valid.');
}

var target = this._getBoundsCenterZoom(bounds, options);
return this.setView(target.center, target.zoom, options);
},

// @method fitWorld(options?: fitBounds options): this
// Sets a map view that mostly contains the whole world with the maximum
// zoom level possible.
```

```
fitWorld: function (options) {
return this.fitBounds([[-90, -180], [90, 180]], options);
},

// @method panTo(latlng: LatLng, options?: Pan options): this
// Pans the map to a given center.
panTo: function (center, options) { // (LatLng)
return this.setView(center, this._zoom, {pan: options});
},

// @method panBy(offset: Point, options?: Pan options): this
// Pans the map by a given number of pixels (animated).
panBy: function (offset, options) {
offset = toPoint(offset).round();
options = options || {};

if (!offset.x && !offset.y) {
	return this.fire('moveend');
}
// If we pan too far, Chrome gets issues with tiles
// and makes them disappear or appear in the wrong place (slightly offset) #2602
if (options.animate !== true && !this.getSize().contains(offset)) {
	this._resetView(this.unproject(this.project(this.getCenter()).add(offset)),
this.getZoom());
	return this;
}

if (!this._panAnim) {
	this._panAnim = new PosAnimation();

	this._panAnim.on({
		'step': this._onPanTransitionStep,
		'end': this._onPanTransitionEnd
	}, this);
}

// don't fire movestart if animating inertia
if (!options.noMoveStart) {
	this.fire('movestart');
}

// animate pan unless animate: false specified
if (options.animate !== false) {
	addClass(this._mapPane, 'leaflet-pan-anim');

	var newPos = this._getMapPanePos().subtract(offset).round();
```

```
        this._panAnim.run(this._mapPane, newPos, options.duration || 0.25,
options.easeLinearity);
} else {
        this._rawPanBy(offset);
        this.fire('move').fire('moveend');
}

return this;
},

// @method flyTo(latlng: LatLng, zoom?: Number, options?: Zoom/pan options): this
// Sets the view of the map (geographical center and zoom) performing a smooth
// pan-zoom animation.
flyTo: function (targetCenter, targetZoom, options) {

options = options || {};
if (options.animate === false || !any3d) {
        return this.setView(targetCenter, targetZoom, options);
}

this._stop();

var from = this.project(this.getCenter()),
   to = this.project(targetCenter),
   size = this.getSize(),
   startZoom = this._zoom;

targetCenter = toLatLng(targetCenter);
targetZoom = targetZoom === undefined ? startZoom : targetZoom;

var w0 = Math.max(size.x, size.y),
   w1 = w0 * this.getZoomScale(startZoom, targetZoom),
   u1 = (to.distanceTo(from)) || 1,
   rho = 1.42,
   rho2 = rho * rho;

function r(i) {
        var s1 = i ? -1 : 1,
           s2 = i ? w1 : w0,
           t1 = w1 * w1 - w0 * w0 + s1 * rho2 * rho2 * u1 * u1,
           b1 = 2 * s2 * rho2 * u1,
           b = t1 / b1,
           sq = Math.sqrt(b * b + 1) - b;

           // workaround for floating point precision bug when sq = 0, log = -Infinite,
           // thus triggering an infinite loop in flyTo
```

```
            var log = sq < 0.000000001 ? -18 : Math.log(sq);

        return log;
}

function sinh(n) { return (Math.exp(n) - Math.exp(-n)) / 2; }
function cosh(n) { return (Math.exp(n) + Math.exp(-n)) / 2; }
function tanh(n) { return sinh(n) / cosh(n); }

var r0 = r(0);

function w(s) { return w0 * (cosh(r0) / cosh(r0 + rho * s)); }
function u(s) { return w0 * (cosh(r0) * tanh(r0 + rho * s) - sinh(r0)) / rho2; }

function easeOut(t) { return 1 - Math.pow(1 - t, 1.5); }

var start = Date.now(),
   S = (r(1) - r0) / rho,
   duration = options.duration ? 1000 * options.duration : 1000 * S * 0.8;

function frame() {
        var t = (Date.now() - start) / duration,
           s = easeOut(t) * S;

        if (t <= 1) {
                this._flyToFrame = requestAnimFrame(frame, this);

                this._move(
                        this.unproject(from.add(to.subtract(from).multiplyBy(u(s) / u1)),
startZoom),
                        this.getScaleZoom(w0 / w(s), startZoom),
                        {flyTo: true});

        } else {
                this
                        ._move(targetCenter, targetZoom)
                        ._moveEnd(true);
        }
}

this._moveStart(true, options.noMoveStart);

frame.call(this);
return this;
},
```

```
// @method flyToBounds(bounds: LatLngBounds, options?: fitBounds options): this
// Sets the view of the map with a smooth animation like [`flyTo`](#map-flyto),
// but takes a bounds parameter like [`fitBounds`](#map-fitbounds).
flyToBounds: function (bounds, options) {
var target = this._getBoundsCenterZoom(bounds, options);
return this.flyTo(target.center, target.zoom, options);
},

// @method setMaxBounds(bounds: Bounds): this
// Restricts the map view to the given bounds (see the [maxBounds](#map-maxbounds)
option).
setMaxBounds: function (bounds) {
bounds = toLatLngBounds(bounds);

if (!bounds.isValid()) {
	this.options.maxBounds = null;
	return this.off('moveend', this._panInsideMaxBounds);
} else if (this.options.maxBounds) {
	this.off('moveend', this._panInsideMaxBounds);
}

this.options.maxBounds = bounds;

if (this._loaded) {
	this._panInsideMaxBounds();
}

return this.on('moveend', this._panInsideMaxBounds);
},

// @method setMinZoom(zoom: Number): this
// Sets the lower limit for the available zoom levels (see the [minZoom](#map-minzoom)
option).
setMinZoom: function (zoom) {
var oldZoom = this.options.minZoom;
this.options.minZoom = zoom;

if (this._loaded && oldZoom !== zoom) {
	this.fire('zoomlevelschange');

	if (this.getZoom() < this.options.minZoom) {
		return this.setZoom(zoom);
	}
}

return this;
```

```
},

// @method setMaxZoom(zoom: Number): this
// Sets the upper limit for the available zoom levels (see the [maxZoom](#map-maxzoom)
option).
setMaxZoom: function (zoom) {
var oldZoom = this.options.maxZoom;
this.options.maxZoom = zoom;

if (this._loaded && oldZoom !== zoom) {
        this.fire('zoomlevelschange');

        if (this.getZoom() > this.options.maxZoom) {
                return this.setZoom(zoom);
        }
}

return this;
},

// @method panInsideBounds(bounds: LatLngBounds, options?: Pan options): this
// Pans the map to the closest view that would lie inside the given bounds (if it's not
already), controlling the animation using the options specific, if any.
panInsideBounds: function (bounds, options) {
this._enforcingBounds = true;
var center = this.getCenter(),
    newCenter = this._limitCenter(center, this._zoom, toLatLngBounds(bounds));

if (!center.equals(newCenter)) {
        this.panTo(newCenter, options);
}

this._enforcingBounds = false;
return this;
},

// @method invalidateSize(options: Zoom/pan options): this
// Checks if the map container size changed and updates the map if so —
// call it after you've changed the map size dynamically, also animating
// pan by default. If `options.pan` is `false`, panning will not occur.
// If `options.debounceMoveend` is `true`, it will delay `moveend` event so
// that it doesn't happen often even if the method is called many
// times in a row.

// @alternative
// @method invalidateSize(animate: Boolean): this
```

```
// Checks if the map container size changed and updates the map if so —
// call it after you've changed the map size dynamically, also animating
// pan by default.
invalidateSize: function (options) {
if (!this._loaded) { return this; }

options = extend({
        animate: false,
        pan: true
}, options === true ? {animate: true} : options);

var oldSize = this.getSize();
this._sizeChanged = true;
this._lastCenter = null;

var newSize = this.getSize(),
   oldCenter = oldSize.divideBy(2).round(),
   newCenter = newSize.divideBy(2).round(),
   offset = oldCenter.subtract(newCenter);

if (!offset.x && !offset.y) { return this; }

if (options.animate && options.pan) {
        this.panBy(offset);

} else {
        if (options.pan) {
                this._rawPanBy(offset);
        }

        this.fire('move');

        if (options.debounceMoveend) {
                clearTimeout(this._sizeTimer);
                this._sizeTimer = setTimeout(bind(this.fire, this, 'moveend'), 200);
        } else {
                this.fire('moveend');
        }
}

// @section Map state change events
// @event resize: ResizeEvent
// Fired when the map is resized.
return this.fire('resize', {
        oldSize: oldSize,
        newSize: newSize
```

```
});
},

// @section Methods for modifying map state
// @method stop(): this
// Stops the currently running `panTo` or `flyTo` animation, if any.
stop: function () {
this.setZoom(this._limitZoom(this._zoom));
if (!this.options.zoomSnap) {
	this.fire('viewreset');
}
return this._stop();
},

// @section Geolocation methods
// @method locate(options?: Locate options): this
// Tries to locate the user using the Geolocation API, firing a [`locationfound`](#map-
locationfound)
// event with location data on success or a [`locationerror`](#map-locationerror) event on
failure,
// and optionally sets the map view to the user's location with respect to
// detection accuracy (or to the world view if geolocation failed).
// Note that, if your page doesn't use HTTPS, this method will fail in
// modern browsers ([Chrome 50 and
newer](https://sites.google.com/a/chromium.org/dev/Home/chromium-
security/deprecating-powerful-features-on-insecure-origins))
// See `Locate options` for more details.
locate: function (options) {

options = this._locateOptions = extend({
	timeout: 10000,
	watch: false
	// setView: false
	// maxZoom: <Number>
	// maximumAge: 0
	// enableHighAccuracy: false
}, options);

if (!('geolocation' in navigator)) {
	this._handleGeolocationError({
		code: 0,
		message: 'Geolocation not supported.'
	});
	return this;
}
```

```
var onResponse = bind(this._handleGeolocationResponse, this),
    onError = bind(this._handleGeolocationError, this);

if (options.watch) {
        this._locationWatchId =
                navigator.geolocation.watchPosition(onResponse, onError, options);
} else {
        navigator.geolocation.getCurrentPosition(onResponse, onError, options);
}
return this;
},

// @method stopLocate(): this
// Stops watching location previously initiated by `map.locate({watch: true})`
// and aborts resetting the map view if map.locate was called with
// `{setView: true}`.
stopLocate: function () {
if (navigator.geolocation && navigator.geolocation.clearWatch) {
        navigator.geolocation.clearWatch(this._locationWatchId);
}
if (this._locateOptions) {
        this._locateOptions.setView = false;
}
return this;
},

_handleGeolocationError: function (error) {
var c = error.code,
    message = error.message ||
        (c === 1 ? 'permission denied' :
        (c === 2 ? 'position unavailable' : 'timeout'));

if (this._locateOptions.setView && !this._loaded) {
        this.fitWorld();
}

// @section Location events
// @event locationerror: ErrorEvent
// Fired when geolocation (using the [`locate`](#map-locate) method) failed.
this.fire('locationerror', {
        code: c,
        message: 'Geolocation error: ' + message + '.'
});
},

_handleGeolocationResponse: function (pos) {
```

```
var lat = pos.coords.latitude,
    lng = pos.coords.longitude,
    latlng = new LatLng(lat, lng),
    bounds = latlng.toBounds(pos.coords.accuracy),
    options = this._locateOptions;

if (options.setView) {
        var zoom = this.getBoundsZoom(bounds);
        this.setView(latlng, options.maxZoom ? Math.min(zoom, options.maxZoom) :
zoom);
}

var data = {
        latlng: latlng,
        bounds: bounds,
        timestamp: pos.timestamp
};

for (var i in pos.coords) {
        if (typeof pos.coords[i] === 'number') {
                data[i] = pos.coords[i];
        }
}

// @event locationfound: LocationEvent
// Fired when geolocation (using the [`locate`](#map-locate) method)
// went successfully.
this.fire('locationfound', data);
},

// TODO Appropriate docs section?
// @section Other Methods
// @method addHandler(name: String, HandlerClass: Function): this
// Adds a new `Handler` to the map, given its name and constructor function.
addHandler: function (name, HandlerClass) {
if (!HandlerClass) { return this; }

var handler = this[name] = new HandlerClass(this);

this._handlers.push(handler);

if (this.options[name]) {
        handler.enable();
}

return this;
```

```
},

// @method remove(): this
// Destroys the map and clears all related event listeners.
remove: function () {
var this$1 = this;


this._initEvents(true);

if (this._containerId !== this._container._leaflet_id) {
	throw new Error('Map container is being reused by another instance');
}

try {
	// throws error in IE6-8
	delete this._container._leaflet_id;
	delete this._containerId;
} catch (e) {
	/*eslint-disable */
	this._container._leaflet_id = undefined;
	/* eslint-enable */
	this._containerId = undefined;
}

if (this._locationWatchId !== undefined) {
	this.stopLocate();
}

this._stop();

remove(this._mapPane);

if (this._clearControlPos) {
	this._clearControlPos();
}

this._clearHandlers();

if (this._loaded) {
	// @section Map state change events
	// @event unload: Event
	// Fired when the map is destroyed with [remove](#map-remove) method.
	this.fire('unload');
}
```

```
var i;
for (i in this$1._layers) {
        this$1._layers[i].remove();
}
for (i in this$1._panes) {
        remove(this$1._panes[i]);
}

this._layers = [];
this._panes = [];
delete this._mapPane;
delete this._renderer;

return this;
},

// @section Other Methods
// @method createPane(name: String, container?: HTMLElement): HTMLElement
// Creates a new [map pane](#map-pane) with the given name if it doesn't exist already,
// then returns it. The pane is created as a child of `container`, or
// as a child of the main map pane if not set.
createPane: function (name, container) {
var className = 'leaflet-pane' + (name ? ' leaflet-' + name.replace('Pane', '') + '-pane' : ''),
    pane = create$1('div', className, container || this._mapPane);

if (name) {
        this._panes[name] = pane;
}
return pane;
},

// @section Methods for Getting Map State

// @method getCenter(): LatLng
// Returns the geographical center of the map view
getCenter: function () {
this._checkIfLoaded();

if (this._lastCenter && !this._moved()) {
        return this._lastCenter;
}
return this.layerPointToLatLng(this._getCenterLayerPoint());
},

// @method getZoom(): Number
// Returns the current zoom level of the map view
```

```
getZoom: function () {
return this._zoom;
},

// @method getBounds(): LatLngBounds
// Returns the geographical bounds visible in the current map view
getBounds: function () {
var bounds = this.getPixelBounds(),
   sw = this.unproject(bounds.getBottomLeft()),
   ne = this.unproject(bounds.getTopRight());

return new LatLngBounds(sw, ne);
},

// @method getMinZoom(): Number
// Returns the minimum zoom level of the map (if set in the `minZoom` option of the map
or of any layers), or `0` by default.
getMinZoom: function () {
return this.options.minZoom === undefined ? this._layersMinZoom || 0 :
this.options.minZoom;
},

// @method getMaxZoom(): Number
// Returns the maximum zoom level of the map (if set in the `maxZoom` option of the
map or of any layers).
getMaxZoom: function () {
return this.options.maxZoom === undefined ?
        (this._layersMaxZoom === undefined ? Infinity : this._layersMaxZoom) :
        this.options.maxZoom;
},

// @method getBoundsZoom(bounds: LatLngBounds, inside?: Boolean): Number
// Returns the maximum zoom level on which the given bounds fit to the map
// view in its entirety. If `inside` (optional) is set to `true`, the method
// instead returns the minimum zoom level on which the map view fits into
// the given bounds in its entirety.
getBoundsZoom: function (bounds, inside, padding) { // (LatLngBounds[, Boolean,
Point]) -> Number
bounds = toLatLngBounds(bounds);
padding = toPoint(padding || [0, 0]);

var zoom = this.getZoom() || 0,
   min = this.getMinZoom(),
   max = this.getMaxZoom(),
   nw = bounds.getNorthWest(),
   se = bounds.getSouthEast(),
```

```
    size = this.getSize().subtract(padding),
    boundsSize = toBounds(this.project(se, zoom), this.project(nw, zoom)).getSize(),
    snap = any3d ? this.options.zoomSnap : 1,
    scalex = size.x / boundsSize.x,
    scaley = size.y / boundsSize.y,
    scale = inside ? Math.max(scalex, scaley) : Math.min(scalex, scaley);

zoom = this.getScaleZoom(scale, zoom);

if (snap) {
        zoom = Math.round(zoom / (snap / 100)) * (snap / 100); // don't jump if within
1% of a snap level
        zoom = inside ? Math.ceil(zoom / snap) * snap : Math.floor(zoom / snap) * snap;
}

return Math.max(min, Math.min(max, zoom));
},

// @method getSize(): Point
// Returns the current size of the map container (in pixels).
getSize: function () {
if (!this._size || this._sizeChanged) {
        this._size = new Point(
                this._container.clientWidth || 0,
                this._container.clientHeight || 0);

        this._sizeChanged = false;
}
return this._size.clone();
},

// @method getPixelBounds(): Bounds
// Returns the bounds of the current map view in projected pixel
// coordinates (sometimes useful in layer and overlay implementations).
getPixelBounds: function (center, zoom) {
var topLeftPoint = this._getTopLeftPoint(center, zoom);
return new Bounds(topLeftPoint, topLeftPoint.add(this.getSize()));
},

// TODO: Check semantics - isn't the pixel origin the 0,0 coord relative to
// the map pane? "left point of the map layer" can be confusing, specially
// since there can be negative offsets.
// @method getPixelOrigin(): Point
// Returns the projected pixel coordinates of the top left point of
// the map layer (useful in custom layer and overlay implementations).
getPixelOrigin: function () {
```

```
this._checkIfLoaded();
return this._pixelOrigin;
},

// @method getPixelWorldBounds(zoom?: Number): Bounds
// Returns the world's bounds in pixel coordinates for zoom level `zoom`.
// If `zoom` is omitted, the map's current zoom level is used.
getPixelWorldBounds: function (zoom) {
return this.options.crs.getProjectedBounds(zoom === undefined ? this.getZoom() :
zoom);
},

// @section Other Methods

// @method getPane(pane: String|HTMLElement): HTMLElement
// Returns a [map pane](#map-pane), given its name or its HTML element (its identity).
getPane: function (pane) {
return typeof pane === 'string' ? this._panes[pane] : pane;
},

// @method getPanes(): Object
// Returns a plain object containing the names of all [panes](#map-pane) as keys and
// the panes as values.
getPanes: function () {
return this._panes;
},

// @method getContainer: HTMLElement
// Returns the HTML element that contains the map.
getContainer: function () {
return this._container;
},


// @section Conversion Methods

// @method getZoomScale(toZoom: Number, fromZoom: Number): Number
// Returns the scale factor to be applied to a map transition from zoom level
// `fromZoom` to `toZoom`. Used internally to help with zoom animations.
getZoomScale: function (toZoom, fromZoom) {
// TODO replace with universal implementation after refactoring projections
var crs = this.options.crs;
fromZoom = fromZoom === undefined ? this._zoom : fromZoom;
return crs.scale(toZoom) / crs.scale(fromZoom);
},
```

```
// @method getScaleZoom(scale: Number, fromZoom: Number): Number
// Returns the zoom level that the map would end up at, if it is at `fromZoom`
// level and everything is scaled by a factor of `scale`. Inverse of
// [`getZoomScale`](#map-getZoomScale).
getScaleZoom: function (scale, fromZoom) {
var crs = this.options.crs;
fromZoom = fromZoom === undefined ? this._zoom : fromZoom;
var zoom = crs.zoom(scale * crs.scale(fromZoom));
return isNaN(zoom) ? Infinity : zoom;
},

// @method project(latlng: LatLng, zoom: Number): Point
// Projects a geographical coordinate `LatLng` according to the projection
// of the map's CRS, then scales it according to `zoom` and the CRS's
// `Transformation`. The result is pixel coordinate relative to
// the CRS origin.
project: function (latlng, zoom) {
zoom = zoom === undefined ? this._zoom : zoom;
return this.options.crs.latLngToPoint(toLatLng(latlng), zoom);
},

// @method unproject(point: Point, zoom: Number): LatLng
// Inverse of [`project`](#map-project).
unproject: function (point, zoom) {
zoom = zoom === undefined ? this._zoom : zoom;
return this.options.crs.pointToLatLng(toPoint(point), zoom);
},

// @method layerPointToLatLng(point: Point): LatLng
// Given a pixel coordinate relative to the [origin pixel](#map-getpixelorigin),
// returns the corresponding geographical coordinate (for the current zoom level).
layerPointToLatLng: function (point) {
var projectedPoint = toPoint(point).add(this.getPixelOrigin());
return this.unproject(projectedPoint);
},

// @method latLngToLayerPoint(latlng: LatLng): Point
// Given a geographical coordinate, returns the corresponding pixel coordinate
// relative to the [origin pixel](#map-getpixelorigin).
latLngToLayerPoint: function (latlng) {
var projectedPoint = this.project(toLatLng(latlng))._round();
return projectedPoint._subtract(this.getPixelOrigin());
},

// @method wrapLatLng(latlng: LatLng): LatLng
// Returns a `LatLng` where `lat` and `lng` has been wrapped according to the
```

```
// map's CRS's `wrapLat` and `wrapLng` properties, if they are outside the
// CRS's bounds.
// By default this means longitude is wrapped around the dateline so its
// value is between -180 and +180 degrees.
wrapLatLng: function (latlng) {
return this.options.crs.wrapLatLng(toLatLng(latlng));
},

// @method wrapLatLngBounds(bounds: LatLngBounds): LatLngBounds
// Returns a `LatLngBounds` with the same size as the given one, ensuring that
// its center is within the CRS's bounds.
// By default this means the center longitude is wrapped around the dateline so its
// value is between -180 and +180 degrees, and the majority of the bounds
// overlaps the CRS's bounds.
wrapLatLngBounds: function (latlng) {
return this.options.crs.wrapLatLngBounds(toLatLngBounds(latlng));
},

// @method distance(latlng1: LatLng, latlng2: LatLng): Number
// Returns the distance between two geographical coordinates according to
// the map's CRS. By default this measures distance in meters.
distance: function (latlng1, latlng2) {
return this.options.crs.distance(toLatLng(latlng1), toLatLng(latlng2));
},

// @method containerPointToLayerPoint(point: Point): Point
// Given a pixel coordinate relative to the map container, returns the corresponding
// pixel coordinate relative to the [origin pixel](#map-getpixelorigin).
containerPointToLayerPoint: function (point) { // (Point)
return toPoint(point).subtract(this._getMapPanePos());
},

// @method layerPointToContainerPoint(point: Point): Point
// Given a pixel coordinate relative to the [origin pixel](#map-getpixelorigin),
// returns the corresponding pixel coordinate relative to the map container.
layerPointToContainerPoint: function (point) { // (Point)
return toPoint(point).add(this._getMapPanePos());
},

// @method containerPointToLatLng(point: Point): LatLng
// Given a pixel coordinate relative to the map container, returns
// the corresponding geographical coordinate (for the current zoom level).
containerPointToLatLng: function (point) {
var layerPoint = this.containerPointToLayerPoint(toPoint(point));
return this.layerPointToLatLng(layerPoint);
},
```

```
// @method latLngToContainerPoint(latlng: LatLng): Point
// Given a geographical coordinate, returns the corresponding pixel coordinate
// relative to the map container.
latLngToContainerPoint: function (latlng) {
return this.layerPointToContainerPoint(this.latLngToLayerPoint(toLatLng(latlng)));
},

// @method mouseEventToContainerPoint(ev: MouseEvent): Point
// Given a MouseEvent object, returns the pixel coordinate relative to the
// map container where the event took place.
mouseEventToContainerPoint: function (e) {
return getMousePosition(e, this._container);
},

// @method mouseEventToLayerPoint(ev: MouseEvent): Point
// Given a MouseEvent object, returns the pixel coordinate relative to
// the [origin pixel](#map-getpixelorigin) where the event took place.
mouseEventToLayerPoint: function (e) {
return this.containerPointToLayerPoint(this.mouseEventToContainerPoint(e));
},

// @method mouseEventToLatLng(ev: MouseEvent): LatLng
// Given a MouseEvent object, returns geographical coordinate where the
// event took place.
mouseEventToLatLng: function (e) { // (MouseEvent)
return this.layerPointToLatLng(this.mouseEventToLayerPoint(e));
},


// map initialization methods

_initContainer: function (id) {
var container = this._container = get(id);

if (!container) {
        throw new Error('Map container not found.');
} else if (container._leaflet_id) {
        throw new Error('Map container is already initialized.');
}

on(container, 'scroll', this._onScroll, this);
this._containerId = stamp(container);
},

_initLayout: function () {
```

```
var container = this._container;

this._fadeAnimated = this.options.fadeAnimation && any3d;

addClass(container, 'leaflet-container' +
        (touch ? ' leaflet-touch' : '') +
        (retina ? ' leaflet-retina' : '') +
        (ielt9 ? ' leaflet-oldie' : '') +
        (safari ? ' leaflet-safari' : '') +
        (this._fadeAnimated ? ' leaflet-fade-anim' : ''));

var position = getStyle(container, 'position');

if (position !== 'absolute' && position !== 'relative' && position !== 'fixed') {
        container.style.position = 'relative';
}

this._initPanes();

if (this._initControlPos) {
        this._initControlPos();
}
},

_initPanes: function () {
var panes = this._panes = {};
this._paneRenderers = {};

// @section
//
// Panes are DOM elements used to control the ordering of layers on the map. You
// can access panes with [`map.getPane`](#map-getpane) or
// [`map.getPanes`](#map-getpanes) methods. New panes can be created with the
// [`map.createPane`](#map-createpane) method.
//
// Every map has the following default panes that differ only in zIndex.
//
// @pane mapPane: HTMLElement = 'auto'
// Pane that contains all other map panes

this._mapPane = this.createPane('mapPane', this._container);
setPosition(this._mapPane, new Point(0, 0));

// @pane tilePane: HTMLElement = 200
// Pane for `GridLayer`s and `TileLayer`s
this.createPane('tilePane');
```

```
// @pane overlayPane: HTMLElement = 400
// Pane for vectors (`Path`s, like `Polyline`s and `Polygon`s), `ImageOverlay`s and
`VideoOverlay`s
this.createPane('shadowPane');
// @pane shadowPane: HTMLElement = 500
// Pane for overlay shadows (e.g. `Marker` shadows)
this.createPane('overlayPane');
// @pane markerPane: HTMLElement = 600
// Pane for `Icon`s of `Marker`s
this.createPane('markerPane');
// @pane tooltipPane: HTMLElement = 650
// Pane for `Tooltip`s.
this.createPane('tooltipPane');
// @pane popupPane: HTMLElement = 700
// Pane for `Popup`s.
this.createPane('popupPane');

if (!this.options.markerZoomAnimation) {
        addClass(panes.markerPane, 'leaflet-zoom-hide');
        addClass(panes.shadowPane, 'leaflet-zoom-hide');
}
},


// private methods that modify map state

// @section Map state change events
_resetView: function (center, zoom) {
setPosition(this._mapPane, new Point(0, 0));

var loading = !this._loaded;
this._loaded = true;
zoom = this._limitZoom(zoom);

this.fire('viewprereset');

var zoomChanged = this._zoom !== zoom;
this
        ._moveStart(zoomChanged, false)
        ._move(center, zoom)
        ._moveEnd(zoomChanged);

// @event viewreset: Event
// Fired when the map needs to redraw its content (this usually happens
// on map zoom or load). Very useful for creating custom overlays.
this.fire('viewreset');
```

```
// @event load: Event
// Fired when the map is initialized (when its center and zoom are set
// for the first time).
if (loading) {
	this.fire('load');
}
},

_moveStart: function (zoomChanged, noMoveStart) {
// @event zoomstart: Event
// Fired when the map zoom is about to change (e.g. before zoom animation).
// @event movestart: Event
// Fired when the view of the map starts changing (e.g. user starts dragging the map).
if (zoomChanged) {
	this.fire('zoomstart');
}
if (!noMoveStart) {
	this.fire('movestart');
}
return this;
},

_move: function (center, zoom, data) {
if (zoom === undefined) {
	zoom = this._zoom;
}
var zoomChanged = this._zoom !== zoom;

this._zoom = zoom;
this._lastCenter = center;
this._pixelOrigin = this._getNewPixelOrigin(center);

// @event zoom: Event
// Fired repeatedly during any change in zoom level, including zoom
// and fly animations.
if (zoomChanged || (data && data.pinch)) {  // Always fire 'zoom' if pinching because
#3530
	this.fire('zoom', data);
}

// @event move: Event
// Fired repeatedly during any movement of the map, including pan and
// fly animations.
return this.fire('move', data);
},
```

```
_moveEnd: function (zoomChanged) {
// @event zoomend: Event
// Fired when the map has changed, after any animations.
if (zoomChanged) {
        this.fire('zoomend');
}

// @event moveend: Event
// Fired when the center of the map stops changing (e.g. user stopped
// dragging the map).
return this.fire('moveend');
},

_stop: function () {
cancelAnimFrame(this._flyToFrame);
if (this._panAnim) {
        this._panAnim.stop();
}
return this;
},

_rawPanBy: function (offset) {
setPosition(this._mapPane, this._getMapPanePos().subtract(offset));
},

_getZoomSpan: function () {
return this.getMaxZoom() - this.getMinZoom();
},

_panInsideMaxBounds: function () {
if (!this._enforcingBounds) {
        this.panInsideBounds(this.options.maxBounds);
}
},

_checkIfLoaded: function () {
if (!this._loaded) {
        throw new Error('Set map center and zoom first.');
}
},

// DOM event handling

// @section Interaction events
_initEvents: function (remove$$1) {
```

```
this._targets = {};
this._targets[stamp(this._container)] = this;

var onOff = remove$$1 ? off : on;

// @event click: MouseEvent
// Fired when the user clicks (or taps) the map.
// @event dblclick: MouseEvent
// Fired when the user double-clicks (or double-taps) the map.
// @event mousedown: MouseEvent
// Fired when the user pushes the mouse button on the map.
// @event mouseup: MouseEvent
// Fired when the user releases the mouse button on the map.
// @event mouseover: MouseEvent
// Fired when the mouse enters the map.
// @event mouseout: MouseEvent
// Fired when the mouse leaves the map.
// @event mousemove: MouseEvent
// Fired while the mouse moves over the map.
// @event contextmenu: MouseEvent
// Fired when the user pushes the right mouse button on the map, prevents
// default browser context menu from showing if there are listeners on
// this event. Also fired on mobile when the user holds a single touch
// for a second (also called long press).
// @event keypress: KeyboardEvent
// Fired when the user presses a key from the keyboard while the map is focused.
onOff(this._container, 'click dblclick mousedown mouseup ' +
        'mouseover mouseout mousemove contextmenu keypress',
this._handleDOMEvent, this);

if (this.options.trackResize) {
        onOff(window, 'resize', this._onResize, this);
}

if (any3d && this.options.transform3DLimit) {
        (remove$$1 ? this.off : this.on).call(this, 'moveend', this._onMoveEnd);
}
},

_onResize: function () {
cancelAnimFrame(this._resizeRequest);
this._resizeRequest = requestAnimFrame(
      function () { this.invalidateSize({debounceMoveend: true}); }, this);
},

_onScroll: function () {
```

```
this._container.scrollTop  = 0;
this._container.scrollLeft = 0;
},

_onMoveEnd: function () {
var pos = this._getMapPanePos();
if (Math.max(Math.abs(pos.x), Math.abs(pos.y)) >= this.options.transform3DLimit) {
        // https://bugzilla.mozilla.org/show_bug.cgi?id=1203873 but Webkit also have
        // a pixel offset on very high values, see: http://jsfiddle.net/dg6r5hhb/
        this._resetView(this.getCenter(), this.getZoom());
}
},

_findEventTargets: function (e, type) {
var this$1 = this;

var targets = [],
   target,
   isHover = type === 'mouseout' || type === 'mouseover',
   src = e.target || e.srcElement,
   dragging = false;

while (src) {
        target = this$1._targets[stamp(src)];
        if (target && (type === 'click' || type === 'preclick') && !e._simulated &&
this$1._draggableMoved(target)) {
                // Prevent firing click after you just dragged an object.
                dragging = true;
                break;
        }
        if (target && target.listens(type, true)) {
                if (isHover && !isExternalTarget(src, e)) { break; }
                targets.push(target);
                if (isHover) { break; }
        }
        if (src === this$1._container) { break; }
        src = src.parentNode;
}
if (!targets.length && !dragging && !isHover && isExternalTarget(src, e)) {
        targets = [this];
}
return targets;
},

_handleDOMEvent: function (e) {
if (!this._loaded || skipped(e)) { return; }
```

```
var type = e.type;

if (type === 'mousedown' || type === 'keypress') {
        // prevents outline when clicking on keyboard-focusable element
        preventOutline(e.target || e.srcElement);
}

this._fireDOMEvent(e, type);
},

_mouseEvents: ['click', 'dblclick', 'mouseover', 'mouseout', 'contextmenu'],

_fireDOMEvent: function (e, type, targets) {
var this$1 = this;


if (e.type === 'click') {
        // Fire a synthetic 'preclick' event which propagates up (mainly for closing
popups).
        // @event preclick: MouseEvent
        // Fired before mouse click on the map (sometimes useful when you
        // want something to happen on click before any existing click
        // handlers start running).
        var synth = extend({}, e);
        synth.type = 'preclick';
        this._fireDOMEvent(synth, synth.type, targets);
}

if (e._stopped) { return; }

// Find the layer the event is propagating from and its parents.
targets = (targets || []).concat(this._findEventTargets(e, type));

if (!targets.length) { return; }

var target = targets[0];
if (type === 'contextmenu' && target.listens(type, true)) {
        preventDefault(e);
}

var data = {
        originalEvent: e
};

if (e.type !== 'keypress') {
```

```
		var isMarker = target.getLatLng && (!target._radius || target._radius <= 10);
		data.containerPoint = isMarker ?
			this.latLngToContainerPoint(target.getLatLng()) :
this.mouseEventToContainerPoint(e);
		data.layerPoint = this.containerPointToLayerPoint(data.containerPoint);
		data.latlng = isMarker ? target.getLatLng() :
this.layerPointToLatLng(data.layerPoint);
}

for (var i = 0; i < targets.length; i++) {
		targets[i].fire(type, data, true);
		if (data.originalEvent._stopped ||
			(targets[i].options.bubblingMouseEvents === false &&
indexOf(this$1._mouseEvents, type) !== -1)) { return; }
}
},

_draggableMoved: function (obj) {
obj = obj.dragging && obj.dragging.enabled() ? obj : this;
return (obj.dragging && obj.dragging.moved()) || (this.boxZoom &&
this.boxZoom.moved());
},

_clearHandlers: function () {
var this$1 = this;

for (var i = 0, len = this._handlers.length; i < len; i++) {
		this$1._handlers[i].disable();
}
},

// @section Other Methods

// @method whenReady(fn: Function, context?: Object): this
// Runs the given function `fn` when the map gets initialized with
// a view (center and zoom) and at least one layer, or immediately
// if it's already initialized, optionally passing a function context.
whenReady: function (callback, context) {
if (this._loaded) {
		callback.call(context || this, {target: this});
} else {
		this.on('load', callback, context);
}
return this;
},
```

```
// private methods for getting map state

_getMapPanePos: function () {
return getPosition(this._mapPane) || new Point(0, 0);
},

_moved: function () {
var pos = this._getMapPanePos();
return pos && !pos.equals([0, 0]);
},

_getTopLeftPoint: function (center, zoom) {
var pixelOrigin = center && zoom !== undefined ?
        this._getNewPixelOrigin(center, zoom) :
        this.getPixelOrigin();
return pixelOrigin.subtract(this._getMapPanePos());
},

_getNewPixelOrigin: function (center, zoom) {
var viewHalf = this.getSize()._divideBy(2);
return this.project(center,
zoom)._subtract(viewHalf)._add(this._getMapPanePos())._round();
},

_latLngToNewLayerPoint: function (latlng, zoom, center) {
var topLeft = this._getNewPixelOrigin(center, zoom);
return this.project(latlng, zoom)._subtract(topLeft);
},

_latLngBoundsToNewLayerBounds: function (latLngBounds, zoom, center) {
var topLeft = this._getNewPixelOrigin(center, zoom);
return toBounds([
        this.project(latLngBounds.getSouthWest(), zoom)._subtract(topLeft),
        this.project(latLngBounds.getNorthWest(), zoom)._subtract(topLeft),
        this.project(latLngBounds.getSouthEast(), zoom)._subtract(topLeft),
        this.project(latLngBounds.getNorthEast(), zoom)._subtract(topLeft)
]);
},

// layer point of the current center
_getCenterLayerPoint: function () {
return this.containerPointToLayerPoint(this.getSize()._divideBy(2));
},

// offset of the specified place to the current center in pixels
```

```
_getCenterOffset: function (latlng) {
return this.latLngToLayerPoint(latlng).subtract(this._getCenterLayerPoint());
},

// adjust center for view to get inside bounds
_limitCenter: function (center, zoom, bounds) {

if (!bounds) { return center; }

var centerPoint = this.project(center, zoom),
   viewHalf = this.getSize().divideBy(2),
   viewBounds = new Bounds(centerPoint.subtract(viewHalf),
centerPoint.add(viewHalf)),
   offset = this._getBoundsOffset(viewBounds, bounds, zoom);

// If offset is less than a pixel, ignore.
// This prevents unstable projections from getting into
// an infinite loop of tiny offsets.
if (offset.round().equals([0, 0])) {
        return center;
}

return this.unproject(centerPoint.add(offset), zoom);
},

// adjust offset for view to get inside bounds
_limitOffset: function (offset, bounds) {
if (!bounds) { return offset; }

var viewBounds = this.getPixelBounds(),
   newBounds = new Bounds(viewBounds.min.add(offset),
viewBounds.max.add(offset));

return offset.add(this._getBoundsOffset(newBounds, bounds));
},

// returns offset needed for pxBounds to get inside maxBounds at a specified zoom
_getBoundsOffset: function (pxBounds, maxBounds, zoom) {
var projectedMaxBounds = toBounds(
      this.project(maxBounds.getNorthEast(), zoom),
      this.project(maxBounds.getSouthWest(), zoom)
   ),
   minOffset = projectedMaxBounds.min.subtract(pxBounds.min),
   maxOffset = projectedMaxBounds.max.subtract(pxBounds.max),

   dx = this._rebound(minOffset.x, -maxOffset.x),
```

```
    dy = this._rebound(minOffset.y, -maxOffset.y);

return new Point(dx, dy);
},

_rebound: function (left, right) {
return left + right > 0 ?
        Math.round(left - right) / 2 :
        Math.max(0, Math.ceil(left)) - Math.max(0, Math.floor(right));
},

_limitZoom: function (zoom) {
var min = this.getMinZoom(),
    max = this.getMaxZoom(),
    snap = any3d ? this.options.zoomSnap : 1;
if (snap) {
        zoom = Math.round(zoom / snap) * snap;
}
return Math.max(min, Math.min(max, zoom));
},

_onPanTransitionStep: function () {
this.fire('move');
},

_onPanTransitionEnd: function () {
removeClass(this._mapPane, 'leaflet-pan-anim');
this.fire('moveend');
},

_tryAnimatedPan: function (center, options) {
// difference between the new and current centers in pixels
var offset = this._getCenterOffset(center)._trunc();

// don't animate too far unless animate: true specified in options
if ((options && options.animate) !== true && !this.getSize().contains(offset)) { return
false; }

this.panBy(offset, options);

return true;
},

_createAnimProxy: function () {

var proxy = this._proxy = create$1('div', 'leaflet-proxy leaflet-zoom-animated');
```

```
this._panes.mapPane.appendChild(proxy);

this.on('zoomanim', function (e) {
	var prop = TRANSFORM,
	    transform = this._proxy.style[prop];

	setTransform(this._proxy, this.project(e.center, e.zoom),
this.getZoomScale(e.zoom, 1));

	// workaround for case when transform is the same and so transitionend event is
not fired
	if (transform === this._proxy.style[prop] && this._animatingZoom) {
		this._onZoomTransitionEnd();
	}
}, this);

this.on('load moveend', function () {
	var c = this.getCenter(),
	    z = this.getZoom();
	setTransform(this._proxy, this.project(c, z), this.getZoomScale(z, 1));
}, this);

this._on('unload', this._destroyAnimProxy, this);
},

_destroyAnimProxy: function () {
remove(this._proxy);
delete this._proxy;
},

_catchTransitionEnd: function (e) {
if (this._animatingZoom && e.propertyName.indexOf('transform') >= 0) {
	this._onZoomTransitionEnd();
}
},

_nothingToAnimate: function () {
return !this._container.getElementsByClassName('leaflet-zoom-animated').length;
},

_tryAnimatedZoom: function (center, zoom, options) {

if (this._animatingZoom) { return true; }

options = options || {};
```

```
// don't animate if disabled, not supported or zoom difference is too large
if (!this._zoomAnimated || options.animate === false || this._nothingToAnimate() ||
      Math.abs(zoom - this._zoom) > this.options.zoomAnimationThreshold) { return
false; }

// offset is the pixel coords of the zoom origin relative to the current center
var scale = this.getZoomScale(zoom),
   offset = this._getCenterOffset(center)._divideBy(1 - 1 / scale);

// don't animate if the zoom origin isn't within one screen from the current center, unless
forced
if (options.animate !== true && !this.getSize().contains(offset)) { return false; }

requestAnimFrame(function () {
         this
            ._moveStart(true, false)
            ._animateZoom(center, zoom, true);
}, this);

return true;
},

_animateZoom: function (center, zoom, startAnim, noUpdate) {
if (!this._mapPane) { return; }

if (startAnim) {
         this._animatingZoom = true;

         // remember what center/zoom to set after animation
         this._animateToCenter = center;
         this._animateToZoom = zoom;

         addClass(this._mapPane, 'leaflet-zoom-anim');
}

// @event zoomanim: ZoomAnimEvent
// Fired on every frame of a zoom animation
this.fire('zoomanim', {
         center: center,
         zoom: zoom,
         noUpdate: noUpdate
});

// Work around webkit not firing 'transitionend', see
https://github.com/Leaflet/Leaflet/issues/3689, 2693
setTimeout(bind(this._onZoomTransitionEnd, this), 250);
```

```
	},

	_onZoomTransitionEnd: function () {
	if (!this._animatingZoom) { return; }

	if (this._mapPane) {
		removeClass(this._mapPane, 'leaflet-zoom-anim');
	}

	this._animatingZoom = false;

	this._move(this._animateToCenter, this._animateToZoom);

	// This anim frame should prevent an obscure iOS webkit tile loading race condition.
	requestAnimFrame(function () {
		this._moveEnd(true);
	}, this);
	}
});

// @section

// @factory L.map(id: String, options?: Map options)
// Instantiates a map object given the DOM ID of a `<div>` element
// and optionally an object literal with `Map options`.
//
// @alternative
// @factory L.map(el: HTMLElement, options?: Map options)
// Instantiates a map object given an instance of a `<div>` HTML element
// and optionally an object literal with `Map options`.
function createMap(id, options) {
	return new Map(id, options);
}

/*
 * @class Control
 * @aka L.Control
 * @inherits Class
 *
 * L.Control is a base class for implementing map controls. Handles positioning.
 * All other controls extend from this class.
 */

var Control = Class.extend({
	// @section
	// @aka Control options
```

```
options: {
// @option position: String = 'topright'
// The position of the control (one of the map corners). Possible values are `'topleft'`,
// `'topright'`, `'bottomleft'` or `'bottomright'`
position: 'topright'
},

initialize: function (options) {
setOptions(this, options);
},

/* @section
 * Classes extending L.Control will inherit the following methods:
 *
 * @method getPosition: string
 * Returns the position of the control.
 */
getPosition: function () {
return this.options.position;
},

// @method setPosition(position: string): this
// Sets the position of the control.
setPosition: function (position) {
var map = this._map;

if (map) {
        map.removeControl(this);
}

this.options.position = position;

if (map) {
        map.addControl(this);
}

return this;
},

// @method getContainer: HTMLElement
// Returns the HTMLElement that contains the control.
getContainer: function () {
return this._container;
},

// @method addTo(map: Map): this
```

```
        // Adds the control to the given map.
        addTo: function (map) {
        this.remove();
        this._map = map;

        var container = this._container = this.onAdd(map),
            pos = this.getPosition(),
            corner = map._controlCorners[pos];

        addClass(container, 'leaflet-control');

        if (pos.indexOf('bottom') !== -1) {
                corner.insertBefore(container, corner.firstChild);
        } else {
                corner.appendChild(container);
        }

        return this;
        },

        // @method remove: this
        // Removes the control from the map it is currently active on.
        remove: function () {
        if (!this._map) {
                return this;
        }

        remove(this._container);

        if (this.onRemove) {
                this.onRemove(this._map);
        }

        this._map = null;

        return this;
        },

        _refocusOnMap: function (e) {
        // if map exists and event is not a keyboard event
        if (this._map && e && e.screenX > 0 && e.screenY > 0) {
                this._map.getContainer().focus();
        }
        }
});
```

```
var control = function (options) {
	return new Control(options);
};

/* @section Extension methods
 * @uninheritable
 *
 * Every control should extend from `L.Control` and (re-)implement the following methods.
 *
 * @method onAdd(map: Map): HTMLElement
 * Should return the container DOM element for the control and add listeners on relevant map
	events. Called on [`control.addTo(map)`](#control-addTo).
 *
 * @method onRemove(map: Map)
 * Optional method. Should contain all clean up code that removes the listeners previously added
	in [`onAdd`](#control-onadd). Called on [`control.remove()`](#control-remove).
 */

/* @namespace Map
 * @section Methods for Layers and Controls
 */
Map.include({
	// @method addControl(control: Control): this
	// Adds the given control to the map
	addControl: function (control) {
	control.addTo(this);
	return this;
	},

	// @method removeControl(control: Control): this
	// Removes the given control from the map
	removeControl: function (control) {
	control.remove();
	return this;
	},

	_initControlPos: function () {
	var corners = this._controlCorners = {},
	   l = 'leaflet-',
	   container = this._controlContainer =
		create$1('div', l + 'control-container', this._container);

	function createCorner(vSide, hSide) {
		var className = l + vSide + ' ' + l + hSide;

		corners[vSide + hSide] = create$1('div', className, container);
```

```
        }

        createCorner('top', 'left');
        createCorner('top', 'right');
        createCorner('bottom', 'left');
        createCorner('bottom', 'right');
        },

        _clearControlPos: function () {
        var this$1 = this;

        for (var i in this$1._controlCorners) {
                remove(this$1._controlCorners[i]);
        }
        remove(this._controlContainer);
        delete this._controlCorners;
        delete this._controlContainer;
        }
});

/*
 * @class Control.Layers
 * @aka L.Control.Layers
 * @inherits Control
 *
 * The layers control gives users the ability to switch between different base layers and switch
        overlays on/off (check out the [detailed example](http://leafletjs.com/examples/layers-
        control/)). Extends `Control`.
 *
 * @example
 *
 * ```js
 * var baseLayers = {
 *        "Mapbox": mapbox,
 *        "OpenStreetMap": osm
 * };
 *
 * var overlays = {
 *        "Marker": marker,
 *        "Roads": roadsLayer
 * };
 *
 * L.control.layers(baseLayers, overlays).addTo(map);
 * ```
 *
```

```
 * The `baseLayers` and `overlays` parameters are object literals with layer names as keys and
        `Layer` objects as values:
 *
 * ```js
 * {
 *     "<someName1>": layer1,
 *     "<someName2>": layer2
 * }
 * ```
 *
 * The layer names can contain HTML, which allows you to add additional styling to the items:
 *
 * ```js
 * {"<img src='my-layer-icon' /> <span class='my-layer-item'>My Layer</span>": myLayer}
 * ```
 */

var Layers = Control.extend({
        // @section
        // @aka Control.Layers options
        options: {
        // @option collapsed: Boolean = true
        // If `true`, the control will be collapsed into an icon and expanded on mouse hover or
        touch.
        collapsed: true,
        position: 'topright',

        // @option autoZIndex: Boolean = true
        // If `true`, the control will assign zIndexes in increasing order to all of its layers so that
        the order is preserved when switching them on/off.
        autoZIndex: true,

        // @option hideSingleBase: Boolean = false
        // If `true`, the base layers in the control will be hidden when there is only one.
        hideSingleBase: false,

        // @option sortLayers: Boolean = false
        // Whether to sort the layers. When `false`, layers will keep the order
        // in which they were added to the control.
        sortLayers: false,

        // @option sortFunction: Function = *
        // A [compare
        function](https://developer.mozilla.org/docs/Web/JavaScript/Reference/Global_Objects/
        Array/sort)
        // that will be used for sorting the layers, when `sortLayers` is `true`.
```

```
// The function receives both the `L.Layer` instances and their names, as in
// `sortFunction(layerA, layerB, nameA, nameB)`.
// By default, it sorts layers alphabetically by their name.
sortFunction: function (layerA, layerB, nameA, nameB) {
	return nameA < nameB ? -1 : (nameB < nameA ? 1 : 0);
}
},

initialize: function (baseLayers, overlays, options) {
var this$1 = this;

setOptions(this, options);

this._layerControlInputs = [];
this._layers = [];
this._lastZIndex = 0;
this._handlingClick = false;

for (var i in baseLayers) {
	this$1._addLayer(baseLayers[i], i);
}

for (i in overlays) {
	this$1._addLayer(overlays[i], i, true);
}
},

onAdd: function (map) {
var this$1 = this;

this._initLayout();
this._update();

this._map = map;
map.on('zoomend', this._checkDisabledLayers, this);

for (var i = 0; i < this._layers.length; i++) {
	this$1._layers[i].layer.on('add remove', this$1._onLayerChange, this$1);
}

return this._container;
},

addTo: function (map) {
Control.prototype.addTo.call(this, map);
```

```
// Trigger expand after Layers Control has been inserted into DOM so that is now has an
actual height.
return this._expandIfNotCollapsed();
},

onRemove: function () {
var this$1 = this;

this._map.off('zoomend', this._checkDisabledLayers, this);

for (var i = 0; i < this._layers.length; i++) {
        this$1._layers[i].layer.off('add remove', this$1._onLayerChange, this$1);
}
},

// @method addBaseLayer(layer: Layer, name: String): this
// Adds a base layer (radio button entry) with the given name to the control.
addBaseLayer: function (layer, name) {
this._addLayer(layer, name);
return (this._map) ? this._update() : this;
},

// @method addOverlay(layer: Layer, name: String): this
// Adds an overlay (checkbox entry) with the given name to the control.
addOverlay: function (layer, name) {
this._addLayer(layer, name, true);
return (this._map) ? this._update() : this;
},

// @method removeLayer(layer: Layer): this
// Remove the given layer from the control.
removeLayer: function (layer) {
layer.off('add remove', this._onLayerChange, this);

var obj = this._getLayer(stamp(layer));
if (obj) {
        this._layers.splice(this._layers.indexOf(obj), 1);
}
return (this._map) ? this._update() : this;
},

// @method expand(): this
// Expand the control container if collapsed.
expand: function () {
addClass(this._container, 'leaflet-control-layers-expanded');
this._form.style.height = null;
```

```
var acceptableHeight = this._map.getSize().y - (this._container.offsetTop + 50);
if (acceptableHeight < this._form.clientHeight) {
        addClass(this._form, 'leaflet-control-layers-scrollbar');
        this._form.style.height = acceptableHeight + 'px';
} else {
        removeClass(this._form, 'leaflet-control-layers-scrollbar');
}
this._checkDisabledLayers();
return this;
},

// @method collapse(): this
// Collapse the control container if expanded.
collapse: function () {
removeClass(this._container, 'leaflet-control-layers-expanded');
return this;
},

_initLayout: function () {
var className = 'leaflet-control-layers',
   container = this._container = create$1('div', className),
   collapsed = this.options.collapsed;

// makes this work on IE touch devices by stopping it from firing a mouseout event when
the touch is released
container.setAttribute('aria-haspopup', true);

disableClickPropagation(container);
disableScrollPropagation(container);

var form = this._form = create$1('form', className + '-list');

if (collapsed) {
        this._map.on('click', this.collapse, this);

        if (!android) {
                on(container, {
                        mouseenter: this.expand,
                        mouseleave: this.collapse
                }, this);
        }
}

var link = this._layersLink = create$1('a', className + '-toggle', container);
link.href = '#';
link.title = 'Layers';
```

```
if (touch) {
	on(link, 'click', stop);
	on(link, 'click', this.expand, this);
} else {
	on(link, 'focus', this.expand, this);
}

if (!collapsed) {
	this.expand();
}

this._baseLayersList = create$1('div', className + '-base', form);
this._separator = create$1('div', className + '-separator', form);
this._overlaysList = create$1('div', className + '-overlays', form);

container.appendChild(form);
},

_getLayer: function (id) {
var this$1 = this;

for (var i = 0; i < this._layers.length; i++) {

	if (this$1._layers[i] && stamp(this$1._layers[i].layer) === id) {
		return this$1._layers[i];
	}
}
},

_addLayer: function (layer, name, overlay) {
if (this._map) {
	layer.on('add remove', this._onLayerChange, this);
}

this._layers.push({
	layer: layer,
	name: name,
	overlay: overlay
});

if (this.options.sortLayers) {
	this._layers.sort(bind(function (a, b) {
		return this.options.sortFunction(a.layer, b.layer, a.name, b.name);
	}, this));
}
```

```
if (this.options.autoZIndex && layer.setZIndex) {
	this._lastZIndex++;
	layer.setZIndex(this._lastZIndex);
}

this._expandIfNotCollapsed();
},

_update: function () {
var this$1 = this;

if (!this._container) { return this; }

empty(this._baseLayersList);
empty(this._overlaysList);

this._layerControlInputs = [];
var baseLayersPresent, overlaysPresent, i, obj, baseLayersCount = 0;

for (i = 0; i < this._layers.length; i++) {
	obj = this$1._layers[i];
	this$1._addItem(obj);
	overlaysPresent = overlaysPresent || obj.overlay;
	baseLayersPresent = baseLayersPresent || !obj.overlay;
	baseLayersCount += !obj.overlay ? 1 : 0;
}

// Hide base layers section if there's only one layer.
if (this.options.hideSingleBase) {
	baseLayersPresent = baseLayersPresent && baseLayersCount > 1;
	this._baseLayersList.style.display = baseLayersPresent ? '' : 'none';
}

this._separator.style.display = overlaysPresent && baseLayersPresent ? '' : 'none';

return this;
},

_onLayerChange: function (e) {
if (!this._handlingClick) {
	this._update();
}

var obj = this._getLayer(stamp(e.target));
```

```
// @namespace Map
// @section Layer events
// @event baselayerchange: LayersControlEvent
// Fired when the base layer is changed through the [layer control](#control-layers).
// @event overlayadd: LayersControlEvent
// Fired when an overlay is selected through the [layer control](#control-layers).
// @event overlayremove: LayersControlEvent
// Fired when an overlay is deselected through the [layer control](#control-layers).
// @namespace Control.Layers
var type = obj.overlay ?
        (e.type === 'add' ? 'overlayadd' : 'overlayremove') :
        (e.type === 'add' ? 'baselayerchange' : null);

if (type) {
        this._map.fire(type, obj);
}
},

// IE7 bugs out if you create a radio dynamically, so you have to do it this hacky way (see
http://bit.ly/PqYLBe)
_createRadioElement: function (name, checked) {

var radioHtml = '<input type="radio" class="leaflet-control-layers-selector" name="' +
                name + '"' + (checked ? ' checked="checked"' : '') + '/>';

var radioFragment = document.createElement('div');
radioFragment.innerHTML = radioHtml;

return radioFragment.firstChild;
},

_addItem: function (obj) {
var label = document.createElement('label'),
   checked = this._map.hasLayer(obj.layer),
   input;

if (obj.overlay) {
        input = document.createElement('input');
        input.type = 'checkbox';
        input.className = 'leaflet-control-layers-selector';
        input.defaultChecked = checked;
} else {
        input = this._createRadioElement('leaflet-base-layers', checked);
}

this._layerControlInputs.push(input);
```

```
input.layerId = stamp(obj.layer);

on(input, 'click', this._onInputClick, this);

var name = document.createElement('span');
name.innerHTML = ' ' + obj.name;

// Helps from preventing layer control flicker when checkboxes are disabled
// https://github.com/Leaflet/Leaflet/issues/2771
var holder = document.createElement('div');

label.appendChild(holder);
holder.appendChild(input);
holder.appendChild(name);

var container = obj.overlay ? this._overlaysList : this._baseLayersList;
container.appendChild(label);

this._checkDisabledLayers();
return label;
},

_onInputClick: function () {
var this$1 = this;

var inputs = this._layerControlInputs,
   input, layer;
var addedLayers = [],
   removedLayers = [];

this._handlingClick = true;

for (var i = inputs.length - 1; i >= 0; i--) {
        input = inputs[i];
        layer = this$1._getLayer(input.layerId).layer;

        if (input.checked) {
                addedLayers.push(layer);
        } else if (!input.checked) {
                removedLayers.push(layer);
        }
}

// Bugfix issue 2318: Should remove all old layers before readding new ones
for (i = 0; i < removedLayers.length; i++) {
        if (this$1._map.hasLayer(removedLayers[i])) {
```

```
                this$1._map.removeLayer(removedLayers[i]);
        }
}
for (i = 0; i < addedLayers.length; i++) {
        if (!this$1._map.hasLayer(addedLayers[i])) {
                this$1._map.addLayer(addedLayers[i]);
        }
}

this._handlingClick = false;

this._refocusOnMap();
},

_checkDisabledLayers: function () {
var this$1 = this;

var inputs = this._layerControlInputs,
   input,
   layer,
   zoom = this._map.getZoom();

for (var i = inputs.length - 1; i >= 0; i--) {
        input = inputs[i];
        layer = this$1._getLayer(input.layerId).layer;
        input.disabled = (layer.options.minZoom !== undefined && zoom <
layer.options.minZoom) ||
                        (layer.options.maxZoom !== undefined && zoom >
layer.options.maxZoom);

}
},

_expandIfNotCollapsed: function () {
if (this._map && !this.options.collapsed) {
        this.expand();
}
return this;
},

_expand: function () {
// Backward compatibility, remove me in 1.1.
return this.expand();
},

_collapse: function () {
```

```
        // Backward compatibility, remove me in 1.1.
        return this.collapse();
        }

});


// @factory L.control.layers(baselayers?: Object, overlays?: Object, options?: Control.Layers
        options)
// Creates an attribution control with the given layers. Base layers will be switched with radio
        buttons, while overlays will be switched with checkboxes. Note that all base layers
        should be passed in the base layers object, but only one should be added to the map
        during map instantiation.
var layers = function (baseLayers, overlays, options) {
        return new Layers(baseLayers, overlays, options);
};

/*
 * @class Control.Zoom
 * @aka L.Control.Zoom
 * @inherits Control
 *
 * A basic zoom control with two buttons (zoom in and zoom out). It is put on the map by default
        unless you set its [`zoomControl` option](#map-zoomcontrol) to `false`. Extends
        `Control`.
 */

var Zoom = Control.extend({
        // @section
        // @aka Control.Zoom options
        options: {
        position: 'topleft',

        // @option zoomInText: String = '+'
        // The text set on the 'zoom in' button.
        zoomInText: '+',

        // @option zoomInTitle: String = 'Zoom in'
        // The title set on the 'zoom in' button.
        zoomInTitle: 'Zoom in',

        // @option zoomOutText: String = '&#x2212;'
        // The text set on the 'zoom out' button.
        zoomOutText: '&#x2212;',

        // @option zoomOutTitle: String = 'Zoom out'
```

```
// The title set on the 'zoom out' button.
zoomOutTitle: 'Zoom out'
},

onAdd: function (map) {
var zoomName = 'leaflet-control-zoom',
    container = create$1('div', zoomName + ' leaflet-bar'),
    options = this.options;

this._zoomInButton  = this._createButton(options.zoomInText, options.zoomInTitle,
        zoomName + '-in',  container, this._zoomIn);
this._zoomOutButton = this._createButton(options.zoomOutText, options.zoomOutTitle,
        zoomName + '-out', container, this._zoomOut);

this._updateDisabled();
map.on('zoomend zoomlevelschange', this._updateDisabled, this);

return container;
},

onRemove: function (map) {
map.off('zoomend zoomlevelschange', this._updateDisabled, this);
},

disable: function () {
this._disabled = true;
this._updateDisabled();
return this;
},

enable: function () {
this._disabled = false;
this._updateDisabled();
return this;
},

_zoomIn: function (e) {
if (!this._disabled && this._map._zoom < this._map.getMaxZoom()) {
        this._map.zoomIn(this._map.options.zoomDelta * (e.shiftKey ? 3 : 1));
}
},

_zoomOut: function (e) {
if (!this._disabled && this._map._zoom > this._map.getMinZoom()) {
        this._map.zoomOut(this._map.options.zoomDelta * (e.shiftKey ? 3 : 1));
}
```

```
	},

	_createButton: function (html, title, className, container, fn) {
	var link = create$1('a', className, container);
	link.innerHTML = html;
	link.href = '#';
	link.title = title;

	/*
	 * Will force screen readers like VoiceOver to read this as "Zoom in - button"
	 */
	link.setAttribute('role', 'button');
	link.setAttribute('aria-label', title);

	disableClickPropagation(link);
	on(link, 'click', stop);
	on(link, 'click', fn, this);
	on(link, 'click', this._refocusOnMap, this);

	return link;
	},

	_updateDisabled: function () {
	var map = this._map,
	   className = 'leaflet-disabled';

	removeClass(this._zoomInButton, className);
	removeClass(this._zoomOutButton, className);

	if (this._disabled || map._zoom === map.getMinZoom()) {
		addClass(this._zoomOutButton, className);
	}
	if (this._disabled || map._zoom === map.getMaxZoom()) {
		addClass(this._zoomInButton, className);
	}
	}
});

// @namespace Map
// @section Control options
// @option zoomControl: Boolean = true
// Whether a [zoom control](#control-zoom) is added to the map by default.
Map.mergeOptions({
	zoomControl: true
});
```

```
Map.addInitHook(function () {
	if (this.options.zoomControl) {
	this.zoomControl = new Zoom();
	this.addControl(this.zoomControl);
	}
});

// @namespace Control.Zoom
// @factory L.control.zoom(options: Control.Zoom options)
// Creates a zoom control
var zoom = function (options) {
	return new Zoom(options);
};

/*
 * @class Control.Scale
 * @aka L.Control.Scale
 * @inherits Control
 *
 * A simple scale control that shows the scale of the current center of screen in metric (m/km)
	and imperial (mi/ft) systems. Extends `Control`.
 *
 * @example
 *
 * ```js
 * L.control.scale().addTo(map);
 * ```
 */

var Scale = Control.extend({
	// @section
	// @aka Control.Scale options
	options: {
	position: 'bottomleft',

	// @option maxWidth: Number = 100
	// Maximum width of the control in pixels. The width is set dynamically to show round
	values (e.g. 100, 200, 500).
	maxWidth: 100,

	// @option metric: Boolean = True
	// Whether to show the metric scale line (m/km).
	metric: true,

	// @option imperial: Boolean = True
	// Whether to show the imperial scale line (mi/ft).
```

```
imperial: true

// @option updateWhenIdle: Boolean = false
// If `true`, the control is updated on [`moveend`](#map-moveend), otherwise it's always
up-to-date (updated on [`move`](#map-move)).
},

onAdd: function (map) {
var className = 'leaflet-control-scale',
    container = create$1('div', className),
    options = this.options;

this._addScales(options, className + '-line', container);

map.on(options.updateWhenIdle ? 'moveend' : 'move', this._update, this);
map.whenReady(this._update, this);

return container;
},

onRemove: function (map) {
map.off(this.options.updateWhenIdle ? 'moveend' : 'move', this._update, this);
},

_addScales: function (options, className, container) {
if (options.metric) {
        this._mScale = create$1('div', className, container);
}
if (options.imperial) {
        this._iScale = create$1('div', className, container);
}
},

_update: function () {
var map = this._map,
    y = map.getSize().y / 2;

var maxMeters = map.distance(
        map.containerPointToLatLng([0, y]),
        map.containerPointToLatLng([this.options.maxWidth, y]));

this._updateScales(maxMeters);
},

_updateScales: function (maxMeters) {
if (this.options.metric && maxMeters) {
```

```
            this._updateMetric(maxMeters);
        }
        if (this.options.imperial && maxMeters) {
            this._updateImperial(maxMeters);
        }
        },

        _updateMetric: function (maxMeters) {
        var meters = this._getRoundNum(maxMeters),
           label = meters < 1000 ? meters + ' m' : (meters / 1000) + ' km';

        this._updateScale(this._mScale, label, meters / maxMeters);
        },

        _updateImperial: function (maxMeters) {
        var maxFeet = maxMeters * 3.2808399,
           maxMiles, miles, feet;

        if (maxFeet > 5280) {
            maxMiles = maxFeet / 5280;
            miles = this._getRoundNum(maxMiles);
            this._updateScale(this._iScale, miles + ' mi', miles / maxMiles);

        } else {
            feet = this._getRoundNum(maxFeet);
            this._updateScale(this._iScale, feet + ' ft', feet / maxFeet);
        }
        },

        _updateScale: function (scale, text, ratio) {
        scale.style.width = Math.round(this.options.maxWidth * ratio) + 'px';
        scale.innerHTML = text;
        },

        _getRoundNum: function (num) {
        var pow10 = Math.pow(10, (Math.floor(num) + '').length - 1),
           d = num / pow10;

        d = d >= 10 ? 10 :
           d >= 5 ? 5 :
           d >= 3 ? 3 :
           d >= 2 ? 2 : 1;

        return pow10 * d;
        }
});
```

```
// @factory L.control.scale(options?: Control.Scale options)
// Creates an scale control with the given options.
var scale = function (options) {
	return new Scale(options);
};

/*
 * @class Control.Attribution
 * @aka L.Control.Attribution
 * @inherits Control
 *
 * The attribution control allows you to display attribution data in a small text box on a map. It is
	put on the map by default unless you set its [`attributionControl` option](#map-
	attributioncontrol) to `false`, and it fetches attribution texts from layers with the
	[`getAttribution` method](#layer-getattribution) automatically. Extends Control.
 */

var Attribution = Control.extend({
	// @section
	// @aka Control.Attribution options
	options: {
	position: 'bottomright',

	// @option prefix: String = 'Leaflet'
	// The HTML text shown before the attributions. Pass `false` to disable.
	prefix: '<a href="http://leafletjs.com" title="A JS library for interactive
	maps">Leaflet</a>'
	},

	initialize: function (options) {
	setOptions(this, options);

	this._attributions = {};
	},

	onAdd: function (map) {
	var this$1 = this;

	map.attributionControl = this;
	this._container = create$1('div', 'leaflet-control-attribution');
	disableClickPropagation(this._container);

	// TODO ugly, refactor
	for (var i in map._layers) {
```

```
		if (map._layers[i].getAttribution) {
			this$1.addAttribution(map._layers[i].getAttribution());
		}
	}

	this._update();

	return this._container;
	},

	// @method setPrefix(prefix: String): this
	// Sets the text before the attributions.
	setPrefix: function (prefix) {
	this.options.prefix = prefix;
	this._update();
	return this;
	},

	// @method addAttribution(text: String): this
	// Adds an attribution text (e.g. `"Vector data &copy; Mapbox"`).
	addAttribution: function (text) {
	if (!text) { return this; }

	if (!this._attributions[text]) {
		this._attributions[text] = 0;
	}
	this._attributions[text]++;

	this._update();

	return this;
	},

	// @method removeAttribution(text: String): this
	// Removes an attribution text.
	removeAttribution: function (text) {
	if (!text) { return this; }

	if (this._attributions[text]) {
		this._attributions[text]--;
		this._update();
	}

	return this;
	},
```

```
	_update: function () {
	var this$1 = this;

	if (!this._map) { return; }

	var attribs = [];

	for (var i in this$1._attributions) {
		if (this$1._attributions[i]) {
			attribs.push(i);
		}
	}

	var prefixAndAttribs = [];

	if (this.options.prefix) {
		prefixAndAttribs.push(this.options.prefix);
	}
	if (attribs.length) {
		prefixAndAttribs.push(attribs.join(', '));
	}

	this._container.innerHTML = prefixAndAttribs.join(' | ');
	}
});

// @namespace Map
// @section Control options
// @option attributionControl: Boolean = true
// Whether a [attribution control](#control-attribution) is added to the map by default.
Map.mergeOptions({
	attributionControl: true
});

Map.addInitHook(function () {
	if (this.options.attributionControl) {
	new Attribution().addTo(this);
	}
});

// @namespace Control.Attribution
// @factory L.control.attribution(options: Control.Attribution options)
// Creates an attribution control.
var attribution = function (options) {
	return new Attribution(options);
};
```

```
Control.Layers = Layers;
Control.Zoom = Zoom;
Control.Scale = Scale;
Control.Attribution = Attribution;

control.layers = layers;
control.zoom = zoom;
control.scale = scale;
control.attribution = attribution;

/*
	L.Handler is a base class for handler classes that are used internally to inject
	interaction features like dragging to classes like Map and Marker.
*/

// @class Handler
// @aka L.Handler
// Abstract class for map interaction handlers

var Handler = Class.extend({
	initialize: function (map) {
	this._map = map;
	},

	// @method enable(): this
	// Enables the handler
	enable: function () {
	if (this._enabled) { return this; }

	this._enabled = true;
	this.addHooks();
	return this;
	},

	// @method disable(): this
	// Disables the handler
	disable: function () {
	if (!this._enabled) { return this; }

	this._enabled = false;
	this.removeHooks();
	return this;
	},

	// @method enabled(): Boolean
```

```
	// Returns `true` if the handler is enabled
	enabled: function () {
	return !!this._enabled;
	}

	// @section Extension methods
	// Classes inheriting from `Handler` must implement the two following methods:
	// @method addHooks()
	// Called when the handler is enabled, should add event hooks.
	// @method removeHooks()
	// Called when the handler is disabled, should remove the event hooks added previously.
});

// @section There is static function which can be called without instantiating L.Handler:
// @function addTo(map: Map, name: String): this
// Adds a new Handler to the given map with the given name.
Handler.addTo = function (map, name) {
	map.addHandler(name, this);
	return this;
};

var Mixin = {Events: Events};

/*
 * @class Draggable
 * @aka L.Draggable
 * @inherits Evented
 *
 * A class for making DOM elements draggable (including touch support).
 * Used internally for map and marker dragging. Only works for elements
 * that were positioned with [`L.DomUtil.setPosition`](#domutil-setposition).
 *
 * @example
 * ```js
 * var draggable = new L.Draggable(elementToDrag);
 * draggable.enable();
 * ```
 */

var START = touch ? 'touchstart mousedown' : 'mousedown';
var END = {
	mousedown: 'mouseup',
	touchstart: 'touchend',
	pointerdown: 'touchend',
	MSPointerDown: 'touchend'
};
```

```
var MOVE = {
	mousedown: 'mousemove',
	touchstart: 'touchmove',
	pointerdown: 'touchmove',
	MSPointerDown: 'touchmove'
};


var Draggable = Evented.extend({

	options: {
	// @section
	// @aka Draggable options
	// @option clickTolerance: Number = 3
	// The max number of pixels a user can shift the mouse pointer during a click
	// for it to be considered a valid click (as opposed to a mouse drag).
	clickTolerance: 3
	},

	// @constructor L.Draggable(el: HTMLElement, dragHandle?: HTMLElement,
	preventOutline?: Boolean, options?: Draggable options)
	// Creates a `Draggable` object for moving `el` when you start dragging the `dragHandle`
	element (equals `el` itself by default).
	initialize: function (element, dragStartTarget, preventOutline$$1, options) {
	setOptions(this, options);

	this._element = element;
	this._dragStartTarget = dragStartTarget || element;
	this._preventOutline = preventOutline$$1;
	},

	// @method enable()
	// Enables the dragging ability
	enable: function () {
	if (this._enabled) { return; }

	on(this._dragStartTarget, START, this._onDown, this);

	this._enabled = true;
	},

	// @method disable()
	// Disables the dragging ability
	disable: function () {
	if (!this._enabled) { return; }
```

```
// If we're currently dragging this draggable,
// disabling it counts as first ending the drag.
if (Draggable._dragging === this) {
        this.finishDrag();
}

off(this._dragStartTarget, START, this._onDown, this);

this._enabled = false;
this._moved = false;
},

_onDown: function (e) {
// Ignore simulated events, since we handle both touch and
// mouse explicitly; otherwise we risk getting duplicates of
// touch events, see #4315.
// Also ignore the event if disabled; this happens in IE11
// under some circumstances, see #3666.
if (e._simulated || !this._enabled) { return; }

this._moved = false;

if (hasClass(this._element, 'leaflet-zoom-anim')) { return; }

if (Draggable._dragging || e.shiftKey || ((e.which !== 1) && (e.button !== 1)
&& !e.touches)) { return; }
Draggable._dragging = this;  // Prevent dragging multiple objects at once.

if (this._preventOutline) {
        preventOutline(this._element);
}

disableImageDrag();
disableTextSelection();

if (this._moving) { return; }

// @event down: Event
// Fired when a drag is about to start.
this.fire('down');

var first = e.touches ? e.touches[0] : e;

this._startPoint = new Point(first.clientX, first.clientY);

on(document, MOVE[e.type], this._onMove, this);
```

```
on(document, END[e.type], this._onUp, this);
},

_onMove: function (e) {
// Ignore simulated events, since we handle both touch and
// mouse explicitly; otherwise we risk getting duplicates of
// touch events, see #4315.
// Also ignore the event if disabled; this happens in IE11
// under some circumstances, see #3666.
if (e._simulated || !this._enabled) { return; }

if (e.touches && e.touches.length > 1) {
        this._moved = true;
        return;
}

var first = (e.touches && e.touches.length === 1 ? e.touches[0] : e),
   newPoint = new Point(first.clientX, first.clientY),
   offset = newPoint.subtract(this._startPoint);

if (!offset.x && !offset.y) { return; }
if (Math.abs(offset.x) + Math.abs(offset.y) < this.options.clickTolerance) { return; }

preventDefault(e);

if (!this._moved) {
        // @event dragstart: Event
        // Fired when a drag starts
        this.fire('dragstart');

        this._moved = true;
        this._startPos = getPosition(this._element).subtract(offset);

        addClass(document.body, 'leaflet-dragging');

        this._lastTarget = e.target || e.srcElement;
        // IE and Edge do not give the <use> element, so fetch it
        // if necessary
        if ((window.SVGElementInstance) && (this._lastTarget instanceof
SVGElementInstance)) {
                this._lastTarget = this._lastTarget.correspondingUseElement;
        }
        addClass(this._lastTarget, 'leaflet-drag-target');
}

this._newPos = this._startPos.add(offset);
```

```
this._moving = true;

cancelAnimFrame(this._animRequest);
this._lastEvent = e;
this._animRequest = requestAnimFrame(this._updatePosition, this, true);
},

_updatePosition: function () {
var e = {originalEvent: this._lastEvent};

// @event predrag: Event
// Fired continuously during dragging *before* each corresponding
// update of the element's position.
this.fire('predrag', e);
setPosition(this._element, this._newPos);

// @event drag: Event
// Fired continuously during dragging.
this.fire('drag', e);
},

_onUp: function (e) {
// Ignore simulated events, since we handle both touch and
// mouse explicitly; otherwise we risk getting duplicates of
// touch events, see #4315.
// Also ignore the event if disabled; this happens in IE11
// under some circumstances, see #3666.
if (e._simulated || !this._enabled) { return; }
this.finishDrag();
},

finishDrag: function () {
var this$1 = this;

removeClass(document.body, 'leaflet-dragging');

if (this._lastTarget) {
        removeClass(this._lastTarget, 'leaflet-drag-target');
        this._lastTarget = null;
}

for (var i in MOVE) {
        off(document, MOVE[i], this$1._onMove, this$1);
        off(document, END[i], this$1._onUp, this$1);
}
```

```
	enableImageDrag();
	enableTextSelection();

	if (this._moved && this._moving) {
		// ensure drag is not fired after dragend
		cancelAnimFrame(this._animRequest);

		// @event dragend: DragEndEvent
		// Fired when the drag ends.
		this.fire('dragend', {
			distance: this._newPos.distanceTo(this._startPos)
		});
	}

	this._moving = false;
	Draggable._dragging = false;
	}

});

/*
 * @namespace LineUtil
 *
 * Various utility functions for polyline points processing, used by Leaflet internally to make
	polylines lightning-fast.
 */

// Simplify polyline with vertex reduction and Douglas-Peucker simplification.
// Improves rendering performance dramatically by lessening the number of points to draw.

// @function simplify(points: Point[], tolerance: Number): Point[]
// Dramatically reduces the number of points in a polyline while retaining
// its shape and returns a new array of simplified points, using the
// [Douglas-Peucker algorithm](http://en.wikipedia.org/wiki/Douglas-Peucker_algorithm).
// Used for a huge performance boost when processing/displaying Leaflet polylines for
// each zoom level and also reducing visual noise. tolerance affects the amount of
// simplification (lesser value means higher quality but slower and with more points).
// Also released as a separated micro-library [Simplify.js](http://mourner.github.com/simplify-
	js/).
function simplify(points, tolerance) {
	if (!tolerance || !points.length) {
	return points.slice();
	}

	var sqTolerance = tolerance * tolerance;
```

```
            // stage 1: vertex reduction
            points = _reducePoints(points, sqTolerance);

            // stage 2: Douglas-Peucker simplification
            points = _simplifyDP(points, sqTolerance);

        return points;
}

// @function pointToSegmentDistance(p: Point, p1: Point, p2: Point): Number
// Returns the distance between point `p` and segment `p1` to `p2`.
function pointToSegmentDistance(p, p1, p2) {
        return Math.sqrt(_sqClosestPointOnSegment(p, p1, p2, true));
}

// @function closestPointOnSegment(p: Point, p1: Point, p2: Point): Number
// Returns the closest point from a point `p` on a segment `p1` to `p2`.
function closestPointOnSegment(p, p1, p2) {
        return _sqClosestPointOnSegment(p, p1, p2);
}

// Douglas-Peucker simplification, see http://en.wikipedia.org/wiki/Douglas-Peucker_algorithm
function _simplifyDP(points, sqTolerance) {

        var len = points.length,
            ArrayConstructor = typeof Uint8Array !== undefined + " ? Uint8Array : Array,
            markers = new ArrayConstructor(len);

            markers[0] = markers[len - 1] = 1;

        _simplifyDPStep(points, markers, sqTolerance, 0, len - 1);

        var i,
            newPoints = [];

        for (i = 0; i < len; i++) {
        if (markers[i]) {
                newPoints.push(points[i]);
        }
        }

        return newPoints;
}

function _simplifyDPStep(points, markers, sqTolerance, first, last) {
```

```
        var maxSqDist = 0,
        index, i, sqDist;

        for (i = first + 1; i <= last - 1; i++) {
        sqDist = _sqClosestPointOnSegment(points[i], points[first], points[last], true);

        if (sqDist > maxSqDist) {
                index = i;
                maxSqDist = sqDist;
        }
        }

        if (maxSqDist > sqTolerance) {
        markers[index] = 1;

        _simplifyDPStep(points, markers, sqTolerance, first, index);
        _simplifyDPStep(points, markers, sqTolerance, index, last);
        }
}

// reduce points that are too close to each other to a single point
function _reducePoints(points, sqTolerance) {
        var reducedPoints = [points[0]];

        for (var i = 1, prev = 0, len = points.length; i < len; i++) {
        if (_sqDist(points[i], points[prev]) > sqTolerance) {
                reducedPoints.push(points[i]);
                prev = i;
        }
        }
        if (prev < len - 1) {
        reducedPoints.push(points[len - 1]);
        }
        return reducedPoints;
}

var _lastCode;

// @function clipSegment(a: Point, b: Point, bounds: Bounds, useLastCode?: Boolean, round?:
        Boolean): Point[]|Boolean
// Clips the segment a to b by rectangular bounds with the
// [Cohen-Sutherland
        algorithm](https://en.wikipedia.org/wiki/Cohen%E2%80%93Sutherland_algorithm)
// (modifying the segment points directly!). Used by Leaflet to only show polyline
// points that are on the screen or near, increasing performance.
function clipSegment(a, b, bounds, useLastCode, round) {
```

```
        var codeA = useLastCode ? _lastCode : _getBitCode(a, bounds),
            codeB = _getBitCode(b, bounds),

            codeOut, p, newCode;

            // save 2nd code to avoid calculating it on the next segment
            _lastCode = codeB;

        while (true) {
        // if a,b is inside the clip window (trivial accept)
        if (!(codeA | codeB)) {
                return [a, b];
        }

        // if a,b is outside the clip window (trivial reject)
        if (codeA & codeB) {
                return false;
        }

        // other cases
        codeOut = codeA || codeB;
        p = _getEdgeIntersection(a, b, codeOut, bounds, round);
        newCode = _getBitCode(p, bounds);

        if (codeOut === codeA) {
                a = p;
                codeA = newCode;
        } else {
                b = p;
                codeB = newCode;
        }
        }
}

function _getEdgeIntersection(a, b, code, bounds, round) {
        var dx = b.x - a.x,
            dy = b.y - a.y,
            min = bounds.min,
            max = bounds.max,
            x, y;

        if (code & 8) { // top
        x = a.x + dx * (max.y - a.y) / dy;
        y = max.y;

        } else if (code & 4) { // bottom
```

```
        x = a.x + dx * (min.y - a.y) / dy;
        y = min.y;

        } else if (code & 2) { // right
        x = max.x;
        y = a.y + dy * (max.x - a.x) / dx;

        } else if (code & 1) { // left
        x = min.x;
        y = a.y + dy * (min.x - a.x) / dx;
        }

        return new Point(x, y, round);
}

function _getBitCode(p, bounds) {
        var code = 0;

        if (p.x < bounds.min.x) { // left
        code |= 1;
        } else if (p.x > bounds.max.x) { // right
        code |= 2;
        }

        if (p.y < bounds.min.y) { // bottom
        code |= 4;
        } else if (p.y > bounds.max.y) { // top
        code |= 8;
        }

        return code;
}

// square distance (to avoid unnecessary Math.sqrt calls)
function _sqDist(p1, p2) {
        var dx = p2.x - p1.x,
            dy = p2.y - p1.y;
        return dx * dx + dy * dy;
}

// return closest point on segment or distance to that point
function _sqClosestPointOnSegment(p, p1, p2, sqDist) {
        var x = p1.x,
            y = p1.y,
            dx = p2.x - x,
            dy = p2.y - y,
```

```
            dot = dx * dx + dy * dy,
            t;

        if (dot > 0) {
        t = ((p.x - x) * dx + (p.y - y) * dy) / dot;

        if (t > 1) {
                x = p2.x;
                y = p2.y;
        } else if (t > 0) {
                x += dx * t;
                y += dy * t;
        }
        }

        dx = p.x - x;
        dy = p.y - y;

        return sqDist ? dx * dx + dy * dy : new Point(x, y);
}


// @function isFlat(latlngs: LatLng[]): Boolean
// Returns true if `latlngs` is a flat array, false is nested.
function isFlat(latlngs) {
        return !isArray(latlngs[0]) || (typeof latlngs[0][0] !== 'object' && typeof latlngs[0][0] !==
        'undefined');
}

function _flat(latlngs) {
        console.warn('Deprecated use of _flat, please use L.LineUtil.isFlat instead.');
        return isFlat(latlngs);
}


var LineUtil = (Object.freeze || Object)({
        simplify: simplify,
        pointToSegmentDistance: pointToSegmentDistance,
        closestPointOnSegment: closestPointOnSegment,
        clipSegment: clipSegment,
        _getEdgeIntersection: _getEdgeIntersection,
        _getBitCode: _getBitCode,
        _sqClosestPointOnSegment: _sqClosestPointOnSegment,
        isFlat: isFlat,
        _flat: _flat
});
```

```
/*
 * @namespace PolyUtil
 * Various utility functions for polygon geometries.
 */

/* @function clipPolygon(points: Point[], bounds: Bounds, round?: Boolean): Point[]
 * Clips the polygon geometry defined by the given `points` by the given bounds (using the
        [Sutherland-Hodgman
        algorithm](https://en.wikipedia.org/wiki/Sutherland%E2%80%93Hodgman_algorithm)).
 * Used by Leaflet to only show polygon points that are on the screen or near, increasing
 * performance. Note that polygon points needs different algorithm for clipping
 * than polyline, so there's a separate method for it.
 */
function clipPolygon(points, bounds, round) {
        var clippedPoints,
            edges = [1, 4, 2, 8],
            i, j, k,
            a, b,
            len, edge, p;

        for (i = 0, len = points.length; i < len; i++) {
        points[i]._code = _getBitCode(points[i], bounds);
        }

        // for each edge (left, bottom, right, top)
        for (k = 0; k < 4; k++) {
        edge = edges[k];
        clippedPoints = [];

        for (i = 0, len = points.length, j = len - 1; i < len; j = i++) {
                a = points[i];
                b = points[j];

                // if a is inside the clip window
                if (!(a._code & edge)) {
                        // if b is outside the clip window (a->b goes out of screen)
                        if (b._code & edge) {
                                p = _getEdgeIntersection(b, a, edge, bounds, round);
                                p._code = _getBitCode(p, bounds);
                                clippedPoints.push(p);
                        }
                        clippedPoints.push(a);

                // else if b is inside the clip window (a->b enters the screen)
                } else if (!(b._code & edge)) {
```

```
                        p = _getEdgeIntersection(b, a, edge, bounds, round);
                        p._code = _getBitCode(p, bounds);
                        clippedPoints.push(p);
                }
        }
        points = clippedPoints;
        }

        return points;
}


var PolyUtil = (Object.freeze || Object)({
        clipPolygon: clipPolygon
});

/*
 * @namespace Projection
 * @section
 * Leaflet comes with a set of already defined Projections out of the box:
 *
 * @projection L.Projection.LonLat
 *
 * Equirectangular, or Plate Carree projection — the most simple projection,
 * mostly used by GIS enthusiasts. Directly maps `x` as longitude, and `y` as
 * latitude. Also suitable for flat worlds, e.g. game maps. Used by the
 * `EPSG:4326` and `Simple` CRS.
 */

var LonLat = {
        project: function (latlng) {
        return new Point(latlng.lng, latlng.lat);
        },

        unproject: function (point) {
        return new LatLng(point.y, point.x);
        },

        bounds: new Bounds([-180, -90], [180, 90])
};

/*
 * @namespace Projection
 * @projection L.Projection.Mercator
 *
```

```
 * Elliptical Mercator projection — more complex than Spherical Mercator. Takes into account
        that Earth is a geoid, not a perfect sphere. Used by the EPSG:3395 CRS.
 */

var Mercator = {
        R: 6378137,
        R_MINOR: 6356752.314245179,

        bounds: new Bounds([-20037508.34279, -15496570.73972], [20037508.34279,
        18764656.23138]),

        project: function (latlng) {
        var d = Math.PI / 180,
           r = this.R,
           y = latlng.lat * d,
           tmp = this.R_MINOR / r,
           e = Math.sqrt(1 - tmp * tmp),
           con = e * Math.sin(y);

        var ts = Math.tan(Math.PI / 4 - y / 2) / Math.pow((1 - con) / (1 + con), e / 2);
        y = -r * Math.log(Math.max(ts, 1E-10));

        return new Point(latlng.lng * d * r, y);
        },

        unproject: function (point) {
        var d = 180 / Math.PI,
           r = this.R,
           tmp = this.R_MINOR / r,
           e = Math.sqrt(1 - tmp * tmp),
           ts = Math.exp(-point.y / r),
           phi = Math.PI / 2 - 2 * Math.atan(ts);

        for (var i = 0, dphi = 0.1, con; i < 15 && Math.abs(dphi) > 1e-7; i++) {
                con = e * Math.sin(phi);
                con = Math.pow((1 - con) / (1 + con), e / 2);
                dphi = Math.PI / 2 - 2 * Math.atan(ts * con) - phi;
                phi += dphi;
        }

        return new LatLng(phi * d, point.x * d / r);
        }
};

/*
 * @class Projection
```

```
 * An object with methods for projecting geographical coordinates of the world onto
 * a flat surface (and back). See [Map projection](http://en.wikipedia.org/wiki/Map_projection).

 * @property bounds: Bounds
 * The bounds (specified in CRS units) where the projection is valid

 * @method project(latlng: LatLng): Point
 * Projects geographical coordinates into a 2D point.
 * Only accepts actual `L.LatLng` instances, not arrays.

 * @method unproject(point: Point): LatLng
 * The inverse of `project`. Projects a 2D point into a geographical location.
 * Only accepts actual `L.Point` instances, not arrays.

 * Note that the projection instances do not inherit from Leafet's `Class` object,
 * and can't be instantiated. Also, new classes can't inherit from them,
 * and methods can't be added to them with the `include` function.

 */



var index = (Object.freeze || Object)({
	LonLat: LonLat,
	Mercator: Mercator,
	SphericalMercator: SphericalMercator
});

/*
 * @namespace CRS
 * @crs L.CRS.EPSG3395
 *
 * Rarely used by some commercial tile providers. Uses Elliptical Mercator projection.
 */
var EPSG3395 = extend({}, Earth, {
	code: 'EPSG:3395',
	projection: Mercator,

	transformation: (function () {
	var scale = 0.5 / (Math.PI * Mercator.R);
	return toTransformation(scale, 0.5, -scale, 0.5);
	}())
});
```

```
/*
 * @namespace CRS
 * @crs L.CRS.EPSG4326
 *
 * A common CRS among GIS enthusiasts. Uses simple Equirectangular projection.
 *
 * Leaflet 1.0.x complies with the [TMS coordinate scheme for
        EPSG:4326](https://wiki.osgeo.org/wiki/Tile_Map_Service_Specification#global-
        geodetic),
 * which is a breaking change from 0.7.x behaviour.  If you are using a `TileLayer`
 * with this CRS, ensure that there are two 256x256 pixel tiles covering the
 * whole earth at zoom level zero, and that the tile coordinate origin is (-180,+90),
 * or (-180,-90) for `TileLayer`s with [the `tms` option](#tilelayer-tms) set.
 */

var EPSG4326 = extend({}, Earth, {
        code: 'EPSG:4326',
        projection: LonLat,
        transformation: toTransformation(1 / 180, 1, -1 / 180, 0.5)
});

/*
 * @namespace CRS
 * @crs L.CRS.Simple
 *
 * A simple CRS that maps longitude and latitude into `x` and `y` directly.
 * May be used for maps of flat surfaces (e.g. game maps). Note that the `y`
 * axis should still be inverted (going from bottom to top). `distance()` returns
 * simple euclidean distance.
 */

var Simple = extend({}, CRS, {
        projection: LonLat,
        transformation: toTransformation(1, 0, -1, 0),

        scale: function (zoom) {
        return Math.pow(2, zoom);
        },

        zoom: function (scale) {
        return Math.log(scale) / Math.LN2;
        },

        distance: function (latlng1, latlng2) {
        var dx = latlng2.lng - latlng1.lng,
           dy = latlng2.lat - latlng1.lat;
```

```
		return Math.sqrt(dx * dx + dy * dy);
		},

		infinite: true
});

CRS.Earth = Earth;
CRS.EPSG3395 = EPSG3395;
CRS.EPSG3857 = EPSG3857;
CRS.EPSG900913 = EPSG900913;
CRS.EPSG4326 = EPSG4326;
CRS.Simple = Simple;

/*
 * @class Layer
 * @inherits Evented
 * @aka L.Layer
 * @aka ILayer
 *
 * A set of methods from the Layer base class that all Leaflet layers use.
 * Inherits all methods, options and events from `L.Evented`.
 *
 * @example
 *
 * ```js
 * var layer = L.Marker(latlng).addTo(map);
 * layer.addTo(map);
 * layer.remove();
 * ```
 *
 * @event add: Event
 * Fired after the layer is added to a map
 *
 * @event remove: Event
 * Fired after the layer is removed from a map
 */


var Layer = Evented.extend({

		// Classes extending `L.Layer` will inherit the following options:
		options: {
		// @option pane: String = 'overlayPane'
		// By default the layer will be added to the map's [overlay pane](#map-overlaypane).
		Overriding this option will cause the layer to be placed on another pane by default.
```

```
pane: 'overlayPane',

// @option attribution: String = null
// String to be shown in the attribution control, describes the layer data, e.g. "© Mapbox".
attribution: null,

bubblingMouseEvents: true
},

/* @section
 * Classes extending `L.Layer` will inherit the following methods:
 *
 * @method addTo(map: Map|LayerGroup): this
 * Adds the layer to the given map or layer group.
 */
addTo: function (map) {
map.addLayer(this);
return this;
},

// @method remove: this
// Removes the layer from the map it is currently active on.
remove: function () {
return this.removeFrom(this._map || this._mapToAdd);
},

// @method removeFrom(map: Map): this
// Removes the layer from the given map
removeFrom: function (obj) {
if (obj) {
        obj.removeLayer(this);
}
return this;
},

// @method getPane(name? : String): HTMLElement
// Returns the `HTMLElement` representing the named pane on the map. If `name` is
omitted, returns the pane for this layer.
getPane: function (name) {
return this._map.getPane(name ? (this.options[name] || name) : this.options.pane);
},

addInteractiveTarget: function (targetEl) {
this._map._targets[stamp(targetEl)] = this;
return this;
},
```

```
	removeInteractiveTarget: function (targetEl) {
	delete this._map._targets[stamp(targetEl)];
	return this;
	},

	// @method getAttribution: String
	// Used by the `attribution control`, returns the [attribution option](#gridlayer-attribution).
	getAttribution: function () {
	return this.options.attribution;
	},

	_layerAdd: function (e) {
	var map = e.target;

	// check in case layer gets added and then removed before the map is ready
	if (!map.hasLayer(this)) { return; }

	this._map = map;
	this._zoomAnimated = map._zoomAnimated;

	if (this.getEvents) {
		var events = this.getEvents();
		map.on(events, this);
		this.once('remove', function () {
			map.off(events, this);
		}, this);
	}

	this.onAdd(map);

	if (this.getAttribution && map.attributionControl) {
		map.attributionControl.addAttribution(this.getAttribution());
	}

	this.fire('add');
	map.fire('layeradd', {layer: this});
	}
});

/* @section Extension methods
 * @uninheritable
 *
 * Every layer should extend from `L.Layer` and (re-)implement the following methods.
 *
 * @method onAdd(map: Map): this
```

```
 * Should contain code that creates DOM elements for the layer, adds them to `map panes` where
        they should belong and puts listeners on relevant map events. Called on
        [`map.addLayer(layer)`](#map-addlayer).
 *
 * @method onRemove(map: Map): this
 * Should contain all clean up code that removes the layer's elements from the DOM and
        removes listeners previously added in [`onAdd`](#layer-onadd). Called on
        [`map.removeLayer(layer)`](#map-removelayer).
 *
 * @method getEvents(): Object
 * This optional method should return an object like `{ viewreset: this._reset }` for
        [`addEventListener`](#evented-addeventlistener). The event handlers in this object will
        be automatically added and removed from the map with your layer.
 *
 * @method getAttribution(): String
 * This optional method should return a string containing HTML to be shown on the `Attribution
        control` whenever the layer is visible.
 *
 * @method beforeAdd(map: Map): this
 * Optional method. Called on [`map.addLayer(layer)`](#map-addlayer), before the layer is
        added to the map, before events are initialized, without waiting until the map is in a
        usable state. Use for early initialization only.
 */


/* @namespace Map
 * @section Layer events
 *
 * @event layeradd: LayerEvent
 * Fired when a new layer is added to the map.
 *
 * @event layerremove: LayerEvent
 * Fired when some layer is removed from the map
 *
 * @section Methods for Layers and Controls
 */
Map.include({
        // @method addLayer(layer: Layer): this
        // Adds the given layer to the map
        addLayer: function (layer) {
        if (!layer._layerAdd) {
                throw new Error('The provided object is not a Layer.');
        }

        var id = stamp(layer);
        if (this._layers[id]) { return this; }
```

```
this._layers[id] = layer;

layer._mapToAdd = this;

if (layer.beforeAdd) {
	layer.beforeAdd(this);
}

this.whenReady(layer._layerAdd, layer);

return this;
},

// @method removeLayer(layer: Layer): this
// Removes the given layer from the map.
removeLayer: function (layer) {
var id = stamp(layer);

if (!this._layers[id]) { return this; }

if (this._loaded) {
	layer.onRemove(this);
}

if (layer.getAttribution && this.attributionControl) {
	this.attributionControl.removeAttribution(layer.getAttribution());
}

delete this._layers[id];

if (this._loaded) {
	this.fire('layerremove', {layer: layer});
	layer.fire('remove');
}

layer._map = layer._mapToAdd = null;

return this;
},

// @method hasLayer(layer: Layer): Boolean
// Returns `true` if the given layer is currently added to the map
hasLayer: function (layer) {
return !!layer && (stamp(layer) in this._layers);
},
```

```
/* @method eachLayer(fn: Function, context?: Object): this
 * Iterates over the layers of the map, optionally specifying context of the iterator function.
 * ```
 * map.eachLayer(function(layer){
 *     layer.bindPopup('Hello');
 * });
 * ```
 */
eachLayer: function (method, context) {
var this$1 = this;

for (var i in this$1._layers) {
        method.call(context, this$1._layers[i]);
}
return this;
},

_addLayers: function (layers) {
var this$1 = this;

layers = layers ? (isArray(layers) ? layers : [layers]) : [];

for (var i = 0, len = layers.length; i < len; i++) {
        this$1.addLayer(layers[i]);
}
},

_addZoomLimit: function (layer) {
if (isNaN(layer.options.maxZoom) || !isNaN(layer.options.minZoom)) {
        this._zoomBoundLayers[stamp(layer)] = layer;
        this._updateZoomLevels();
}
},

_removeZoomLimit: function (layer) {
var id = stamp(layer);

if (this._zoomBoundLayers[id]) {
        delete this._zoomBoundLayers[id];
        this._updateZoomLevels();
}
},

_updateZoomLevels: function () {
var this$1 = this;
```

```
		var minZoom = Infinity,
		    maxZoom = -Infinity,
		    oldZoomSpan = this._getZoomSpan();

		for (var i in this$1._zoomBoundLayers) {
			var options = this$1._zoomBoundLayers[i].options;

			minZoom = options.minZoom === undefined ? minZoom : Math.min(minZoom,
		options.minZoom);
			maxZoom = options.maxZoom === undefined ? maxZoom :
		Math.max(maxZoom, options.maxZoom);
		}

		this._layersMaxZoom = maxZoom === -Infinity ? undefined : maxZoom;
		this._layersMinZoom = minZoom === Infinity ? undefined : minZoom;

		// @section Map state change events
		// @event zoomlevelschange: Event
		// Fired when the number of zoomlevels on the map is changed due
		// to adding or removing a layer.
		if (oldZoomSpan !== this._getZoomSpan()) {
			this.fire('zoomlevelschange');
		}

		if (this.options.maxZoom === undefined && this._layersMaxZoom &&
		this.getZoom() > this._layersMaxZoom) {
			this.setZoom(this._layersMaxZoom);
		}
		if (this.options.minZoom === undefined && this._layersMinZoom && this.getZoom() <
		this._layersMinZoom) {
			this.setZoom(this._layersMinZoom);
		}
		}
});

/*
 * @class LayerGroup
 * @aka L.LayerGroup
 * @inherits Layer
 *
 * Used to group several layers and handle them as one. If you add it to the map,
 * any layers added or removed from the group will be added/removed on the map as
 * well. Extends `Layer`.
 *
 * @example
```

```
 *
 * ```js
 * L.layerGroup([marker1, marker2])
 *      .addLayer(polyline)
 *      .addTo(map);
 * ```
 */

var LayerGroup = Layer.extend({

        initialize: function (layers, options) {
        var this$1 = this;

        setOptions(this, options);

        this._layers = {};

        var i, len;

        if (layers) {
                for (i = 0, len = layers.length; i < len; i++) {
                        this$1.addLayer(layers[i]);
                }
        }
        },

        // @method addLayer(layer: Layer): this
        // Adds the given layer to the group.
        addLayer: function (layer) {
        var id = this.getLayerId(layer);

        this._layers[id] = layer;

        if (this._map) {
                this._map.addLayer(layer);
        }

        return this;
        },

        // @method removeLayer(layer: Layer): this
        // Removes the given layer from the group.
        // @alternative
        // @method removeLayer(id: Number): this
        // Removes the layer with the given internal ID from the group.
        removeLayer: function (layer) {
```

```
var id = layer in this._layers ? layer : this.getLayerId(layer);

if (this._map && this._layers[id]) {
	this._map.removeLayer(this._layers[id]);
}

delete this._layers[id];

return this;
},

// @method hasLayer(layer: Layer): Boolean
// Returns `true` if the given layer is currently added to the group.
// @alternative
// @method hasLayer(id: Number): Boolean
// Returns `true` if the given internal ID is currently added to the group.
hasLayer: function (layer) {
return !!layer && (layer in this._layers || this.getLayerId(layer) in this._layers);
},

// @method clearLayers(): this
// Removes all the layers from the group.
clearLayers: function () {
return this.eachLayer(this.removeLayer, this);
},

// @method invoke(methodName: String, …): this
// Calls `methodName` on every layer contained in this group, passing any
// additional parameters. Has no effect if the layers contained do not
// implement `methodName`.
invoke: function (methodName) {
var this$1 = this;

var args = Array.prototype.slice.call(arguments, 1),
   i, layer;

for (i in this$1._layers) {
	layer = this$1._layers[i];

	if (layer[methodName]) {
		layer[methodName].apply(layer, args);
	}
}

return this;
},
```

```
onAdd: function (map) {
this.eachLayer(map.addLayer, map);
},

onRemove: function (map) {
this.eachLayer(map.removeLayer, map);
},

// @method eachLayer(fn: Function, context?: Object): this
// Iterates over the layers of the group, optionally specifying context of the iterator function.
// ```js
// group.eachLayer(function (layer) {
//         layer.bindPopup('Hello');
// });
// ```
eachLayer: function (method, context) {
var this$1 = this;

for (var i in this$1._layers) {
        method.call(context, this$1._layers[i]);
}
return this;
},

// @method getLayer(id: Number): Layer
// Returns the layer with the given internal ID.
getLayer: function (id) {
return this._layers[id];
},

// @method getLayers(): Layer[]
// Returns an array of all the layers added to the group.
getLayers: function () {
var layers = [];
this.eachLayer(layers.push, layers);
return layers;
},

// @method setZIndex(zIndex: Number): this
// Calls `setZIndex` on every layer contained in this group, passing the z-index.
setZIndex: function (zIndex) {
return this.invoke('setZIndex', zIndex);
},
```

```
	// @method getLayerId(layer: Layer): Number
	// Returns the internal ID for a layer
	getLayerId: function (layer) {
	return stamp(layer);
	}
});


// @factory L.layerGroup(layers?: Layer[], options?: Object)
// Create a layer group, optionally given an initial set of layers and an `options` object.
var layerGroup = function (layers, options) {
	return new LayerGroup(layers, options);
};

/*
 * @class FeatureGroup
 * @aka L.FeatureGroup
 * @inherits LayerGroup
 *
 * Extended `LayerGroup` that makes it easier to do the same thing to all its member layers:
 *  * [`bindPopup`](#layer-bindpopup) binds a popup to all of the layers at once (likewise with
 	[`bindTooltip`](#layer-bindtooltip))
 *  * Events are propagated to the `FeatureGroup`, so if the group has an event
 * handler, it will handle events from any of the layers. This includes mouse events
 * and custom events.
 *  * Has `layeradd` and `layerremove` events
 *
 * @example
 *
 * ```js
 * L.featureGroup([marker1, marker2, polyline])
 *	.bindPopup('Hello world!')
 *	.on('click', function() { alert('Clicked on a member of the group!'); })
 *	.addTo(map);
 * ```
 */

var FeatureGroup = LayerGroup.extend({

	addLayer: function (layer) {
	if (this.hasLayer(layer)) {
		return this;
	}

	layer.addEventParent(this);
```

```
LayerGroup.prototype.addLayer.call(this, layer);

// @event layeradd: LayerEvent
// Fired when a layer is added to this `FeatureGroup`
return this.fire('layeradd', {layer: layer});
},

removeLayer: function (layer) {
if (!this.hasLayer(layer)) {
	return this;
}
if (layer in this._layers) {
	layer = this._layers[layer];
}

layer.removeEventParent(this);

LayerGroup.prototype.removeLayer.call(this, layer);

// @event layerremove: LayerEvent
// Fired when a layer is removed from this `FeatureGroup`
return this.fire('layerremove', {layer: layer});
},

// @method setStyle(style: Path options): this
// Sets the given path options to each layer of the group that has a `setStyle` method.
setStyle: function (style) {
return this.invoke('setStyle', style);
},

// @method bringToFront(): this
// Brings the layer group to the top of all other layers
bringToFront: function () {
return this.invoke('bringToFront');
},

// @method bringToBack(): this
// Brings the layer group to the back of all other layers
bringToBack: function () {
return this.invoke('bringToBack');
},

// @method getBounds(): LatLngBounds
// Returns the LatLngBounds of the Feature Group (created from bounds and coordinates
of its children).
getBounds: function () {
```

```
        var this$1 = this;

        var bounds = new LatLngBounds();

        for (var id in this$1._layers) {
                var layer = this$1._layers[id];
                bounds.extend(layer.getBounds ? layer.getBounds() : layer.getLatLng());
        }
        return bounds;
        }
});

// @factory L.featureGroup(layers: Layer[])
// Create a feature group, optionally given an initial set of layers.
var featureGroup = function (layers) {
        return new FeatureGroup(layers);
};

/*
 * @class Icon
 * @aka L.Icon
 *
 * Represents an icon to provide when creating a marker.
 *
 * @example
 *
 * ```js
 * var myIcon = L.icon({
 *     iconUrl: 'my-icon.png',
 *     iconRetinaUrl: 'my-icon@2x.png',
 *     iconSize: [38, 95],
 *     iconAnchor: [22, 94],
 *     popupAnchor: [-3, -76],
 *     shadowUrl: 'my-icon-shadow.png',
 *     shadowRetinaUrl: 'my-icon-shadow@2x.png',
 *     shadowSize: [68, 95],
 *     shadowAnchor: [22, 94]
 * });
 *
 * L.marker([50.505, 30.57], {icon: myIcon}).addTo(map);
 * ```
 *
 * `L.Icon.Default` extends `L.Icon` and is the blue icon Leaflet uses for markers by default.
 *
 */
```

```
var Icon = Class.extend({

	/* @section
	 * @aka Icon options
	 *
	 * @option iconUrl: String = null
	 * **(required)** The URL to the icon image (absolute or relative to your script path).
	 *
	 * @option iconRetinaUrl: String = null
	 * The URL to a retina sized version of the icon image (absolute or relative to your
	 * script path). Used for Retina screen devices.
	 *
	 * @option iconSize: Point = null
	 * Size of the icon image in pixels.
	 *
	 * @option iconAnchor: Point = null
	 * The coordinates of the "tip" of the icon (relative to its top left corner). The icon
	 * will be aligned so that this point is at the marker's geographical location. Centered
	 * by default if size is specified, also can be set in CSS with negative margins.
	 *
	 * @option popupAnchor: Point = [0, 0]
	 * The coordinates of the point from which popups will "open", relative to the icon
	anchor.
	 *
	 * @option tooltipAnchor: Point = [0, 0]
	 * The coordinates of the point from which tooltips will "open", relative to the icon
	anchor.
	 *
	 * @option shadowUrl: String = null
	 * The URL to the icon shadow image. If not specified, no shadow image will be created.
	 *
	 * @option shadowRetinaUrl: String = null
	 *
	 * @option shadowSize: Point = null
	 * Size of the shadow image in pixels.
	 *
	 * @option shadowAnchor: Point = null
	 * The coordinates of the "tip" of the shadow (relative to its top left corner) (the same
	 * as iconAnchor if not specified).
	 *
	 * @option className: String = ''
	 * A custom class name to assign to both icon and shadow images. Empty by default.
	 */

	options: {
	popupAnchor: [0, 0],
```

```
tooltipAnchor: [0, 0],
},

initialize: function (options) {
setOptions(this, options);
},

// @method createIcon(oldIcon?: HTMLElement): HTMLElement
// Called internally when the icon has to be shown, returns a `<img>` HTML element
// styled according to the options.
createIcon: function (oldIcon) {
return this._createIcon('icon', oldIcon);
},

// @method createShadow(oldIcon?: HTMLElement): HTMLElement
// As `createIcon`, but for the shadow beneath it.
createShadow: function (oldIcon) {
return this._createIcon('shadow', oldIcon);
},

_createIcon: function (name, oldIcon) {
var src = this._getIconUrl(name);

if (!src) {
	if (name === 'icon') {
		throw new Error('iconUrl not set in Icon options (see the docs).');
	}
	return null;
}

var img = this._createImg(src, oldIcon && oldIcon.tagName === 'IMG' ? oldIcon : null);
this._setIconStyles(img, name);

return img;
},

_setIconStyles: function (img, name) {
var options = this.options;
var sizeOption = options[name + 'Size'];

if (typeof sizeOption === 'number') {
	sizeOption = [sizeOption, sizeOption];
}

var size = toPoint(sizeOption),
```

```
            anchor = toPoint(name === 'shadow' && options.shadowAnchor || options.iconAnchor
        ||
                size && size.divideBy(2, true));

        img.className = 'leaflet-marker-' + name + ' ' + (options.className || '');

        if (anchor) {
                img.style.marginLeft = (-anchor.x) + 'px';
                img.style.marginTop  = (-anchor.y) + 'px';
        }

        if (size) {
                img.style.width  = size.x + 'px';
                img.style.height = size.y + 'px';
        }
        },

        _createImg: function (src, el) {
        el = el || document.createElement('img');
        el.src = src;
        return el;
        },

        _getIconUrl: function (name) {
        return retina && this.options[name + 'RetinaUrl'] || this.options[name + 'Url'];
        }
});


// @factory L.icon(options: Icon options)
// Creates an icon instance with the given options.
function icon(options) {
        return new Icon(options);
}

/*
 * @miniclass Icon.Default (Icon)
 * @aka L.Icon.Default
 * @section
 *
 * A trivial subclass of `Icon`, represents the icon to use in `Marker`s when
 * no icon is specified. Points to the blue marker image distributed with Leaflet
 * releases.
 *
 * In order to customize the default icon, just change the properties of
        `L.Icon.Default.prototype.options`
```

```
 * (which is a set of `Icon options`).
 *
 * If you want to _completely_ replace the default icon, override the
 * `L.Marker.prototype.options.icon` with your own icon instead.
 */

var IconDefault = Icon.extend({

	options: {
	iconUrl:       'marker-icon.png',
	iconRetinaUrl: 'marker-icon-2x.png',
	shadowUrl:     'marker-shadow.png',
	iconSize:    [25, 41],
	iconAnchor:  [12, 41],
	popupAnchor: [1, -34],
	tooltipAnchor: [16, -28],
	shadowSize:  [41, 41]
	},

	_getIconUrl: function (name) {
	if (!IconDefault.imagePath) { // Deprecated, backwards-compatibility only
		IconDefault.imagePath = this._detectIconPath();
	}

	// @option imagePath: String
	// `Icon.Default` will try to auto-detect the location of the
	// blue icon images. If you are placing these images in a non-standard
	// way, set this option to point to the right path.
	return (this.options.imagePath || IconDefault.imagePath) +
	Icon.prototype._getIconUrl.call(this, name);
	},

	_detectIconPath: function () {
	var el = create$1('div',  'leaflet-default-icon-path', document.body);
	var path = getStyle(el, 'background-image') ||
		getStyle(el, 'backgroundImage');	// IE8

	document.body.removeChild(el);

	if (path === null || path.indexOf('url') !== 0) {
		path = '';
	} else {
		path = path.replace(/^url\(["']?/, '').replace(/marker-icon\.png["']?\)$/, '');
	}

	return path;
```

```
	}
});

/*
 * L.Handler.MarkerDrag is used internally by L.Marker to make the markers draggable.
 */


/* @namespace Marker
 * @section Interaction handlers
 *
 * Interaction handlers are properties of a marker instance that allow you to control interaction
	behavior in runtime, enabling or disabling certain features such as dragging (see
	`Handler` methods). Example:
 *
 * ```js
 * marker.dragging.disable();
 * ```
 *
 * @property dragging: Handler
 * Marker dragging handler (by both mouse and touch). Only valid when the marker is on the
	map (Otherwise set [`marker.options.draggable`](#marker-draggable)).
 */

var MarkerDrag = Handler.extend({
	initialize: function (marker) {
	this._marker = marker;
	},

	addHooks: function () {
	var icon = this._marker._icon;

	if (!this._draggable) {
		this._draggable = new Draggable(icon, icon, true);
	}

	this._draggable.on({
		dragstart: this._onDragStart,
		predrag: this._onPreDrag,
		drag: this._onDrag,
		dragend: this._onDragEnd
	}, this).enable();

	addClass(icon, 'leaflet-marker-draggable');
	},
```

```
removeHooks: function () {
this._draggable.off({
        dragstart: this._onDragStart,
        predrag: this._onPreDrag,
        drag: this._onDrag,
        dragend: this._onDragEnd
}, this).disable();

if (this._marker._icon) {
        removeClass(this._marker._icon, 'leaflet-marker-draggable');
}
},

moved: function () {
return this._draggable && this._draggable._moved;
},

_adjustPan: function (e) {
var marker = this._marker,
   map = marker._map,
   speed = this._marker.options.autoPanSpeed,
   padding = this._marker.options.autoPanPadding,
   iconPos = L.DomUtil.getPosition(marker._icon),
   bounds = map.getPixelBounds(),
   origin = map.getPixelOrigin();

var panBounds = toBounds(
        bounds.min._subtract(origin).add(padding),
        bounds.max._subtract(origin).subtract(padding)
);

if (!panBounds.contains(iconPos)) {
        // Compute incremental movement
        var movement = toPoint(
                (Math.max(panBounds.max.x, iconPos.x) - panBounds.max.x) /
(bounds.max.x - panBounds.max.x) -
                (Math.min(panBounds.min.x, iconPos.x) - panBounds.min.x) /
(bounds.min.x - panBounds.min.x),

                (Math.max(panBounds.max.y, iconPos.y) - panBounds.max.y) /
(bounds.max.y - panBounds.max.y) -
                (Math.min(panBounds.min.y, iconPos.y) - panBounds.min.y) /
(bounds.min.y - panBounds.min.y)
        ).multiplyBy(speed);

        map.panBy(movement, {animate: false});
```

```
        this._draggable._newPos._add(movement);
        this._draggable._startPos._add(movement);

        L.DomUtil.setPosition(marker._icon, this._draggable._newPos);
        this._onDrag(e);

        this._panRequest = requestAnimFrame(this._adjustPan.bind(this, e));
}
},

_onDragStart: function () {
// @section Dragging events
// @event dragstart: Event
// Fired when the user starts dragging the marker.

// @event movestart: Event
// Fired when the marker starts moving (because of dragging).

this._oldLatLng = this._marker.getLatLng();
this._marker
   .closePopup()
   .fire('movestart')
   .fire('dragstart');
},

_onPreDrag: function (e) {
if (this._marker.options.autoPan) {
        cancelAnimFrame(this._panRequest);
        this._panRequest = requestAnimFrame(this._adjustPan.bind(this, e));
}
},

_onDrag: function (e) {
var marker = this._marker,
   shadow = marker._shadow,
iconPos = getPosition(marker._icon),
   latlng = marker._map.layerPointToLatLng(iconPos);

// update shadow position
if (shadow) {
        setPosition(shadow, iconPos);
}

marker._latlng = latlng;
e.latlng = latlng;
```

```
        e.oldLatLng = this._oldLatLng;

        // @event drag: Event
        // Fired repeatedly while the user drags the marker.
        marker
            .fire('move', e)
            .fire('drag', e);
        },

        _onDragEnd: function (e) {
        // @event dragend: DragEndEvent
        // Fired when the user stops dragging the marker.

         cancelAnimFrame(this._panRequest);

        // @event moveend: Event
        // Fired when the marker stops moving (because of dragging).
        delete this._oldLatLng;
        this._marker
            .fire('moveend')
            .fire('dragend', e);
        }
});

/*
 * @class Marker
 * @inherits Interactive layer
 * @aka L.Marker
 * L.Marker is used to display clickable/draggable icons on the map. Extends `Layer`.
 *
 * @example
 *
 * ```js
 * L.marker([50.5, 30.5]).addTo(map);
 * ```
 */

var Marker = Layer.extend({

        // @section
        // @aka Marker options
        options: {
        // @option icon: Icon = *
        // Icon instance to use for rendering the marker.
        // See [Icon documentation](#L.Icon) for details on how to customize the marker icon.
        // If not specified, a common instance of `L.Icon.Default` is used.
```

```
icon: new IconDefault(),

// Option inherited from "Interactive layer" abstract class
interactive: true,

// @option draggable: Boolean = false
// Whether the marker is draggable with mouse/touch or not.
draggable: false,

// @option autoPan: Boolean = false
// Set it to `true` if you want the map to do panning animation when marker hits the
edges.
autoPan: false,

// @option autoPanPadding: Point = Point(50, 50)
// Equivalent of setting both top left and bottom right autopan padding to the same value.
autoPanPadding: [50, 50],

// @option autoPanSpeed: Number = 10
// Number of pixels the map should move by.
autoPanSpeed: 10,

// @option keyboard: Boolean = true
// Whether the marker can be tabbed to with a keyboard and clicked by pressing enter.
keyboard: true,

// @option title: String = ''
// Text for the browser tooltip that appear on marker hover (no tooltip by default).
title: '',

// @option alt: String = ''
// Text for the `alt` attribute of the icon image (useful for accessibility).
alt: '',

// @option zIndexOffset: Number = 0
// By default, marker images zIndex is set automatically based on its latitude. Use this
option if you want to put the marker on top of all others (or below), specifying a high
value like `1000` (or high negative value, respectively).
zIndexOffset: 0,

// @option opacity: Number = 1.0
// The opacity of the marker.
opacity: 1,

// @option riseOnHover: Boolean = false
// If `true`, the marker will get on top of others when you hover the mouse over it.
```

```
riseOnHover: false,

// @option riseOffset: Number = 250
// The z-index offset used for the `riseOnHover` feature.
riseOffset: 250,

// @option pane: String = 'markerPane'
// `Map pane` where the markers icon will be added.
pane: 'markerPane',

// @option bubblingMouseEvents: Boolean = false
// When `true`, a mouse event on this marker will trigger the same event on the map
// (unless [`L.DomEvent.stopPropagation`](#domevent-stoppropagation) is used).
bubblingMouseEvents: false
},

/* @section
 *
 * In addition to [shared layer methods](#Layer) like `addTo()` and `remove()` and
[popup methods](#Popup) like bindPopup() you can also use the following methods:
 */

initialize: function (latlng, options) {
setOptions(this, options);
this._latlng = toLatLng(latlng);
},

onAdd: function (map) {
this._zoomAnimated = this._zoomAnimated && map.options.markerZoomAnimation;

if (this._zoomAnimated) {
        map.on('zoomanim', this._animateZoom, this);
}

this._initIcon();
this.update();
},

onRemove: function (map) {
if (this.dragging && this.dragging.enabled()) {
        this.options.draggable = true;
        this.dragging.removeHooks();
}
delete this.dragging;

if (this._zoomAnimated) {
```

```
		map.off('zoomanim', this._animateZoom, this);
}

this._removeIcon();
this._removeShadow();
},

getEvents: function () {
return {
		zoom: this.update,
		viewreset: this.update
};
},

// @method getLatLng: LatLng
// Returns the current geographical position of the marker.
getLatLng: function () {
return this._latlng;
},

// @method setLatLng(latlng: LatLng): this
// Changes the marker position to the given point.
setLatLng: function (latlng) {
var oldLatLng = this._latlng;
this._latlng = toLatLng(latlng);
this.update();

// @event move: Event
// Fired when the marker is moved via [`setLatLng`](#marker-setlatlng) or by
[dragging](#marker-dragging). Old and new coordinates are included in event arguments
as `oldLatLng`, `latlng`.
return this.fire('move', {oldLatLng: oldLatLng, latlng: this._latlng});
},

// @method setZIndexOffset(offset: Number): this
// Changes the [zIndex offset](#marker-zindexoffset) of the marker.
setZIndexOffset: function (offset) {
this.options.zIndexOffset = offset;
return this.update();
},

// @method setIcon(icon: Icon): this
// Changes the marker icon.
setIcon: function (icon) {

this.options.icon = icon;
```

```
if (this._map) {
	this._initIcon();
	this.update();
}

if (this._popup) {
	this.bindPopup(this._popup, this._popup.options);
}

return this;
},

getElement: function () {
return this._icon;
},

update: function () {

if (this._icon && this._map) {
	var pos = this._map.latLngToLayerPoint(this._latlng).round();
	this._setPos(pos);
}

return this;
},

_initIcon: function () {
var options = this.options,
   classToAdd = 'leaflet-zoom-' + (this._zoomAnimated ? 'animated' : 'hide');

var icon = options.icon.createIcon(this._icon),
   addIcon = false;

// if we're not reusing the icon, remove the old one and init new one
if (icon !== this._icon) {
	if (this._icon) {
		this._removeIcon();
	}
	addIcon = true;

	if (options.title) {
		icon.title = options.title;
	}

	if (icon.tagName === 'IMG') {
```

```
                icon.alt = options.alt || '';
        }
}

addClass(icon, classToAdd);

if (options.keyboard) {
        icon.tabIndex = '0';
}

this._icon = icon;

if (options.riseOnHover) {
        this.on({
                mouseover: this._bringToFront,
                mouseout: this._resetZIndex
        });
}

var newShadow = options.icon.createShadow(this._shadow),
   addShadow = false;

if (newShadow !== this._shadow) {
        this._removeShadow();
        addShadow = true;
}

if (newShadow) {
        addClass(newShadow, classToAdd);
        newShadow.alt = '';
}
this._shadow = newShadow;


if (options.opacity < 1) {
        this._updateOpacity();
}


if (addIcon) {
        this.getPane().appendChild(this._icon);
}
this._initInteraction();
if (newShadow && addShadow) {
        this.getPane('shadowPane').appendChild(this._shadow);
}
```

```
},

_removeIcon: function () {
if (this.options.riseOnHover) {
        this.off({
                mouseover: this._bringToFront,
                mouseout: this._resetZIndex
        });
}

remove(this._icon);
this.removeInteractiveTarget(this._icon);

this._icon = null;
},

_removeShadow: function () {
if (this._shadow) {
        remove(this._shadow);
}
this._shadow = null;
},

_setPos: function (pos) {
setPosition(this._icon, pos);

if (this._shadow) {
        setPosition(this._shadow, pos);
}

this._zIndex = pos.y + this.options.zIndexOffset;

this._resetZIndex();
},

_updateZIndex: function (offset) {
this._icon.style.zIndex = this._zIndex + offset;
},

_animateZoom: function (opt) {
var pos = this._map._latLngToNewLayerPoint(this._latlng, opt.zoom,
opt.center).round();

this._setPos(pos);
},
```

```
_initInteraction: function () {

if (!this.options.interactive) { return; }

addClass(this._icon, 'leaflet-interactive');

this.addInteractiveTarget(this._icon);

if (MarkerDrag) {
	var draggable = this.options.draggable;
	if (this.dragging) {
		draggable = this.dragging.enabled();
		this.dragging.disable();
	}

	this.dragging = new MarkerDrag(this);

	if (draggable) {
		this.dragging.enable();
	}
}
},

// @method setOpacity(opacity: Number): this
// Changes the opacity of the marker.
setOpacity: function (opacity) {
this.options.opacity = opacity;
if (this._map) {
	this._updateOpacity();
}

return this;
},

_updateOpacity: function () {
var opacity = this.options.opacity;

setOpacity(this._icon, opacity);

if (this._shadow) {
	setOpacity(this._shadow, opacity);
}
},

_bringToFront: function () {
this._updateZIndex(this.options.riseOffset);
```

```
	},

	_resetZIndex: function () {
	this._updateZIndex(0);
	},

	_getPopupAnchor: function () {
	return this.options.icon.options.popupAnchor;
	},

	_getTooltipAnchor: function () {
	return this.options.icon.options.tooltipAnchor;
	}
});


// factory L.marker(latlng: LatLng, options? : Marker options)

// @factory L.marker(latlng: LatLng, options? : Marker options)
// Instantiates a Marker object given a geographical point and optionally an options object.
function marker(latlng, options) {
	return new Marker(latlng, options);
}

/*
 * @class Path
 * @aka L.Path
 * @inherits Interactive layer
 *
 * An abstract class that contains options and constants shared between vector
 * overlays (Polygon, Polyline, Circle). Do not use it directly. Extends `Layer`.
 */

var Path = Layer.extend({

	// @section
	// @aka Path options
	options: {
	// @option stroke: Boolean = true
	// Whether to draw stroke along the path. Set it to `false` to disable borders on polygons
	or circles.
	stroke: true,

	// @option color: String = '#3388ff'
	// Stroke color
	color: '#3388ff',
```

```
// @option weight: Number = 3
// Stroke width in pixels
weight: 3,

// @option opacity: Number = 1.0
// Stroke opacity
opacity: 1,

// @option lineCap: String= 'round'
// A string that defines [shape to be used at the
end](https://developer.mozilla.org/docs/Web/SVG/Attribute/stroke-linecap) of the stroke.
lineCap: 'round',

// @option lineJoin: String = 'round'
// A string that defines [shape to be used at the
corners](https://developer.mozilla.org/docs/Web/SVG/Attribute/stroke-linejoin) of the
stroke.
lineJoin: 'round',

// @option dashArray: String = null
// A string that defines the stroke [dash
pattern](https://developer.mozilla.org/docs/Web/SVG/Attribute/stroke-dasharray).
Doesn't work on `Canvas`-powered layers in [some old
browsers](https://developer.mozilla.org/docs/Web/API/CanvasRenderingContext2D/setL
ineDash#Browser_compatibility).
dashArray: null,

// @option dashOffset: String = null
// A string that defines the [distance into the dash pattern to start the
dash](https://developer.mozilla.org/docs/Web/SVG/Attribute/stroke-dashoffset). Doesn't
work on `Canvas`-powered layers in [some old
browsers](https://developer.mozilla.org/docs/Web/API/CanvasRenderingContext2D/setL
ineDash#Browser_compatibility).
dashOffset: null,

// @option fill: Boolean = depends
// Whether to fill the path with color. Set it to `false` to disable filling on polygons or
circles.
fill: false,

// @option fillColor: String = *
// Fill color. Defaults to the value of the [`color`](#path-color) option
fillColor: null,

// @option fillOpacity: Number = 0.2
```

```
// Fill opacity.
fillOpacity: 0.2,

// @option fillRule: String = 'evenodd'
// A string that defines [how the inside of a
shape](https://developer.mozilla.org/docs/Web/SVG/Attribute/fill-rule) is determined.
fillRule: 'evenodd',

// className: '',

// Option inherited from "Interactive layer" abstract class
interactive: true,

// @option bubblingMouseEvents: Boolean = true
// When `true`, a mouse event on this path will trigger the same event on the map
// (unless [`L.DomEvent.stopPropagation`](#domevent-stoppropagation) is used).
bubblingMouseEvents: true
},

beforeAdd: function (map) {
// Renderer is set here because we need to call renderer.getEvents
// before this.getEvents.
this._renderer = map.getRenderer(this);
},

onAdd: function () {
this._renderer._initPath(this);
this._reset();
this._renderer._addPath(this);
},

onRemove: function () {
this._renderer._removePath(this);
},

// @method redraw(): this
// Redraws the layer. Sometimes useful after you changed the coordinates that the path
uses.
redraw: function () {
if (this._map) {
        this._renderer._updatePath(this);
}
return this;
},

// @method setStyle(style: Path options): this
```

```
	// Changes the appearance of a Path based on the options in the `Path options` object.
	setStyle: function (style) {
	setOptions(this, style);
	if (this._renderer) {
		this._renderer._updateStyle(this);
	}
	return this;
	},

	// @method bringToFront(): this
	// Brings the layer to the top of all path layers.
	bringToFront: function () {
	if (this._renderer) {
		this._renderer._bringToFront(this);
	}
	return this;
	},

	// @method bringToBack(): this
	// Brings the layer to the bottom of all path layers.
	bringToBack: function () {
	if (this._renderer) {
		this._renderer._bringToBack(this);
	}
	return this;
	},

	getElement: function () {
	return this._path;
	},

	_reset: function () {
	// defined in child classes
	this._project();
	this._update();
	},

	_clickTolerance: function () {
	// used when doing hit detection for Canvas layers
	return (this.options.stroke ? this.options.weight / 2 : 0) + this._renderer.options.tolerance;
	}
});

/*
 * @class CircleMarker
 * @aka L.CircleMarker
```

```
 * @inherits Path
 *
 * A circle of a fixed size with radius specified in pixels. Extends `Path`.
 */

var CircleMarker = Path.extend({

	// @section
	// @aka CircleMarker options
	options: {
	fill: true,

	// @option radius: Number = 10
	// Radius of the circle marker, in pixels
	radius: 10
	},

	initialize: function (latlng, options) {
	setOptions(this, options);
	this._latlng = toLatLng(latlng);
	this._radius = this.options.radius;
	},

	// @method setLatLng(latLng: LatLng): this
	// Sets the position of a circle marker to a new location.
	setLatLng: function (latlng) {
	this._latlng = toLatLng(latlng);
	this.redraw();
	return this.fire('move', {latlng: this._latlng});
	},

	// @method getLatLng(): LatLng
	// Returns the current geographical position of the circle marker
	getLatLng: function () {
	return this._latlng;
	},

	// @method setRadius(radius: Number): this
	// Sets the radius of a circle marker. Units are in pixels.
	setRadius: function (radius) {
	this.options.radius = this._radius = radius;
	return this.redraw();
	},

	// @method getRadius(): Number
	// Returns the current radius of the circle
```

```
	getRadius: function () {
	return this._radius;
	},

	setStyle : function (options) {
	var radius = options && options.radius || this._radius;
	Path.prototype.setStyle.call(this, options);
	this.setRadius(radius);
	return this;
	},

	_project: function () {
	this._point = this._map.latLngToLayerPoint(this._latlng);
	this._updateBounds();
	},

	_updateBounds: function () {
	var r = this._radius,
	    r2 = this._radiusY || r,
	    w = this._clickTolerance(),
	    p = [r + w, r2 + w];
	this._pxBounds = new Bounds(this._point.subtract(p), this._point.add(p));
	},

	_update: function () {
	if (this._map) {
		this._updatePath();
	}
	},

	_updatePath: function () {
	this._renderer._updateCircle(this);
	},

	_empty: function () {
	return this._radius && !this._renderer._bounds.intersects(this._pxBounds);
	},

	// Needed by the `Canvas` renderer for interactivity
	_containsPoint: function (p) {
	return p.distanceTo(this._point) <= this._radius + this._clickTolerance();
	}
});


// @factory L.circleMarker(latlng: LatLng, options?: CircleMarker options)
```

```
// Instantiates a circle marker object given a geographical point, and an optional options object.
function circleMarker(latlng, options) {
	return new CircleMarker(latlng, options);
}

/*
 * @class Circle
 * @aka L.Circle
 * @inherits CircleMarker
 *
 * A class for drawing circle overlays on a map. Extends `CircleMarker`.
 *
 * It's an approximation and starts to diverge from a real circle closer to poles (due to projection
	distortion).
 *
 * @example
 *
 * ```js
 * L.circle([50.5, 30.5], {radius: 200}).addTo(map);
 * ```
 */

var Circle = CircleMarker.extend({

	initialize: function (latlng, options, legacyOptions) {
	if (typeof options === 'number') {
		// Backwards compatibility with 0.7.x factory (latlng, radius, options?)
		options = extend({}, legacyOptions, {radius: options});
	}
	setOptions(this, options);
	this._latlng = toLatLng(latlng);

	if (isNaN(this.options.radius)) { throw new Error('Circle radius cannot be NaN'); }

	// @section
	// @aka Circle options
	// @option radius: Number; Radius of the circle, in meters.
	this._mRadius = this.options.radius;
	},

	// @method setRadius(radius: Number): this
	// Sets the radius of a circle. Units are in meters.
	setRadius: function (radius) {
	this._mRadius = radius;
	return this.redraw();
	},
```

```
// @method getRadius(): Number
// Returns the current radius of a circle. Units are in meters.
getRadius: function () {
return this._mRadius;
},

// @method getBounds(): LatLngBounds
// Returns the `LatLngBounds` of the path.
getBounds: function () {
var half = [this._radius, this._radiusY || this._radius];

return new LatLngBounds(
        this._map.layerPointToLatLng(this._point.subtract(half)),
        this._map.layerPointToLatLng(this._point.add(half)));
},

setStyle: Path.prototype.setStyle,

_project: function () {

var lng = this._latlng.lng,
   lat = this._latlng.lat,
   map = this._map,
   crs = map.options.crs;

if (crs.distance === Earth.distance) {
        var d = Math.PI / 180,
           latR = (this._mRadius / Earth.R) / d,
           top = map.project([lat + latR, lng]),
           bottom = map.project([lat - latR, lng]),
           p = top.add(bottom).divideBy(2),
           lat2 = map.unproject(p).lat,
           lngR = Math.acos((Math.cos(latR * d) - Math.sin(lat * d) * Math.sin(lat2 * d)) /
                (Math.cos(lat * d) * Math.cos(lat2 * d))) / d;

        if (isNaN(lngR) || lngR === 0) {
                lngR = latR / Math.cos(Math.PI / 180 * lat); // Fallback for edge case,
#2425
        }

        this._point = p.subtract(map.getPixelOrigin());
        this._radius = isNaN(lngR) ? 0 : p.x - map.project([lat2, lng - lngR]).x;
        this._radiusY = p.y - top.y;

} else {
```

```
                var latlng2 = crs.unproject(crs.project(this._latlng).subtract([this._mRadius, 0]));

                this._point = map.latLngToLayerPoint(this._latlng);
                this._radius = this._point.x - map.latLngToLayerPoint(latlng2).x;
        }

        this._updateBounds();
        }
});

// @factory L.circle(latlng: LatLng, options?: Circle options)
// Instantiates a circle object given a geographical point, and an options object
// which contains the circle radius.
// @alternative
// @factory L.circle(latlng: LatLng, radius: Number, options?: Circle options)
// Obsolete way of instantiating a circle, for compatibility with 0.7.x code.
// Do not use in new applications or plugins.
function circle(latlng, options, legacyOptions) {
        return new Circle(latlng, options, legacyOptions);
}

/*
 * @class Polyline
 * @aka L.Polyline
 * @inherits Path
 *
 * A class for drawing polyline overlays on a map. Extends `Path`.
 *
 * @example
 *
 * ```js
 * // create a red polyline from an array of LatLng points
 * var latlngs = [
 *      [45.51, -122.68],
 *      [37.77, -122.43],
 *      [34.04, -118.2]
 * ];
 *
 * var polyline = L.polyline(latlngs, {color: 'red'}).addTo(map);
 *
 * // zoom the map to the polyline
 * map.fitBounds(polyline.getBounds());
 * ```
 *
 * You can also pass a multi-dimensional array to represent a `MultiPolyline` shape:
 *
```

```
 * ```js
 * // create a red polyline from an array of arrays of LatLng points
 * var latlngs = [
 *        [[45.51, -122.68],
 *         [37.77, -122.43],
 *         [34.04, -118.2]],
 *        [[40.78, -73.91],
 *         [41.83, -87.62],
 *         [32.76, -96.72]]
 * ];
 * ```
 */


var Polyline = Path.extend({

        // @section
        // @aka Polyline options
        options: {
        // @option smoothFactor: Number = 1.0
        // How much to simplify the polyline on each zoom level. More means
        // better performance and smoother look, and less means more accurate representation.
        smoothFactor: 1.0,

        // @option noClip: Boolean = false
        // Disable polyline clipping.
        noClip: false
        },

        initialize: function (latlngs, options) {
        setOptions(this, options);
        this._setLatLngs(latlngs);
        },

        // @method getLatLngs(): LatLng[]
        // Returns an array of the points in the path, or nested arrays of points in case of multi-polyline.
        getLatLngs: function () {
        return this._latlngs;
        },

        // @method setLatLngs(latlngs: LatLng[]): this
        // Replaces all the points in the polyline with the given array of geographical points.
        setLatLngs: function (latlngs) {
        this._setLatLngs(latlngs);
        return this.redraw();
```

```
},

// @method isEmpty(): Boolean
// Returns `true` if the Polyline has no LatLngs.
isEmpty: function () {
return !this._latlngs.length;
},

// @method closestLayerPoint: Point
// Returns the point closest to `p` on the Polyline.
closestLayerPoint: function (p) {
var this$1 = this;

var minDistance = Infinity,
   minPoint = null,
   closest = _sqClosestPointOnSegment,
   p1, p2;

for (var j = 0, jLen = this._parts.length; j < jLen; j++) {
        var points = this$1._parts[j];

        for (var i = 1, len = points.length; i < len; i++) {
                p1 = points[i - 1];
                p2 = points[i];

                var sqDist = closest(p, p1, p2, true);

                if (sqDist < minDistance) {
                        minDistance = sqDist;
                        minPoint = closest(p, p1, p2);
                }
        }
}
if (minPoint) {
        minPoint.distance = Math.sqrt(minDistance);
}
return minPoint;
},

// @method getCenter(): LatLng
// Returns the center ([centroid](http://en.wikipedia.org/wiki/Centroid)) of the polyline.
getCenter: function () {
var this$1 = this;

// throws error when not yet added to map as this center calculation requires projected
coordinates
```

```
if (!this._map) {
	throw new Error('Must add layer to map before using getCenter()');
}

var i, halfDist, segDist, dist, p1, p2, ratio,
   points = this._rings[0],
   len = points.length;

if (!len) { return null; }

// polyline centroid algorithm; only uses the first ring if there are multiple

for (i = 0, halfDist = 0; i < len - 1; i++) {
	halfDist += points[i].distanceTo(points[i + 1]) / 2;
}

// The line is so small in the current view that all points are on the same pixel.
if (halfDist === 0) {
	return this._map.layerPointToLatLng(points[0]);
}

for (i = 0, dist = 0; i < len - 1; i++) {
	p1 = points[i];
	p2 = points[i + 1];
	segDist = p1.distanceTo(p2);
	dist += segDist;

	if (dist > halfDist) {
		ratio = (dist - halfDist) / segDist;
		return this$1._map.layerPointToLatLng([
			p2.x - ratio * (p2.x - p1.x),
			p2.y - ratio * (p2.y - p1.y)
		]);
	}
}
},

// @method getBounds(): LatLngBounds
// Returns the `LatLngBounds` of the path.
getBounds: function () {
return this._bounds;
},

// @method addLatLng(latlng: LatLng, latlngs? LatLng[]): this
// Adds a given point to the polyline. By default, adds to the first ring of
// the polyline in case of a multi-polyline, but can be overridden by passing
```

```
// a specific ring as a LatLng array (that you can earlier access with
[`getLatLngs`](#polyline-getlatlngs)).
addLatLng: function (latlng, latlngs) {
latlngs = latlngs || this._defaultShape();
latlng = toLatLng(latlng);
latlngs.push(latlng);
this._bounds.extend(latlng);
return this.redraw();
},

_setLatLngs: function (latlngs) {
this._bounds = new LatLngBounds();
this._latlngs = this._convertLatLngs(latlngs);
},

_defaultShape: function () {
return isFlat(this._latlngs) ? this._latlngs : this._latlngs[0];
},

// recursively convert latlngs input into actual LatLng instances; calculate bounds along
the way
_convertLatLngs: function (latlngs) {
var this$1 = this;

var result = [],
    flat = isFlat(latlngs);

for (var i = 0, len = latlngs.length; i < len; i++) {
        if (flat) {
                result[i] = toLatLng(latlngs[i]);
                this$1._bounds.extend(result[i]);
        } else {
                result[i] = this$1._convertLatLngs(latlngs[i]);
        }
}

return result;
},

_project: function () {
var pxBounds = new Bounds();
this._rings = [];
this._projectLatlngs(this._latlngs, this._rings, pxBounds);

var w = this._clickTolerance(),
    p = new Point(w, w);
```

```
if (this._bounds.isValid() && pxBounds.isValid()) {
        pxBounds.min._subtract(p);
        pxBounds.max._add(p);
        this._pxBounds = pxBounds;
}
},

// recursively turns latlngs into a set of rings with projected coordinates
_projectLatlngs: function (latlngs, result, projectedBounds) {
var this$1 = this;

var flat = latlngs[0] instanceof LatLng,
   len = latlngs.length,
   i, ring;

if (flat) {
        ring = [];
        for (i = 0; i < len; i++) {
                ring[i] = this$1._map.latLngToLayerPoint(latlngs[i]);
                projectedBounds.extend(ring[i]);
        }
        result.push(ring);
} else {
        for (i = 0; i < len; i++) {
                this$1._projectLatlngs(latlngs[i], result, projectedBounds);
        }
}
},

// clip polyline by renderer bounds so that we have less to render for performance
_clipPoints: function () {
var this$1 = this;

var bounds = this._renderer._bounds;

this._parts = [];
if (!this._pxBounds || !this._pxBounds.intersects(bounds)) {
        return;
}

if (this.options.noClip) {
        this._parts = this._rings;
        return;
}
```

```
var parts = this._parts,
    i, j, k, len, len2, segment, points;

for (i = 0, k = 0, len = this._rings.length; i < len; i++) {
        points = this$1._rings[i];

        for (j = 0, len2 = points.length; j < len2 - 1; j++) {
                segment = clipSegment(points[j], points[j + 1], bounds, j, true);

                if (!segment) { continue; }

                parts[k] = parts[k] || [];
                parts[k].push(segment[0]);

                // if segment goes out of screen, or it's the last one, it's the end of the line
part
                if ((segment[1] !== points[j + 1]) || (j === len2 - 2)) {
                        parts[k].push(segment[1]);
                        k++;
                }
        }
}
},

// simplify each clipped part of the polyline for performance
_simplifyPoints: function () {
var parts = this._parts,
    tolerance = this.options.smoothFactor;

for (var i = 0, len = parts.length; i < len; i++) {
        parts[i] = simplify(parts[i], tolerance);
}
},

_update: function () {
if (!this._map) { return; }

this._clipPoints();
this._simplifyPoints();
this._updatePath();
},

_updatePath: function () {
this._renderer._updatePoly(this);
},
```

```
	// Needed by the `Canvas` renderer for interactivity
	_containsPoint: function (p, closed) {
	var this$1 = this;

	var i, j, k, len, len2, part,
	    w = this._clickTolerance();

	if (!this._pxBounds || !this._pxBounds.contains(p)) { return false; }

	// hit detection for polylines
	for (i = 0, len = this._parts.length; i < len; i++) {
		part = this$1._parts[i];

		for (j = 0, len2 = part.length, k = len2 - 1; j < len2; k = j++) {
			if (!closed && (j === 0)) { continue; }

			if (pointToSegmentDistance(p, part[k], part[j]) <= w) {
				return true;
			}
		}
	}
	return false;
	}
});

// @factory L.polyline(latlngs: LatLng[], options?: Polyline options)
// Instantiates a polyline object given an array of geographical points and
// optionally an options object. You can create a `Polyline` object with
// multiple separate lines (`MultiPolyline`) by passing an array of arrays
// of geographic points.
function polyline(latlngs, options) {
	return new Polyline(latlngs, options);
}

// Retrocompat. Allow plugins to support Leaflet versions before and after 1.1.
Polyline._flat = _flat;

/*
 * @class Polygon
 * @aka L.Polygon
 * @inherits Polyline
 *
 * A class for drawing polygon overlays on a map. Extends `Polyline`.
 *
 * Note that points you pass when creating a polygon shouldn't have an additional last point
	equal to the first one — it's better to filter out such points.
```

```
 *
 *
 * @example
 *
 * ```js
 * // create a red polygon from an array of LatLng points
 * var latlngs = [[37, -109.05],[41, -109.03],[41, -102.05],[37, -102.04]];
 *
 * var polygon = L.polygon(latlngs, {color: 'red'}).addTo(map);
 *
 * // zoom the map to the polygon
 * map.fitBounds(polygon.getBounds());
 * ```
 *
 * You can also pass an array of arrays of latlngs, with the first array representing the outer shape
        and the other arrays representing holes in the outer shape:
 *
 * ```js
 * var latlngs = [
 *   [[37, -109.05],[41, -109.03],[41, -102.05],[37, -102.04]], // outer ring
 *   [[37.29, -108.58],[40.71, -108.58],[40.71, -102.50],[37.29, -102.50]] // hole
 * ];
 * ```
 *
 * Additionally, you can pass a multi-dimensional array to represent a MultiPolygon shape.
 *
 * ```js
 * var latlngs = [
 *   [ // first polygon
 *     [[37, -109.05],[41, -109.03],[41, -102.05],[37, -102.04]], // outer ring
 *     [[37.29, -108.58],[40.71, -108.58],[40.71, -102.50],[37.29, -102.50]] // hole
 *   ],
 *   [ // second polygon
 *     [[41, -111.03],[45, -111.04],[45, -104.05],[41, -104.05]]
 *   ]
 * ];
 * ```
 */

var Polygon = Polyline.extend({

        options: {
        fill: true
        },

        isEmpty: function () {
```

```
return !this._latlngs.length || !this._latlngs[0].length;
},

getCenter: function () {
// throws error when not yet added to map as this center calculation requires projected
coordinates
if (!this._map) {
	throw new Error('Must add layer to map before using getCenter()');
}

var i, j, p1, p2, f, area, x, y, center,
   points = this._rings[0],
   len = points.length;

if (!len) { return null; }

// polygon centroid algorithm; only uses the first ring if there are multiple

area = x = y = 0;

for (i = 0, j = len - 1; i < len; j = i++) {
	p1 = points[i];
	p2 = points[j];

	f = p1.y * p2.x - p2.y * p1.x;
	x += (p1.x + p2.x) * f;
	y += (p1.y + p2.y) * f;
	area += f * 3;
}

if (area === 0) {
	// Polygon is so small that all points are on same pixel.
	center = points[0];
} else {
	center = [x / area, y / area];
}
return this._map.layerPointToLatLng(center);
},

_convertLatLngs: function (latlngs) {
var result = Polyline.prototype._convertLatLngs.call(this, latlngs),
   len = result.length;

// remove last point if it equals first one
if (len >= 2 && result[0] instanceof LatLng && result[0].equals(result[len - 1])) {
	result.pop();
```

```
}
return result;
},

_setLatLngs: function (latlngs) {
Polyline.prototype._setLatLngs.call(this, latlngs);
if (isFlat(this._latlngs)) {
        this._latlngs = [this._latlngs];
}
},

_defaultShape: function () {
return isFlat(this._latlngs[0]) ? this._latlngs[0] : this._latlngs[0][0];
},

_clipPoints: function () {
var this$1 = this;

// polygons need a different clipping algorithm so we redefine that

var bounds = this._renderer._bounds,
   w = this.options.weight,
   p = new Point(w, w);

// increase clip padding by stroke width to avoid stroke on clip edges
bounds = new Bounds(bounds.min.subtract(p), bounds.max.add(p));

this._parts = [];
if (!this._pxBounds || !this._pxBounds.intersects(bounds)) {
        return;
}

if (this.options.noClip) {
        this._parts = this._rings;
        return;
}

for (var i = 0, len = this._rings.length, clipped; i < len; i++) {
        clipped = clipPolygon(this$1._rings[i], bounds, true);
        if (clipped.length) {
                this$1._parts.push(clipped);
        }
}
},

_updatePath: function () {
```

```
        this._renderer._updatePoly(this, true);
        },

        // Needed by the `Canvas` renderer for interactivity
        _containsPoint: function (p) {
        var this$1 = this;

        var inside = false,
            part, p1, p2, i, j, k, len, len2;

        if (!this._pxBounds.contains(p)) { return false; }

        // ray casting algorithm for detecting if point is in polygon
        for (i = 0, len = this._parts.length; i < len; i++) {
                part = this$1._parts[i];

                for (j = 0, len2 = part.length, k = len2 - 1; j < len2; k = j++) {
                        p1 = part[j];
                        p2 = part[k];

                        if (((p1.y > p.y) !== (p2.y > p.y)) && (p.x < (p2.x - p1.x) * (p.y - p1.y) /
        (p2.y - p1.y) + p1.x)) {
                                inside = !inside;
                        }
                }
        }

        // also check if it's on polygon stroke
        return inside || Polyline.prototype._containsPoint.call(this, p, true);
        }

});


// @factory L.polygon(latlngs: LatLng[], options?: Polyline options)
function polygon(latlngs, options) {
        return new Polygon(latlngs, options);
}

/*
 * @class GeoJSON
 * @aka L.GeoJSON
 * @inherits FeatureGroup
 *
 * Represents a GeoJSON object or an array of GeoJSON objects. Allows you to parse
 * GeoJSON data and display it on the map. Extends `FeatureGroup`.
```

```
 *
 * @example
 *
 * ```js
 * L.geoJSON(data, {
 *         style: function (feature) {
 *         return {color: feature.properties.color};
 *         }
 * }).bindPopup(function (layer) {
 *         return layer.feature.properties.description;
 * }).addTo(map);
 * ```
 */

var GeoJSON = FeatureGroup.extend({

        /* @section
         * @aka GeoJSON options
         *
         * @option pointToLayer: Function = *
         * A `Function` defining how GeoJSON points spawn Leaflet layers. It is internally
         * called when data is added, passing the GeoJSON point feature and its `LatLng`.
         * The default is to spawn a default `Marker`:
         * ```js
         * function(geoJsonPoint, latlng) {
         *         return L.marker(latlng);
         * }
         * ```
         *
         * @option style: Function = *
         * A `Function` defining the `Path options` for styling GeoJSON lines and polygons,
         * called internally when data is added.
         * The default value is to not override any defaults:
         * ```js
         * function (geoJsonFeature) {
         *         return {}
         * }
         * ```
         *
         * @option onEachFeature: Function = *
         * A `Function` that will be called once for each created `Feature`, after it has
         * been created and styled. Useful for attaching events and popups to features.
         * The default is to do nothing with the newly created layers:
         * ```js
         * function (feature, layer) {}
         * ```
```

```
 *
 * @option filter: Function = *
 * A `Function` that will be used to decide whether to include a feature or not.
 * The default is to include all features:
 * ```js
 * function (geoJsonFeature) {
 *         return true;
 * }
 * ```
 * Note: dynamically changing the `filter` option will have effect only on newly
 * added data. It will _not_ re-evaluate already included features.
 *
 * @option coordsToLatLng: Function = *
 * A `Function` that will be used for converting GeoJSON coordinates to `LatLng`s.
 * The default is the `coordsToLatLng` static method.
 */

initialize: function (geojson, options) {
setOptions(this, options);

this._layers = {};

if (geojson) {
        this.addData(geojson);
}
},

// @method addData( <GeoJSON> data ): this
// Adds a GeoJSON object to the layer.
addData: function (geojson) {
var this$1 = this;

var features = isArray(geojson) ? geojson : geojson.features,
   i, len, feature;

if (features) {
        for (i = 0, len = features.length; i < len; i++) {
                // only add this if geometry or geometries are set and not null
                feature = features[i];
                if (feature.geometries || feature.geometry || feature.features ||
feature.coordinates) {
                        this$1.addData(feature);
                }
        }
        return this;
}
```

```
var options = this.options;

if (options.filter && !options.filter(geojson)) { return this; }

var layer = geometryToLayer(geojson, options);
if (!layer) {
        return this;
}
layer.feature = asFeature(geojson);

layer.defaultOptions = layer.options;
this.resetStyle(layer);

if (options.onEachFeature) {
        options.onEachFeature(geojson, layer);
}

return this.addLayer(layer);
},

// @method resetStyle( <Path> layer ): this
// Resets the given vector layer's style to the original GeoJSON style, useful for resetting
style after hover events.
resetStyle: function (layer) {
// reset any custom styles
layer.options = extend({}, layer.defaultOptions);
this._setLayerStyle(layer, this.options.style);
return this;
},

// @method setStyle( <Function> style ): this
// Changes styles of GeoJSON vector layers with the given style function.
setStyle: function (style) {
return this.eachLayer(function (layer) {
        this._setLayerStyle(layer, style);
}, this);
},

_setLayerStyle: function (layer, style) {
if (typeof style === 'function') {
        style = style(layer.feature);
}
if (layer.setStyle) {
        layer.setStyle(style);
}
```

```
	}
});

// @section
// There are several static functions which can be called without instantiating L.GeoJSON:

// @function geometryToLayer(featureData: Object, options?: GeoJSON options): Layer
// Creates a `Layer` from a given GeoJSON feature. Can use a custom
// [`pointToLayer`](#geojson-pointtolayer) and/or [`coordsToLatLng`](#geojson-coordstolatlng)
// functions if provided as options.
function geometryToLayer(geojson, options) {

	var geometry = geojson.type === 'Feature' ? geojson.geometry : geojson,
	    coords = geometry ? geometry.coordinates : null,
	    layers = [],
	    pointToLayer = options && options.pointToLayer,
	    _coordsToLatLng = options && options.coordsToLatLng || coordsToLatLng,
	    latlng, latlngs, i, len;

	if (!coords && !geometry) {
	return null;
	}

	switch (geometry.type) {
	case 'Point':
	latlng = _coordsToLatLng(coords);
	return pointToLayer ? pointToLayer(geojson, latlng) : new Marker(latlng);

	case 'MultiPoint':
	for (i = 0, len = coords.length; i < len; i++) {
		latlng = _coordsToLatLng(coords[i]);
		layers.push(pointToLayer ? pointToLayer(geojson, latlng) : new Marker(latlng));
	}
	return new FeatureGroup(layers);

	case 'LineString':
	case 'MultiLineString':
	latlngs = coordsToLatLngs(coords, geometry.type === 'LineString' ? 0 : 1,
	_coordsToLatLng);
	return new Polyline(latlngs, options);

	case 'Polygon':
	case 'MultiPolygon':
	latlngs = coordsToLatLngs(coords, geometry.type === 'Polygon' ? 1 : 2,
	_coordsToLatLng);
	return new Polygon(latlngs, options);
```

```
		case 'GeometryCollection':
		for (i = 0, len = geometry.geometries.length; i < len; i++) {
			var layer = geometryToLayer({
				geometry: geometry.geometries[i],
				type: 'Feature',
				properties: geojson.properties
			}, options);

			if (layer) {
				layers.push(layer);
			}
		}
		return new FeatureGroup(layers);

		default:
		throw new Error('Invalid GeoJSON object.');
		}
}

// @function coordsToLatLng(coords: Array): LatLng
// Creates a `LatLng` object from an array of 2 numbers (longitude, latitude)
// or 3 numbers (longitude, latitude, altitude) used in GeoJSON for points.
function coordsToLatLng(coords) {
		return new LatLng(coords[1], coords[0], coords[2]);
}

// @function coordsToLatLngs(coords: Array, levelsDeep?: Number, coordsToLatLng?:
		Function): Array
// Creates a multidimensional array of `LatLng`s from a GeoJSON coordinates array.
// `levelsDeep` specifies the nesting level (0 is for an array of points, 1 for an array of arrays of
		points, etc., 0 by default).
// Can use a custom [`coordsToLatLng`](#geojson-coordstolatlng) function.
function coordsToLatLngs(coords, levelsDeep, _coordsToLatLng) {
		var latlngs = [];

		for (var i = 0, len = coords.length, latlng; i < len; i++) {
		latlng = levelsDeep ?
			coordsToLatLngs(coords[i], levelsDeep - 1, _coordsToLatLng) :
			(_coordsToLatLng || coordsToLatLng)(coords[i]);

		latlngs.push(latlng);
		}

		return latlngs;
}
```

```
// @function latLngToCoords(latlng: LatLng, precision?: Number): Array
// Reverse of [`coordsToLatLng`](#geojson-coordstolatlng)
function latLngToCoords(latlng, precision) {
	precision = typeof precision === 'number' ? precision : 6;
	return latlng.alt !== undefined ?
	[formatNum(latlng.lng, precision), formatNum(latlng.lat, precision),
	formatNum(latlng.alt, precision)] :
	[formatNum(latlng.lng, precision), formatNum(latlng.lat, precision)];
}

// @function latLngsToCoords(latlngs: Array, levelsDeep?: Number, closed?: Boolean): Array
// Reverse of [`coordsToLatLngs`](#geojson-coordstolatlngs)
// `closed` determines whether the first point should be appended to the end of the array to close
	the feature, only used when `levelsDeep` is 0. False by default.
function latLngsToCoords(latlngs, levelsDeep, closed, precision) {
	var coords = [];

	for (var i = 0, len = latlngs.length; i < len; i++) {
	coords.push(levelsDeep ?
		latLngsToCoords(latlngs[i], levelsDeep - 1, closed, precision) :
		latLngToCoords(latlngs[i], precision));
	}

	if (!levelsDeep && closed) {
	coords.push(coords[0]);
	}

	return coords;
}

function getFeature(layer, newGeometry) {
	return layer.feature ?
	extend({}, layer.feature, {geometry: newGeometry}) :
	asFeature(newGeometry);
}

// @function asFeature(geojson: Object): Object
// Normalize GeoJSON geometries/features into GeoJSON features.
function asFeature(geojson) {
	if (geojson.type === 'Feature' || geojson.type === 'FeatureCollection') {
	return geojson;
	}

	return {
	type: 'Feature',
```

```
		properties: {},
		geometry: geojson
		};
}

var PointToGeoJSON = {
		toGeoJSON: function (precision) {
		return getFeature(this, {
			type: 'Point',
			coordinates: latLngToCoords(this.getLatLng(), precision)
		});
		}
};

// @namespace Marker
// @method toGeoJSON(): Object
// Returns a [`GeoJSON`](http://en.wikipedia.org/wiki/GeoJSON) representation of the marker
		(as a GeoJSON `Point` Feature).
Marker.include(PointToGeoJSON);

// @namespace CircleMarker
// @method toGeoJSON(): Object
// Returns a [`GeoJSON`](http://en.wikipedia.org/wiki/GeoJSON) representation of the circle
		marker (as a GeoJSON `Point` Feature).
Circle.include(PointToGeoJSON);
CircleMarker.include(PointToGeoJSON);


// @namespace Polyline
// @method toGeoJSON(): Object
// Returns a [`GeoJSON`](http://en.wikipedia.org/wiki/GeoJSON) representation of the polyline
		(as a GeoJSON `LineString` or `MultiLineString` Feature).
Polyline.include({
		toGeoJSON: function (precision) {
		var multi = !isFlat(this._latlngs);

		var coords = latLngsToCoords(this._latlngs, multi ? 1 : 0, false, precision);

		return getFeature(this, {
			type: (multi ? 'Multi' : '') + 'LineString',
			coordinates: coords
		});
		}
});

// @namespace Polygon
```

```
// @method toGeoJSON(): Object
// Returns a [`GeoJSON`](http://en.wikipedia.org/wiki/GeoJSON) representation of the polygon
	(as a GeoJSON `Polygon` or `MultiPolygon` Feature).
Polygon.include({
	toGeoJSON: function (precision) {
	var holes = !isFlat(this._latlngs),
	   multi = holes && !isFlat(this._latlngs[0]);

	var coords = latLngsToCoords(this._latlngs, multi ? 2 : holes ? 1 : 0, true, precision);

	if (!holes) {
		coords = [coords];
	}

	return getFeature(this, {
		type: (multi ? 'Multi' : '') + 'Polygon',
		coordinates: coords
	});
	}
});


// @namespace LayerGroup
LayerGroup.include({
	toMultiPoint: function (precision) {
	var coords = [];

	this.eachLayer(function (layer) {
		coords.push(layer.toGeoJSON(precision).geometry.coordinates);
	});

	return getFeature(this, {
		type: 'MultiPoint',
		coordinates: coords
	});
	},

	// @method toGeoJSON(): Object
	// Returns a [`GeoJSON`](http://en.wikipedia.org/wiki/GeoJSON) representation of the
	layer group (as a GeoJSON `FeatureCollection`, `GeometryCollection`, or `MultiPoint`).
	toGeoJSON: function (precision) {

	var type = this.feature && this.feature.geometry && this.feature.geometry.type;

	if (type === 'MultiPoint') {
		return this.toMultiPoint(precision);
```

```
	}

	var isGeometryCollection = type === 'GeometryCollection',
	  jsons = [];

	this.eachLayer(function (layer) {
		if (layer.toGeoJSON) {
			var json = layer.toGeoJSON(precision);
			if (isGeometryCollection) {
				jsons.push(json.geometry);
			} else {
				var feature = asFeature(json);
				// Squash nested feature collections
				if (feature.type === 'FeatureCollection') {
					jsons.push.apply(jsons, feature.features);
				} else {
					jsons.push(feature);
				}
			}
		}
	});

	if (isGeometryCollection) {
		return getFeature(this, {
			geometries: jsons,
			type: 'GeometryCollection'
		});
	}

	return {
		type: 'FeatureCollection',
		features: jsons
	};
	}
});

// @namespace GeoJSON
// @factory L.geoJSON(geojson?: Object, options?: GeoJSON options)
// Creates a GeoJSON layer. Optionally accepts an object in
// [GeoJSON format](http://geojson.org/geojson-spec.html) to display on the map
// (you can alternatively add it later with `addData` method) and an `options` object.
function geoJSON(geojson, options) {
	return new GeoJSON(geojson, options);
}

// Backward compatibility.
```

```
var geoJson = geoJSON;

/*
 * @class ImageOverlay
 * @aka L.ImageOverlay
 * @inherits Interactive layer
 *
 * Used to load and display a single image over specific bounds of the map. Extends `Layer`.
 *
 * @example
 *
 * ```js
 * var imageUrl = 'http://www.lib.utexas.edu/maps/historical/newark_nj_1922.jpg',
 *        imageBounds = [[40.712216, -74.22655], [40.773941, -74.12544]];
 * L.imageOverlay(imageUrl, imageBounds).addTo(map);
 * ```
 */

var ImageOverlay = Layer.extend({

        // @section
        // @aka ImageOverlay options
        options: {
        // @option opacity: Number = 1.0
        // The opacity of the image overlay.
        opacity: 1,

        // @option alt: String = ''
        // Text for the `alt` attribute of the image (useful for accessibility).
        alt: '',

        // @option interactive: Boolean = false
        // If `true`, the image overlay will emit [mouse events](#interactive-layer) when clicked
        or hovered.
        interactive: false,

        // @option crossOrigin: Boolean = false
        // If true, the image will have its crossOrigin attribute set to ''. This is needed if you want
        to access image pixel data.
        crossOrigin: false,

        // @option errorOverlayUrl: String = ''
        // URL to the overlay image to show in place of the overlay that failed to load.
        errorOverlayUrl: '',

        // @option zIndex: Number = 1
```

```
// The explicit
[zIndex](https://developer.mozilla.org/docs/Web/CSS/CSS_Positioning/Understanding_z
_index) of the tile layer.
zIndex: 1,

// @option className: String = ''
// A custom class name to assign to the image. Empty by default.
className: '',
},

initialize: function (url, bounds, options) { // (String, LatLngBounds, Object)
this._url = url;
this._bounds = toLatLngBounds(bounds);

setOptions(this, options);
},

onAdd: function () {
if (!this._image) {
	this._initImage();

	if (this.options.opacity < 1) {
		this._updateOpacity();
	}
}

if (this.options.interactive) {
	addClass(this._image, 'leaflet-interactive');
	this.addInteractiveTarget(this._image);
}

this.getPane().appendChild(this._image);
this._reset();
},

onRemove: function () {
remove(this._image);
if (this.options.interactive) {
	this.removeInteractiveTarget(this._image);
}
},

// @method setOpacity(opacity: Number): this
// Sets the opacity of the overlay.
setOpacity: function (opacity) {
this.options.opacity = opacity;
```

```
if (this._image) {
	this._updateOpacity();
}
return this;
},

setStyle: function (styleOpts) {
if (styleOpts.opacity) {
	this.setOpacity(styleOpts.opacity);
}
return this;
},

// @method bringToFront(): this
// Brings the layer to the top of all overlays.
bringToFront: function () {
if (this._map) {
	toFront(this._image);
}
return this;
},

// @method bringToBack(): this
// Brings the layer to the bottom of all overlays.
bringToBack: function () {
if (this._map) {
	toBack(this._image);
}
return this;
},

// @method setUrl(url: String): this
// Changes the URL of the image.
setUrl: function (url) {
this._url = url;

if (this._image) {
	this._image.src = url;
}
return this;
},

// @method setBounds(bounds: LatLngBounds): this
// Update the bounds that this ImageOverlay covers
setBounds: function (bounds) {
```

```
this._bounds = toLatLngBounds(bounds);

if (this._map) {
	this._reset();
}
return this;
},

getEvents: function () {
var events = {
	zoom: this._reset,
	viewreset: this._reset
};

if (this._zoomAnimated) {
	events.zoomanim = this._animateZoom;
}

return events;
},

// @method: setZIndex(value: Number) : this
// Changes the [zIndex](#imageoverlay-zindex) of the image overlay.
setZIndex: function (value) {
this.options.zIndex = value;
this._updateZIndex();
return this;
},

// @method getBounds(): LatLngBounds
// Get the bounds that this ImageOverlay covers
getBounds: function () {
return this._bounds;
},

// @method getElement(): HTMLElement
// Returns the instance of
[`HTMLImageElement`](https://developer.mozilla.org/docs/Web/API/HTMLImageElem
ent)
// used by this overlay.
getElement: function () {
return this._image;
},

_initImage: function () {
var wasElementSupplied = this._url.tagName === 'IMG';
```

```
var img = this._image = wasElementSupplied ? this._url : create$1('img');

addClass(img, 'leaflet-image-layer');
if (this._zoomAnimated) { addClass(img, 'leaflet-zoom-animated'); }
if (this.options.className) { addClass(img, this.options.className); }

img.onselectstart = falseFn;
img.onmousemove = falseFn;

// @event load: Event
// Fired when the ImageOverlay layer has loaded its image
img.onload = bind(this.fire, this, 'load');
img.onerror = bind(this._overlayOnError, this, 'error');

if (this.options.crossOrigin) {
        img.crossOrigin = '';
}

if (this.options.zIndex) {
        this._updateZIndex();
}

if (wasElementSupplied) {
        this._url = img.src;
        return;
}

img.src = this._url;
img.alt = this.options.alt;
},

_animateZoom: function (e) {
var scale = this._map.getZoomScale(e.zoom),
   offset = this._map._latLngBoundsToNewLayerBounds(this._bounds, e.zoom,
e.center).min;

setTransform(this._image, offset, scale);
},

_reset: function () {
var image = this._image,
   bounds = new Bounds(
      this._map.latLngToLayerPoint(this._bounds.getNorthWest()),
      this._map.latLngToLayerPoint(this._bounds.getSouthEast())),
   size = bounds.getSize();
```

```
        setPosition(image, bounds.min);

        image.style.width  = size.x + 'px';
        image.style.height = size.y + 'px';
        },

        _updateOpacity: function () {
        setOpacity(this._image, this.options.opacity);
        },

        _updateZIndex: function () {
        if (this._image && this.options.zIndex !== undefined && this.options.zIndex !== null) {
                this._image.style.zIndex = this.options.zIndex;
        }
        },

        _overlayOnError: function () {
        // @event error: Event
        // Fired when the ImageOverlay layer has loaded its image
        this.fire('error');

        var errorUrl = this.options.errorOverlayUrl;
        if (errorUrl && this._url !== errorUrl) {
                this._url = errorUrl;
                this._image.src = errorUrl;
        }
        }
});

// @factory L.imageOverlay(imageUrl: String, bounds: LatLngBounds, options?: ImageOverlay
        options)
// Instantiates an image overlay object given the URL of the image and the
// geographical bounds it is tied to.
var imageOverlay = function (url, bounds, options) {
        return new ImageOverlay(url, bounds, options);
};

/*
 * @class VideoOverlay
 * @aka L.VideoOverlay
 * @inherits ImageOverlay
 *
 * Used to load and display a video player over specific bounds of the map. Extends
        `ImageOverlay`.
 *
```

```
 * A video overlay uses the
 *      [`<video>`](https://developer.mozilla.org/docs/Web/HTML/Element/video)
 * HTML5 element.
 *
 * @example
 *
 * ```js
 * var videoUrl = 'https://www.mapbox.com/bites/00188/patricia_nasa.webm',
 *      videoBounds = [[ 32, -130], [ 13, -100]];
 * L.VideoOverlay(videoUrl, videoBounds ).addTo(map);
 * ```
 */

var VideoOverlay = ImageOverlay.extend({

        // @section
        // @aka VideoOverlay options
        options: {
        // @option autoplay: Boolean = true
        // Whether the video starts playing automatically when loaded.
        autoplay: true,

        // @option loop: Boolean = true
        // Whether the video will loop back to the beginning when played.
        loop: true
        },

        _initImage: function () {
        var this$1 = this;

        var wasElementSupplied = this._url.tagName === 'VIDEO';
        var vid = this._image = wasElementSupplied ? this._url : create$1('video');

        addClass(vid, 'leaflet-image-layer');
        if (this._zoomAnimated) { addClass(vid, 'leaflet-zoom-animated'); }

        vid.onselectstart = falseFn;
        vid.onmousemove = falseFn;

        // @event load: Event
        // Fired when the video has finished loading the first frame
        vid.onloadeddata = bind(this.fire, this, 'load');

        if (wasElementSupplied) {
                var sourceElements = vid.getElementsByTagName('source');
                var sources = [];
```

```
                for (var j = 0; j < sourceElements.length; j++) {
                        sources.push(sourceElements[j].src);
                }

                this._url = (sourceElements.length > 0) ? sources : [vid.src];
                return;
        }

        if (!isArray(this._url)) { this._url = [this._url]; }

        vid.autoplay = !!this.options.autoplay;
        vid.loop = !!this.options.loop;
        for (var i = 0; i < this._url.length; i++) {
                var source = create$1('source');
                source.src = this$1._url[i];
                vid.appendChild(source);
        }
        }

        // @method getElement(): HTMLVideoElement
        // Returns the instance of
        [`HTMLVideoElement`](https://developer.mozilla.org/docs/Web/API/HTMLVideoElem
        ent)
        // used by this overlay.
});


// @factory L.videoOverlay(video: String|Array|HTMLVideoElement, bounds: LatLngBounds,
        options?: VideoOverlay options)
// Instantiates an image overlay object given the URL of the video (or array of URLs, or even a
        video element) and the
// geographical bounds it is tied to.

function videoOverlay(video, bounds, options) {
        return new VideoOverlay(video, bounds, options);
}

/*
 * @class DivOverlay
 * @inherits Layer
 * @aka L.DivOverlay
 * Base model for L.Popup and L.Tooltip. Inherit from it for custom popup like plugins.
 */

// @namespace DivOverlay
var DivOverlay = Layer.extend({
```

```
// @section
// @aka DivOverlay options
options: {
// @option offset: Point = Point(0, 7)
// The offset of the popup position. Useful to control the anchor
// of the popup when opening it on some overlays.
offset: [0, 7],

// @option className: String = ''
// A custom CSS class name to assign to the popup.
className: '',

// @option pane: String = 'popupPane'
// `Map pane` where the popup will be added.
pane: 'popupPane'
},

initialize: function (options, source) {
setOptions(this, options);

this._source = source;
},

onAdd: function (map) {
this._zoomAnimated = map._zoomAnimated;

if (!this._container) {
	this._initLayout();
}

if (map._fadeAnimated) {
	setOpacity(this._container, 0);
}

clearTimeout(this._removeTimeout);
this.getPane().appendChild(this._container);
this.update();

if (map._fadeAnimated) {
	setOpacity(this._container, 1);
}

this.bringToFront();
},
```

```
onRemove: function (map) {
if (map._fadeAnimated) {
	setOpacity(this._container, 0);
	this._removeTimeout = setTimeout(bind(remove, undefined, this._container),
200);
} else {
	remove(this._container);
}
},

// @namespace Popup
// @method getLatLng: LatLng
// Returns the geographical point of popup.
getLatLng: function () {
return this._latlng;
},

// @method setLatLng(latlng: LatLng): this
// Sets the geographical point where the popup will open.
setLatLng: function (latlng) {
this._latlng = toLatLng(latlng);
if (this._map) {
	this._updatePosition();
	this._adjustPan();
}
return this;
},

// @method getContent: String|HTMLElement
// Returns the content of the popup.
getContent: function () {
return this._content;
},

// @method setContent(htmlContent: String|HTMLElement|Function): this
// Sets the HTML content of the popup. If a function is passed the source layer will be
passed to the function. The function should return a `String` or `HTMLElement` to be
used in the popup.
setContent: function (content) {
this._content = content;
this.update();
return this;
},

// @method getElement: String|HTMLElement
// Alias for [getContent()](#popup-getcontent)
```

```
getElement: function () {
return this._container;
},

// @method update: null
// Updates the popup content, layout and position. Useful for updating the popup after
something inside changed, e.g. image loaded.
update: function () {
if (!this._map) { return; }

this._container.style.visibility = 'hidden';

this._updateContent();
this._updateLayout();
this._updatePosition();

this._container.style.visibility = '';

this._adjustPan();
},

getEvents: function () {
var events = {
        zoom: this._updatePosition,
        viewreset: this._updatePosition
};

if (this._zoomAnimated) {
        events.zoomanim = this._animateZoom;
}
return events;
},

// @method isOpen: Boolean
// Returns `true` when the popup is visible on the map.
isOpen: function () {
return !!this._map && this._map.hasLayer(this);
},

// @method bringToFront: this
// Brings this popup in front of other popups (in the same map pane).
bringToFront: function () {
if (this._map) {
        toFront(this._container);
}
return this;
```

```
},

// @method bringToBack: this
// Brings this popup to the back of other popups (in the same map pane).
bringToBack: function () {
if (this._map) {
	toBack(this._container);
}
return this;
},

_updateContent: function () {
if (!this._content) { return; }

var node = this._contentNode;
var content = (typeof this._content === 'function') ? this._content(this._source || this) :
this._content;

if (typeof content === 'string') {
	node.innerHTML = content;
} else {
	while (node.hasChildNodes()) {
		node.removeChild(node.firstChild);
	}
	node.appendChild(content);
}
this.fire('contentupdate');
},

_updatePosition: function () {
if (!this._map) { return; }

var pos = this._map.latLngToLayerPoint(this._latlng),
    offset = toPoint(this.options.offset),
    anchor = this._getAnchor();

if (this._zoomAnimated) {
	setPosition(this._container, pos.add(anchor));
} else {
	offset = offset.add(pos).add(anchor);
}

var bottom = this._containerBottom = -offset.y,
    left = this._containerLeft = -Math.round(this._containerWidth / 2) + offset.x;

// bottom position the popup in case the height of the popup changes (images loading etc)
```

```
		this._container.style.bottom = bottom + 'px';
		this._container.style.left = left + 'px';
		},

		_getAnchor: function () {
		return [0, 0];
		}

});

/*
 * @class Popup
 * @inherits DivOverlay
 * @aka L.Popup
 * Used to open popups in certain places of the map. Use [Map.openPopup](#map-openpopup) to
 * open popups while making sure that only one popup is open at one time
 * (recommended for usability), or use [Map.addLayer](#map-addlayer) to open as many as you
 	want.
 *
 * @example
 *
 * If you want to just bind a popup to marker click and then open it, it's really easy:
 *
 * ```js
 * marker.bindPopup(popupContent).openPopup();
 * ```
 * Path overlays like polylines also have a `bindPopup` method.
 * Here's a more complicated way to open a popup on a map:
 *
 * ```js
 * var popup = L.popup()
 *	.setLatLng(latlng)
 *	.setContent('<p>Hello world!<br />This is a nice popup.</p>')
 *	.openOn(map);
 * ```
 */


// @namespace Popup
var Popup = DivOverlay.extend({

		// @section
		// @aka Popup options
		options: {
		// @option maxWidth: Number = 300
		// Max width of the popup, in pixels.
```

```
maxWidth: 300,

// @option minWidth: Number = 50
// Min width of the popup, in pixels.
minWidth: 50,

// @option maxHeight: Number = null
// If set, creates a scrollable container of the given height
// inside a popup if its content exceeds it.
maxHeight: null,

// @option autoPan: Boolean = true
// Set it to `false` if you don't want the map to do panning animation
// to fit the opened popup.
autoPan: true,

// @option autoPanPaddingTopLeft: Point = null
// The margin between the popup and the top left corner of the map
// view after autopanning was performed.
autoPanPaddingTopLeft: null,

// @option autoPanPaddingBottomRight: Point = null
// The margin between the popup and the bottom right corner of the map
// view after autopanning was performed.
autoPanPaddingBottomRight: null,

// @option autoPanPadding: Point = Point(5, 5)
// Equivalent of setting both top left and bottom right autopan padding to the same value.
autoPanPadding: [5, 5],

// @option keepInView: Boolean = false
// Set it to `true` if you want to prevent users from panning the popup
// off of the screen while it is open.
keepInView: false,

// @option closeButton: Boolean = true
// Controls the presence of a close button in the popup.
closeButton: true,

// @option autoClose: Boolean = true
// Set it to `false` if you want to override the default behavior of
// the popup closing when another popup is opened.
autoClose: true,

// @option closeOnEscapeKey: Boolean = true
// Set it to `false` if you want to override the default behavior of
```

```
// the ESC key for closing of the popup.
closeOnEscapeKey: true,

// @option closeOnClick: Boolean = *
// Set it if you want to override the default behavior of the popup closing when user clicks
// on the map. Defaults to the map's [`closePopupOnClick`](#map-closepopuponclick)
option.

// @option className: String = ''
// A custom CSS class name to assign to the popup.
className: ''
},

// @namespace Popup
// @method openOn(map: Map): this
// Adds the popup to the map and closes the previous one. The same as
`map.openPopup(popup)`.
openOn: function (map) {
map.openPopup(this);
return this;
},

onAdd: function (map) {
DivOverlay.prototype.onAdd.call(this, map);

// @namespace Map
// @section Popup events
// @event popupopen: PopupEvent
// Fired when a popup is opened in the map
map.fire('popupopen', {popup: this});

if (this._source) {
        // @namespace Layer
        // @section Popup events
        // @event popupopen: PopupEvent
        // Fired when a popup bound to this layer is opened
        this._source.fire('popupopen', {popup: this}, true);
        // For non-path layers, we toggle the popup when clicking
        // again the layer, so prevent the map to reopen it.
        if (!(this._source instanceof Path)) {
                this._source.on('preclick', stopPropagation);
        }
}
},

onRemove: function (map) {
```

```
DivOverlay.prototype.onRemove.call(this, map);

// @namespace Map
// @section Popup events
// @event popupclose: PopupEvent
// Fired when a popup in the map is closed
map.fire('popupclose', {popup: this});

if (this._source) {
        // @namespace Layer
        // @section Popup events
        // @event popupclose: PopupEvent
        // Fired when a popup bound to this layer is closed
        this._source.fire('popupclose', {popup: this}, true);
        if (!(this._source instanceof Path)) {
                this._source.off('preclick', stopPropagation);
        }
}
},

getEvents: function () {
var events = DivOverlay.prototype.getEvents.call(this);

if (this.options.closeOnClick !== undefined ? this.options.closeOnClick :
this._map.options.closePopupOnClick) {
        events.preclick = this._close;
}

if (this.options.keepInView) {
        events.moveend = this._adjustPan;
}

return events;
},

_close: function () {
if (this._map) {
        this._map.closePopup(this);
}
},

_initLayout: function () {
var prefix = 'leaflet-popup',
   container = this._container = create$1('div',
        prefix + ' ' + (this.options.className || '') +
        ' leaflet-zoom-animated');
```

```
var wrapper = this._wrapper = create$1('div', prefix + '-content-wrapper', container);
this._contentNode = create$1('div', prefix + '-content', wrapper);

disableClickPropagation(wrapper);
disableScrollPropagation(this._contentNode);
on(wrapper, 'contextmenu', stopPropagation);

this._tipContainer = create$1('div', prefix + '-tip-container', container);
this._tip = create$1('div', prefix + '-tip', this._tipContainer);

if (this.options.closeButton) {
        var closeButton = this._closeButton = create$1('a', prefix + '-close-button',
container);
        closeButton.href = '#close';
        closeButton.innerHTML = '&#215;';

        on(closeButton, 'click', this._onCloseButtonClick, this);
}
},

_updateLayout: function () {
var container = this._contentNode,
   style = container.style;

style.width = '';
style.whiteSpace = 'nowrap';

var width = container.offsetWidth;
width = Math.min(width, this.options.maxWidth);
width = Math.max(width, this.options.minWidth);

style.width = (width + 1) + 'px';
style.whiteSpace = '';

style.height = '';

var height = container.offsetHeight,
   maxHeight = this.options.maxHeight,
   scrolledClass = 'leaflet-popup-scrolled';

if (maxHeight && height > maxHeight) {
        style.height = maxHeight + 'px';
        addClass(container, scrolledClass);
} else {
        removeClass(container, scrolledClass);
```

```
}

this._containerWidth = this._container.offsetWidth;
},

_animateZoom: function (e) {
var pos = this._map._latLngToNewLayerPoint(this._latlng, e.zoom, e.center),
    anchor = this._getAnchor();
setPosition(this._container, pos.add(anchor));
},

_adjustPan: function () {
if (!this.options.autoPan || (this._map._panAnim && this._map._panAnim._inProgress))
{ return; }

var map = this._map,
    marginBottom = parseInt(getStyle(this._container, 'marginBottom'), 10) || 0,
    containerHeight = this._container.offsetHeight + marginBottom,
    containerWidth = this._containerWidth,
    layerPos = new Point(this._containerLeft, -containerHeight - this._containerBottom);

layerPos._add(getPosition(this._container));

var containerPos = map.layerPointToContainerPoint(layerPos),
    padding = toPoint(this.options.autoPanPadding),
    paddingTL = toPoint(this.options.autoPanPaddingTopLeft || padding),
    paddingBR = toPoint(this.options.autoPanPaddingBottomRight || padding),
    size = map.getSize(),
    dx = 0,
    dy = 0;

if (containerPos.x + containerWidth + paddingBR.x > size.x) { // right
        dx = containerPos.x + containerWidth - size.x + paddingBR.x;
}
if (containerPos.x - dx - paddingTL.x < 0) { // left
        dx = containerPos.x - paddingTL.x;
}
if (containerPos.y + containerHeight + paddingBR.y > size.y) { // bottom
        dy = containerPos.y + containerHeight - size.y + paddingBR.y;
}
if (containerPos.y - dy - paddingTL.y < 0) { // top
        dy = containerPos.y - paddingTL.y;
}

// @namespace Map
// @section Popup events
```

```
		// @event autopanstart: Event
		// Fired when the map starts autopanning when opening a popup.
		if (dx || dy) {
			map
			    .fire('autopanstart')
			    .panBy([dx, dy]);
		}
		},

		_onCloseButtonClick: function (e) {
		this._close();
		stop(e);
		},

		_getAnchor: function () {
		// Where should we anchor the popup on the source layer?
		return toPoint(this._source && this._source._getPopupAnchor ?
		this._source._getPopupAnchor() : [0, 0]);
		}

});

// @namespace Popup
// @factory L.popup(options?: Popup options, source?: Layer)
// Instantiates a `Popup` object given an optional `options` object that describes its appearance
		and location and an optional `source` object that is used to tag the popup with a reference
		to the Layer to which it refers.
var popup = function (options, source) {
		return new Popup(options, source);
};


/* @namespace Map
 * @section Interaction Options
 * @option closePopupOnClick: Boolean = true
 * Set it to `false` if you don't want popups to close when user clicks the map.
 */
Map.mergeOptions({
		closePopupOnClick: true
});


// @namespace Map
// @section Methods for Layers and Controls
Map.include({
		// @method openPopup(popup: Popup): this
```

```
	// Opens the specified popup while closing the previously opened (to make sure only one
	is opened at one time for usability).
	// @alternative
	// @method openPopup(content: String|HTMLElement, latlng: LatLng, options?: Popup
	options): this
	// Creates a popup with the specified content and options and opens it in the given point
	on a map.
	openPopup: function (popup, latlng, options) {
	if (!(popup instanceof Popup)) {
		popup = new Popup(options).setContent(popup);
	}

	if (latlng) {
		popup.setLatLng(latlng);
	}

	if (this.hasLayer(popup)) {
		return this;
	}

	if (this._popup && this._popup.options.autoClose) {
		this.closePopup();
	}

	this._popup = popup;
	return this.addLayer(popup);
	},

	// @method closePopup(popup?: Popup): this
	// Closes the popup previously opened with [openPopup](#map-openpopup) (or the given
	one).
	closePopup: function (popup) {
	if (!popup || popup === this._popup) {
		popup = this._popup;
		this._popup = null;
	}
	if (popup) {
		this.removeLayer(popup);
	}
	return this;
	}
});

/*
 * @namespace Layer
 * @section Popup methods example
```

```
 *
 * All layers share a set of methods convenient for binding popups to it.
 *
 * ```js
 * var layer = L.Polygon(latlngs).bindPopup('Hi There!').addTo(map);
 * layer.openPopup();
 * layer.closePopup();
 * ```
 *
 * Popups will also be automatically opened when the layer is clicked on and closed when the
        layer is removed from the map or another popup is opened.
 */

// @section Popup methods
Layer.include({

        // @method bindPopup(content: String|HTMLElement|Function|Popup, options?: Popup
        options): this
        // Binds a popup to the layer with the passed `content` and sets up the
        // necessary event listeners. If a `Function` is passed it will receive
        // the layer as the first argument and should return a `String` or `HTMLElement`.
        bindPopup: function (content, options) {

        if (content instanceof Popup) {
                setOptions(content, options);
                this._popup = content;
                content._source = this;
        } else {
                if (!this._popup || options) {
                        this._popup = new Popup(options, this);
                }
                this._popup.setContent(content);
        }

        if (!this._popupHandlersAdded) {
                this.on({
                        click: this._openPopup,
                        keypress: this._onKeyPress,
                        remove: this.closePopup,
                        move: this._movePopup
                });
                this._popupHandlersAdded = true;
        }

        return this;
        },
```

```
// @method unbindPopup(): this
// Removes the popup previously bound with `bindPopup`.
unbindPopup: function () {
if (this._popup) {
	this.off({
		click: this._openPopup,
		keypress: this._onKeyPress,
		remove: this.closePopup,
		move: this._movePopup
	});
	this._popupHandlersAdded = false;
	this._popup = null;
}
return this;
},

// @method openPopup(latlng?: LatLng): this
// Opens the bound popup at the specified `latlng` or at the default popup anchor if no
`latlng` is passed.
openPopup: function (layer, latlng) {
var this$1 = this;

if (!(layer instanceof Layer)) {
	latlng = layer;
	layer = this;
}

if (layer instanceof FeatureGroup) {
	for (var id in this$1._layers) {
		layer = this$1._layers[id];
		break;
	}
}

if (!latlng) {
	latlng = layer.getCenter ? layer.getCenter() : layer.getLatLng();
}

if (this._popup && this._map) {
	// set popup source to this layer
	this._popup._source = layer;

	// update the popup (content, layout, ect...)
	this._popup.update();
```

```
		// open the popup on the map
		this._map.openPopup(this._popup, latlng);
	}

	return this;
	},

	// @method closePopup(): this
	// Closes the popup bound to this layer if it is open.
	closePopup: function () {
		if (this._popup) {
			this._popup._close();
		}
		return this;
	},

	// @method togglePopup(): this
	// Opens or closes the popup bound to this layer depending on its current state.
	togglePopup: function (target) {
		if (this._popup) {
			if (this._popup._map) {
				this.closePopup();
			} else {
				this.openPopup(target);
			}
		}
		return this;
	},

	// @method isPopupOpen(): boolean
	// Returns `true` if the popup bound to this layer is currently open.
	isPopupOpen: function () {
		return (this._popup ? this._popup.isOpen() : false);
	},

	// @method setPopupContent(content: String|HTMLElement|Popup): this
	// Sets the content of the popup bound to this layer.
	setPopupContent: function (content) {
		if (this._popup) {
			this._popup.setContent(content);
		}
		return this;
	},

	// @method getPopup(): Popup
	// Returns the popup bound to this layer.
```

```
	getPopup: function () {
	return this._popup;
	},

	_openPopup: function (e) {
	var layer = e.layer || e.target;

	if (!this._popup) {
		return;
	}

	if (!this._map) {
		return;
	}

	// prevent map click
	stop(e);

	// if this inherits from Path its a vector and we can just
	// open the popup at the new location
	if (layer instanceof Path) {
		this.openPopup(e.layer || e.target, e.latlng);
		return;
	}

	// otherwise treat it like a marker and figure out
	// if we should toggle it open/closed
	if (this._map.hasLayer(this._popup) && this._popup._source === layer) {
		this.closePopup();
	} else {
		this.openPopup(layer, e.latlng);
	}
	},

	_movePopup: function (e) {
	this._popup.setLatLng(e.latlng);
	},

	_onKeyPress: function (e) {
	if (e.originalEvent.keyCode === 13) {
		this._openPopup(e);
	}
	}
});

/*
```

```
 * @class Tooltip
 * @inherits DivOverlay
 * @aka L.Tooltip
 * Used to display small texts on top of map layers.
 *
 * @example
 *
 * ```js
 * marker.bindTooltip("my tooltip text").openTooltip();
 * ```
 * Note about tooltip offset. Leaflet takes two options in consideration
 * for computing tooltip offsetting:
 * - the `offset` Tooltip option: it defaults to [0, 0], and it's specific to one tooltip.
 *   Add a positive x offset to move the tooltip to the right, and a positive y offset to
 *   move it to the bottom. Negatives will move to the left and top.
 * - the `tooltipAnchor` Icon option: this will only be considered for Marker. You
 *   should adapt this value if you use a custom icon.
 */


// @namespace Tooltip
var Tooltip = DivOverlay.extend({

	// @section
	// @aka Tooltip options
	options: {
	// @option pane: String = 'tooltipPane'
	// `Map pane` where the tooltip will be added.
	pane: 'tooltipPane',

	// @option offset: Point = Point(0, 0)
	// Optional offset of the tooltip position.
	offset: [0, 0],

	// @option direction: String = 'auto'
	// Direction where to open the tooltip. Possible values are: `right`, `left`,
	// `top`, `bottom`, `center`, `auto`.
	// `auto` will dynamically switch between `right` and `left` according to the tooltip
	// position on the map.
	direction: 'auto',

	// @option permanent: Boolean = false
	// Whether to open the tooltip permanently or only on mouseover.
	permanent: false,

	// @option sticky: Boolean = false
```

```
// If true, the tooltip will follow the mouse instead of being fixed at the feature center.
sticky: false,

// @option interactive: Boolean = false
// If true, the tooltip will listen to the feature events.
interactive: false,

// @option opacity: Number = 0.9
// Tooltip container opacity.
opacity: 0.9
},

onAdd: function (map) {
DivOverlay.prototype.onAdd.call(this, map);
this.setOpacity(this.options.opacity);

// @namespace Map
// @section Tooltip events
// @event tooltipopen: TooltipEvent
// Fired when a tooltip is opened in the map.
map.fire('tooltipopen', {tooltip: this});

if (this._source) {
        // @namespace Layer
        // @section Tooltip events
        // @event tooltipopen: TooltipEvent
        // Fired when a tooltip bound to this layer is opened.
        this._source.fire('tooltipopen', {tooltip: this}, true);
}
},

onRemove: function (map) {
DivOverlay.prototype.onRemove.call(this, map);

// @namespace Map
// @section Tooltip events
// @event tooltipclose: TooltipEvent
// Fired when a tooltip in the map is closed.
map.fire('tooltipclose', {tooltip: this});

if (this._source) {
        // @namespace Layer
        // @section Tooltip events
        // @event tooltipclose: TooltipEvent
        // Fired when a tooltip bound to this layer is closed.
        this._source.fire('tooltipclose', {tooltip: this}, true);
```

```
}
},

getEvents: function () {
var events = DivOverlay.prototype.getEvents.call(this);

if (touch && !this.options.permanent) {
	events.preclick = this._close;
}

return events;
},

_close: function () {
if (this._map) {
	this._map.closeTooltip(this);
}
},

_initLayout: function () {
var prefix = 'leaflet-tooltip',
   className = prefix + ' ' + (this.options.className || '') + ' leaflet-zoom-' +
(this._zoomAnimated ? 'animated' : 'hide');

this._contentNode = this._container = create$1('div', className);
},

_updateLayout: function () {},

_adjustPan: function () {},

_setPosition: function (pos) {
var map = this._map,
   container = this._container,
   centerPoint = map.latLngToContainerPoint(map.getCenter()),
   tooltipPoint = map.layerPointToContainerPoint(pos),
   direction = this.options.direction,
   tooltipWidth = container.offsetWidth,
   tooltipHeight = container.offsetHeight,
   offset = toPoint(this.options.offset),
   anchor = this._getAnchor();

if (direction === 'top') {
	pos = pos.add(toPoint(-tooltipWidth / 2 + offset.x, -tooltipHeight + offset.y +
anchor.y, true));
} else if (direction === 'bottom') {
```

```
        pos = pos.subtract(toPoint(tooltipWidth / 2 - offset.x, -offset.y, true));
} else if (direction === 'center') {
        pos = pos.subtract(toPoint(tooltipWidth / 2 + offset.x, tooltipHeight / 2 - anchor.y
+ offset.y, true));
} else if (direction === 'right' || direction === 'auto' && tooltipPoint.x < centerPoint.x) {
        direction = 'right';
        pos = pos.add(toPoint(offset.x + anchor.x, anchor.y - tooltipHeight / 2 + offset.y,
true));
} else {
        direction = 'left';
        pos = pos.subtract(toPoint(tooltipWidth + anchor.x - offset.x, tooltipHeight / 2 -
anchor.y - offset.y, true));
}

removeClass(container, 'leaflet-tooltip-right');
removeClass(container, 'leaflet-tooltip-left');
removeClass(container, 'leaflet-tooltip-top');
removeClass(container, 'leaflet-tooltip-bottom');
addClass(container, 'leaflet-tooltip-' + direction);
setPosition(container, pos);
},

_updatePosition: function () {
var pos = this._map.latLngToLayerPoint(this._latlng);
this._setPosition(pos);
},

setOpacity: function (opacity) {
this.options.opacity = opacity;

if (this._container) {
        setOpacity(this._container, opacity);
}
},

_animateZoom: function (e) {
var pos = this._map._latLngToNewLayerPoint(this._latlng, e.zoom, e.center);
this._setPosition(pos);
},

_getAnchor: function () {
// Where should we anchor the tooltip on the source layer?
return toPoint(this._source && this._source._getTooltipAnchor && !this.options.sticky ?
this._source._getTooltipAnchor() : [0, 0]);
}
```

```
});

// @namespace Tooltip
// @factory L.tooltip(options?: Tooltip options, source?: Layer)
// Instantiates a Tooltip object given an optional `options` object that describes its appearance
        and location and an optional `source` object that is used to tag the tooltip with a reference
        to the Layer to which it refers.
var tooltip = function (options, source) {
        return new Tooltip(options, source);
};

// @namespace Map
// @section Methods for Layers and Controls
Map.include({

        // @method openTooltip(tooltip: Tooltip): this
        // Opens the specified tooltip.
        // @alternative
        // @method openTooltip(content: String|HTMLElement, latlng: LatLng, options?:
        Tooltip options): this
        // Creates a tooltip with the specified content and options and open it.
        openTooltip: function (tooltip, latlng, options) {
        if (!(tooltip instanceof Tooltip)) {
                tooltip = new Tooltip(options).setContent(tooltip);
        }

        if (latlng) {
                tooltip.setLatLng(latlng);
        }

        if (this.hasLayer(tooltip)) {
                return this;
        }

        return this.addLayer(tooltip);
        },

        // @method closeTooltip(tooltip?: Tooltip): this
        // Closes the tooltip given as parameter.
        closeTooltip: function (tooltip) {
        if (tooltip) {
                this.removeLayer(tooltip);
        }
        return this;
        }
```

```
});

/*
 * @namespace Layer
 * @section Tooltip methods example
 *
 * All layers share a set of methods convenient for binding tooltips to it.
 *
 * ```js
 * var layer = L.Polygon(latlngs).bindTooltip('Hi There!').addTo(map);
 * layer.openTooltip();
 * layer.closeTooltip();
 * ```
 */

// @section Tooltip methods
Layer.include({

	// @method bindTooltip(content: String|HTMLElement|Function|Tooltip, options?:
	Tooltip options): this
	// Binds a tooltip to the layer with the passed `content` and sets up the
	// necessary event listeners. If a `Function` is passed it will receive
	// the layer as the first argument and should return a `String` or `HTMLElement`.
	bindTooltip: function (content, options) {

	if (content instanceof Tooltip) {
		setOptions(content, options);
		this._tooltip = content;
		content._source = this;
	} else {
		if (!this._tooltip || options) {
			this._tooltip = new Tooltip(options, this);
		}
		this._tooltip.setContent(content);

	}

	this._initTooltipInteractions();

	if (this._tooltip.options.permanent && this._map && this._map.hasLayer(this)) {
		this.openTooltip();
	}

	return this;
	},
```

```
// @method unbindTooltip(): this
// Removes the tooltip previously bound with `bindTooltip`.
unbindTooltip: function () {
if (this._tooltip) {
	this._initTooltipInteractions(true);
	this.closeTooltip();
	this._tooltip = null;
}
return this;
},

_initTooltipInteractions: function (remove$$1) {
if (!remove$$1 && this._tooltipHandlersAdded) { return; }
var onOff = remove$$1 ? 'off' : 'on',
   events = {
	remove: this.closeTooltip,
	move: this._moveTooltip
   };
if (!this._tooltip.options.permanent) {
	events.mouseover = this._openTooltip;
	events.mouseout = this.closeTooltip;
	if (this._tooltip.options.sticky) {
		events.mousemove = this._moveTooltip;
	}
	if (touch) {
		events.click = this._openTooltip;
	}
} else {
	events.add = this._openTooltip;
}
this[onOff](events);
this._tooltipHandlersAdded = !remove$$1;
},

// @method openTooltip(latlng?: LatLng): this
// Opens the bound tooltip at the specified `latlng` or at the default tooltip anchor if no
`latlng` is passed.
openTooltip: function (layer, latlng) {
var this$1 = this;

if (!(layer instanceof Layer)) {
	latlng = layer;
	layer = this;
}

if (layer instanceof FeatureGroup) {
```

```
		for (var id in this$1._layers) {
			layer = this$1._layers[id];
			break;
		}
}

if (!latlng) {
		latlng = layer.getCenter ? layer.getCenter() : layer.getLatLng();
}

if (this._tooltip && this._map) {

		// set tooltip source to this layer
		this._tooltip._source = layer;

		// update the tooltip (content, layout, ect...)
		this._tooltip.update();

		// open the tooltip on the map
		this._map.openTooltip(this._tooltip, latlng);

		// Tooltip container may not be defined if not permanent and never
		// opened.
		if (this._tooltip.options.interactive && this._tooltip._container) {
			addClass(this._tooltip._container, 'leaflet-clickable');
			this.addInteractiveTarget(this._tooltip._container);
		}
}

return this;
},

// @method closeTooltip(): this
// Closes the tooltip bound to this layer if it is open.
closeTooltip: function () {
if (this._tooltip) {
		this._tooltip._close();
		if (this._tooltip.options.interactive && this._tooltip._container) {
			removeClass(this._tooltip._container, 'leaflet-clickable');
			this.removeInteractiveTarget(this._tooltip._container);
		}
}
return this;
},

// @method toggleTooltip(): this
```

```
// Opens or closes the tooltip bound to this layer depending on its current state.
toggleTooltip: function (target) {
if (this._tooltip) {
	if (this._tooltip._map) {
		this.closeTooltip();
	} else {
		this.openTooltip(target);
	}
}
return this;
},

// @method isTooltipOpen(): boolean
// Returns `true` if the tooltip bound to this layer is currently open.
isTooltipOpen: function () {
return this._tooltip.isOpen();
},

// @method setTooltipContent(content: String|HTMLElement|Tooltip): this
// Sets the content of the tooltip bound to this layer.
setTooltipContent: function (content) {
if (this._tooltip) {
	this._tooltip.setContent(content);
}
return this;
},

// @method getTooltip(): Tooltip
// Returns the tooltip bound to this layer.
getTooltip: function () {
return this._tooltip;
},

_openTooltip: function (e) {
var layer = e.layer || e.target;

if (!this._tooltip || !this._map) {
	return;
}
this.openTooltip(layer, this._tooltip.options.sticky ? e.latlng : undefined);
},

_moveTooltip: function (e) {
var latlng = e.latlng, containerPoint, layerPoint;
if (this._tooltip.options.sticky && e.originalEvent) {
	containerPoint = this._map.mouseEventToContainerPoint(e.originalEvent);
```

```
                layerPoint = this._map.containerPointToLayerPoint(containerPoint);
                latlng = this._map.layerPointToLatLng(layerPoint);
        }
        this._tooltip.setLatLng(latlng);
        }
});

/*
 * @class DivIcon
 * @aka L.DivIcon
 * @inherits Icon
 *
 * Represents a lightweight icon for markers that uses a simple `<div>`
 * element instead of an image. Inherits from `Icon` but ignores the `iconUrl` and shadow
        options.
 *
 * @example
 * ```js
 * var myIcon = L.divIcon({className: 'my-div-icon'});
 * // you can set .my-div-icon styles in CSS
 *
 * L.marker([50.505, 30.57], {icon: myIcon}).addTo(map);
 * ```
 *
 * By default, it has a 'leaflet-div-icon' CSS class and is styled as a little white square with a
        shadow.
 */

var DivIcon = Icon.extend({
        options: {
        // @section
        // @aka DivIcon options
        iconSize: [12, 12], // also can be set through CSS

        // iconAnchor: (Point),
        // popupAnchor: (Point),

        // @option html: String = ''
        // Custom HTML code to put inside the div element, empty by default.
        html: false,

        // @option bgPos: Point = [0, 0]
        // Optional relative position of the background, in pixels
        bgPos: null,

        className: 'leaflet-div-icon'
```

```
	},

	createIcon: function (oldIcon) {
	var div = (oldIcon && oldIcon.tagName === 'DIV') ? oldIcon :
	document.createElement('div'),
	    options = this.options;

	div.innerHTML = options.html !== false ? options.html : '';

	if (options.bgPos) {
		var bgPos = toPoint(options.bgPos);
		div.style.backgroundPosition = (-bgPos.x) + 'px ' + (-bgPos.y) + 'px';
	}
	this._setIconStyles(div, 'icon');

	return div;
	},

	createShadow: function () {
	return null;
	}
});

// @factory L.divIcon(options: DivIcon options)
// Creates a `DivIcon` instance with the given options.
function divIcon(options) {
	return new DivIcon(options);
}

Icon.Default = IconDefault;

/*
 * @class GridLayer
 * @inherits Layer
 * @aka L.GridLayer
 *
 * Generic class for handling a tiled grid of HTML elements. This is the base class for all tile
	layers and replaces `TileLayer.Canvas`.
 * GridLayer can be extended to create a tiled grid of HTML elements like `<canvas>`, `<img>`
	or `<div>`. GridLayer will handle creating and animating these DOM elements for you.
 *
 *
 * @section Synchronous usage
 * @example
 *
```

```
* To create a custom layer, extend GridLayer and implement the `createTile()` method, which
        will be passed a `Point` object with the `x`, `y`, and `z` (zoom level) coordinates to draw
        your tile.
*
* ```js
* var CanvasLayer = L.GridLayer.extend({
*     createTile: function(coords){
*         // create a <canvas> element for drawing
*         var tile = L.DomUtil.create('canvas', 'leaflet-tile');
*
*         // setup tile width and height according to the options
*         var size = this.getTileSize();
*         tile.width = size.x;
*         tile.height = size.y;
*
*         // get a canvas context and draw something on it using coords.x, coords.y and coords.z
*         var ctx = tile.getContext('2d');
*
*         // return the tile so it can be rendered on screen
*         return tile;
*     }
* });
* ```
*
* @section Asynchronous usage
* @example
*
* Tile creation can also be asynchronous, this is useful when using a third-party drawing library.
        Once the tile is finished drawing it can be passed to the `done()` callback.
*
* ```js
* var CanvasLayer = L.GridLayer.extend({
*     createTile: function(coords, done){
*         var error;
*
*         // create a <canvas> element for drawing
*         var tile = L.DomUtil.create('canvas', 'leaflet-tile');
*
*         // setup tile width and height according to the options
*         var size = this.getTileSize();
*         tile.width = size.x;
*         tile.height = size.y;
*
*         // draw something asynchronously and pass the tile to the done() callback
*         setTimeout(function() {
*             done(error, tile);
```

```
 *         }, 1000);
 *
 *         return tile;
 *     }
 * });
 * ```
 *
 * @section
 */


var GridLayer = Layer.extend({

        // @section
        // @aka GridLayer options
        options: {
        // @option tileSize: Number|Point = 256
        // Width and height of tiles in the grid. Use a number if width and height are equal, or
        `L.point(width, height)` otherwise.
        tileSize: 256,

        // @option opacity: Number = 1.0
        // Opacity of the tiles. Can be used in the `createTile()` function.
        opacity: 1,

        // @option updateWhenIdle: Boolean = (depends)
        // Load new tiles only when panning ends.
        // `true` by default on mobile browsers, in order to avoid too many requests and keep
        smooth navigation.
        // `false` otherwise in order to display new tiles _during_ panning, since it is easy to pan
        outside the
        // [`keepBuffer`](#gridlayer-keepbuffer) option in desktop browsers.
        updateWhenIdle: mobile,

        // @option updateWhenZooming: Boolean = true
        // By default, a smooth zoom animation (during a [touch zoom](#map-touchzoom) or a
        [`flyTo()`](#map-flyto)) will update grid layers every integer zoom level. Setting this
        option to `false` will update the grid layer only when the smooth animation ends.
        updateWhenZooming: true,

        // @option updateInterval: Number = 200
        // Tiles will not update more than once every `updateInterval` milliseconds when
        panning.
        updateInterval: 200,

        // @option zIndex: Number = 1
```

```
// The explicit zIndex of the tile layer.
zIndex: 1,

// @option bounds: LatLngBounds = undefined
// If set, tiles will only be loaded inside the set `LatLngBounds`.
bounds: null,

// @option minZoom: Number = 0
// The minimum zoom level down to which this layer will be displayed (inclusive).
minZoom: 0,

// @option maxZoom: Number = undefined
// The maximum zoom level up to which this layer will be displayed (inclusive).
maxZoom: undefined,

// @option maxNativeZoom: Number = undefined
// Maximum zoom number the tile source has available. If it is specified,
// the tiles on all zoom levels higher than `maxNativeZoom` will be loaded
// from `maxNativeZoom` level and auto-scaled.
maxNativeZoom: undefined,

// @option minNativeZoom: Number = undefined
// Minimum zoom number the tile source has available. If it is specified,
// the tiles on all zoom levels lower than `minNativeZoom` will be loaded
// from `minNativeZoom` level and auto-scaled.
minNativeZoom: undefined,

// @option noWrap: Boolean = false
// Whether the layer is wrapped around the antimeridian. If `true`, the
// GridLayer will only be displayed once at low zoom levels. Has no
// effect when the [map CRS](#map-crs) doesn't wrap around. Can be used
// in combination with [`bounds`](#gridlayer-bounds) to prevent requesting
// tiles outside the CRS limits.
noWrap: false,

// @option pane: String = 'tilePane'
// `Map pane` where the grid layer will be added.
pane: 'tilePane',

// @option className: String = ''
// A custom class name to assign to the tile layer. Empty by default.
className: '',

// @option keepBuffer: Number = 2
// When panning the map, keep this many rows and columns of tiles before unloading
them.
```

```
keepBuffer: 2
},

initialize: function (options) {
setOptions(this, options);
},

onAdd: function () {
this._initContainer();

this._levels = {};
this._tiles = {};

this._resetView();
this._update();
},

beforeAdd: function (map) {
map._addZoomLimit(this);
},

onRemove: function (map) {
this._removeAllTiles();
remove(this._container);
map._removeZoomLimit(this);
this._container = null;
this._tileZoom = undefined;
},

// @method bringToFront: this
// Brings the tile layer to the top of all tile layers.
bringToFront: function () {
if (this._map) {
        toFront(this._container);
        this._setAutoZIndex(Math.max);
}
return this;
},

// @method bringToBack: this
// Brings the tile layer to the bottom of all tile layers.
bringToBack: function () {
if (this._map) {
        toBack(this._container);
        this._setAutoZIndex(Math.min);
}
```

```
return this;
},

// @method getContainer: HTMLElement
// Returns the HTML element that contains the tiles for this layer.
getContainer: function () {
return this._container;
},

// @method setOpacity(opacity: Number): this
// Changes the [opacity](#gridlayer-opacity) of the grid layer.
setOpacity: function (opacity) {
this.options.opacity = opacity;
this._updateOpacity();
return this;
},

// @method setZIndex(zIndex: Number): this
// Changes the [zIndex](#gridlayer-zindex) of the grid layer.
setZIndex: function (zIndex) {
this.options.zIndex = zIndex;
this._updateZIndex();

return this;
},

// @method isLoading: Boolean
// Returns `true` if any tile in the grid layer has not finished loading.
isLoading: function () {
return this._loading;
},

// @method redraw: this
// Causes the layer to clear all the tiles and request them again.
redraw: function () {
if (this._map) {
	this._removeAllTiles();
	this._update();
}
return this;
},

getEvents: function () {
var events = {
	viewprereset: this._invalidateAll,
	viewreset: this._resetView,
```

```
		zoom: this._resetView,
		moveend: this._onMoveEnd
};

if (!this.options.updateWhenIdle) {
		// update tiles on move, but not more often than once per given interval
		if (!this._onMove) {
			this._onMove = throttle(this._onMoveEnd, this.options.updateInterval,
this);
		}

		events.move = this._onMove;
}

if (this._zoomAnimated) {
		events.zoomanim = this._animateZoom;
}

return events;
},

// @section Extension methods
// Layers extending `GridLayer` shall reimplement the following method.
// @method createTile(coords: Object, done?: Function): HTMLElement
// Called only internally, must be overridden by classes extending `GridLayer`.
// Returns the `HTMLElement` corresponding to the given `coords`. If the `done`
callback
// is specified, it must be called when the tile has finished loading and drawing.
createTile: function () {
return document.createElement('div');
},

// @section
// @method getTileSize: Point
// Normalizes the [tileSize option](#gridlayer-tilesize) into a point. Used by the
`createTile()` method.
getTileSize: function () {
var s = this.options.tileSize;
return s instanceof Point ? s : new Point(s, s);
},

_updateZIndex: function () {
if (this._container && this.options.zIndex !== undefined && this.options.zIndex !==
null) {
		this._container.style.zIndex = this.options.zIndex;
}
```

```
},

_setAutoZIndex: function (compare) {
var this$1 = this;

// go through all other layers of the same pane, set zIndex to max + 1 (front) or min - 1
(back)

var layers = this.getPane().children,
   edgeZIndex = -compare(-Infinity, Infinity); // -Infinity for max, Infinity for min

for (var i = 0, len = layers.length, zIndex; i < len; i++) {

        zIndex = layers[i].style.zIndex;

        if (layers[i] !== this$1._container && zIndex) {
                edgeZIndex = compare(edgeZIndex, +zIndex);
        }
}

if (isFinite(edgeZIndex)) {
        this.options.zIndex = edgeZIndex + compare(-1, 1);
        this._updateZIndex();
}
},

_updateOpacity: function () {
var this$1 = this;

if (!this._map) { return; }

// IE doesn't inherit filter opacity properly, so we're forced to set it on tiles
if (ielt9) { return; }

setOpacity(this._container, this.options.opacity);

var now = +new Date(),
   nextFrame = false,
   willPrune = false;

for (var key in this$1._tiles) {
        var tile = this$1._tiles[key];
        if (!tile.current || !tile.loaded) { continue; }

        var fade = Math.min(1, (now - tile.loaded) / 200);
```

```
		setOpacity(tile.el, fade);
		if (fade < 1) {
			nextFrame = true;
		} else {
			if (tile.active) {
				willPrune = true;
			} else {
				this$1._onOpaqueTile(tile);
			}
			tile.active = true;
		}
}

if (willPrune && !this._noPrune) { this._pruneTiles(); }

if (nextFrame) {
		cancelAnimFrame(this._fadeFrame);
		this._fadeFrame = requestAnimFrame(this._updateOpacity, this);
}
},

_onOpaqueTile: falseFn,

_initContainer: function () {
if (this._container) { return; }

this._container = create$1('div', 'leaflet-layer ' + (this.options.className || ''));
this._updateZIndex();

if (this.options.opacity < 1) {
		this._updateOpacity();
}

this.getPane().appendChild(this._container);
},

_updateLevels: function () {
var this$1 = this;


var zoom = this._tileZoom,
   maxZoom = this.options.maxZoom;

if (zoom === undefined) { return undefined; }

for (var z in this$1._levels) {
```

```
        if (this$1._levels[z].el.children.length || z === zoom) {
                this$1._levels[z].el.style.zIndex = maxZoom - Math.abs(zoom - z);
                this$1._onUpdateLevel(z);
        } else {
                remove(this$1._levels[z].el);
                this$1._removeTilesAtZoom(z);
                this$1._onRemoveLevel(z);
                delete this$1._levels[z];
        }
}

var level = this._levels[zoom],
   map = this._map;

if (!level) {
        level = this._levels[zoom] = {};

        level.el = create$1('div', 'leaflet-tile-container leaflet-zoom-animated',
this._container);
        level.el.style.zIndex = maxZoom;

        level.origin = map.project(map.unproject(map.getPixelOrigin()), zoom).round();
        level.zoom = zoom;

        this._setZoomTransform(level, map.getCenter(), map.getZoom());

        // force the browser to consider the newly added element for transition
        falseFn(level.el.offsetWidth);

        this._onCreateLevel(level);
}

this._level = level;

return level;
},

_onUpdateLevel: falseFn,

_onRemoveLevel: falseFn,

_onCreateLevel: falseFn,

_pruneTiles: function () {
var this$1 = this;
```

```
if (!this._map) {
	return;
}

var key, tile;

var zoom = this._map.getZoom();
if (zoom > this.options.maxZoom ||
	zoom < this.options.minZoom) {
	this._removeAllTiles();
	return;
}

for (key in this$1._tiles) {
	tile = this$1._tiles[key];
	tile.retain = tile.current;
}

for (key in this$1._tiles) {
	tile = this$1._tiles[key];
	if (tile.current && !tile.active) {
		var coords = tile.coords;
		if (!this$1._retainParent(coords.x, coords.y, coords.z, coords.z - 5)) {
			this$1._retainChildren(coords.x, coords.y, coords.z, coords.z + 2);
		}
	}
}

for (key in this$1._tiles) {
	if (!this$1._tiles[key].retain) {
		this$1._removeTile(key);
	}
}
},

_removeTilesAtZoom: function (zoom) {
var this$1 = this;

for (var key in this$1._tiles) {
	if (this$1._tiles[key].coords.z !== zoom) {
		continue;
	}
	this$1._removeTile(key);
}
},
```

```
_removeAllTiles: function () {
var this$1 = this;

for (var key in this$1._tiles) {
        this$1._removeTile(key);
}
},

_invalidateAll: function () {
var this$1 = this;

for (var z in this$1._levels) {
        remove(this$1._levels[z].el);
        this$1._onRemoveLevel(z);
        delete this$1._levels[z];
}
this._removeAllTiles();

this._tileZoom = undefined;
},

_retainParent: function (x, y, z, minZoom) {
var x2 = Math.floor(x / 2),
   y2 = Math.floor(y / 2),
   z2 = z - 1,
   coords2 = new Point(+x2, +y2);
coords2.z = +z2;

var key = this._tileCoordsToKey(coords2),
   tile = this._tiles[key];

if (tile && tile.active) {
        tile.retain = true;
        return true;

} else if (tile && tile.loaded) {
        tile.retain = true;
}

if (z2 > minZoom) {
        return this._retainParent(x2, y2, z2, minZoom);
}

return false;
},
```

```
_retainChildren: function (x, y, z, maxZoom) {
var this$1 = this;


for (var i = 2 * x; i < 2 * x + 2; i++) {
        for (var j = 2 * y; j < 2 * y + 2; j++) {

                var coords = new Point(i, j);
                coords.z = z + 1;

                var key = this$1._tileCoordsToKey(coords),
                   tile = this$1._tiles[key];

                if (tile && tile.active) {
                        tile.retain = true;
                        continue;

                } else if (tile && tile.loaded) {
                        tile.retain = true;
                }

                if (z + 1 < maxZoom) {
                        this$1._retainChildren(i, j, z + 1, maxZoom);
                }
        }
}
},

_resetView: function (e) {
var animating = e && (e.pinch || e.flyTo);
this._setView(this._map.getCenter(), this._map.getZoom(), animating, animating);
},

_animateZoom: function (e) {
this._setView(e.center, e.zoom, true, e.noUpdate);
},

_clampZoom: function (zoom) {
var options = this.options;

if (undefined !== options.minNativeZoom && zoom < options.minNativeZoom) {
        return options.minNativeZoom;
}

if (undefined !== options.maxNativeZoom && options.maxNativeZoom < zoom) {
        return options.maxNativeZoom;
```

```
}

return zoom;
},

_setView: function (center, zoom, noPrune, noUpdate) {
var tileZoom = this._clampZoom(Math.round(zoom));
if ((this.options.maxZoom !== undefined && tileZoom > this.options.maxZoom) ||
    (this.options.minZoom !== undefined && tileZoom < this.options.minZoom)) {
        tileZoom = undefined;
}

var tileZoomChanged = this.options.updateWhenZooming && (tileZoom !==
this._tileZoom);

if (!noUpdate || tileZoomChanged) {

        this._tileZoom = tileZoom;

        if (this._abortLoading) {
                this._abortLoading();
        }

        this._updateLevels();
        this._resetGrid();

        if (tileZoom !== undefined) {
                this._update(center);
        }

        if (!noPrune) {
                this._pruneTiles();
        }

        // Flag to prevent _updateOpacity from pruning tiles during
        // a zoom anim or a pinch gesture
        this._noPrune = !!noPrune;
}

this._setZoomTransforms(center, zoom);
},

_setZoomTransforms: function (center, zoom) {
var this$1 = this;

for (var i in this$1._levels) {
```

```
            this$1._setZoomTransform(this$1._levels[i], center, zoom);
}
},

_setZoomTransform: function (level, center, zoom) {
var scale = this._map.getZoomScale(zoom, level.zoom),
    translate = level.origin.multiplyBy(scale)
        .subtract(this._map._getNewPixelOrigin(center, zoom)).round();

if (any3d) {
            setTransform(level.el, translate, scale);
} else {
            setPosition(level.el, translate);
}
},

_resetGrid: function () {
var map = this._map,
    crs = map.options.crs,
    tileSize = this._tileSize = this.getTileSize(),
    tileZoom = this._tileZoom;

var bounds = this._map.getPixelWorldBounds(this._tileZoom);
if (bounds) {
            this._globalTileRange = this._pxBoundsToTileRange(bounds);
}

this._wrapX = crs.wrapLng && !this.options.noWrap && [
            Math.floor(map.project([0, crs.wrapLng[0]], tileZoom).x / tileSize.x),
            Math.ceil(map.project([0, crs.wrapLng[1]], tileZoom).x / tileSize.y)
];
this._wrapY = crs.wrapLat && !this.options.noWrap && [
            Math.floor(map.project([crs.wrapLat[0], 0], tileZoom).y / tileSize.x),
            Math.ceil(map.project([crs.wrapLat[1], 0], tileZoom).y / tileSize.y)
];
},

_onMoveEnd: function () {
if (!this._map || this._map._animatingZoom) { return; }

this._update();
},

_getTiledPixelBounds: function (center) {
var map = this._map,
```

```
    mapZoom = map._animatingZoom ? Math.max(map._animateToZoom,
map.getZoom()) : map.getZoom(),
    scale = map.getZoomScale(mapZoom, this._tileZoom),
    pixelCenter = map.project(center, this._tileZoom).floor(),
    halfSize = map.getSize().divideBy(scale * 2);

return new Bounds(pixelCenter.subtract(halfSize), pixelCenter.add(halfSize));
},

// Private method to load tiles in the grid's active zoom level according to map bounds
_update: function (center) {
var this$1 = this;

var map = this._map;
if (!map) { return; }
var zoom = this._clampZoom(map.getZoom());

if (center === undefined) { center = map.getCenter(); }
if (this._tileZoom === undefined) { return; }// if out of minzoom/maxzoom

var pixelBounds = this._getTiledPixelBounds(center),
    tileRange = this._pxBoundsToTileRange(pixelBounds),
    tileCenter = tileRange.getCenter(),
    queue = [],
    margin = this.options.keepBuffer,
    noPruneRange = new Bounds(tileRange.getBottomLeft().subtract([margin, -margin]),
                        tileRange.getTopRight().add([margin, -margin]));

// Sanity check: panic if the tile range contains Infinity somewhere.
if (!(isFinite(tileRange.min.x) &&
      isFinite(tileRange.min.y) &&
      isFinite(tileRange.max.x) &&
      isFinite(tileRange.max.y))) { throw new Error('Attempted to load an infinite number
of tiles'); }

for (var key in this$1._tiles) {
          var c = this$1._tiles[key].coords;
          if (c.z !== this$1._tileZoom || !noPruneRange.contains(new Point(c.x, c.y))) {
                    this$1._tiles[key].current = false;
          }
}

// _update just loads more tiles. If the tile zoom level differs too much
// from the map's, let _setView reset levels and prune old tiles.
if (Math.abs(zoom - this._tileZoom) > 1) { this._setView(center, zoom); return; }
```

```
// create a queue of coordinates to load tiles from
for (var j = tileRange.min.y; j <= tileRange.max.y; j++) {
	for (var i = tileRange.min.x; i <= tileRange.max.x; i++) {
		var coords = new Point(i, j);
		coords.z = this$1._tileZoom;

		if (!this$1._isValidTile(coords)) { continue; }

		var tile = this$1._tiles[this$1._tileCoordsToKey(coords)];
		if (tile) {
			tile.current = true;
		} else {
			queue.push(coords);
		}
	}
}

// sort tile queue to load tiles in order of their distance to center
queue.sort(function (a, b) {
	return a.distanceTo(tileCenter) - b.distanceTo(tileCenter);
});

if (queue.length !== 0) {
	// if it's the first batch of tiles to load
	if (!this._loading) {
		this._loading = true;
		// @event loading: Event
		// Fired when the grid layer starts loading tiles.
		this.fire('loading');
	}

	// create DOM fragment to append tiles in one batch
	var fragment = document.createDocumentFragment();

	for (i = 0; i < queue.length; i++) {
		this$1._addTile(queue[i], fragment);
	}

	this._level.el.appendChild(fragment);
}
},

_isValidTile: function (coords) {
var crs = this._map.options.crs;

if (!crs.infinite) {
```

```
        // don't load tile if it's out of bounds and not wrapped
        var bounds = this._globalTileRange;
        if ((!crs.wrapLng && (coords.x < bounds.min.x || coords.x > bounds.max.x)) ||
            (!crs.wrapLat && (coords.y < bounds.min.y || coords.y > bounds.max.y)))
{ return false; }
}

if (!this.options.bounds) { return true; }

// don't load tile if it doesn't intersect the bounds in options
var tileBounds = this._tileCoordsToBounds(coords);
return toLatLngBounds(this.options.bounds).overlaps(tileBounds);
},

_keyToBounds: function (key) {
return this._tileCoordsToBounds(this._keyToTileCoords(key));
},

_tileCoordsToNwSe: function (coords) {
var map = this._map,
    tileSize = this.getTileSize(),
    nwPoint = coords.scaleBy(tileSize),
    sePoint = nwPoint.add(tileSize),
    nw = map.unproject(nwPoint, coords.z),
    se = map.unproject(sePoint, coords.z);
return [nw, se];
},

// converts tile coordinates to its geographical bounds
_tileCoordsToBounds: function (coords) {
var bp = this._tileCoordsToNwSe(coords),
    bounds = new LatLngBounds(bp[0], bp[1]);

if (!this.options.noWrap) {
        bounds = this._map.wrapLatLngBounds(bounds);
}
return bounds;
},
// converts tile coordinates to key for the tile cache
_tileCoordsToKey: function (coords) {
return coords.x + ':' + coords.y + ':' + coords.z;
},

// converts tile cache key to coordinates
_keyToTileCoords: function (key) {
var k = key.split(':'),
```

```
    coords = new Point(+k[0], +k[1]);
coords.z = +k[2];
return coords;
},

_removeTile: function (key) {
var tile = this._tiles[key];
if (!tile) { return; }

// Cancels any pending http requests associated with the tile
// unless we're on Android's stock browser,
// see https://github.com/Leaflet/Leaflet/issues/137
if (!androidStock) {
        tile.el.setAttribute('src', emptyImageUrl);
}
remove(tile.el);

delete this._tiles[key];

// @event tileunload: TileEvent
// Fired when a tile is removed (e.g. when a tile goes off the screen).
this.fire('tileunload', {
        tile: tile.el,
        coords: this._keyToTileCoords(key)
});
},

_initTile: function (tile) {
addClass(tile, 'leaflet-tile');

var tileSize = this.getTileSize();
tile.style.width = tileSize.x + 'px';
tile.style.height = tileSize.y + 'px';

tile.onselectstart = falseFn;
tile.onmousemove = falseFn;

// update opacity on tiles in IE7-8 because of filter inheritance problems
if (ielt9 && this.options.opacity < 1) {
        setOpacity(tile, this.options.opacity);
}

// without this hack, tiles disappear after zoom on Chrome for Android
// https://github.com/Leaflet/Leaflet/issues/2078
if (android && !android23) {
        tile.style.WebkitBackfaceVisibility = 'hidden';
```

```
}
},

_addTile: function (coords, container) {
var tilePos = this._getTilePos(coords),
    key = this._tileCoordsToKey(coords);

var tile = this.createTile(this._wrapCoords(coords), bind(this._tileReady, this, coords));

this._initTile(tile);

// if createTile is defined with a second argument ("done" callback),
// we know that tile is async and will be ready later; otherwise
if (this.createTile.length < 2) {
        // mark tile as ready, but delay one frame for opacity animation to happen
        requestAnimFrame(bind(this._tileReady, this, coords, null, tile));
}

setPosition(tile, tilePos);

// save tile in cache
this._tiles[key] = {
        el: tile,
        coords: coords,
        current: true
};

container.appendChild(tile);
// @event tileloadstart: TileEvent
// Fired when a tile is requested and starts loading.
this.fire('tileloadstart', {
        tile: tile,
        coords: coords
});
},

_tileReady: function (coords, err, tile) {
if (!this._map) { return; }

if (err) {
        // @event tileerror: TileErrorEvent
        // Fired when there is an error loading a tile.
        this.fire('tileerror', {
                error: err,
                tile: tile,
                coords: coords
```

```
		});
}

var key = this._tileCoordsToKey(coords);

tile = this._tiles[key];
if (!tile) { return; }

tile.loaded = +new Date();
if (this._map._fadeAnimated) {
		setOpacity(tile.el, 0);
		cancelAnimFrame(this._fadeFrame);
		this._fadeFrame = requestAnimFrame(this._updateOpacity, this);
} else {
		tile.active = true;
		this._pruneTiles();
}

if (!err) {
		addClass(tile.el, 'leaflet-tile-loaded');

		// @event tileload: TileEvent
		// Fired when a tile loads.
		this.fire('tileload', {
			tile: tile.el,
			coords: coords
		});
}

if (this._noTilesToLoad()) {
		this._loading = false;
		// @event load: Event
		// Fired when the grid layer loaded all visible tiles.
		this.fire('load');

		if (ielt9 || !this._map._fadeAnimated) {
			requestAnimFrame(this._pruneTiles, this);
		} else {
			// Wait a bit more than 0.2 secs (the duration of the tile fade-in)
			// to trigger a pruning.
			setTimeout(bind(this._pruneTiles, this), 250);
		}
}
},

_getTilePos: function (coords) {
```

```
	return coords.scaleBy(this.getTileSize()).subtract(this._level.origin);
	},

	_wrapCoords: function (coords) {
	var newCoords = new Point(
		this._wrapX ? wrapNum(coords.x, this._wrapX) : coords.x,
		this._wrapY ? wrapNum(coords.y, this._wrapY) : coords.y);
	newCoords.z = coords.z;
	return newCoords;
	},

	_pxBoundsToTileRange: function (bounds) {
	var tileSize = this.getTileSize();
	return new Bounds(
		bounds.min.unscaleBy(tileSize).floor(),
		bounds.max.unscaleBy(tileSize).ceil().subtract([1, 1]));
	},

	_noTilesToLoad: function () {
	var this$1 = this;

	for (var key in this$1._tiles) {
		if (!this$1._tiles[key].loaded) { return false; }
	}
	return true;
	}
});

// @factory L.gridLayer(options?: GridLayer options)
// Creates a new instance of GridLayer with the supplied options.
function gridLayer(options) {
	return new GridLayer(options);
}

/*
 * @class TileLayer
 * @inherits GridLayer
 * @aka L.TileLayer
 * Used to load and display tile layers on the map. Extends `GridLayer`.
 *
 * @example
 *
 * ```js
 * L.tileLayer('http://{s}.tile.openstreetmap.org/{z}/{x}/{y}.png?{foo}', {foo:
	'bar'}).addTo(map);
 * ```
```

```
 *
 * @section URL template
 * @example
 *
 * A string of the following form:
 *
 * ```
 * 'http://{s}.somedomain.com/blabla/{z}/{x}/{y}{r}.png'
 * ```
 *
 * `{s}` means one of the available subdomains (used sequentially to help with browser parallel
        requests per domain limitation; subdomain values are specified in options; `a`, `b` or `c`
        by default, can be omitted), `{z}` — zoom level, `{x}` and `{y}` — tile coordinates. `{r}`
        can be used to add "&commat;2x" to the URL to load retina tiles.
 *
 * You can use custom keys in the template, which will be [evaluated](#util-template) from
        TileLayer options, like this:
 *
 * ```
 * L.tileLayer('http://{s}.somedomain.com/{foo}/{z}/{x}/{y}.png', {foo: 'bar'});
 * ```
 */


var TileLayer = GridLayer.extend({

        // @section
        // @aka TileLayer options
        options: {
        // @option minZoom: Number = 0
        // The minimum zoom level down to which this layer will be displayed (inclusive).
        minZoom: 0,

        // @option maxZoom: Number = 18
        // The maximum zoom level up to which this layer will be displayed (inclusive).
        maxZoom: 18,

        // @option subdomains: String|String[] = 'abc'
        // Subdomains of the tile service. Can be passed in the form of one string (where each
        letter is a subdomain name) or an array of strings.
        subdomains: 'abc',

        // @option errorTileUrl: String = ''
        // URL to the tile image to show in place of the tile that failed to load.
        errorTileUrl: '',
```

```
// @option zoomOffset: Number = 0
// The zoom number used in tile URLs will be offset with this value.
zoomOffset: 0,

// @option tms: Boolean = false
// If `true`, inverses Y axis numbering for tiles (turn this on for
[TMS](https://en.wikipedia.org/wiki/Tile_Map_Service) services).
tms: false,

// @option zoomReverse: Boolean = false
// If set to true, the zoom number used in tile URLs will be reversed (`maxZoom - zoom`
instead of `zoom`)
zoomReverse: false,

// @option detectRetina: Boolean = false
// If `true` and user is on a retina display, it will request four tiles of half the specified size
and a bigger zoom level in place of one to utilize the high resolution.
detectRetina: false,

// @option crossOrigin: Boolean = false
// If true, all tiles will have their crossOrigin attribute set to ". This is needed if you want
to access tile pixel data.
crossOrigin: false
},

initialize: function (url, options) {

this._url = url;

options = setOptions(this, options);

// detecting retina displays, adjusting tileSize and zoom levels
if (options.detectRetina && retina && options.maxZoom > 0) {

        options.tileSize = Math.floor(options.tileSize / 2);

        if (!options.zoomReverse) {
                options.zoomOffset++;
                options.maxZoom--;
        } else {
                options.zoomOffset--;
                options.minZoom++;
        }

        options.minZoom = Math.max(0, options.minZoom);
}
```

```
if (typeof options.subdomains === 'string') {
	options.subdomains = options.subdomains.split('');
}

// for https://github.com/Leaflet/Leaflet/issues/137
if (!android) {
	this.on('tileunload', this._onTileRemove);
}
},

// @method setUrl(url: String, noRedraw?: Boolean): this
// Updates the layer's URL template and redraws it (unless `noRedraw` is set to `true`).
setUrl: function (url, noRedraw) {
this._url = url;

if (!noRedraw) {
	this.redraw();
}
return this;
},

// @method createTile(coords: Object, done?: Function): HTMLElement
// Called only internally, overrides GridLayer's [`createTile()`](#gridlayer-createtile)
// to return an `<img>` HTML element with the appropriate image URL given `coords`.
The `done`
// callback is called when the tile has been loaded.
createTile: function (coords, done) {
var tile = document.createElement('img');

on(tile, 'load', bind(this._tileOnLoad, this, done, tile));
on(tile, 'error', bind(this._tileOnError, this, done, tile));

if (this.options.crossOrigin) {
	tile.crossOrigin = '';
}

/*
 Alt tag is set to empty string to keep screen readers from reading URL and for
compliance reasons
 http://www.w3.org/TR/WCAG20-TECHS/H67
*/
tile.alt = '';

/*
 Set role="presentation" to force screen readers to ignore this
```

```
 https://www.w3.org/TR/wai-aria/roles#textalternativecomputation
*/
tile.setAttribute('role', 'presentation');

tile.src = this.getTileUrl(coords);

return tile;
},

// @section Extension methods
// @uninheritable
// Layers extending `TileLayer` might reimplement the following method.
// @method getTileUrl(coords: Object): String
// Called only internally, returns the URL for a tile given its coordinates.
// Classes extending `TileLayer` can override this function to provide custom tile URL
naming schemes.
getTileUrl: function (coords) {
var data = {
	r: retina ? '@2x' : '',
	s: this._getSubdomain(coords),
	x: coords.x,
	y: coords.y,
	z: this._getZoomForUrl()
};
if (this._map && !this._map.options.crs.infinite) {
	var invertedY = this._globalTileRange.max.y - coords.y;
	if (this.options.tms) {
		data['y'] = invertedY;
	}
	data['-y'] = invertedY;
}

return template(this._url, extend(data, this.options));
},

_tileOnLoad: function (done, tile) {
// For https://github.com/Leaflet/Leaflet/issues/3332
if (ielt9) {
	setTimeout(bind(done, this, null, tile), 0);
} else {
	done(null, tile);
}
},

_tileOnError: function (done, tile, e) {
var errorUrl = this.options.errorTileUrl;
```

```
if (errorUrl && tile.getAttribute('src') !== errorUrl) {
	tile.src = errorUrl;
}
done(e, tile);
},

_onTileRemove: function (e) {
e.tile.onload = null;
},

_getZoomForUrl: function () {
var zoom = this._tileZoom,
maxZoom = this.options.maxZoom,
zoomReverse = this.options.zoomReverse,
zoomOffset = this.options.zoomOffset;

if (zoomReverse) {
	zoom = maxZoom - zoom;
}

return zoom + zoomOffset;
},

_getSubdomain: function (tilePoint) {
var index = Math.abs(tilePoint.x + tilePoint.y) % this.options.subdomains.length;
return this.options.subdomains[index];
},

// stops loading all tiles in the background layer
_abortLoading: function () {
var this$1 = this;

var i, tile;
for (i in this$1._tiles) {
	if (this$1._tiles[i].coords.z !== this$1._tileZoom) {
		tile = this$1._tiles[i].el;

		tile.onload = falseFn;
		tile.onerror = falseFn;

		if (!tile.complete) {
			tile.src = emptyImageUrl;
			remove(tile);
			delete this$1._tiles[i];
		}
	}
```

```
        }
        }
});


// @factory L.tilelayer(urlTemplate: String, options?: TileLayer options)
// Instantiates a tile layer object given a `URL template` and optionally an options object.

function tileLayer(url, options) {
        return new TileLayer(url, options);
}

/*
 * @class TileLayer.WMS
 * @inherits TileLayer
 * @aka L.TileLayer.WMS
 * Used to display [WMS](https://en.wikipedia.org/wiki/Web_Map_Service) services as tile
        layers on the map. Extends `TileLayer`.
 *
 * @example
 *
 * ```js
 * var nexrad = L.tileLayer.wms("http://mesonet.agron.iastate.edu/cgi-bin/wms/nexrad/n0r.cgi",
        {
 *      layers: 'nexrad-n0r-900913',
 *      format: 'image/png',
 *      transparent: true,
 *      attribution: "Weather data © 2012 IEM Nexrad"
 * });
 * ```
 */

var TileLayerWMS = TileLayer.extend({

        // @section
        // @aka TileLayer.WMS options
        // If any custom options not documented here are used, they will be sent to the
        // WMS server as extra parameters in each request URL. This can be useful for
        // [non-standard vendor WMS
        parameters](http://docs.geoserver.org/stable/en/user/services/wms/vendor.html).
        defaultWmsParams: {
        service: 'WMS',
        request: 'GetMap',

        // @option layers: String = ''
        // **(required)** Comma-separated list of WMS layers to show.
```

```
layers: '',

// @option styles: String = ''
// Comma-separated list of WMS styles.
styles: '',

// @option format: String = 'image/jpeg'
// WMS image format (use ``'image/png'` for layers with transparency).
format: 'image/jpeg',

// @option transparent: Boolean = false
// If `true`, the WMS service will return images with transparency.
transparent: false,

// @option version: String = '1.1.1'
// Version of the WMS service to use
version: '1.1.1'
},

options: {
// @option crs: CRS = null
// Coordinate Reference System to use for the WMS requests, defaults to
// map CRS. Don't change this if you're not sure what it means.
crs: null,

// @option uppercase: Boolean = false
// If `true`, WMS request parameter keys will be uppercase.
uppercase: false
},

initialize: function (url, options) {
var this$1 = this;


this._url = url;

var wmsParams = extend({}, this.defaultWmsParams);

// all keys that are not TileLayer options go to WMS params
for (var i in options) {
	if (!(i in this$1.options)) {
		wmsParams[i] = options[i];
	}
}

options = setOptions(this, options);
```

```
var realRetina = options.detectRetina && retina ? 2 : 1;
var tileSize = this.getTileSize();
wmsParams.width = tileSize.x * realRetina;
wmsParams.height = tileSize.y * realRetina;

this.wmsParams = wmsParams;
},

onAdd: function (map) {

this._crs = this.options.crs || map.options.crs;
this._wmsVersion = parseFloat(this.wmsParams.version);

var projectionKey = this._wmsVersion >= 1.3 ? 'crs' : 'srs';
this.wmsParams[projectionKey] = this._crs.code;

TileLayer.prototype.onAdd.call(this, map);
},

getTileUrl: function (coords) {

var tileBounds = this._tileCoordsToNwSe(coords),
   crs = this._crs,
   bounds = toBounds(crs.project(tileBounds[0]), crs.project(tileBounds[1])),
   min = bounds.min,
   max = bounds.max,
   bbox = (this._wmsVersion >= 1.3 && this._crs === EPSG4326 ?
   [min.y, min.x, max.y, max.x] :
   [min.x, min.y, max.x, max.y]).join(','),
url = L.TileLayer.prototype.getTileUrl.call(this, coords);
return url +
        getParamString(this.wmsParams, url, this.options.uppercase) +
        (this.options.uppercase ? '&BBOX=' : '&bbox=') + bbox;
},

// @method setParams(params: Object, noRedraw?: Boolean): this
// Merges an object with the new parameters and re-requests tiles on the current screen
(unless `noRedraw` was set to true).
setParams: function (params, noRedraw) {

extend(this.wmsParams, params);

if (!noRedraw) {
        this.redraw();
}
```

```
		return this;
		}
});


// @factory L.tileLayer.wms(baseUrl: String, options: TileLayer.WMS options)
// Instantiates a WMS tile layer object given a base URL of the WMS service and a WMS
		parameters/options object.
function tileLayerWMS(url, options) {
		return new TileLayerWMS(url, options);
}

TileLayer.WMS = TileLayerWMS;
tileLayer.wms = tileLayerWMS;

/*
 * @class Renderer
 * @inherits Layer
 * @aka L.Renderer
 *
 * Base class for vector renderer implementations (`SVG`, `Canvas`). Handles the
 * DOM container of the renderer, its bounds, and its zoom animation.
 *
 * A `Renderer` works as an implicit layer group for all `Path`s - the renderer
 * itself can be added or removed to the map. All paths use a renderer, which can
 * be implicit (the map will decide the type of renderer and use it automatically)
 * or explicit (using the [`renderer`](#path-renderer) option of the path).
 *
 * Do not use this class directly, use `SVG` and `Canvas` instead.
 *
 * @event update: Event
 * Fired when the renderer updates its bounds, center and zoom, for example when
 * its map has moved
 */

var Renderer = Layer.extend({

		// @section
		// @aka Renderer options
		options: {
		// @option padding: Number = 0.1
		// How much to extend the clip area around the map view (relative to its size)
		// e.g. 0.1 would be 10% of map view in each direction
		padding: 0.1,
```

```
// @option tolerance: Number = 0
// How much to extend click tolerance round a path/object on the map
tolerance : 0
},

initialize: function (options) {
setOptions(this, options);
stamp(this);
this._layers = this._layers || {};
},

onAdd: function () {
if (!this._container) {
	this._initContainer(); // defined by renderer implementations

	if (this._zoomAnimated) {
		addClass(this._container, 'leaflet-zoom-animated');
	}
}

this.getPane().appendChild(this._container);
this._update();
this.on('update', this._updatePaths, this);
},

onRemove: function () {
this.off('update', this._updatePaths, this);
this._destroyContainer();
},

getEvents: function () {
var events = {
	viewreset: this._reset,
	zoom: this._onZoom,
	moveend: this._update,
	zoomend: this._onZoomEnd
};
if (this._zoomAnimated) {
	events.zoomanim = this._onAnimZoom;
}
return events;
},

_onAnimZoom: function (ev) {
this._updateTransform(ev.center, ev.zoom);
},
```

```
_onZoom: function () {
this._updateTransform(this._map.getCenter(), this._map.getZoom());
},

_updateTransform: function (center, zoom) {
var scale = this._map.getZoomScale(zoom, this._zoom),
    position = getPosition(this._container),
    viewHalf = this._map.getSize().multiplyBy(0.5 + this.options.padding),
    currentCenterPoint = this._map.project(this._center, zoom),
    destCenterPoint = this._map.project(center, zoom),
    centerOffset = destCenterPoint.subtract(currentCenterPoint),

    topLeftOffset = viewHalf.multiplyBy(-
scale).add(position).add(viewHalf).subtract(centerOffset);

if (any3d) {
        setTransform(this._container, topLeftOffset, scale);
} else {
        setPosition(this._container, topLeftOffset);
}
},

_reset: function () {
var this$1 = this;

this._update();
this._updateTransform(this._center, this._zoom);

for (var id in this$1._layers) {
        this$1._layers[id]._reset();
}
},

_onZoomEnd: function () {
var this$1 = this;

for (var id in this$1._layers) {
        this$1._layers[id]._project();
}
},

_updatePaths: function () {
var this$1 = this;

for (var id in this$1._layers) {
```

```
                this$1._layers[id]._update();
        }
        },

        _update: function () {
        // Update pixel bounds of renderer container (for positioning/sizing/clipping later)
        // Subclasses are responsible of firing the 'update' event.
        var p = this.options.padding,
            size = this._map.getSize(),
            min = this._map.containerPointToLayerPoint(size.multiplyBy(-p)).round();

        this._bounds = new Bounds(min, min.add(size.multiplyBy(1 + p * 2)).round());

        this._center = this._map.getCenter();
        this._zoom = this._map.getZoom();
        }
});

/*
 * @class Canvas
 * @inherits Renderer
 * @aka L.Canvas
 *
 * Allows vector layers to be displayed with
        [`<canvas>`](https://developer.mozilla.org/docs/Web/API/Canvas_API).
 * Inherits `Renderer`.
 *
 * Due to [technical limitations](http://caniuse.com/#search=canvas), Canvas is not
 * available in all web browsers, notably IE8, and overlapping geometries might
 * not display properly in some edge cases.
 *
 * @example
 *
 * Use Canvas by default for all paths in the map:
 *
 * ```js
 * var map = L.map('map', {
 *        renderer: L.canvas()
 * });
 * ```
 *
 * Use a Canvas renderer with extra padding for specific vector geometries:
 *
 * ```js
 * var map = L.map('map');
 * var myRenderer = L.canvas({ padding: 0.5 });
```

```
 * var line = L.polyline( coordinates, { renderer: myRenderer } );
 * var circle = L.circle( center, { renderer: myRenderer } );
 * ```
 */

var Canvas = Renderer.extend({
	getEvents: function () {
	var events = Renderer.prototype.getEvents.call(this);
	events.viewprereset = this._onViewPreReset;
	return events;
	},

	_onViewPreReset: function () {
	// Set a flag so that a viewprereset+moveend+viewreset only updates&redraws once
	this._postponeUpdatePaths = true;
	},

	onAdd: function () {
	Renderer.prototype.onAdd.call(this);

	// Redraw vectors since canvas is cleared upon removal,
	// in case of removing the renderer itself from the map.
	this._draw();
	},

	_initContainer: function () {
	var container = this._container = document.createElement('canvas');

	on(container, 'mousemove', throttle(this._onMouseMove, 32, this), this);
	on(container, 'click dblclick mousedown mouseup contextmenu', this._onClick, this);
	on(container, 'mouseout', this._handleMouseOut, this);

	this._ctx = container.getContext('2d');
	},

	_destroyContainer: function () {
	delete this._ctx;
	remove(this._container);
	off(this._container);
	delete this._container;
	},

	_updatePaths: function () {
	var this$1 = this;

	if (this._postponeUpdatePaths) { return; }
```

```
var layer;
this._redrawBounds = null;
for (var id in this$1._layers) {
        layer = this$1._layers[id];
        layer._update();
}
this._redraw();
},

_update: function () {
if (this._map._animatingZoom && this._bounds) { return; }

this._drawnLayers = {};

Renderer.prototype._update.call(this);

var b = this._bounds,
   container = this._container,
   size = b.getSize(),
   m = retina ? 2 : 1;

setPosition(container, b.min);

// set canvas size (also clearing it); use double size on retina
container.width = m * size.x;
container.height = m * size.y;
container.style.width = size.x + 'px';
container.style.height = size.y + 'px';

if (retina) {
        this._ctx.scale(2, 2);
}

// translate so we use the same path coordinates after canvas element moves
this._ctx.translate(-b.min.x, -b.min.y);

// Tell paths to redraw themselves
this.fire('update');
},

_reset: function () {
Renderer.prototype._reset.call(this);

if (this._postponeUpdatePaths) {
        this._postponeUpdatePaths = false;
```

```
        this._updatePaths();
}
},

_initPath: function (layer) {
this._updateDashArray(layer);
this._layers[stamp(layer)] = layer;

var order = layer._order = {
        layer: layer,
        prev: this._drawLast,
        next: null
};
if (this._drawLast) { this._drawLast.next = order; }
this._drawLast = order;
this._drawFirst = this._drawFirst || this._drawLast;
},

_addPath: function (layer) {
this._requestRedraw(layer);
},

_removePath: function (layer) {
var order = layer._order;
var next = order.next;
var prev = order.prev;

if (next) {
        next.prev = prev;
} else {
        this._drawLast = prev;
}
if (prev) {
        prev.next = next;
} else {
        this._drawFirst = next;
}

delete layer._order;

delete this._layers[L.stamp(layer)];

this._requestRedraw(layer);
},

_updatePath: function (layer) {
```

```
// Redraw the union of the layer's old pixel
// bounds and the new pixel bounds.
this._extendRedrawBounds(layer);
layer._project();
layer._update();
// The redraw will extend the redraw bounds
// with the new pixel bounds.
this._requestRedraw(layer);
},

_updateStyle: function (layer) {
this._updateDashArray(layer);
this._requestRedraw(layer);
},

_updateDashArray: function (layer) {
if (layer.options.dashArray) {
        var parts = layer.options.dashArray.split(','),
           dashArray = [],
           i;
        for (i = 0; i < parts.length; i++) {
                dashArray.push(Number(parts[i]));
        }
        layer.options._dashArray = dashArray;
}
},

_requestRedraw: function (layer) {
if (!this._map) { return; }

this._extendRedrawBounds(layer);
this._redrawRequest = this._redrawRequest || requestAnimFrame(this._redraw, this);
},

_extendRedrawBounds: function (layer) {
if (layer._pxBounds) {
        var padding = (layer.options.weight || 0) + 1;
        this._redrawBounds = this._redrawBounds || new Bounds();
        this._redrawBounds.extend(layer._pxBounds.min.subtract([padding, padding]));
        this._redrawBounds.extend(layer._pxBounds.max.add([padding, padding]));
}
},

_redraw: function () {
this._redrawRequest = null;
```

```
if (this._redrawBounds) {
	this._redrawBounds.min._floor();
	this._redrawBounds.max._ceil();
}

this._clear(); // clear layers in redraw bounds
this._draw(); // draw layers

this._redrawBounds = null;
},

_clear: function () {
var bounds = this._redrawBounds;
if (bounds) {
	var size = bounds.getSize();
	this._ctx.clearRect(bounds.min.x, bounds.min.y, size.x, size.y);
} else {
	this._ctx.clearRect(0, 0, this._container.width, this._container.height);
}
},

_draw: function () {
var layer, bounds = this._redrawBounds;
this._ctx.save();
if (bounds) {
	var size = bounds.getSize();
	this._ctx.beginPath();
	this._ctx.rect(bounds.min.x, bounds.min.y, size.x, size.y);
	this._ctx.clip();
}

this._drawing = true;

for (var order = this._drawFirst; order; order = order.next) {
	layer = order.layer;
	if (!bounds || (layer._pxBounds && layer._pxBounds.intersects(bounds))) {
		layer._updatePath();
	}
}

this._drawing = false;

this._ctx.restore();  // Restore state before clipping.
},

_updatePoly: function (layer, closed) {
```

```
if (!this._drawing) { return; }

var i, j, len2, p,
    parts = layer._parts,
    len = parts.length,
    ctx = this._ctx;

if (!len) { return; }

this._drawnLayers[layer._leaflet_id] = layer;

ctx.beginPath();

for (i = 0; i < len; i++) {
        for (j = 0, len2 = parts[i].length; j < len2; j++) {
                p = parts[i][j];
                ctx[j ? 'lineTo' : 'moveTo'](p.x, p.y);
        }
        if (closed) {
                ctx.closePath();
        }
}

this._fillStroke(ctx, layer);

// TODO optimization: 1 fill/stroke for all features with equal style instead of 1 for each
feature
},

_updateCircle: function (layer) {

if (!this._drawing || layer._empty()) { return; }

var p = layer._point,
    ctx = this._ctx,
    r = Math.max(Math.round(layer._radius), 1),
    s = (Math.max(Math.round(layer._radiusY), 1) || r) / r;

this._drawnLayers[layer._leaflet_id] = layer;

if (s !== 1) {
        ctx.save();
        ctx.scale(1, s);
}

ctx.beginPath();
```

```
ctx.arc(p.x, p.y / s, r, 0, Math.PI * 2, false);

if (s !== 1) {
	ctx.restore();
}

this._fillStroke(ctx, layer);
},

_fillStroke: function (ctx, layer) {
var options = layer.options;

if (options.fill) {
	ctx.globalAlpha = options.fillOpacity;
	ctx.fillStyle = options.fillColor || options.color;
	ctx.fill(options.fillRule || 'evenodd');
}

if (options.stroke && options.weight !== 0) {
	if (ctx.setLineDash) {
		ctx.setLineDash(layer.options && layer.options._dashArray || []);
	}
	ctx.globalAlpha = options.opacity;
	ctx.lineWidth = options.weight;
	ctx.strokeStyle = options.color;
	ctx.lineCap = options.lineCap;
	ctx.lineJoin = options.lineJoin;
	ctx.stroke();
}
},

// Canvas obviously doesn't have mouse events for individual drawn objects,
// so we emulate that by calculating what's under the mouse on mousemove/click
manually

_onClick: function (e) {
var this$1 = this;

var point = this._map.mouseEventToLayerPoint(e), layer, clickedLayer;

for (var order = this._drawFirst; order; order = order.next) {
	layer = order.layer;
	if (layer.options.interactive && layer._containsPoint(point)
&& !this$1._map._draggableMoved(layer)) {
		clickedLayer = layer;
	}
```

```
}
if (clickedLayer)  {
        fakeStop(e);
        this._fireEvent([clickedLayer], e);
}
},

_onMouseMove: function (e) {
if (!this._map || this._map.dragging.moving() || this._map._animatingZoom) { return; }

var point = this._map.mouseEventToLayerPoint(e);
this._handleMouseHover(e, point);
},


_handleMouseOut: function (e) {
var layer = this._hoveredLayer;
if (layer) {
        // if we're leaving the layer, fire mouseout
        removeClass(this._container, 'leaflet-interactive');
        this._fireEvent([layer], e, 'mouseout');
        this._hoveredLayer = null;
}
},

_handleMouseHover: function (e, point) {
var layer, candidateHoveredLayer;

for (var order = this._drawFirst; order; order = order.next) {
        layer = order.layer;
        if (layer.options.interactive && layer._containsPoint(point)) {
                candidateHoveredLayer = layer;
        }
}

if (candidateHoveredLayer !== this._hoveredLayer) {
        this._handleMouseOut(e);

        if (candidateHoveredLayer) {
                addClass(this._container, 'leaflet-interactive'); // change cursor
                this._fireEvent([candidateHoveredLayer], e, 'mouseover');
                this._hoveredLayer = candidateHoveredLayer;
        }
}

if (this._hoveredLayer) {
```

```
        this._fireEvent([this._hoveredLayer], e);
}
},

_fireEvent: function (layers, e, type) {
this._map._fireDOMEvent(e, type || e.type, layers);
},

_bringToFront: function (layer) {
var order = layer._order;
var next = order.next;
var prev = order.prev;

if (next) {
        next.prev = prev;
} else {
        // Already last
        return;
}
if (prev) {
        prev.next = next;
} else if (next) {
        // Update first entry unless this is the
        // single entry
        this._drawFirst = next;
}

order.prev = this._drawLast;
this._drawLast.next = order;

order.next = null;
this._drawLast = order;

this._requestRedraw(layer);
},

_bringToBack: function (layer) {
var order = layer._order;
var next = order.next;
var prev = order.prev;

if (prev) {
        prev.next = next;
} else {
        // Already first
        return;
```

```
		}
		if (next) {
			next.prev = prev;
		} else if (prev) {
			// Update last entry unless this is the
			// single entry
			this._drawLast = prev;
		}

		order.prev = null;

		order.next = this._drawFirst;
		this._drawFirst.prev = order;
		this._drawFirst = order;

		this._requestRedraw(layer);
		}
});

// @factory L.canvas(options?: Renderer options)
// Creates a Canvas renderer with the given options.
function canvas$1(options) {
		return canvas ? new Canvas(options) : null;
}

/*
 * Thanks to Dmitry Baranovsky and his Raphael library for inspiration!
 */


var vmlCreate = (function () {
		try {
		document.namespaces.add('lvml', 'urn:schemas-microsoft-com:vml');
		return function (name) {
			return document.createElement('<lvml:' + name + ' class="lvml">');
		};
		} catch (e) {
		return function (name) {
			return document.createElement('<' + name + ' xmlns="urn:schemas-
		microsoft.com:vml" class="lvml">');
		};
		}
})();


/*
```

```
 * @class SVG
 *
 * Although SVG is not available on IE7 and IE8, these browsers support
        [VML](https://en.wikipedia.org/wiki/Vector_Markup_Language), and the SVG renderer
        will fall back to VML in this case.
 *
 * VML was deprecated in 2012, which means VML functionality exists only for backwards
        compatibility
 * with old versions of Internet Explorer.
 */

// mixin to redefine some SVG methods to handle VML syntax which is similar but with some
        differences
var vmlMixin = {

        _initContainer: function () {
        this._container = create$1('div', 'leaflet-vml-container');
        },

        _update: function () {
        if (this._map._animatingZoom) { return; }
        Renderer.prototype._update.call(this);
        this.fire('update');
        },

        _initPath: function (layer) {
        var container = layer._container = vmlCreate('shape');

        addClass(container, 'leaflet-vml-shape ' + (this.options.className || ''));

        container.coordsize = '1 1';

        layer._path = vmlCreate('path');
        container.appendChild(layer._path);

        this._updateStyle(layer);
        this._layers[stamp(layer)] = layer;
        },

        _addPath: function (layer) {
        var container = layer._container;
        this._container.appendChild(container);

        if (layer.options.interactive) {
                layer.addInteractiveTarget(container);
        }
```

```
},

_removePath: function (layer) {
var container = layer._container;
remove(container);
layer.removeInteractiveTarget(container);
delete this._layers[stamp(layer)];
},

_updateStyle: function (layer) {
var stroke = layer._stroke,
   fill = layer._fill,
   options = layer.options,
   container = layer._container;

container.stroked = !!options.stroke;
container.filled = !!options.fill;

if (options.stroke) {
        if (!stroke) {
                stroke = layer._stroke = vmlCreate('stroke');
        }
        container.appendChild(stroke);
        stroke.weight = options.weight + 'px';
        stroke.color = options.color;
        stroke.opacity = options.opacity;

        if (options.dashArray) {
                stroke.dashStyle = isArray(options.dashArray) ?
                   options.dashArray.join(' ') :
                   options.dashArray.replace(/( *, *)/g, ' ');
        } else {
                stroke.dashStyle = '';
        }
        stroke.endcap = options.lineCap.replace('butt', 'flat');
        stroke.joinstyle = options.lineJoin;

} else if (stroke) {
        container.removeChild(stroke);
        layer._stroke = null;
}

if (options.fill) {
        if (!fill) {
                fill = layer._fill = vmlCreate('fill');
        }
```

```
                container.appendChild(fill);
                fill.color = options.fillColor || options.color;
                fill.opacity = options.fillOpacity;

        } else if (fill) {
                container.removeChild(fill);
                layer._fill = null;
        }
        },

        _updateCircle: function (layer) {
        var p = layer._point.round(),
            r = Math.round(layer._radius),
            r2 = Math.round(layer._radiusY || r);

        this._setPath(layer, layer._empty() ? 'M0 0' :
                'AL ' + p.x + ',' + p.y + ' ' + r + ',' + r2 + ' 0,' + (65535 * 360));
        },

        _setPath: function (layer, path) {
        layer._path.v = path;
        },

        _bringToFront: function (layer) {
        toFront(layer._container);
        },

        _bringToBack: function (layer) {
        toBack(layer._container);
        }
};

var create$2 = vml ? vmlCreate : svgCreate;

/*
 * @class SVG
 * @inherits Renderer
 * @aka L.SVG
 *
 * Allows vector layers to be displayed with
        [SVG](https://developer.mozilla.org/docs/Web/SVG).
 * Inherits `Renderer`.
 *
 * Due to [technical limitations](http://caniuse.com/#search=svg), SVG is not
 * available in all web browsers, notably Android 2.x and 3.x.
 *
```

```
 * Although SVG is not available on IE7 and IE8, these browsers support
 * [VML](https://en.wikipedia.org/wiki/Vector_Markup_Language)
 * (a now deprecated technology), and the SVG renderer will fall back to VML in
 * this case.
 *
 * @example
 *
 * Use SVG by default for all paths in the map:
 *
 * ```js
 * var map = L.map('map', {
 *        renderer: L.svg()
 * });
 * ```
 *
 * Use a SVG renderer with extra padding for specific vector geometries:
 *
 * ```js
 * var map = L.map('map');
 * var myRenderer = L.svg({ padding: 0.5 });
 * var line = L.polyline( coordinates, { renderer: myRenderer } );
 * var circle = L.circle( center, { renderer: myRenderer } );
 * ```
 */

var SVG = Renderer.extend({

        getEvents: function () {
        var events = Renderer.prototype.getEvents.call(this);
        events.zoomstart = this._onZoomStart;
        return events;
        },

        _initContainer: function () {
        this._container = create$2('svg');

        // makes it possible to click through svg root; we'll reset it back in individual paths
        this._container.setAttribute('pointer-events', 'none');

        this._rootGroup = create$2('g');
        this._container.appendChild(this._rootGroup);
        },

        _destroyContainer: function () {
        remove(this._container);
        off(this._container);
```

```
delete this._container;
delete this._rootGroup;
delete this._svgSize;
},

_onZoomStart: function () {
// Drag-then-pinch interactions might mess up the center and zoom.
// In this case, the easiest way to prevent this is re-do the renderer
//   bounds and padding when the zooming starts.
this._update();
},

_update: function () {
if (this._map._animatingZoom && this._bounds) { return; }

Renderer.prototype._update.call(this);

var b = this._bounds,
    size = b.getSize(),
    container = this._container;

// set size of svg-container if changed
if (!this._svgSize || !this._svgSize.equals(size)) {
        this._svgSize = size;
        container.setAttribute('width', size.x);
        container.setAttribute('height', size.y);
}

// movement: update container viewBox so that we don't have to change coordinates of
individual layers
setPosition(container, b.min);
container.setAttribute('viewBox', [b.min.x, b.min.y, size.x, size.y].join(' '));

this.fire('update');
},

// methods below are called by vector layers implementations

_initPath: function (layer) {
var path = layer._path = create$2('path');

// @namespace Path
// @option className: String = null
// Custom class name set on an element. Only for SVG renderer.
if (layer.options.className) {
        addClass(path, layer.options.className);
```

```
}

if (layer.options.interactive) {
        addClass(path, 'leaflet-interactive');
}

this._updateStyle(layer);
this._layers[stamp(layer)] = layer;
},

_addPath: function (layer) {
if (!this._rootGroup) { this._initContainer(); }
this._rootGroup.appendChild(layer._path);
layer.addInteractiveTarget(layer._path);
},

_removePath: function (layer) {
remove(layer._path);
layer.removeInteractiveTarget(layer._path);
delete this._layers[stamp(layer)];
},

_updatePath: function (layer) {
layer._project();
layer._update();
},

_updateStyle: function (layer) {
var path = layer._path,
   options = layer.options;

if (!path) { return; }

if (options.stroke) {
        path.setAttribute('stroke', options.color);
        path.setAttribute('stroke-opacity', options.opacity);
        path.setAttribute('stroke-width', options.weight);
        path.setAttribute('stroke-linecap', options.lineCap);
        path.setAttribute('stroke-linejoin', options.lineJoin);

        if (options.dashArray) {
                path.setAttribute('stroke-dasharray', options.dashArray);
        } else {
                path.removeAttribute('stroke-dasharray');
        }
```

```
		if (options.dashOffset) {
			path.setAttribute('stroke-dashoffset', options.dashOffset);
		} else {
			path.removeAttribute('stroke-dashoffset');
		}
	} else {
		path.setAttribute('stroke', 'none');
	}

	if (options.fill) {
		path.setAttribute('fill', options.fillColor || options.color);
		path.setAttribute('fill-opacity', options.fillOpacity);
		path.setAttribute('fill-rule', options.fillRule || 'evenodd');
	} else {
		path.setAttribute('fill', 'none');
	}
	},

	_updatePoly: function (layer, closed) {
	this._setPath(layer, pointsToPath(layer._parts, closed));
	},

	_updateCircle: function (layer) {
	var p = layer._point,
	    r = Math.max(Math.round(layer._radius), 1),
	    r2 = Math.max(Math.round(layer._radiusY), 1) || r,
	    arc = 'a' + r + ',' + r2 + ' 0 1,0 ';

	// drawing a circle with two half-arcs
	var d = layer._empty() ? 'M0 0' :
		'M' + (p.x - r) + ',' + p.y +
		arc + (r * 2) + ',0 ' +
		arc + (-r * 2) + ',0 ';

	this._setPath(layer, d);
	},

	_setPath: function (layer, path) {
	layer._path.setAttribute('d', path);
	},

	// SVG does not have the concept of zIndex so we resort to changing the DOM order of elements
	_bringToFront: function (layer) {
	toFront(layer._path);
	},
```

```
	_bringToBack: function (layer) {
	toBack(layer._path);
	}
});

if (vml) {
	SVG.include(vmlMixin);
}

// @namespace SVG
// @factory L.svg(options?: Renderer options)
// Creates a SVG renderer with the given options.
function svg$1(options) {
	return svg || vml ? new SVG(options) : null;
}

Map.include({
	// @namespace Map; @method getRenderer(layer: Path): Renderer
	// Returns the instance of `Renderer` that should be used to render the given
	// `Path`. It will ensure that the `renderer` options of the map and paths
	// are respected, and that the renderers do exist on the map.
	getRenderer: function (layer) {
	// @namespace Path; @option renderer: Renderer
	// Use this specific instance of `Renderer` for this path. Takes
	// precedence over the map's [default renderer](#map-renderer).
	var renderer = layer.options.renderer || this._getPaneRenderer(layer.options.pane) ||
	this.options.renderer || this._renderer;

	if (!renderer) {
		// @namespace Map; @option preferCanvas: Boolean = false
		// Whether `Path`s should be rendered on a `Canvas` renderer.
		// By default, all `Path`s are rendered in a `SVG` renderer.
		renderer = this._renderer = (this.options.preferCanvas && canvas$1()) || svg$1();
	}

	if (!this.hasLayer(renderer)) {
		this.addLayer(renderer);
	}
	return renderer;
	},

	_getPaneRenderer: function (name) {
	if (name === 'overlayPane' || name === undefined) {
		return false;
	}
```

```
		var renderer = this._paneRenderers[name];
		if (renderer === undefined) {
			renderer = (SVG && svg$1({pane: name})) || (Canvas && canvas$1({pane:
		name}));
			this._paneRenderers[name] = renderer;
		}
		return renderer;
		}
});

/*
 * L.Rectangle extends Polygon and creates a rectangle when passed a LatLngBounds object.
 */

/*
 * @class Rectangle
 * @aka L.Rectangle
 * @inherits Polygon
 *
 * A class for drawing rectangle overlays on a map. Extends `Polygon`.
 *
 * @example
 *
 * ```js
 * // define rectangle geographical bounds
 * var bounds = [[54.559322, -5.767822], [56.1210604, -3.021240]];
 *
 * // create an orange rectangle
 * L.rectangle(bounds, {color: "#ff7800", weight: 1}).addTo(map);
 *
 * // zoom the map to the rectangle bounds
 * map.fitBounds(bounds);
 * ```
 *
 */


var Rectangle = Polygon.extend({
		initialize: function (latLngBounds, options) {
		Polygon.prototype.initialize.call(this, this._boundsToLatLngs(latLngBounds), options);
		},

		// @method setBounds(latLngBounds: LatLngBounds): this
		// Redraws the rectangle with the passed bounds.
		setBounds: function (latLngBounds) {
```

```
	return this.setLatLngs(this._boundsToLatLngs(latLngBounds));
	},

	_boundsToLatLngs: function (latLngBounds) {
	latLngBounds = toLatLngBounds(latLngBounds);
	return [
		latLngBounds.getSouthWest(),
		latLngBounds.getNorthWest(),
		latLngBounds.getNorthEast(),
		latLngBounds.getSouthEast()
	];
	}
});


// @factory L.rectangle(latLngBounds: LatLngBounds, options?: Polyline options)
function rectangle(latLngBounds, options) {
	return new Rectangle(latLngBounds, options);
}

SVG.create = create$2;
SVG.pointsToPath = pointsToPath;

GeoJSON.geometryToLayer = geometryToLayer;
GeoJSON.coordsToLatLng = coordsToLatLng;
GeoJSON.coordsToLatLngs = coordsToLatLngs;
GeoJSON.latLngToCoords = latLngToCoords;
GeoJSON.latLngsToCoords = latLngsToCoords;
GeoJSON.getFeature = getFeature;
GeoJSON.asFeature = asFeature;

/*
 * L.Handler.BoxZoom is used to add shift-drag zoom interaction to the map
 * (zoom to a selected bounding box), enabled by default.
 */

// @namespace Map
// @section Interaction Options
Map.mergeOptions({
	// @option boxZoom: Boolean = true
	// Whether the map can be zoomed to a rectangular area specified by
	// dragging the mouse while pressing the shift key.
	boxZoom: true
});

var BoxZoom = Handler.extend({
```

```
initialize: function (map) {
this._map = map;
this._container = map._container;
this._pane = map._panes.overlayPane;
this._resetStateTimeout = 0;
map.on('unload', this._destroy, this);
},

addHooks: function () {
on(this._container, 'mousedown', this._onMouseDown, this);
},

removeHooks: function () {
off(this._container, 'mousedown', this._onMouseDown, this);
},

moved: function () {
return this._moved;
},

_destroy: function () {
remove(this._pane);
delete this._pane;
},

_resetState: function () {
this._resetStateTimeout = 0;
this._moved = false;
},

_clearDeferredResetState: function () {
if (this._resetStateTimeout !== 0) {
        clearTimeout(this._resetStateTimeout);
        this._resetStateTimeout = 0;
}
},

_onMouseDown: function (e) {
if (!e.shiftKey || ((e.which !== 1) && (e.button !== 1))) { return false; }

// Clear the deferred resetState if it hasn't executed yet, otherwise it
// will interrupt the interaction and orphan a box element in the container.
this._clearDeferredResetState();
this._resetState();

disableTextSelection();
```

```
disableImageDrag();

this._startPoint = this._map.mouseEventToContainerPoint(e);

on(document, {
        contextmenu: stop,
        mousemove: this._onMouseMove,
        mouseup: this._onMouseUp,
        keydown: this._onKeyDown
}, this);
},

_onMouseMove: function (e) {
if (!this._moved) {
        this._moved = true;

        this._box = create$1('div', 'leaflet-zoom-box', this._container);
        addClass(this._container, 'leaflet-crosshair');

        this._map.fire('boxzoomstart');
}

this._point = this._map.mouseEventToContainerPoint(e);

var bounds = new Bounds(this._point, this._startPoint),
   size = bounds.getSize();

setPosition(this._box, bounds.min);

this._box.style.width  = size.x + 'px';
this._box.style.height = size.y + 'px';
},

_finish: function () {
if (this._moved) {
        remove(this._box);
        removeClass(this._container, 'leaflet-crosshair');
}

enableTextSelection();
enableImageDrag();

off(document, {
        contextmenu: stop,
        mousemove: this._onMouseMove,
        mouseup: this._onMouseUp,
```

```
                keydown: this._onKeyDown
        }, this);
        },

        _onMouseUp: function (e) {
        if ((e.which !== 1) && (e.button !== 1)) { return; }

        this._finish();

        if (!this._moved) { return; }
        // Postpone to next JS tick so internal click event handling
        // still see it as "moved".
        this._clearDeferredResetState();
        this._resetStateTimeout = setTimeout(bind(this._resetState, this), 0);

        var bounds = new LatLngBounds(
              this._map.containerPointToLatLng(this._startPoint),
              this._map.containerPointToLatLng(this._point));

        this._map
                .fitBounds(bounds)
                .fire('boxzoomend', {boxZoomBounds: bounds});
        },

        _onKeyDown: function (e) {
        if (e.keyCode === 27) {
                this._finish();
        }
        }
});

// @section Handlers
// @property boxZoom: Handler
// Box (shift-drag with mouse) zoom handler.
Map.addInitHook('addHandler', 'boxZoom', BoxZoom);

/*
 * L.Handler.DoubleClickZoom is used to handle double-click zoom on the map, enabled by
        default.
 */

// @namespace Map
// @section Interaction Options

Map.mergeOptions({
        // @option doubleClickZoom: Boolean|String = true
```

```
	// Whether the map can be zoomed in by double clicking on it and
	// zoomed out by double clicking while holding shift. If passed
	// `'center'`, double-click zoom will zoom to the center of the
	//  view regardless of where the mouse was.
	doubleClickZoom: true
});

var DoubleClickZoom = Handler.extend({
	addHooks: function () {
	this._map.on('dblclick', this._onDoubleClick, this);
	},

	removeHooks: function () {
	this._map.off('dblclick', this._onDoubleClick, this);
	},

	_onDoubleClick: function (e) {
	var map = this._map,
	   oldZoom = map.getZoom(),
	   delta = map.options.zoomDelta,
	   zoom = e.originalEvent.shiftKey ? oldZoom - delta : oldZoom + delta;

	if (map.options.doubleClickZoom === 'center') {
		map.setZoom(zoom);
	} else {
		map.setZoomAround(e.containerPoint, zoom);
	}
	}
});

// @section Handlers
//
// Map properties include interaction handlers that allow you to control
// interaction behavior in runtime, enabling or disabling certain features such
// as dragging or touch zoom (see `Handler` methods). For example:
//
// ```js
// map.doubleClickZoom.disable();
// ```
//
// @property doubleClickZoom: Handler
// Double click zoom handler.
Map.addInitHook('addHandler', 'doubleClickZoom', DoubleClickZoom);

/*
```

```
 * L.Handler.MapDrag is used to make the map draggable (with panning inertia), enabled by
        default.
 */

// @namespace Map
// @section Interaction Options
Map.mergeOptions({
        // @option dragging: Boolean = true
        // Whether the map be draggable with mouse/touch or not.
        dragging: true,

        // @section Panning Inertia Options
        // @option inertia: Boolean = *
        // If enabled, panning of the map will have an inertia effect where
        // the map builds momentum while dragging and continues moving in
        // the same direction for some time. Feels especially nice on touch
        // devices. Enabled by default unless running on old Android devices.
        inertia: !android23,

        // @option inertiaDeceleration: Number = 3000
        // The rate with which the inertial movement slows down, in pixels/second².
        inertiaDeceleration: 3400, // px/s^2

        // @option inertiaMaxSpeed: Number = Infinity
        // Max speed of the inertial movement, in pixels/second.
        inertiaMaxSpeed: Infinity, // px/s

        // @option easeLinearity: Number = 0.2
        easeLinearity: 0.2,

        // TODO refactor, move to CRS
        // @option worldCopyJump: Boolean = false
        // With this option enabled, the map tracks when you pan to another "copy"
        // of the world and seamlessly jumps to the original one so that all overlays
        // like markers and vector layers are still visible.
        worldCopyJump: false,

        // @option maxBoundsViscosity: Number = 0.0
        // If `maxBounds` is set, this option will control how solid the bounds
        // are when dragging the map around. The default value of `0.0` allows the
        // user to drag outside the bounds at normal speed, higher values will
        // slow down map dragging outside bounds, and `1.0` makes the bounds fully
        // solid, preventing the user from dragging outside the bounds.
        maxBoundsViscosity: 0.0
});
```

```
var Drag = Handler.extend({
	addHooks: function () {
	if (!this._draggable) {
		var map = this._map;

		this._draggable = new Draggable(map._mapPane, map._container);

		this._draggable.on({
			dragstart: this._onDragStart,
			drag: this._onDrag,
			dragend: this._onDragEnd
		}, this);

		this._draggable.on('predrag', this._onPreDragLimit, this);
		if (map.options.worldCopyJump) {
			this._draggable.on('predrag', this._onPreDragWrap, this);
			map.on('zoomend', this._onZoomEnd, this);

			map.whenReady(this._onZoomEnd, this);
		}
	}
	addClass(this._map._container, 'leaflet-grab leaflet-touch-drag');
	this._draggable.enable();
	this._positions = [];
	this._times = [];
	},

	removeHooks: function () {
	removeClass(this._map._container, 'leaflet-grab');
	removeClass(this._map._container, 'leaflet-touch-drag');
	this._draggable.disable();
	},

	moved: function () {
	return this._draggable && this._draggable._moved;
	},

	moving: function () {
	return this._draggable && this._draggable._moving;
	},

	_onDragStart: function () {
	var map = this._map;

	map._stop();
	if (this._map.options.maxBounds && this._map.options.maxBoundsViscosity) {
```

```
        var bounds = toLatLngBounds(this._map.options.maxBounds);

        this._offsetLimit = toBounds(
                this._map.latLngToContainerPoint(bounds.getNorthWest()).multiplyBy(-
1),
                this._map.latLngToContainerPoint(bounds.getSouthEast()).multiplyBy(-1)
                        .add(this._map.getSize()));

        this._viscosity = Math.min(1.0, Math.max(0.0,
this._map.options.maxBoundsViscosity));
} else {
        this._offsetLimit = null;
}

map
   .fire('movestart')
   .fire('dragstart');

if (map.options.inertia) {
        this._positions = [];
        this._times = [];
}
},

_onDrag: function (e) {
if (this._map.options.inertia) {
        var time = this._lastTime = +new Date(),
           pos = this._lastPos = this._draggable._absPos || this._draggable._newPos;

        this._positions.push(pos);
        this._times.push(time);

        this._prunePositions(time);
}

this._map
   .fire('move', e)
   .fire('drag', e);
},

_prunePositions: function (time) {
var this$1 = this;

while (this._positions.length > 1 && time - this._times[0] > 50) {
        this$1._positions.shift();
        this$1._times.shift();
```

```
}
},

_onZoomEnd: function () {
var pxCenter = this._map.getSize().divideBy(2),
    pxWorldCenter = this._map.latLngToLayerPoint([0, 0]);

this._initialWorldOffset = pxWorldCenter.subtract(pxCenter).x;
this._worldWidth = this._map.getPixelWorldBounds().getSize().x;
},

_viscousLimit: function (value, threshold) {
return value - (value - threshold) * this._viscosity;
},

_onPreDragLimit: function () {
if (!this._viscosity || !this._offsetLimit) { return; }

var offset = this._draggable._newPos.subtract(this._draggable._startPos);

var limit = this._offsetLimit;
if (offset.x < limit.min.x) { offset.x = this._viscousLimit(offset.x, limit.min.x); }
if (offset.y < limit.min.y) { offset.y = this._viscousLimit(offset.y, limit.min.y); }
if (offset.x > limit.max.x) { offset.x = this._viscousLimit(offset.x, limit.max.x); }
if (offset.y > limit.max.y) { offset.y = this._viscousLimit(offset.y, limit.max.y); }

this._draggable._newPos = this._draggable._startPos.add(offset);
},

_onPreDragWrap: function () {
// TODO refactor to be able to adjust map pane position after zoom
var worldWidth = this._worldWidth,
    halfWidth = Math.round(worldWidth / 2),
    dx = this._initialWorldOffset,
    x = this._draggable._newPos.x,
    newX1 = (x - halfWidth + dx) % worldWidth + halfWidth - dx,
    newX2 = (x + halfWidth + dx) % worldWidth - halfWidth - dx,
    newX = Math.abs(newX1 + dx) < Math.abs(newX2 + dx) ? newX1 : newX2;

this._draggable._absPos = this._draggable._newPos.clone();
this._draggable._newPos.x = newX;
},

_onDragEnd: function (e) {
var map = this._map,
    options = map.options,
```

```
            noInertia = !options.inertia || this._times.length < 2;

        map.fire('dragend', e);

        if (noInertia) {
                map.fire('moveend');

        } else {
                this._prunePositions(+new Date());

                var direction = this._lastPos.subtract(this._positions[0]),
                    duration = (this._lastTime - this._times[0]) / 1000,
                    ease = options.easeLinearity,

                    speedVector = direction.multiplyBy(ease / duration),
                    speed = speedVector.distanceTo([0, 0]),

                    limitedSpeed = Math.min(options.inertiaMaxSpeed, speed),
                    limitedSpeedVector = speedVector.multiplyBy(limitedSpeed / speed),

                    decelerationDuration = limitedSpeed / (options.inertiaDeceleration * ease),
                    offset = limitedSpeedVector.multiplyBy(-decelerationDuration / 2).round();

                if (!offset.x && !offset.y) {
                        map.fire('moveend');

                } else {
                        offset = map._limitOffset(offset, map.options.maxBounds);

                        requestAnimFrame(function () {
                                map.panBy(offset, {
                                        duration: decelerationDuration,
                                        easeLinearity: ease,
                                        noMoveStart: true,
                                        animate: true
                                });
                        });
                }
        }
        }
});

// @section Handlers
// @property dragging: Handler
// Map dragging handler (by both mouse and touch).
```

```
Map.addInitHook('addHandler', 'dragging', Drag);

/*
 * L.Map.Keyboard is handling keyboard interaction with the map, enabled by default.
 */

// @namespace Map
// @section Keyboard Navigation Options
Map.mergeOptions({
	// @option keyboard: Boolean = true
	// Makes the map focusable and allows users to navigate the map with keyboard
	// arrows and `+`/`-` keys.
	keyboard: true,

	// @option keyboardPanDelta: Number = 80
	// Amount of pixels to pan when pressing an arrow key.
	keyboardPanDelta: 80
});

var Keyboard = Handler.extend({

	keyCodes: {
	left:    [37],
	right:   [39],
	down:    [40],
	up:      [38],
	zoomIn:  [187, 107, 61, 171],
	zoomOut: [189, 109, 54, 173]
	},

	initialize: function (map) {
	this._map = map;

	this._setPanDelta(map.options.keyboardPanDelta);
	this._setZoomDelta(map.options.zoomDelta);
	},

	addHooks: function () {
	var container = this._map._container;

	// make the container focusable by tabbing
	if (container.tabIndex <= 0) {
		container.tabIndex = '0';
	}

	on(container, {
```

```
            focus: this._onFocus,
            blur: this._onBlur,
            mousedown: this._onMouseDown
}, this);

this._map.on({
            focus: this._addHooks,
            blur: this._removeHooks
}, this);
},

removeHooks: function () {
this._removeHooks();

off(this._map._container, {
            focus: this._onFocus,
            blur: this._onBlur,
            mousedown: this._onMouseDown
}, this);

this._map.off({
            focus: this._addHooks,
            blur: this._removeHooks
}, this);
},

_onMouseDown: function () {
if (this._focused) { return; }

var body = document.body,
    docEl = document.documentElement,
    top = body.scrollTop || docEl.scrollTop,
    left = body.scrollLeft || docEl.scrollLeft;

this._map._container.focus();

window.scrollTo(left, top);
},

_onFocus: function () {
this._focused = true;
this._map.fire('focus');
},

_onBlur: function () {
this._focused = false;
```

```
this._map.fire('blur');
},

_setPanDelta: function (panDelta) {
var keys = this._panKeys = {},
    codes = this.keyCodes,
    i, len;

for (i = 0, len = codes.left.length; i < len; i++) {
        keys[codes.left[i]] = [-1 * panDelta, 0];
}
for (i = 0, len = codes.right.length; i < len; i++) {
        keys[codes.right[i]] = [panDelta, 0];
}
for (i = 0, len = codes.down.length; i < len; i++) {
        keys[codes.down[i]] = [0, panDelta];
}
for (i = 0, len = codes.up.length; i < len; i++) {
        keys[codes.up[i]] = [0, -1 * panDelta];
}
},

_setZoomDelta: function (zoomDelta) {
var keys = this._zoomKeys = {},
    codes = this.keyCodes,
    i, len;

for (i = 0, len = codes.zoomIn.length; i < len; i++) {
        keys[codes.zoomIn[i]] = zoomDelta;
}
for (i = 0, len = codes.zoomOut.length; i < len; i++) {
        keys[codes.zoomOut[i]] = -zoomDelta;
}
},

_addHooks: function () {
on(document, 'keydown', this._onKeyDown, this);
},

_removeHooks: function () {
off(document, 'keydown', this._onKeyDown, this);
},

_onKeyDown: function (e) {
if (e.altKey || e.ctrlKey || e.metaKey) { return; }
```

```
        var key = e.keyCode,
            map = this._map,
            offset;

        if (key in this._panKeys) {

                if (map._panAnim && map._panAnim._inProgress) { return; }

                offset = this._panKeys[key];
                if (e.shiftKey) {
                        offset = toPoint(offset).multiplyBy(3);
                }

                map.panBy(offset);

                if (map.options.maxBounds) {
                        map.panInsideBounds(map.options.maxBounds);
                }

        } else if (key in this._zoomKeys) {
                map.setZoom(map.getZoom() + (e.shiftKey ? 3 : 1) * this._zoomKeys[key]);

        } else if (key === 27 && map._popup && map._popup.options.closeOnEscapeKey) {
                map.closePopup();

        } else {
                return;
        }

        stop(e);
        }
});

// @section Handlers
// @section Handlers
// @property keyboard: Handler
// Keyboard navigation handler.
Map.addInitHook('addHandler', 'keyboard', Keyboard);

/*
 * L.Handler.ScrollWheelZoom is used by L.Map to enable mouse scroll wheel zoom on the
        map.
 */

// @namespace Map
// @section Interaction Options
```

```
Map.mergeOptions({
	// @section Mousewheel options
	// @option scrollWheelZoom: Boolean|String = true
	// Whether the map can be zoomed by using the mouse wheel. If passed `'center'`,
	// it will zoom to the center of the view regardless of where the mouse was.
	scrollWheelZoom: true,

	// @option wheelDebounceTime: Number = 40
	// Limits the rate at which a wheel can fire (in milliseconds). By default
	// user can't zoom via wheel more often than once per 40 ms.
	wheelDebounceTime: 40,

	// @option wheelPxPerZoomLevel: Number = 60
	// How many scroll pixels (as reported by [L.DomEvent.getWheelDelta](#domevent-
	getwheeldelta))
	// mean a change of one full zoom level. Smaller values will make wheel-zooming
	// faster (and vice versa).
	wheelPxPerZoomLevel: 60
});

var ScrollWheelZoom = Handler.extend({
	addHooks: function () {
	on(this._map._container, 'mousewheel', this._onWheelScroll, this);

	this._delta = 0;
	},

	removeHooks: function () {
	off(this._map._container, 'mousewheel', this._onWheelScroll, this);
	},

	_onWheelScroll: function (e) {
	var delta = getWheelDelta(e);

	var debounce = this._map.options.wheelDebounceTime;

	this._delta += delta;
	this._lastMousePos = this._map.mouseEventToContainerPoint(e);

	if (!this._startTime) {
		this._startTime = +new Date();
	}

	var left = Math.max(debounce - (+new Date() - this._startTime), 0);

	clearTimeout(this._timer);
```

```
		this._timer = setTimeout(bind(this._performZoom, this), left);

		stop(e);
		},

		_performZoom: function () {
		var map = this._map,
		    zoom = map.getZoom(),
		    snap = this._map.options.zoomSnap || 0;

		map._stop(); // stop panning and fly animations if any

		// map the delta with a sigmoid function to -4..4 range leaning on -1..1
		var d2 = this._delta / (this._map.options.wheelPxPerZoomLevel * 4),
		    d3 = 4 * Math.log(2 / (1 + Math.exp(-Math.abs(d2)))) / Math.LN2,
		    d4 = snap ? Math.ceil(d3 / snap) * snap : d3,
		    delta = map._limitZoom(zoom + (this._delta > 0 ? d4 : -d4)) - zoom;

		this._delta = 0;
		this._startTime = null;

		if (!delta) { return; }

		if (map.options.scrollWheelZoom === 'center') {
			map.setZoom(zoom + delta);
		} else {
			map.setZoomAround(this._lastMousePos, zoom + delta);
		}
		}
});

// @section Handlers
// @property scrollWheelZoom: Handler
// Scroll wheel zoom handler.
Map.addInitHook('addHandler', 'scrollWheelZoom', ScrollWheelZoom);

/*
 * L.Map.Tap is used to enable mobile hacks like quick taps and long hold.
 */

// @namespace Map
// @section Interaction Options
Map.mergeOptions({
		// @section Touch interaction options
		// @option tap: Boolean = true
		// Enables mobile hacks for supporting instant taps (fixing 200ms click
```

```
	// delay on iOS/Android) and touch holds (fired as `contextmenu` events).
	tap: true,

	// @option tapTolerance: Number = 15
	// The max number of pixels a user can shift his finger during touch
	// for it to be considered a valid tap.
	tapTolerance: 15
});

var Tap = Handler.extend({
	addHooks: function () {
	on(this._map._container, 'touchstart', this._onDown, this);
	},

	removeHooks: function () {
	off(this._map._container, 'touchstart', this._onDown, this);
	},

	_onDown: function (e) {
	if (!e.touches) { return; }

	preventDefault(e);

	this._fireClick = true;

	// don't simulate click or track longpress if more than 1 touch
	if (e.touches.length > 1) {
		this._fireClick = false;
		clearTimeout(this._holdTimeout);
		return;
	}

	var first = e.touches[0],
	   el = first.target;

	this._startPos = this._newPos = new Point(first.clientX, first.clientY);

	// if touching a link, highlight it
	if (el.tagName && el.tagName.toLowerCase() === 'a') {
		addClass(el, 'leaflet-active');
	}

	// simulate long hold but setting a timeout
	this._holdTimeout = setTimeout(bind(function () {
		if (this._isTapValid()) {
			this._fireClick = false;
```

```
                this._onUp();
                this._simulateEvent('contextmenu', first);
        }
}, this), 1000);

this._simulateEvent('mousedown', first);

on(document, {
        touchmove: this._onMove,
        touchend: this._onUp
}, this);
},

_onUp: function (e) {
clearTimeout(this._holdTimeout);

off(document, {
        touchmove: this._onMove,
        touchend: this._onUp
}, this);

if (this._fireClick && e && e.changedTouches) {

        var first = e.changedTouches[0],
           el = first.target;

        if (el && el.tagName && el.tagName.toLowerCase() === 'a') {
                removeClass(el, 'leaflet-active');
        }

        this._simulateEvent('mouseup', first);

        // simulate click if the touch didn't move too much
        if (this._isTapValid()) {
                this._simulateEvent('click', first);
        }
}
},

_isTapValid: function () {
return this._newPos.distanceTo(this._startPos) <= this._map.options.tapTolerance;
},

_onMove: function (e) {
var first = e.touches[0];
this._newPos = new Point(first.clientX, first.clientY);
```

```
		this._simulateEvent('mousemove', first);
		},

		_simulateEvent: function (type, e) {
		var simulatedEvent = document.createEvent('MouseEvents');

		simulatedEvent._simulated = true;
		e.target._simulatedClick = true;

		simulatedEvent.initMouseEvent(
			type, true, true, window, 1,
			e.screenX, e.screenY,
			e.clientX, e.clientY,
			false, false, false, false, 0, null);

		e.target.dispatchEvent(simulatedEvent);
		}
});

// @section Handlers
// @property tap: Handler
// Mobile touch hacks (quick tap and touch hold) handler.
if (touch && !pointer) {
		Map.addInitHook('addHandler', 'tap', Tap);
}

/*
 * L.Handler.TouchZoom is used by L.Map to add pinch zoom on supported mobile browsers.
 */

// @namespace Map
// @section Interaction Options
Map.mergeOptions({
		// @section Touch interaction options
		// @option touchZoom: Boolean|String = *
		// Whether the map can be zoomed by touch-dragging with two fingers. If
		// passed `'center'`, it will zoom to the center of the view regardless of
		// where the touch events (fingers) were. Enabled for touch-capable web
		// browsers except for old Androids.
		touchZoom: touch && !android23,

		// @option bounceAtZoomLimits: Boolean = true
		// Set it to false if you don't want the map to zoom beyond min/max zoom
		// and then bounce back when pinch-zooming.
		bounceAtZoomLimits: true
});
```

```
var TouchZoom = Handler.extend({
        addHooks: function () {
        addClass(this._map._container, 'leaflet-touch-zoom');
        on(this._map._container, 'touchstart', this._onTouchStart, this);
        },

        removeHooks: function () {
        removeClass(this._map._container, 'leaflet-touch-zoom');
        off(this._map._container, 'touchstart', this._onTouchStart, this);
        },

        _onTouchStart: function (e) {
        var map = this._map;
        if (!e.touches || e.touches.length !== 2 || map._animatingZoom || this._zooming)
        { return; }

        var p1 = map.mouseEventToContainerPoint(e.touches[0]),
           p2 = map.mouseEventToContainerPoint(e.touches[1]);

        this._centerPoint = map.getSize()._divideBy(2);
        this._startLatLng = map.containerPointToLatLng(this._centerPoint);
        if (map.options.touchZoom !== 'center') {
                this._pinchStartLatLng =
        map.containerPointToLatLng(p1.add(p2)._divideBy(2));
        }

        this._startDist = p1.distanceTo(p2);
        this._startZoom = map.getZoom();

        this._moved = false;
        this._zooming = true;

        map._stop();

        on(document, 'touchmove', this._onTouchMove, this);
        on(document, 'touchend', this._onTouchEnd, this);

        preventDefault(e);
        },

        _onTouchMove: function (e) {
        if (!e.touches || e.touches.length !== 2 || !this._zooming) { return; }

        var map = this._map,
           p1 = map.mouseEventToContainerPoint(e.touches[0]),
```

```
    p2 = map.mouseEventToContainerPoint(e.touches[1]),
    scale = p1.distanceTo(p2) / this._startDist;

this._zoom = map.getScaleZoom(scale, this._startZoom);

if (!map.options.bounceAtZoomLimits && (
        (this._zoom < map.getMinZoom() && scale < 1) ||
        (this._zoom > map.getMaxZoom() && scale > 1))) {
        this._zoom = map._limitZoom(this._zoom);
}

if (map.options.touchZoom === 'center') {
        this._center = this._startLatLng;
        if (scale === 1) { return; }
} else {
        // Get delta from pinch to center, so centerLatLng is delta applied to initial
pinchLatLng
        var delta = p1._add(p2)._divideBy(2)._subtract(this._centerPoint);
        if (scale === 1 && delta.x === 0 && delta.y === 0) { return; }
        this._center = map.unproject(map.project(this._pinchStartLatLng,
this._zoom).subtract(delta), this._zoom);
}

if (!this._moved) {
        map._moveStart(true, false);
        this._moved = true;
}

cancelAnimFrame(this._animRequest);

var moveFn = bind(map._move, map, this._center, this._zoom, {pinch: true, round:
false});
this._animRequest = requestAnimFrame(moveFn, this, true);

preventDefault(e);
},

_onTouchEnd: function () {
if (!this._moved || !this._zooming) {
        this._zooming = false;
        return;
}

this._zooming = false;
cancelAnimFrame(this._animRequest);
```

```
		off(document, 'touchmove', this._onTouchMove);
		off(document, 'touchend', this._onTouchEnd);

		// Pinch updates GridLayers' levels only when zoomSnap is off, so zoomSnap becomes
		noUpdate.
		if (this._map.options.zoomAnimation) {
			this._map._animateZoom(this._center, this._map._limitZoom(this._zoom), true,
		this._map.options.zoomSnap);
		} else {
			this._map._resetView(this._center, this._map._limitZoom(this._zoom));
		}
		}
});

// @section Handlers
// @property touchZoom: Handler
// Touch zoom handler.
Map.addInitHook('addHandler', 'touchZoom', TouchZoom);

Map.BoxZoom = BoxZoom;
Map.DoubleClickZoom = DoubleClickZoom;
Map.Drag = Drag;
Map.Keyboard = Keyboard;
Map.ScrollWheelZoom = ScrollWheelZoom;
Map.Tap = Tap;
Map.TouchZoom = TouchZoom;

// misc

var oldL = window.L;
function noConflict() {
	window.L = oldL;
	return this;
}

// Always export us to window global (see #2364)
window.L = exports;

Object.freeze = freeze;

exports.version = version;
exports.noConflict = noConflict;
exports.Control = Control;
exports.control = control;
exports.Browser = Browser;
exports.Evented = Evented;
```

```
exports.Mixin = Mixin;
exports.Util = Util;
exports.Class = Class;
exports.Handler = Handler;
exports.extend = extend;
exports.bind = bind;
exports.stamp = stamp;
exports.setOptions = setOptions;
exports.DomEvent = DomEvent;
exports.DomUtil = DomUtil;
exports.PosAnimation = PosAnimation;
exports.Draggable = Draggable;
exports.LineUtil = LineUtil;
exports.PolyUtil = PolyUtil;
exports.Point = Point;
exports.point = toPoint;
exports.Bounds = Bounds;
exports.bounds = toBounds;
exports.Transformation = Transformation;
exports.transformation = toTransformation;
exports.Projection = index;
exports.LatLng = LatLng;
exports.latLng = toLatLng;
exports.LatLngBounds = LatLngBounds;
exports.latLngBounds = toLatLngBounds;
exports.CRS = CRS;
exports.GeoJSON = GeoJSON;
exports.geoJSON = geoJSON;
exports.geoJson = geoJson;
exports.Layer = Layer;
exports.LayerGroup = LayerGroup;
exports.layerGroup = layerGroup;
exports.FeatureGroup = FeatureGroup;
exports.featureGroup = featureGroup;
exports.ImageOverlay = ImageOverlay;
exports.imageOverlay = imageOverlay;
exports.VideoOverlay = VideoOverlay;
exports.videoOverlay = videoOverlay;
exports.DivOverlay = DivOverlay;
exports.Popup = Popup;
exports.popup = popup;
exports.Tooltip = Tooltip;
exports.tooltip = tooltip;
exports.Icon = Icon;
exports.icon = icon;
exports.DivIcon = DivIcon;
```

```
exports.divIcon = divIcon;
exports.Marker = Marker;
exports.marker = marker;
exports.TileLayer = TileLayer;
exports.tileLayer = tileLayer;
exports.GridLayer = GridLayer;
exports.gridLayer = gridLayer;
exports.SVG = SVG;
exports.svg = svg$1;
exports.Renderer = Renderer;
exports.Canvas = Canvas;
exports.canvas = canvas$1;
exports.Path = Path;
exports.CircleMarker = CircleMarker;
exports.circleMarker = circleMarker;
exports.Circle = Circle;
exports.circle = circle;
exports.Polyline = Polyline;
exports.polyline = polyline;
exports.Polygon = Polygon;
exports.polygon = polygon;
exports.Rectangle = Rectangle;
exports.rectangle = rectangle;
exports.Map = Map;
exports.map = createMap;

})));
//# sourceMappingURL=leaflet-src.js.map
});

var leafletProviders = createCommonjsModule(function (module) {
(function (root, factory) {
        if (typeof undefined === 'function' && undefined.amd) {
        // AMD. Register as an anonymous module.
        undefined(['leaflet'], factory);
        } else if (typeof modules === 'object' && module.exports) {
        // define a Common JS module that relies on 'leaflet'
        module.exports = factory(leafletSrc);
        } else {
        // Assume Leaflet is loaded into global object L already
        factory(L);
        }
}(commonjsGlobal, function (L) {

        L.TileLayer.Provider = L.TileLayer.extend({
        initialize: function (arg, options) {
```

```
		var providers = L.TileLayer.Provider.providers;

		var parts = arg.split('.');

		var providerName = parts[0];
		var variantName = parts[1];

		if (!providers[providerName]) {
			throw 'No such provider (' + providerName + ')';
		}

		var provider = {
			url: providers[providerName].url,
			options: providers[providerName].options
		};

		// overwrite values in provider from variant.
		if (variantName && 'variants' in providers[providerName]) {
			if (!(variantName in providers[providerName].variants)) {
				throw 'No such variant of ' + providerName + ' (' + variantName +
')';
			}
			var variant = providers[providerName].variants[variantName];
			var variantOptions;
			if (typeof variant === 'string') {
				variantOptions = {
					variant: variant
				};
			} else {
				variantOptions = variant.options;
			}
			provider = {
				url: variant.url || provider.url,
				options: L.Util.extend({}, provider.options, variantOptions)
			};
		}

		var forceHTTP = window.location.protocol === 'file:' ||
provider.options.forceHTTP;
		if (provider.url.indexOf('//') === 0 && forceHTTP) {
			provider.url = 'http:' + provider.url;
		}

		// If retina option is set
		if (provider.options.retina) {
			// Check retina screen
```

```
                if (options.detectRetina && L.Browser.retina) {
                        // The retina option will be active now
                        // But we need to prevent Leaflet retina mode
                        options.detectRetina = false;
                } else {
                        // No retina, remove option
                        provider.options.retina = '';
                }
        }

        // replace attribution placeholders with their values from toplevel provider
attribution,
        // recursively
        var attributionReplacer = function (attr) {
                if (attr.indexOf('{attribution.') === -1) {
                        return attr;
                }
                return attr.replace(/\{attribution.(\w*)\}/,
                        function (match, attributionName) {
                                return
attributionReplacer(providers[attributionName].options.attribution);
                        }
                );
        };
        provider.options.attribution = attributionReplacer(provider.options.attribution);

        // Compute final options combining provider options with any user overrides
        var layerOpts = L.Util.extend({}, provider.options, options);
        L.TileLayer.prototype.initialize.call(this, provider.url, layerOpts);
}
});

/**
 * Definition of providers.
 * see http://leafletjs.com/reference.html#tilelayer for options in the options map.
 */

L.TileLayer.Provider.providers = {
OpenStreetMap: {
        url: '//{s}.tile.openstreetmap.org/{z}/{x}/{y}.png',
        options: {
                maxZoom: 19,
                attribution:
                        '&copy; <a
href="http://www.openstreetmap.org/copyright">OpenStreetMap</a>'
        },
```

```
        variants: {
                Mapnik: {},
                BlackAndWhite: {
                        url: 'http://{s}.tiles.wmflabs.org/bw-mapnik/{z}/{x}/{y}.png',
                        options: {
                                maxZoom: 18
                        }
                },
                DE: {
                        url: '//{s}.tile.openstreetmap.de/tiles/osmde/{z}/{x}/{y}.png',
                        options: {
                                maxZoom: 18
                        }
                },
                France: {
                        url: '//{s}.tile.openstreetmap.fr/osmfr/{z}/{x}/{y}.png',
                        options: {
                                maxZoom: 20,
                                attribution: '&copy; Openstreetmap France |
{attribution.OpenStreetMap}'
                        }
                },
                HOT: {
                        url: '//{s}.tile.openstreetmap.fr/hot/{z}/{x}/{y}.png',
                        options: {
                                attribution: '{attribution.OpenStreetMap}, Tiles courtesy of
<a href="http://hot.openstreetmap.org/" target="_blank">Humanitarian OpenStreetMap
Team</a>'
                        }
                },
                BZH: {
                        url: 'http://tile.openstreetmap.bzh/br/{z}/{x}/{y}.png',
                        options: {
                                attribution: '{attribution.OpenStreetMap}, Tiles courtesy of
<a href="http://www.openstreetmap.bzh/" target="_blank">Breton OpenStreetMap
Team</a>',
                                bounds: [[46.2, -5.5], [50, 0.7]]
                        }
                }
        }
},
OpenSeaMap: {
        url: 'http://tiles.openseamap.org/seamark/{z}/{x}/{y}.png',
        options: {
                attribution: 'Map data: &copy; <a
href="http://www.openseamap.org">OpenSeaMap</a> contributors'
```

```
        }
},
OpenTopoMap: {
        url: '//{s}.tile.opentopomap.org/{z}/{x}/{y}.png',
        options: {
                maxZoom: 17,
                attribution: 'Map data: {attribution.OpenStreetMap}, <a
href="http://viewfinderpanoramas.org">SRTM</a> | Map style: &copy; <a
href="https://opentopomap.org">OpenTopoMap</a> (<a
href="https://creativecommons.org/licenses/by-sa/3.0/">CC-BY-SA</a>)'
        }
},
Thunderforest: {
        url: '//{s}.tile.thunderforest.com/{variant}/{z}/{x}/{y}.png?apikey={apikey}',
        options: {
                attribution:
                        '&copy; <a
href="http://www.thunderforest.com/">Thunderforest</a>,
{attribution.OpenStreetMap}',
                variant: 'cycle',
                apikey: '<insert your api key here>',
                maxZoom: 22
        },
        variants: {
                OpenCycleMap: 'cycle',
                Transport: {
                        options: {
                                variant: 'transport'
                        }
                },
                TransportDark: {
                        options: {
                                variant: 'transport-dark'
                        }
                },
                SpinalMap: {
                        options: {
                                variant: 'spinal-map'
                        }
                },
                Landscape: 'landscape',
                Outdoors: 'outdoors',
                Pioneer: 'pioneer'
        }
},
OpenMapSurfer: {
```

```
        url: 'http://korona.geog.uni-heidelberg.de/tiles/{variant}/x={x}&y={y}&z={z}',
        options: {
                maxZoom: 20,
                variant: 'roads',
                attribution: 'Imagery from <a href="http://giscience.uni-
hd.de/">GIScience Research Group @ University of Heidelberg</a> &mdash; Map data
{attribution.OpenStreetMap}'
        },
        variants: {
                Roads: 'roads',
                AdminBounds: {
                        options: {
                                variant: 'adminb',
                                maxZoom: 19
                        }
                },
                Grayscale: {
                        options: {
                                variant: 'roadsg',
                                maxZoom: 19
                        }
                }
        }
},
Hydda: {
        url: '//{s}.tile.openstreetmap.se/hydda/{variant}/{z}/{x}/{y}.png',
        options: {
                maxZoom: 18,
                variant: 'full',
                attribution: 'Tiles courtesy of <a href="http://openstreetmap.se/"
target="_blank">OpenStreetMap Sweden</a> &mdash; Map data
{attribution.OpenStreetMap}'
        },
        variants: {
                Full: 'full',
                Base: 'base',
                RoadsAndLabels: 'roads_and_labels'
        }
},
MapBox: {
        url:
'//api.tiles.mapbox.com/v4/{id}/{z}/{x}/{y}.png?access_token={accessToken}',
        options: {
                attribution:
                        'Imagery from <a
href="http://mapbox.com/about/maps/">MapBox</a> &mdash; ' +
```

```
                'Map data {attribution.OpenStreetMap}',
            subdomains: 'abcd',
            id: 'streets',
            accessToken: '<insert your access token here>',
        }
},
Stamen: {
        url: '//stamen-tiles-{s}.a.ssl.fastly.net/{variant}/{z}/{x}/{y}.{ext}',
        options: {
            attribution:
                'Map tiles by <a href="http://stamen.com">Stamen Design</a>, ' +
                '<a href="http://creativecommons.org/licenses/by/3.0">CC BY
3.0</a> &mdash; ' +
                'Map data {attribution.OpenStreetMap}',
            subdomains: 'abcd',
            minZoom: 0,
            maxZoom: 20,
            variant: 'toner',
            ext: 'png'
        },
        variants: {
            Toner: 'toner',
            TonerBackground: 'toner-background',
            TonerHybrid: 'toner-hybrid',
            TonerLines: 'toner-lines',
            TonerLabels: 'toner-labels',
            TonerLite: 'toner-lite',
            Watercolor: {
                options: {
                    variant: 'watercolor',
                    minZoom: 1,
                    maxZoom: 16
                }
            },
            Terrain: {
                options: {
                    variant: 'terrain',
                    minZoom: 0,
                    maxZoom: 18
                }
            },
            TerrainBackground: {
                options: {
                    variant: 'terrain-background',
                    minZoom: 0,
                    maxZoom: 18
```

```
                }
            },
            TopOSMRelief: {
                options: {
                    variant: 'toposm-color-relief',
                    ext: 'jpg',
                    bounds: [[22, -132], [51, -56]]
                }
            },
            TopOSMFeatures: {
                options: {
                    variant: 'toposm-features',
                    bounds: [[22, -132], [51, -56]],
                    opacity: 0.9
                }
            }
        }
},
Esri: {
        url:
'//server.arcgisonline.com/ArcGIS/rest/services/{variant}/MapServer/tile/{z}/{y}/{x}',
        options: {
            variant: 'World_Street_Map',
            attribution: 'Tiles &copy; Esri'
        },
        variants: {
            WorldStreetMap: {
                options: {
                    attribution:
                        '{attribution.Esri} &mdash; ' +
                        'Source: Esri, DeLorme, NAVTEQ, USGS,
Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand),
TomTom, 2012'
                }
            },
            DeLorme: {
                options: {
                    variant: 'Specialty/DeLorme_World_Base_Map',
                    minZoom: 1,
                    maxZoom: 11,
                    attribution: '{attribution.Esri} &mdash; Copyright:
&copy;2012 DeLorme'
                }
            },
            WorldTopoMap: {
                options: {
```

```
                variant: 'World_Topo_Map',
                attribution:
                    '{attribution.Esri} &mdash; ' +
                    'Esri, DeLorme, NAVTEQ, TomTom, Intermap,
iPC, USGS, FAO, NPS, NRCAN, GeoBase, Kadaster NL, Ordnance Survey, Esri Japan,
METI, Esri China (Hong Kong), and the GIS User Community'
            }
        },
        WorldImagery: {
            options: {
                variant: 'World_Imagery',
                attribution:
                    '{attribution.Esri} &mdash; ' +
                    'Source: Esri, i-cubed, USDA, USGS, AEX,
GeoEye, Getmapping, Aerogrid, IGN, IGP, UPR-EGP, and the GIS User Community'
            }
        },
        WorldTerrain: {
            options: {
                variant: 'World_Terrain_Base',
                maxZoom: 13,
                attribution:
                    '{attribution.Esri} &mdash; ' +
                    'Source: USGS, Esri, TANA, DeLorme, and NPS'
            }
        },
        WorldShadedRelief: {
            options: {
                variant: 'World_Shaded_Relief',
                maxZoom: 13,
                attribution: '{attribution.Esri} &mdash; Source: Esri'
            }
        },
        WorldPhysical: {
            options: {
                variant: 'World_Physical_Map',
                maxZoom: 8,
                attribution: '{attribution.Esri} &mdash; Source: US
National Park Service'
            }
        },
        OceanBasemap: {
            options: {
                variant: 'Ocean_Basemap',
                maxZoom: 13,
```

```
                        attribution: '{attribution.Esri} &mdash; Sources: GEBCO,
NOAA, CHS, OSU, UNH, CSUMB, National Geographic, DeLorme, NAVTEQ, and
Esri'
                    }
                },
                NatGeoWorldMap: {
                    options: {
                        variant: 'NatGeo_World_Map',
                        maxZoom: 16,
                        attribution: '{attribution.Esri} &mdash; National
Geographic, Esri, DeLorme, NAVTEQ, UNEP-WCMC, USGS, NASA, ESA, METI,
NRCAN, GEBCO, NOAA, iPC'
                    }
                },
                WorldGrayCanvas: {
                    options: {
                        variant: 'Canvas/World_Light_Gray_Base',
                        maxZoom: 16,
                        attribution: '{attribution.Esri} &mdash; Esri, DeLorme,
NAVTEQ'
                    }
                }
        }
},
OpenWeatherMap: {
        url: 'http://{s}.tile.openweathermap.org/map/{variant}/{z}/{x}/{y}.png',
        options: {
                maxZoom: 19,
                attribution: 'Map data &copy; <a
href="http://openweathermap.org">OpenWeatherMap</a>',
                opacity: 0.5
        },
        variants: {
                Clouds: 'clouds',
                CloudsClassic: 'clouds_cls',
                Precipitation: 'precipitation',
                PrecipitationClassic: 'precipitation_cls',
                Rain: 'rain',
                RainClassic: 'rain_cls',
                Pressure: 'pressure',
                PressureContour: 'pressure_cntr',
                Wind: 'wind',
                Temperature: 'temp',
                Snow: 'snow'
        }
},
```

```
HERE: {
        /*
         * HERE maps, formerly Nokia maps.
         * These basemaps are free, but you need an API key. Please sign up at
         * http://developer.here.com/getting-started
         *
         * Note that the base urls contain '.cit' whichs is HERE's
         * 'Customer Integration Testing' environment. Please remove for production
         * envirionments.
         */
        url:
                '//{s}.{base}.maps.cit.api.here.com/maptile/2.1/' +
                '{type}/{mapID}/{variant}/{z}/{x}/{y}/{size}/{format}?' +
                'app_id={app_id}&app_code={app_code}&lg={language}',
        options: {
                attribution:
                        'Map &copy; 1987-2014 <a
href="http://developer.here.com">HERE</a>',
                subdomains: '1234',
                mapID: 'newest',
                'app_id': '<insert your app_id here>',
                'app_code': '<insert your app_code here>',
                base: 'base',
                variant: 'normal.day',
                maxZoom: 20,
                type: 'maptile',
                language: 'eng',
                format: 'png8',
                size: '256'
        },
        variants: {
                normalDay: 'normal.day',
                normalDayCustom: 'normal.day.custom',
                normalDayGrey: 'normal.day.grey',
                normalDayMobile: 'normal.day.mobile',
                normalDayGreyMobile: 'normal.day.grey.mobile',
                normalDayTransit: 'normal.day.transit',
                normalDayTransitMobile: 'normal.day.transit.mobile',
                normalNight: 'normal.night',
                normalNightMobile: 'normal.night.mobile',
                normalNightGrey: 'normal.night.grey',
                normalNightGreyMobile: 'normal.night.grey.mobile',

                basicMap: {
                        options: {
                                type: 'basetile'
```

```
        }
},
mapLabels: {
        options: {
                type: 'labeltile',
                format: 'png'
        }
},
trafficFlow: {
        options: {
                base: 'traffic',
                type: 'flowtile'
        }
},
carnavDayGrey: 'carnav.day.grey',
hybridDay: {
        options: {
                base: 'aerial',
                variant: 'hybrid.day'
        }
},
hybridDayMobile: {
        options: {
                base: 'aerial',
                variant: 'hybrid.day.mobile'
        }
},
pedestrianDay: 'pedestrian.day',
pedestrianNight: 'pedestrian.night',
satelliteDay: {
        options: {
                base: 'aerial',
                variant: 'satellite.day'
        }
},
terrainDay: {
        options: {
                base: 'aerial',
                variant: 'terrain.day'
        }
},
terrainDayMobile: {
        options: {
                base: 'aerial',
                variant: 'terrain.day.mobile'
        }
```

```
                }
        }
},
FreeMapSK: {
        url: 'http://t{s}.freemap.sk/T/{z}/{x}/{y}.jpeg',
        options: {
                minZoom: 8,
                maxZoom: 16,
                subdomains: '1234',
                bounds: [[47.204642, 15.996093], [49.830896, 22.576904]],
                attribution:
                        '{attribution.OpenStreetMap}, vizualization CC-By-SA 2.0 <a
href="http://freemap.sk">Freemap.sk</a>'
        }
},
MtbMap: {
        url: 'http://tile.mtbmap.cz/mtbmap_tiles/{z}/{x}/{y}.png',
        options: {
                attribution:
                        '{attribution.OpenStreetMap} &amp;amp; USGS'
        }
},
CartoDB: {
        url: 'http://{s}.basemaps.cartocdn.com/{variant}/{z}/{x}/{y}.png',
        options: {
                attribution: '{attribution.OpenStreetMap} &copy; <a
href="http://cartodb.com/attributions">CartoDB</a>',
                subdomains: 'abcd',
                maxZoom: 19,
                variant: 'light_all'
        },
        variants: {
                Positron: 'light_all',
                PositronNoLabels: 'light_nolabels',
                PositronOnlyLabels: 'light_only_labels',
                DarkMatter: 'dark_all',
                DarkMatterNoLabels: 'dark_nolabels',
                DarkMatterOnlyLabels: 'dark_only_labels'
        }
},
HikeBike: {
        url: 'http://{s}.tiles.wmflabs.org/{variant}/{z}/{x}/{y}.png',
        options: {
                maxZoom: 19,
                attribution: '{attribution.OpenStreetMap}',
                variant: 'hikebike'
```

```
        },
        variants: {
                HikeBike: {},
                HillShading: {
                        options: {
                                maxZoom: 15,
                                variant: 'hillshading'
                        }
                }
        }
},
BasemapAT: {
        url:
'https://maps{s}.wien.gv.at/basemap/{variant}/normal/google3857/{z}/{y}/{x}.{format}'
,
        options: {
                maxZoom: 19,
                attribution: 'Datenquelle: <a href="www.basemap.at">basemap.at</a>',
                subdomains: ['', '1', '2', '3', '4'],
                format: 'png',
                bounds: [[46.358770, 8.782379], [49.037872, 17.189532]],
                variant: 'geolandbasemap'
        },
        variants: {
                basemap: {
                        options: {
                                maxZoom: 20, // currently only in Vienna
                                variant: 'geolandbasemap'
                        }
                },
                grau: 'bmapgrau',
                overlay: 'bmapoverlay',
                highdpi: {
                        options: {
                                variant: 'bmaphidpi',
                                format: 'jpeg'
                        }
                },
                orthofoto: {
                        options: {
                                maxZoom: 20, // currently only in Vienna
                                variant: 'bmaporthofoto30cm',
                                format: 'jpeg'
                        }
                }
        }
```

```
},
nlmaps: {
	url:
'https://geodata.nationaalgeoregister.nl/tiles/service/wmts/{variant}/EPSG:3857/{z}/{x}/
{y}.png',
	options: {
		minZoom: 6,
		maxZoom: 19,
		bounds: [[50.5, 3.25], [54, 7.6]],
		attribution: 'Kaartgegevens &copy; <a href="kadaster.nl">Kadaster</a>'
	},
	variants: {
		'standaard': 'brtachtergrondkaart',
		'pastel': 'brtachtergrondkaartpastel',
		'grijs': 'brtachtergrondkaartgrijs',
		'luchtfoto': {
			'url':
'https://geodata.nationaalgeoregister.nl/luchtfoto/rgb/wmts/1.0.0/2016_ortho25/EPSG:38
57/{z}/{x}/{y}.png',
		}
	}
},
NASAGIBS: {
	url: '//map1.vis.earthdata.nasa.gov/wmts-
webmerc/{variant}/default/{time}/{tilematrixset}{maxZoom}/{z}/{y}/{x}.{format}',
	options: {
		attribution:
			'Imagery provided by services from the Global Imagery Browse
Services (GIBS), operated by the NASA/GSFC/Earth Science Data and Information
System ' +
			'(<a href="https://earthdata.nasa.gov">ESDIS</a>) with funding
provided by NASA/HQ.',
		bounds: [[-85.0511287776, -179.999999975], [85.0511287776,
179.999999975]],
		minZoom: 1,
		maxZoom: 9,
		format: 'jpg',
		time: '',
		tilematrixset: 'GoogleMapsCompatible_Level'
	},
	variants: {
		ModisTerraTrueColorCR:
'MODIS_Terra_CorrectedReflectance_TrueColor',
		ModisTerraBands367CR:
'MODIS_Terra_CorrectedReflectance_Bands367',
		ViirsEarthAtNight2012: {
```

```
                        options: {
                                variant: 'VIIRS_CityLights_2012',
                                maxZoom: 8
                        }
                },
                ModisTerraLSTDay: {
                        options: {
                                variant: 'MODIS_Terra_Land_Surface_Temp_Day',
                                format: 'png',
                                maxZoom: 7,
                                opacity: 0.75
                        }
                },
                ModisTerraSnowCover: {
                        options: {
                                variant: 'MODIS_Terra_Snow_Cover',
                                format: 'png',
                                maxZoom: 8,
                                opacity: 0.75
                        }
                },
                ModisTerraAOD: {
                        options: {
                                variant: 'MODIS_Terra_Aerosol',
                                format: 'png',
                                maxZoom: 6,
                                opacity: 0.75
                        }
                },
                ModisTerraChlorophyll: {
                        options: {
                                variant: 'MODIS_Terra_Chlorophyll_A',
                                format: 'png',
                                maxZoom: 7,
                                opacity: 0.75
                        }
                }
        }
},
NLS: {
        // NLS maps are copyright National library of Scotland.
        // http://maps.nls.uk/projects/api/index.html
        // Please contact NLS for anything other than non-commercial low volume usage
        //
        // Map sources: Ordnance Survey 1:1m to 1:63K, 1920s-1940s
        //   z0-9  - 1:1m
```

```
		//  z10-11 - quarter inch (1:253440)
		//  z12-18 - one inch (1:63360)
		url: '//nls-{s}.tileserver.com/nls/{z}/{x}/{y}.jpg',
		options: {
			attribution: '<a href="http://geo.nls.uk/maps/">National Library of
	Scotland Historic Maps</a>',
			bounds: [[49.6, -12], [61.7, 3]],
			minZoom: 1,
			maxZoom: 18,
			subdomains: '0123',
		}
	},
	JusticeMap: {
		// Justice Map (http://www.justicemap.org/)
		// Visualize race and income data for your community, county and country.
		// Includes tools for data journalists, bloggers and community activists.
		url: 'http://www.justicemap.org/tile/{size}/{variant}/{z}/{x}/{y}.png',
		options: {
			attribution: '<a href="http://www.justicemap.org/terms.php">Justice
	Map</a>',
			// one of 'county', 'tract', 'block'
			size: 'county',
			// Bounds for USA, including Alaska and Hawaii
			bounds: [[14, -180], [72, -56]]
		},
		variants: {
			income: 'income',
			americanIndian: 'indian',
			asian: 'asian',
			black: 'black',
			hispanic: 'hispanic',
			multi: 'multi',
			nonWhite: 'nonwhite',
			white: 'white',
			plurality: 'plural'
		}
	}
	};

	L.tileLayer.provider = function (provider, options) {
	return new L.TileLayer.Provider(provider, options);
	};

	return L;
}));
});
```

```
var leaflet_markerclusterSrc = createCommonjsModule(function (module, exports) {
/*
 * Leaflet.markercluster 1.3.0+master.5b36e91,
 * Provides Beautiful Animated Marker Clustering functionality for Leaflet, a JS library for
        interactive maps.
 * https://github.com/Leaflet/Leaflet.markercluster
 * (c) 2012-2017, Dave Leaver, smartrak
 */
(function (global, factory) {
        factory(exports);
}(commonjsGlobal, (function (exports) {
/*
 * L.MarkerClusterGroup extends L.FeatureGroup by clustering the markers contained within
 */

var MarkerClusterGroup = L.MarkerClusterGroup = L.FeatureGroup.extend({

        options: {
        maxClusterRadius: 80, //A cluster will cover at most this many pixels from its center
        iconCreateFunction: null,
        clusterPane: L.Marker.prototype.options.pane,

        spiderfyOnMaxZoom: true,
        showCoverageOnHover: true,
        zoomToBoundsOnClick: true,
        singleMarkerMode: false,

        disableClusteringAtZoom: null,

        // Setting this to false prevents the removal of any clusters outside of the viewpoint,
        which
        // is the default behaviour for performance reasons.
        removeOutsideVisibleBounds: true,

        // Set to false to disable all animations (zoom and spiderfy).
        // If false, option animateAddingMarkers below has no effect.
        // If L.DomUtil.TRANSITION is falsy, this option has no effect.
        animate: true,

        //Whether to animate adding markers after adding the MarkerClusterGroup to the map
        // If you are adding individual markers set to true, if adding bulk markers leave false for
        massive performance gains.
        animateAddingMarkers: false,

        //Increase to increase the distance away that spiderfied markers appear from the center
```

```
spiderfyDistanceMultiplier: 1,

// Make it possible to specify a polyline options on a spider leg
spiderLegPolylineOptions: { weight: 1.5, color: '#222', opacity: 0.5 },

// When bulk adding layers, adds markers in chunks. Means addLayers may not add all
the layers in the call, others will be loaded during setTimeouts
chunkedLoading: false,
chunkInterval: 200, // process markers for a maximum of ~ n milliseconds (then trigger
the chunkProgress callback)
chunkDelay: 50, // at the end of each interval, give n milliseconds back to system/browser
chunkProgress: null, // progress callback: function(processed, total, elapsed) (e.g. for a
progress indicator)

//Options to pass to the L.Polygon constructor
polygonOptions: {}
},

initialize: function (options) {
L.Util.setOptions(this, options);
if (!this.options.iconCreateFunction) {
        this.options.iconCreateFunction = this._defaultIconCreateFunction;
}

this._featureGroup = L.featureGroup();
this._featureGroup.addEventParent(this);

this._nonPointGroup = L.featureGroup();
this._nonPointGroup.addEventParent(this);

this._inZoomAnimation = 0;
this._needsClustering = [];
this._needsRemoving = []; //Markers removed while we aren't on the map need to be kept
track of
//The bounds of the currently shown area (from _getExpandedVisibleBounds) Updated
on zoom/move
this._currentShownBounds = null;

this._queue = [];

this._childMarkerEventHandlers = {
        'dragstart': this._childMarkerDragStart,
        'move': this._childMarkerMoved,
        'dragend': this._childMarkerDragEnd,
};
```

```
// Hook the appropriate animation methods.
var animate = L.DomUtil.TRANSITION && this.options.animate;
L.extend(this, animate ? this._withAnimation : this._noAnimation);
// Remember which MarkerCluster class to instantiate (animated or not).
this._markerCluster = animate ? L.MarkerCluster : L.MarkerClusterNonAnimated;
},

addLayer: function (layer) {

if (layer instanceof L.LayerGroup) {
        return this.addLayers([layer]);
}

//Don't cluster non point data
if (!layer.getLatLng) {
        this._nonPointGroup.addLayer(layer);
        this.fire('layeradd', { layer: layer });
        return this;
}

if (!this._map) {
        this._needsClustering.push(layer);
        this.fire('layeradd', { layer: layer });
        return this;
}

if (this.hasLayer(layer)) {
        return this;
}


//If we have already clustered we'll need to add this one to a cluster

if (this._unspiderfy) {
        this._unspiderfy();
}

this._addLayer(layer, this._maxZoom);
this.fire('layeradd', { layer: layer });

// Refresh bounds and weighted positions.
this._topClusterLevel._recalculateBounds();

this._refreshClustersIcons();

//Work out what is visible
```

```
var visibleLayer = layer,
    currentZoom = this._zoom;
if (layer.__parent) {
        while (visibleLayer.__parent._zoom >= currentZoom) {
                visibleLayer = visibleLayer.__parent;
        }
}

if (this._currentShownBounds.contains(visibleLayer.getLatLng())) {
        if (this.options.animateAddingMarkers) {
                this._animationAddLayer(layer, visibleLayer);
        } else {
                this._animationAddLayerNonAnimated(layer, visibleLayer);
        }
}
return this;
},

removeLayer: function (layer) {

if (layer instanceof L.LayerGroup) {
        return this.removeLayers([layer]);
}

//Non point layers
if (!layer.getLatLng) {
        this._nonPointGroup.removeLayer(layer);
        this.fire('layerremove', { layer: layer });
        return this;
}

if (!this._map) {
        if (!this._arraySplice(this._needsClustering, layer) && this.hasLayer(layer)) {
                this._needsRemoving.push({ layer: layer, latlng: layer._latlng });
        }
        this.fire('layerremove', { layer: layer });
        return this;
}

if (!layer.__parent) {
        return this;
}

if (this._unspiderfy) {
        this._unspiderfy();
        this._unspiderfyLayer(layer);
```

```
}

//Remove the marker from clusters
this._removeLayer(layer, true);
this.fire('layerremove', { layer: layer });

// Refresh bounds and weighted positions.
this._topClusterLevel._recalculateBounds();

this._refreshClustersIcons();

layer.off(this._childMarkerEventHandlers, this);

if (this._featureGroup.hasLayer(layer)) {
        this._featureGroup.removeLayer(layer);
        if (layer.clusterShow) {
                layer.clusterShow();
        }
}

return this;
},

//Takes an array of markers and adds them in bulk
addLayers: function (layersArray, skipLayerAddEvent) {
var this$1 = this;

if (!L.Util.isArray(layersArray)) {
        return this.addLayer(layersArray);
}

var fg = this._featureGroup,
   npg = this._nonPointGroup,
   chunked = this.options.chunkedLoading,
   chunkInterval = this.options.chunkInterval,
   chunkProgress = this.options.chunkProgress,
   l = layersArray.length,
   offset = 0,
   originalArray = true,
   m;

if (this._map) {
        var started = (new Date()).getTime();
        var process = L.bind(function () {
                var this$1 = this;
```

```
		var start = (new Date()).getTime();
		for (; offset < l; offset++) {
			if (chunked && offset % 200 === 0) {
				// every couple hundred markers, instrument the time
elapsed since processing started:
				var elapsed = (new Date()).getTime() - start;
				if (elapsed > chunkInterval) {
					break; // been working too hard, time to take a
break :-)
				}
			}

			m = layersArray[offset];

			// Group of layers, append children to layersArray and skip.
			// Side effects:
			// - Total increases, so chunkProgress ratio jumps backward.
			// - Groups are not included in this group, only their non-group
child layers (hasLayer).
			// Changing array length while looping does not affect performance
in current browsers:
			// http://jsperf.com/for-loop-changing-length/6
			if (m instanceof L.LayerGroup) {
				if (originalArray) {
					layersArray = layersArray.slice();
					originalArray = false;
				}
				this$1._extractNonGroupLayers(m, layersArray);
				l = layersArray.length;
				continue;
			}

			//Not point data, can't be clustered
			if (!m.getLatLng) {
				npg.addLayer(m);
				if (!skipLayerAddEvent) {
					this$1.fire('layeradd', { layer: m });
				}
				continue;
			}

			if (this$1.hasLayer(m)) {
				continue;
			}

			this$1._addLayer(m, this$1._maxZoom);
```

```
                        if (!skipLayerAddEvent) {
                                this$1.fire('layeradd', { layer: m });
                        }

                        //If we just made a cluster of size 2 then we need to remove the
other marker from the map (if it is) or we never will
                        if (m.__parent) {
                                if (m.__parent.getChildCount() === 2) {
                                        var markers = m.__parent.getAllChildMarkers(),
                                           otherMarker = markers[0] === m ? markers[1] :
markers[0];
                                        fg.removeLayer(otherMarker);
                                }
                        }
                }

                if (chunkProgress) {
                        // report progress and time elapsed:
                        chunkProgress(offset, l, (new Date()).getTime() - started);
                }

                // Completed processing all markers.
                if (offset === l) {

                        // Refresh bounds and weighted positions.
                        this._topClusterLevel._recalculateBounds();

                        this._refreshClustersIcons();

                        this._topClusterLevel._recursivelyAddChildrenToMap(null,
this._zoom, this._currentShownBounds);
                } else {
                        setTimeout(process, this.options.chunkDelay);
                }
        }, this);

        process();
} else {
        var needsClustering = this._needsClustering;

        for (; offset < l; offset++) {
                m = layersArray[offset];

                // Group of layers, append children to layersArray and skip.
                if (m instanceof L.LayerGroup) {
                        if (originalArray) {
```

```
                                layersArray = layersArray.slice();
                                originalArray = false;
                        }
                        this$1._extractNonGroupLayers(m, layersArray);
                        l = layersArray.length;
                        continue;
                }

                //Not point data, can't be clustered
                if (!m.getLatLng) {
                        npg.addLayer(m);
                        continue;
                }

                if (this$1.hasLayer(m)) {
                        continue;
                }

                needsClustering.push(m);
        }
}
return this;
},

//Takes an array of markers and removes them in bulk
removeLayers: function (layersArray) {
var this$1 = this;

var i, m,
   l = layersArray.length,
   fg = this._featureGroup,
   npg = this._nonPointGroup,
   originalArray = true;

if (!this._map) {
        for (i = 0; i < l; i++) {
                m = layersArray[i];

                // Group of layers, append children to layersArray and skip.
                if (m instanceof L.LayerGroup) {
                        if (originalArray) {
                                layersArray = layersArray.slice();
                                originalArray = false;
                        }
                        this$1._extractNonGroupLayers(m, layersArray);
                        l = layersArray.length;
```

```
                        continue;
                }

                this$1._arraySplice(this$1._needsClustering, m);
                npg.removeLayer(m);
                if (this$1.hasLayer(m)) {
                        this$1._needsRemoving.push({ layer: m, latlng: m._latlng });
                }
                this$1.fire('layerremove', { layer: m });
        }
        return this;
}

if (this._unspiderfy) {
        this._unspiderfy();

        // Work on a copy of the array, so that next loop is not affected.
        var layersArray2 = layersArray.slice(),
          l2 = l;
        for (i = 0; i < l2; i++) {
                m = layersArray2[i];

                // Group of layers, append children to layersArray and skip.
                if (m instanceof L.LayerGroup) {
                        this$1._extractNonGroupLayers(m, layersArray2);
                        l2 = layersArray2.length;
                        continue;
                }

                this$1._unspiderfyLayer(m);
        }
}

for (i = 0; i < l; i++) {
        m = layersArray[i];

        // Group of layers, append children to layersArray and skip.
        if (m instanceof L.LayerGroup) {
                if (originalArray) {
                        layersArray = layersArray.slice();
                        originalArray = false;
                }
                this$1._extractNonGroupLayers(m, layersArray);
                l = layersArray.length;
                continue;
        }
```

```
		if (!m.__parent) {
			npg.removeLayer(m);
			this$1.fire('layerremove', { layer: m });
			continue;
		}

		this$1._removeLayer(m, true, true);
		this$1.fire('layerremove', { layer: m });

		if (fg.hasLayer(m)) {
			fg.removeLayer(m);
			if (m.clusterShow) {
				m.clusterShow();
			}
		}
	}

	// Refresh bounds and weighted positions.
	this._topClusterLevel._recalculateBounds();

	this._refreshClustersIcons();

	//Fix up the clusters and markers on the map
	this._topClusterLevel._recursivelyAddChildrenToMap(null, this._zoom,
	this._currentShownBounds);

	return this;
	},

	//Removes all layers from the MarkerClusterGroup
	clearLayers: function () {
	//Need our own special implementation as the LayerGroup one doesn't work for us

	//If we aren't on the map (yet), blow away the markers we know of
	if (!this._map) {
		this._needsClustering = [];
		delete this._gridClusters;
		delete this._gridUnclustered;
	}

	if (this._noanimationUnspiderfy) {
		this._noanimationUnspiderfy();
	}

	//Remove all the visible layers
```

```
this._featureGroup.clearLayers();
this._nonPointGroup.clearLayers();

this.eachLayer(function (marker) {
	marker.off(this._childMarkerEventHandlers, this);
	delete marker.__parent;
}, this);

if (this._map) {
	//Reset _topClusterLevel and the DistanceGrids
	this._generateInitialClusters();
}

return this;
},

//Override FeatureGroup.getBounds as it doesn't work
getBounds: function () {
var this$1 = this;

var bounds = new L.LatLngBounds();

if (this._topClusterLevel) {
	bounds.extend(this._topClusterLevel._bounds);
}

for (var i = this._needsClustering.length - 1; i >= 0; i--) {
	bounds.extend(this$1._needsClustering[i].getLatLng());
}

bounds.extend(this._nonPointGroup.getBounds());

return bounds;
},

//Overrides LayerGroup.eachLayer
eachLayer: function (method, context) {
var markers = this._needsClustering.slice(),
	needsRemoving = this._needsRemoving,
	thisNeedsRemoving, i, j;

if (this._topClusterLevel) {
	this._topClusterLevel.getAllChildMarkers(markers);
}

for (i = markers.length - 1; i >= 0; i--) {
```

```
		thisNeedsRemoving = true;

		for (j = needsRemoving.length - 1; j >= 0; j--) {
			if (needsRemoving[j].layer === markers[i]) {
				thisNeedsRemoving = false;
				break;
			}
		}

		if (thisNeedsRemoving) {
			method.call(context, markers[i]);
		}
	}

	this._nonPointGroup.eachLayer(method, context);
	},

	//Overrides LayerGroup.getLayers
	getLayers: function () {
	var layers = [];
	this.eachLayer(function (l) {
		layers.push(l);
	});
	return layers;
	},

	//Overrides LayerGroup.getLayer, WARNING: Really bad performance
	getLayer: function (id) {
	var result = null;

	id = parseInt(id, 10);

	this.eachLayer(function (l) {
		if (L.stamp(l) === id) {
			result = l;
		}
	});

	return result;
	},

	//Returns true if the given layer is in this MarkerClusterGroup
	hasLayer: function (layer) {
	if (!layer) {
		return false;
	}
```

```
var i, anArray = this._needsClustering;

for (i = anArray.length - 1; i >= 0; i--) {
        if (anArray[i] === layer) {
                return true;
        }
}

anArray = this._needsRemoving;
for (i = anArray.length - 1; i >= 0; i--) {
        if (anArray[i].layer === layer) {
                return false;
        }
}

return !!(layer.__parent && layer.__parent._group === this) ||
this._nonPointGroup.hasLayer(layer);
},

//Zoom down to show the given layer (spiderfying if necessary) then calls the callback
zoomToShowLayer: function (layer, callback) {

if (typeof callback !== 'function') {
        callback = function () {};
}

var showMarker = function () {
        if ((layer._icon || layer.__parent._icon) && !this._inZoomAnimation) {
                this._map.off('moveend', showMarker, this);
                this.off('animationend', showMarker, this);

                if (layer._icon) {
                        callback();
                } else if (layer.__parent._icon) {
                        this.once('spiderfied', callback, this);
                        layer.__parent.spiderfy();
                }
        }
};

if (layer._icon && this._map.getBounds().contains(layer.getLatLng())) {
        //Layer is visible ond on screen, immediate return
        callback();
} else if (layer.__parent._zoom < Math.round(this._map._zoom)) {
```

```
            //Layer should be visible at this zoom level. It must not be on screen so just pan
over to it
            this._map.on('moveend', showMarker, this);
            this._map.panTo(layer.getLatLng());
} else {
            this._map.on('moveend', showMarker, this);
            this.on('animationend', showMarker, this);
            layer.__parent.zoomToBounds();
}
},

//Overrides FeatureGroup.onAdd
onAdd: function (map) {
var this$1 = this;

this._map = map;
var i, l, layer;

if (!isFinite(this._map.getMaxZoom())) {
            throw "Map has no maxZoom specified";
}

this._featureGroup.addTo(map);
this._nonPointGroup.addTo(map);

if (!this._gridClusters) {
            this._generateInitialClusters();
}

this._maxLat = map.options.crs.projection.MAX_LATITUDE;

//Restore all the positions as they are in the MCG before removing them
for (i = 0, l = this._needsRemoving.length; i < l; i++) {
            layer = this$1._needsRemoving[i];
            layer.newlatlng = layer.layer._latlng;
            layer.layer._latlng = layer.latlng;
}
//Remove them, then restore their new positions
for (i = 0, l = this._needsRemoving.length; i < l; i++) {
            layer = this$1._needsRemoving[i];
            this$1._removeLayer(layer.layer, true);
            layer.layer._latlng = layer.newlatlng;
}
this._needsRemoving = [];

//Remember the current zoom level and bounds
```

```
this._zoom = Math.round(this._map._zoom);
this._currentShownBounds = this._getExpandedVisibleBounds();

this._map.on('zoomend', this._zoomEnd, this);
this._map.on('moveend', this._moveEnd, this);

if (this._spiderfierOnAdd) { //TODO FIXME: Not sure how to have spiderfier add
something on here nicely
        this._spiderfierOnAdd();
}

this._bindEvents();

//Actually add our markers to the map:
l = this._needsClustering;
this._needsClustering = [];
this.addLayers(l, true);
},

//Overrides FeatureGroup.onRemove
onRemove: function (map) {
map.off('zoomend', this._zoomEnd, this);
map.off('moveend', this._moveEnd, this);

this._unbindEvents();

//In case we are in a cluster animation
this._map._mapPane.className = this._map._mapPane.className.replace(' leaflet-
cluster-anim', '');

if (this._spiderfierOnRemove) { //TODO FIXME: Not sure how to have spiderfier add
something on here nicely
        this._spiderfierOnRemove();
}

delete this._maxLat;

//Clean up all the layers we added to the map
this._hideCoverage();
this._featureGroup.remove();
this._nonPointGroup.remove();

this._featureGroup.clearLayers();

this._map = null;
},
```

```
getVisibleParent: function (marker) {
var vMarker = marker;
while (vMarker && !vMarker._icon) {
        vMarker = vMarker.__parent;
}
return vMarker || null;
},

//Remove the given object from the given array
_arraySplice: function (anArray, obj) {
for (var i = anArray.length - 1; i >= 0; i--) {
        if (anArray[i] === obj) {
                anArray.splice(i, 1);
                return true;
        }
}
},

/**
 * Removes a marker from all _gridUnclustered zoom levels, starting at the supplied
zoom.
 * @param marker to be removed from _gridUnclustered.
 * @param z integer bottom start zoom level (included)
 * @private
 */
_removeFromGridUnclustered: function (marker, z) {
var map = this._map,
   gridUnclustered = this._gridUnclustered,
        minZoom = Math.floor(this._map.getMinZoom());

for (; z >= minZoom; z--) {
        if (!gridUnclustered[z].removeObject(marker, map.project(marker.getLatLng(),
z))) {
                break;
        }
}
},

_childMarkerDragStart: function (e) {
e.target.__dragStart = e.target._latlng;
},

_childMarkerMoved: function (e) {
if (!this._ignoreMove && !e.target.__dragStart) {
        var isPopupOpen = e.target._popup && e.target._popup.isOpen();
```

```
		this._moveChild(e.target, e.oldLatLng, e.latlng);

		if (isPopupOpen) {
			e.target.openPopup();
		}
}
},

_moveChild: function (layer, from, to) {
layer._latlng = from;
this.removeLayer(layer);

layer._latlng = to;
this.addLayer(layer);
},

_childMarkerDragEnd: function (e) {
if (e.target.__dragStart) {
		this._moveChild(e.target, e.target.__dragStart, e.target._latlng);
}
delete e.target.__dragStart;
},


//Internal function for removing a marker from everything.
//dontUpdateMap: set to true if you will handle updating the map manually (for bulk
functions)
_removeLayer: function (marker, removeFromDistanceGrid, dontUpdateMap) {
var this$1 = this;

var gridClusters = this._gridClusters,
		gridUnclustered = this._gridUnclustered,
		fg = this._featureGroup,
		map = this._map,
		minZoom = Math.floor(this._map.getMinZoom());

//Remove the marker from distance clusters it might be in
if (removeFromDistanceGrid) {
		this._removeFromGridUnclustered(marker, this._maxZoom);
}

//Work our way up the clusters removing them as we go if required
var cluster = marker.__parent,
		markers = cluster._markers,
		otherMarker;
```

```
//Remove the marker from the immediate parents marker list
this._arraySplice(markers, marker);

while (cluster) {
	cluster._childCount--;
	cluster._boundsNeedUpdate = true;

	if (cluster._zoom < minZoom) {
		//Top level, do nothing
		break;
	} else if (removeFromDistanceGrid && cluster._childCount <= 1) { //Cluster no
longer required
		//We need to push the other marker up to the parent
		otherMarker = cluster._markers[0] === marker ? cluster._markers[1] :
cluster._markers[0];

		//Update distance grid
		gridClusters[cluster._zoom].removeObject(cluster,
map.project(cluster._cLatLng, cluster._zoom));
		gridUnclustered[cluster._zoom].addObject(otherMarker,
map.project(otherMarker.getLatLng(), cluster._zoom));

		//Move otherMarker up to parent
		this$1._arraySplice(cluster.__parent._childClusters, cluster);
		cluster.__parent._markers.push(otherMarker);
		otherMarker.__parent = cluster.__parent;

		if (cluster._icon) {
			//Cluster is currently on the map, need to put the marker on the
map instead
			fg.removeLayer(cluster);
			if (!dontUpdateMap) {
				fg.addLayer(otherMarker);
			}
		}
	} else {
		cluster._iconNeedsUpdate = true;
	}

	cluster = cluster.__parent;
}

delete marker.__parent;
},
```

```
_isOrIsParent: function (el, oel) {
while (oel) {
	if (el === oel) {
		return true;
	}
	oel = oel.parentNode;
}
return false;
},

//Override L.Evented.fire
fire: function (type, data, propagate) {
if (data && data.layer instanceof L.MarkerCluster) {
	//Prevent multiple clustermouseover/off events if the icon is made up of stacked
divs (Doesn't work in ie <= 8, no relatedTarget)
	if (data.originalEvent && this._isOrIsParent(data.layer._icon,
data.originalEvent.relatedTarget)) {
		return;
	}
	type = 'cluster' + type;
}

L.FeatureGroup.prototype.fire.call(this, type, data, propagate);
},

//Override L.Evented.listens
listens: function (type, propagate) {
return L.FeatureGroup.prototype.listens.call(this, type, propagate) ||
L.FeatureGroup.prototype.listens.call(this, 'cluster' + type, propagate);
},

//Default functionality
_defaultIconCreateFunction: function (cluster) {
var childCount = cluster.getChildCount();

var c = ' marker-cluster-';
if (childCount < 10) {
	c += 'small';
} else if (childCount < 100) {
	c += 'medium';
} else {
	c += 'large';
}

return new L.DivIcon({ html: '<div><span>' + childCount + '</span></div>', className:
'marker-cluster' + c, iconSize: new L.Point(40, 40) });
```

```
},

_bindEvents: function () {
var map = this._map,
   spiderfyOnMaxZoom = this.options.spiderfyOnMaxZoom,
   showCoverageOnHover = this.options.showCoverageOnHover,
   zoomToBoundsOnClick = this.options.zoomToBoundsOnClick;

//Zoom on cluster click or spiderfy if we are at the lowest level
if (spiderfyOnMaxZoom || zoomToBoundsOnClick) {
        this.on('clusterclick', this._zoomOrSpiderfy, this);
}

//Show convex hull (boundary) polygon on mouse over
if (showCoverageOnHover) {
        this.on('clustermouseover', this._showCoverage, this);
        this.on('clustermouseout', this._hideCoverage, this);
        map.on('zoomend', this._hideCoverage, this);
}
},

_zoomOrSpiderfy: function (e) {
var cluster = e.layer,
   bottomCluster = cluster;

while (bottomCluster._childClusters.length === 1) {
        bottomCluster = bottomCluster._childClusters[0];
}

if (bottomCluster._zoom === this._maxZoom &&
        bottomCluster._childCount === cluster._childCount &&
        this.options.spiderfyOnMaxZoom) {

        // All child markers are contained in a single cluster from this._maxZoom to this
cluster.
        cluster.spiderfy();
} else if (this.options.zoomToBoundsOnClick) {
        cluster.zoomToBounds();
}

// Focus the map again for keyboard users.
if (e.originalEvent && e.originalEvent.keyCode === 13) {
        this._map._container.focus();
}
},
```

```
_showCoverage: function (e) {
var map = this._map;
if (this._inZoomAnimation) {
        return;
}
if (this._shownPolygon) {
        map.removeLayer(this._shownPolygon);
}
if (e.layer.getChildCount() > 2 && e.layer !== this._spiderfied) {
        this._shownPolygon = new L.Polygon(e.layer.getConvexHull(),
this.options.polygonOptions);
        map.addLayer(this._shownPolygon);
}
},

_hideCoverage: function () {
if (this._shownPolygon) {
        this._map.removeLayer(this._shownPolygon);
        this._shownPolygon = null;
}
},

_unbindEvents: function () {
var spiderfyOnMaxZoom = this.options.spiderfyOnMaxZoom,
        showCoverageOnHover = this.options.showCoverageOnHover,
        zoomToBoundsOnClick = this.options.zoomToBoundsOnClick,
        map = this._map;

if (spiderfyOnMaxZoom || zoomToBoundsOnClick) {
        this.off('clusterclick', this._zoomOrSpiderfy, this);
}
if (showCoverageOnHover) {
        this.off('clustermouseover', this._showCoverage, this);
        this.off('clustermouseout', this._hideCoverage, this);
        map.off('zoomend', this._hideCoverage, this);
}
},

_zoomEnd: function () {
if (!this._map) { //May have been removed from the map by a zoomEnd handler
        return;
}
this._mergeSplitClusters();

this._zoom = Math.round(this._map._zoom);
this._currentShownBounds = this._getExpandedVisibleBounds();
```

```
},

_moveEnd: function () {
if (this._inZoomAnimation) {
	return;
}

var newBounds = this._getExpandedVisibleBounds();


this._topClusterLevel._recursivelyRemoveChildrenFromMap(this._currentShownBounds
, Math.floor(this._map.getMinZoom()), this._zoom, newBounds);
this._topClusterLevel._recursivelyAddChildrenToMap(null,
Math.round(this._map._zoom), newBounds);

this._currentShownBounds = newBounds;
return;
},

_generateInitialClusters: function () {
var this$1 = this;

var maxZoom = Math.ceil(this._map.getMaxZoom()),
	minZoom = Math.floor(this._map.getMinZoom()),
	radius = this.options.maxClusterRadius,
	radiusFn = radius;

//If we just set maxClusterRadius to a single number, we need to create
//a simple function to return that number. Otherwise, we just have to
//use the function we've passed in.
if (typeof radius !== "function") {
	radiusFn = function () { return radius; };
}

if (this.options.disableClusteringAtZoom !== null) {
	maxZoom = this.options.disableClusteringAtZoom - 1;
}
this._maxZoom = maxZoom;
this._gridClusters = {};
this._gridUnclustered = {};

//Set up DistanceGrids for each zoom
for (var zoom = maxZoom; zoom >= minZoom; zoom--) {
	this$1._gridClusters[zoom] = new L.DistanceGrid(radiusFn(zoom));
	this$1._gridUnclustered[zoom] = new L.DistanceGrid(radiusFn(zoom));
}
```

```
// Instantiate the appropriate L.MarkerCluster class (animated or not).
this._topClusterLevel = new this._markerCluster(this, minZoom - 1);
},

//Zoom: Zoom to start adding at (Pass this._maxZoom to start at the bottom)
_addLayer: function (layer, zoom) {
var this$1 = this;

var gridClusters = this._gridClusters,
   gridUnclustered = this._gridUnclustered,
        minZoom = Math.floor(this._map.getMinZoom()),
   markerPoint, z;

if (this.options.singleMarkerMode) {
        this._overrideMarkerIcon(layer);
}

layer.on(this._childMarkerEventHandlers, this);

//Find the lowest zoom level to slot this one in
for (; zoom >= minZoom; zoom--) {
        markerPoint = this$1._map.project(layer.getLatLng(), zoom); // calculate pixel
position

        //Try find a cluster close by
        var closest = gridClusters[zoom].getNearObject(markerPoint);
        if (closest) {
                closest._addChild(layer);
                layer.__parent = closest;
                return;
        }

        //Try find a marker close by to form a new cluster with
        closest = gridUnclustered[zoom].getNearObject(markerPoint);
        if (closest) {
                var parent = closest.__parent;
                if (parent) {
                        this$1._removeLayer(closest, false);
                }

                //Create new cluster with these 2 in it

                var newCluster = new this$1._markerCluster(this$1, zoom, closest, layer);
                gridClusters[zoom].addObject(newCluster,
this$1._map.project(newCluster._cLatLng, zoom));
```

```
                closest.__parent = newCluster;
                layer.__parent = newCluster;

                //First create any new intermediate parent clusters that don't exist
                var lastParent = newCluster;
                for (z = zoom - 1; z > parent._zoom; z--) {
                        lastParent = new this$1._markerCluster(this$1, z, lastParent);
                        gridClusters[z].addObject(lastParent,
this$1._map.project(closest.getLatLng(), z));
                }
                parent._addChild(lastParent);

                //Remove closest from this zoom level and any above that it is in, replace
with newCluster
                this$1._removeFromGridUnclustered(closest, zoom);

                return;
        }

        //Didn't manage to cluster in at this zoom, record us as a marker here and continue
upwards
        gridUnclustered[zoom].addObject(layer, markerPoint);
}

//Didn't get in anything, add us to the top
this._topClusterLevel._addChild(layer);
layer.__parent = this._topClusterLevel;
return;
},

/**
 * Refreshes the icon of all "dirty" visible clusters.
 * Non-visible "dirty" clusters will be updated when they are added to the map.
 * @private
 */
_refreshClustersIcons: function () {
this._featureGroup.eachLayer(function (c) {
        if (c instanceof L.MarkerCluster && c._iconNeedsUpdate) {
                c._updateIcon();
        }
});
},

//Enqueue code to fire after the marker expand/contract has happened
_enqueue: function (fn) {
this._queue.push(fn);
```

```
if (!this._queueTimeout) {
        this._queueTimeout = setTimeout(L.bind(this._processQueue, this), 300);
}
},
_processQueue: function () {
var this$1 = this;

for (var i = 0; i < this._queue.length; i++) {
        this$1._queue[i].call(this$1);
}
this._queue.length = 0;
clearTimeout(this._queueTimeout);
this._queueTimeout = null;
},

//Merge and split any existing clusters that are too big or small
_mergeSplitClusters: function () {
var mapZoom = Math.round(this._map._zoom);

//In case we are starting to split before the animation finished
this._processQueue();

if (this._zoom < mapZoom &&
this._currentShownBounds.intersects(this._getExpandedVisibleBounds())) { //Zoom in,
split
        this._animationStart();
        //Remove clusters now off screen

this._topClusterLevel._recursivelyRemoveChildrenFromMap(this._currentShownBounds
, Math.floor(this._map.getMinZoom()), this._zoom, this._getExpandedVisibleBounds());

        this._animationZoomIn(this._zoom, mapZoom);

} else if (this._zoom > mapZoom) { //Zoom out, merge
        this._animationStart();

        this._animationZoomOut(this._zoom, mapZoom);
} else {
        this._moveEnd();
}
},

//Gets the maps visible bounds expanded in each direction by the size of the screen (so
the user cannot see an area we do not cover in one pan)
_getExpandedVisibleBounds: function () {
if (!this.options.removeOutsideVisibleBounds) {
```

```
        return this._mapBoundsInfinite;
} else if (L.Browser.mobile) {
        return this._checkBoundsMaxLat(this._map.getBounds());
}

return this._checkBoundsMaxLat(this._map.getBounds().pad(1)); // Padding expands the
bounds by its own dimensions but scaled with the given factor.
},

/**
 * Expands the latitude to Infinity (or -Infinity) if the input bounds reach the map
projection maximum defined latitude
 * (in the case of Web/Spherical Mercator, it is 85.0511287798 / see
https://en.wikipedia.org/wiki/Web_Mercator#Formulas).
 * Otherwise, the removeOutsideVisibleBounds option will remove markers beyond that
limit, whereas the same markers without
 * this option (or outside MCG) will have their position floored (ceiled) by the projection
and rendered at that limit,
 * making the user think that MCG "eats" them and never displays them again.
 * @param bounds L.LatLngBounds
 * @returns {L.LatLngBounds}
 * @private
 */
_checkBoundsMaxLat: function (bounds) {
var maxLat = this._maxLat;

if (maxLat !== undefined) {
        if (bounds.getNorth() >= maxLat) {
                bounds._northEast.lat = Infinity;
        }
        if (bounds.getSouth() <= -maxLat) {
                bounds._southWest.lat = -Infinity;
        }
}

return bounds;
},

//Shared animation code
_animationAddLayerNonAnimated: function (layer, newCluster) {
if (newCluster === layer) {
        this._featureGroup.addLayer(layer);
} else if (newCluster._childCount === 2) {
        newCluster._addToMap();

        var markers = newCluster.getAllChildMarkers();
```

```
        this._featureGroup.removeLayer(markers[0]);
        this._featureGroup.removeLayer(markers[1]);
} else {
        newCluster._updateIcon();
}
},

/**
 * Extracts individual (i.e. non-group) layers from a Layer Group.
 * @param group to extract layers from.
 * @param output {Array} in which to store the extracted layers.
 * @returns {*|Array}
 * @private
 */
_extractNonGroupLayers: function (group, output) {
var this$1 = this;

var layers = group.getLayers(),
   i = 0,
   layer;

output = output || [];

for (; i < layers.length; i++) {
        layer = layers[i];

        if (layer instanceof L.LayerGroup) {
                this$1._extractNonGroupLayers(layer, output);
                continue;
        }

        output.push(layer);
}

return output;
},

/**
 * Implements the singleMarkerMode option.
 * @param layer Marker to re-style using the Clusters iconCreateFunction.
 * @returns {L.Icon} The newly created icon.
 * @private
 */
_overrideMarkerIcon: function (layer) {
var icon = layer.options.icon = this.options.iconCreateFunction({
        getChildCount: function () {
```

```
                return 1;
            },
            getAllChildMarkers: function () {
                return [layer];
            }
        });

        return icon;
        }
});

// Constant bounds used in case option "removeOutsideVisibleBounds" is set to false.
L.MarkerClusterGroup.include({
        _mapBoundsInfinite: new L.LatLngBounds(new L.LatLng(-Infinity, -Infinity), new
        L.LatLng(Infinity, Infinity))
});

L.MarkerClusterGroup.include({
        _noAnimation: {
        //Non Animated versions of everything
        _animationStart: function () {
                //Do nothing...
        },
        _animationZoomIn: function (previousZoomLevel, newZoomLevel) {

        this._topClusterLevel._recursivelyRemoveChildrenFromMap(this._currentShownBounds
        , Math.floor(this._map.getMinZoom()), previousZoomLevel);
                this._topClusterLevel._recursivelyAddChildrenToMap(null, newZoomLevel,
        this._getExpandedVisibleBounds());

                //We didn't actually animate, but we use this event to mean "clustering animations
        have finished"
                this.fire('animationend');
        },
        _animationZoomOut: function (previousZoomLevel, newZoomLevel) {

        this._topClusterLevel._recursivelyRemoveChildrenFromMap(this._currentShownBounds
        , Math.floor(this._map.getMinZoom()), previousZoomLevel);
                this._topClusterLevel._recursivelyAddChildrenToMap(null, newZoomLevel,
        this._getExpandedVisibleBounds());

                //We didn't actually animate, but we use this event to mean "clustering animations
        have finished"
                this.fire('animationend');
        },
        _animationAddLayer: function (layer, newCluster) {
```

```
        this._animationAddLayerNonAnimated(layer, newCluster);
}
},

_withAnimation: {
//Animated versions here
_animationStart: function () {
        this._map._mapPane.className += ' leaflet-cluster-anim';
        this._inZoomAnimation++;
},

_animationZoomIn: function (previousZoomLevel, newZoomLevel) {
        var bounds = this._getExpandedVisibleBounds(),
            fg = this._featureGroup,
                minZoom = Math.floor(this._map.getMinZoom()),
            i;

        this._ignoreMove = true;

        //Add all children of current clusters to map and remove those clusters from map
        this._topClusterLevel._recursively(bounds, previousZoomLevel, minZoom,
function (c) {
                var startPos = c._latlng,
                   markers  = c._markers,
                   m;

                if (!bounds.contains(startPos)) {
                        startPos = null;
                }

                if (c._isSingleParent() && previousZoomLevel + 1 === newZoomLevel)
{ //Immediately add the new child and remove us
                        fg.removeLayer(c);
                        c._recursivelyAddChildrenToMap(null, newZoomLevel, bounds);
                } else {
                        //Fade out old cluster
                        c.clusterHide();
                        c._recursivelyAddChildrenToMap(startPos, newZoomLevel,
bounds);
                }

                //Remove all markers that aren't visible any more
                //TODO: Do we actually need to do this on the higher levels too?
                for (i = markers.length - 1; i >= 0; i--) {
                        m = markers[i];
                        if (!bounds.contains(m._latlng)) {
```

```
                                fg.removeLayer(m);
                        }
                }

        });

        this._forceLayout();

        //Update opacities
        this._topClusterLevel._recursivelyBecomeVisible(bounds, newZoomLevel);
        //TODO Maybe? Update markers in _recursivelyBecomeVisible
        fg.eachLayer(function (n) {
                if (!(n instanceof L.MarkerCluster) && n._icon) {
                        n.clusterShow();
                }
        });

        //update the positions of the just added clusters/markers
        this._topClusterLevel._recursively(bounds, previousZoomLevel, newZoomLevel,
function (c) {
                c._recursivelyRestoreChildPositions(newZoomLevel);
        });

        this._ignoreMove = false;

        //Remove the old clusters and close the zoom animation
        this._enqueue(function () {
                //update the positions of the just added clusters/markers
                this._topClusterLevel._recursively(bounds, previousZoomLevel,
minZoom, function (c) {
                        fg.removeLayer(c);
                        c.clusterShow();
                });

                this._animationEnd();
        });
},

_animationZoomOut: function (previousZoomLevel, newZoomLevel) {
        this._animationZoomOutSingle(this._topClusterLevel, previousZoomLevel - 1,
newZoomLevel);

        //Need to add markers for those that weren't on the map before but are now
        this._topClusterLevel._recursivelyAddChildrenToMap(null, newZoomLevel,
this._getExpandedVisibleBounds());
        //Remove markers that were on the map before but won't be now
```

```
this._topClusterLevel._recursivelyRemoveChildrenFromMap(this._currentShownBounds
, Math.floor(this._map.getMinZoom()), previousZoomLevel,
this._getExpandedVisibleBounds());
},

_animationAddLayer: function (layer, newCluster) {
        var me = this,
            fg = this._featureGroup;

        fg.addLayer(layer);
        if (newCluster !== layer) {
                if (newCluster._childCount > 2) { //Was already a cluster

                        newCluster._updateIcon();
                        this._forceLayout();
                        this._animationStart();


layer._setPos(this._map.latLngToLayerPoint(newCluster.getLatLng()));
                        layer.clusterHide();

                        this._enqueue(function () {
                                fg.removeLayer(layer);
                                layer.clusterShow();

                                me._animationEnd();
                        });

                } else { //Just became a cluster
                        this._forceLayout();

                        me._animationStart();
                        me._animationZoomOutSingle(newCluster,
this._map.getMaxZoom(), this._zoom);
                }
        }
}
},

// Private methods for animated versions.
_animationZoomOutSingle: function (cluster, previousZoomLevel, newZoomLevel) {
var bounds = this._getExpandedVisibleBounds(),
        minZoom = Math.floor(this._map.getMinZoom());

//Animate all of the markers in the clusters to move to their cluster center point
```

```
cluster._recursivelyAnimateChildrenInAndAddSelfToMap(bounds, minZoom,
previousZoomLevel + 1, newZoomLevel);

var me = this;

//Update the opacity (If we immediately set it they won't animate)
this._forceLayout();
cluster._recursivelyBecomeVisible(bounds, newZoomLevel);

//TODO: Maybe use the transition timing stuff to make this more reliable
//When the animations are done, tidy up
this._enqueue(function () {

        //This cluster stopped being a cluster before the timeout fired
        if (cluster._childCount === 1) {
                var m = cluster._markers[0];
                //If we were in a cluster animation at the time then the opacity and position
of our child could be wrong now, so fix it
                this._ignoreMove = true;
                m.setLatLng(m.getLatLng());
                this._ignoreMove = false;
                if (m.clusterShow) {
                        m.clusterShow();
                }
        } else {
                cluster._recursively(bounds, newZoomLevel, minZoom, function (c) {
                        c._recursivelyRemoveChildrenFromMap(bounds, minZoom,
previousZoomLevel + 1);
                });
        }
        me._animationEnd();
});
},

_animationEnd: function () {
if (this._map) {
        this._map._mapPane.className = this._map._mapPane.className.replace('
leaflet-cluster-anim', '');
}
this._inZoomAnimation--;
this.fire('animationend');
},

//Force a browser layout of stuff in the map
// Should apply the current opacity and location to all elements so we can update them
again for an animation
```

```
        _forceLayout: function () {
        //In my testing this works, infact offsetWidth of any element seems to work.
        //Could loop all this._layers and do this for each _icon if it stops working

        L.Util.falseFn(document.body.offsetWidth);
        }
});

L.markerClusterGroup = function (options) {
        return new L.MarkerClusterGroup(options);
};

var MarkerCluster = L.MarkerCluster = L.Marker.extend({
        options: L.Icon.prototype.options,

        initialize: function (group, zoom, a, b) {

        L.Marker.prototype.initialize.call(this, a ? (a._cLatLng || a.getLatLng()) : new
        L.LatLng(0, 0),
        { icon: this, pane: group.options.clusterPane });

        this._group = group;
        this._zoom = zoom;

        this._markers = [];
        this._childClusters = [];
        this._childCount = 0;
        this._iconNeedsUpdate = true;
        this._boundsNeedUpdate = true;

        this._bounds = new L.LatLngBounds();

        if (a) {
                this._addChild(a);
        }
        if (b) {
                this._addChild(b);
        }
        },

        //Recursively retrieve all child markers of this cluster
        getAllChildMarkers: function (storageArray) {
        var this$1 = this;

        storageArray = storageArray || [];
```

```
for (var i = this._childClusters.length - 1; i >= 0; i--) {
        this$1._childClusters[i].getAllChildMarkers(storageArray);
}

for (var j = this._markers.length - 1; j >= 0; j--) {
        storageArray.push(this$1._markers[j]);
}

return storageArray;
},

//Returns the count of how many child markers we have
getChildCount: function () {
return this._childCount;
},

//Zoom to the minimum of showing all of the child markers, or the extents of this cluster
zoomToBounds: function (fitBoundsOptions) {
var childClusters = this._childClusters.slice(),
        map = this._group._map,
        boundsZoom = map.getBoundsZoom(this._bounds),
        zoom = this._zoom + 1,
        mapZoom = map.getZoom(),
        i;

//calculate how far we need to zoom down to see all of the markers
while (childClusters.length > 0 && boundsZoom > zoom) {
        zoom++;
        var newClusters = [];
        for (i = 0; i < childClusters.length; i++) {
                newClusters = newClusters.concat(childClusters[i]._childClusters);
        }
        childClusters = newClusters;
}

if (boundsZoom > zoom) {
        this._group._map.setView(this._latlng, zoom);
} else if (boundsZoom <= mapZoom) { //If fitBounds wouldn't zoom us down, zoom us
down instead
        this._group._map.setView(this._latlng, mapZoom + 1);
} else {
        this._group._map.fitBounds(this._bounds, fitBoundsOptions);
}
},

getBounds: function () {
```

```
var bounds = new L.LatLngBounds();
bounds.extend(this._bounds);
return bounds;
},

_updateIcon: function () {
this._iconNeedsUpdate = true;
if (this._icon) {
        this.setIcon(this);
}
},

//Cludge for Icon, we pretend to be an icon for performance
createIcon: function () {
if (this._iconNeedsUpdate) {
        this._iconObj = this._group.options.iconCreateFunction(this);
        this._iconNeedsUpdate = false;
}
return this._iconObj.createIcon();
},
createShadow: function () {
return this._iconObj.createShadow();
},


_addChild: function (new1, isNotificationFromChild) {

this._iconNeedsUpdate = true;

this._boundsNeedUpdate = true;
this._setClusterCenter(new1);

if (new1 instanceof L.MarkerCluster) {
        if (!isNotificationFromChild) {
                this._childClusters.push(new1);
                new1.__parent = this;
        }
        this._childCount += new1._childCount;
} else {
        if (!isNotificationFromChild) {
                this._markers.push(new1);
        }
        this._childCount++;
}

if (this.__parent) {
```

```
        this.__parent._addChild(new1, true);
}
},

/**
 * Makes sure the cluster center is set. If not, uses the child center if it is a cluster, or the marker position.
 * @param child L.MarkerCluster|L.Marker that will be used as cluster center if not defined yet.
 * @private
 */
_setClusterCenter: function (child) {
if (!this._cLatLng) {
        // when clustering, take position of the first point as the cluster center
        this._cLatLng = child._cLatLng || child._latlng;
}
},

/**
 * Assigns impossible bounding values so that the next extend entirely determines the new bounds.
 * This method avoids having to trash the previous L.LatLngBounds object and to create a new one, which is much slower for this class.
 * As long as the bounds are not extended, most other methods would probably fail, as they would with bounds initialized but not extended.
 * @private
 */
_resetBounds: function () {
var bounds = this._bounds;

if (bounds._southWest) {
        bounds._southWest.lat = Infinity;
        bounds._southWest.lng = Infinity;
}
if (bounds._northEast) {
        bounds._northEast.lat = -Infinity;
        bounds._northEast.lng = -Infinity;
}
},

_recalculateBounds: function () {
var this$1 = this;

var markers = this._markers,
   childClusters = this._childClusters,
   latSum = 0,
```

```
    lngSum = 0,
    totalCount = this._childCount,
    i, child, childLatLng, childCount;

// Case where all markers are removed from the map and we are left with just an empty
_topClusterLevel.
if (totalCount === 0) {
        return;
}

// Reset rather than creating a new object, for performance.
this._resetBounds();

// Child markers.
for (i = 0; i < markers.length; i++) {
        childLatLng = markers[i]._latlng;

        this$1._bounds.extend(childLatLng);

        latSum += childLatLng.lat;
        lngSum += childLatLng.lng;
}

// Child clusters.
for (i = 0; i < childClusters.length; i++) {
        child = childClusters[i];

        // Re-compute child bounds and weighted position first if necessary.
        if (child._boundsNeedUpdate) {
                child._recalculateBounds();
        }

        this$1._bounds.extend(child._bounds);

        childLatLng = child._wLatLng;
        childCount = child._childCount;

        latSum += childLatLng.lat * childCount;
        lngSum += childLatLng.lng * childCount;
}

this._latlng = this._wLatLng = new L.LatLng(latSum / totalCount, lngSum / totalCount);

// Reset dirty flag.
this._boundsNeedUpdate = false;
},
```

```
//Set our markers position as given and add it to the map
_addToMap: function (startPos) {
if (startPos) {
	this._backupLatlng = this._latlng;
	this.setLatLng(startPos);
}
this._group._featureGroup.addLayer(this);
},

_recursivelyAnimateChildrenIn: function (bounds, center, maxZoom) {
this._recursively(bounds, this._group._map.getMinZoom(), maxZoom - 1,
	function (c) {
		var markers = c._markers,
			i, m;
		for (i = markers.length - 1; i >= 0; i--) {
			m = markers[i];

			//Only do it if the icon is still on the map
			if (m._icon) {
				m._setPos(center);
				m.clusterHide();
			}
		}
	},
	function (c) {
		var childClusters = c._childClusters,
			j, cm;
		for (j = childClusters.length - 1; j >= 0; j--) {
			cm = childClusters[j];
			if (cm._icon) {
				cm._setPos(center);
				cm.clusterHide();
			}
		}
	}
);
},

_recursivelyAnimateChildrenInAndAddSelfToMap: function (bounds, mapMinZoom,
previousZoomLevel, newZoomLevel) {
this._recursively(bounds, newZoomLevel, mapMinZoom,
	function (c) {
		c._recursivelyAnimateChildrenIn(bounds,
c._group._map.latLngToLayerPoint(c.getLatLng()).round(), previousZoomLevel);
```

```
                //TODO: depthToAnimateIn affects _isSingleParent, if there is a
multizoom we may/may not be.
                //As a hack we only do a animation free zoom on a single level zoom, if
someone does multiple levels then we always animate
                if (c._isSingleParent() && previousZoomLevel - 1 === newZoomLevel) {
                        c.clusterShow();
                        c._recursivelyRemoveChildrenFromMap(bounds, mapMinZoom,
previousZoomLevel); //Immediately remove our children as we are replacing them.
TODO previousBounds not bounds
                } else {
                        c.clusterHide();
                }

                c._addToMap();
        }
);
},

_recursivelyBecomeVisible: function (bounds, zoomLevel) {
this._recursively(bounds, this._group._map.getMinZoom(), zoomLevel, null, function (c)
{
        c.clusterShow();
});
},

_recursivelyAddChildrenToMap: function (startPos, zoomLevel, bounds) {
this._recursively(bounds, this._group._map.getMinZoom() - 1, zoomLevel,
        function (c) {
                if (zoomLevel === c._zoom) {
                        return;
                }

                //Add our child markers at startPos (so they can be animated out)
                for (var i = c._markers.length - 1; i >= 0; i--) {
                        var nm = c._markers[i];

                        if (!bounds.contains(nm._latlng)) {
                                continue;
                        }

                        if (startPos) {
                                nm._backupLatlng = nm.getLatLng();

                                nm.setLatLng(startPos);
                                if (nm.clusterHide) {
                                        nm.clusterHide();
```

```
                                }
                        }

                                c._group._featureGroup.addLayer(nm);
                        }
                },
                function (c) {
                        c._addToMap(startPos);
                }
);
},

_recursivelyRestoreChildPositions: function (zoomLevel) {
var this$1 = this;

//Fix positions of child markers
for (var i = this._markers.length - 1; i >= 0; i--) {
        var nm = this$1._markers[i];
        if (nm._backupLatlng) {
                nm.setLatLng(nm._backupLatlng);
                delete nm._backupLatlng;
        }
}

if (zoomLevel - 1 === this._zoom) {
        //Reposition child clusters
        for (var j = this._childClusters.length - 1; j >= 0; j--) {
                this$1._childClusters[j]._restorePosition();
        }
} else {
        for (var k = this._childClusters.length - 1; k >= 0; k--) {
                this$1._childClusters[k]._recursivelyRestoreChildPositions(zoomLevel);
        }
}
},

_restorePosition: function () {
if (this._backupLatlng) {
        this.setLatLng(this._backupLatlng);
        delete this._backupLatlng;
}
},

//exceptBounds: If set, don't remove any markers/clusters in it
_recursivelyRemoveChildrenFromMap: function (previousBounds, mapMinZoom,
zoomLevel, exceptBounds) {
```

```
var m, i;
this._recursively(previousBounds, mapMinZoom - 1, zoomLevel - 1,
        function (c) {
                //Remove markers at every level
                for (i = c._markers.length - 1; i >= 0; i--) {
                        m = c._markers[i];
                        if (!exceptBounds || !exceptBounds.contains(m._latlng)) {
                                c._group._featureGroup.removeLayer(m);
                                if (m.clusterShow) {
                                        m.clusterShow();
                                }
                        }
                }
        },
        function (c) {
                //Remove child clusters at just the bottom level
                for (i = c._childClusters.length - 1; i >= 0; i--) {
                        m = c._childClusters[i];
                        if (!exceptBounds || !exceptBounds.contains(m._latlng)) {
                                c._group._featureGroup.removeLayer(m);
                                if (m.clusterShow) {
                                        m.clusterShow();
                                }
                        }
                }
        }
);
},

//Run the given functions recursively to this and child clusters
// boundsToApplyTo: a L.LatLngBounds representing the bounds of what clusters to
recurse in to
// zoomLevelToStart: zoom level to start running functions (inclusive)
// zoomLevelToStop: zoom level to stop running functions (inclusive)
// runAtEveryLevel: function that takes an L.MarkerCluster as an argument that should be
applied on every level
// runAtBottomLevel: function that takes an L.MarkerCluster as an argument that should
be applied at only the bottom level
_recursively: function (boundsToApplyTo, zoomLevelToStart, zoomLevelToStop,
runAtEveryLevel, runAtBottomLevel) {
var childClusters = this._childClusters,
   zoom = this._zoom,
   i, c;

if (zoomLevelToStart <= zoom) {
        if (runAtEveryLevel) {
```

```
                        runAtEveryLevel(this);
                }
                if (runAtBottomLevel && zoom === zoomLevelToStop) {
                        runAtBottomLevel(this);
                }
        }

        if (zoom < zoomLevelToStart || zoom < zoomLevelToStop) {
                for (i = childClusters.length - 1; i >= 0; i--) {
                        c = childClusters[i];
                        if (boundsToApplyTo.intersects(c._bounds)) {
                                c._recursively(boundsToApplyTo, zoomLevelToStart,
        zoomLevelToStop, runAtEveryLevel, runAtBottomLevel);
                        }
                }
        }
        },

        //Returns true if we are the parent of only one cluster and that cluster is the same as us
        _isSingleParent: function () {
        //Don't need to check this._markers as the rest won't work if there are any
        return this._childClusters.length > 0 && this._childClusters[0]._childCount ===
        this._childCount;
        }
});

/*
* Extends L.Marker to include two extra methods: clusterHide and clusterShow.
*
* They work as setOpacity(0) and setOpacity(1) respectively, but
* they will remember the marker's opacity when hiding and showing it again.
*
*/


L.Marker.include({

        clusterHide: function () {
        this.options.opacityWhenUnclustered = this.options.opacity || 1;
        return this.setOpacity(0);
        },

        clusterShow: function () {
        var ret = this.setOpacity(this.options.opacity || this.options.opacityWhenUnclustered);
        delete this.options.opacityWhenUnclustered;
        return ret;
```

```
        }

});

L.DistanceGrid = function (cellSize) {
        this._cellSize = cellSize;
        this._sqCellSize = cellSize * cellSize;
        this._grid = {};
        this._objectPoint = { };
};

L.DistanceGrid.prototype = {

        addObject: function (obj, point) {
        var x = this._getCoord(point.x),
            y = this._getCoord(point.y),
            grid = this._grid,
            row = grid[y] = grid[y] || {},
            cell = row[x] = row[x] || [],
            stamp = L.Util.stamp(obj);

        this._objectPoint[stamp] = point;

        cell.push(obj);
        },

        updateObject: function (obj, point) {
        this.removeObject(obj);
        this.addObject(obj, point);
        },

        //Returns true if the object was found
        removeObject: function (obj, point) {
        var x = this._getCoord(point.x),
            y = this._getCoord(point.y),
            grid = this._grid,
            row = grid[y] = grid[y] || {},
            cell = row[x] = row[x] || [],
            i, len;

        delete this._objectPoint[L.Util.stamp(obj)];

        for (i = 0, len = cell.length; i < len; i++) {
                if (cell[i] === obj) {

                        cell.splice(i, 1);
```

```
                if (len === 1) {
                        delete row[x];
                }

                return true;
        }
}

},

eachObject: function (fn, context) {
var i, j, k, len, row, cell, removed,
   grid = this._grid;

for (i in grid) {
        row = grid[i];

        for (j in row) {
                cell = row[j];

                for (k = 0, len = cell.length; k < len; k++) {
                        removed = fn.call(context, cell[k]);
                        if (removed) {
                                k--;
                                len--;
                        }
                }
        }
}
},

getNearObject: function (point) {
var this$1 = this;

var x = this._getCoord(point.x),
   y = this._getCoord(point.y),
   i, j, k, row, cell, len, obj, dist,
   objectPoint = this._objectPoint,
   closestDistSq = this._sqCellSize,
   closest = null;

for (i = y - 1; i <= y + 1; i++) {
        row = this$1._grid[i];
        if (row) {
```

```
                        for (j = x - 1; j <= x + 1; j++) {
                                cell = row[j];
                                if (cell) {

                                        for (k = 0, len = cell.length; k < len; k++) {
                                                obj = cell[k];
                                                dist =
        this$1._sqDist(objectPoint[L.Util.stamp(obj)], point);
                                                if (dist < closestDistSq ||
                                                        dist <= closestDistSq && closest === null)
        {
                                                        closestDistSq = dist;
                                                        closest = obj;
                                                }
                                        }
                                }
                        }
                }
        }
        return closest;
        },

        _getCoord: function (x) {
        var coord = Math.floor(x / this._cellSize);
        return isFinite(coord) ? coord : x;
        },

        _sqDist: function (p, p2) {
        var dx = p2.x - p.x,
            dy = p2.y - p.y;
        return dx * dx + dy * dy;
        }
};
```

/* Copyright (c) 2012 the authors listed at the following URL, and/or
the authors of referenced articles or incorporated external code:
http://en.literateprograms.org/Quickhull_(Javascript)?action=history&offset=20120410175256

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*/

```
(function () {
	L.QuickHull = {

	/*
	 * @param {Object} cpt a point to be measured from the baseline
	 * @param {Array} bl the baseline, as represented by a two-element
	 *   array of latlng objects.
	 * @returns {Number} an approximate distance measure
	 */
	getDistant: function (cpt, bl) {
		var vY = bl[1].lat - bl[0].lat,
			vX = bl[0].lng - bl[1].lng;
		return (vX * (cpt.lat - bl[0].lat) + vY * (cpt.lng - bl[0].lng));
	},

	/*
	 * @param {Array} baseLine a two-element array of latlng objects
	 *   representing the baseline to project from
	 * @param {Array} latLngs an array of latlng objects
	 * @returns {Object} the maximum point and all new points to stay
	 *   in consideration for the hull.
	 */
	findMostDistantPointFromBaseLine: function (baseLine, latLngs) {
		var this$1 = this;

		var maxD = 0,
			maxPt = null,
			newPoints = [],
			i, pt, d;
```

```
        for (i = latLngs.length - 1; i >= 0; i--) {
                pt = latLngs[i];
                d = this$1.getDistant(pt, baseLine);

                if (d > 0) {
                        newPoints.push(pt);
                } else {
                        continue;
                }

                if (d > maxD) {
                        maxD = d;
                        maxPt = pt;
                }
        }

        return { maxPoint: maxPt, newPoints: newPoints };
},


/*
 * Given a baseline, compute the convex hull of latLngs as an array
 * of latLngs.
 *
 * @param {Array} latLngs
 * @returns {Array}
 */
buildConvexHull: function (baseLine, latLngs) {
        var convexHullBaseLines = [],
                t = this.findMostDistantPointFromBaseLine(baseLine, latLngs);

        if (t.maxPoint) { // if there is still a point "outside" the base line
                convexHullBaseLines =
                        convexHullBaseLines.concat(
                                this.buildConvexHull([baseLine[0], t.maxPoint],
t.newPoints)
                        );
                convexHullBaseLines =
                        convexHullBaseLines.concat(
                                this.buildConvexHull([t.maxPoint, baseLine[1]],
t.newPoints)
                        );
                return convexHullBaseLines;
        } else {  // if there is no more point "outside" the base line, the current base line is
part of the convex hull
                return [baseLine[0]];
```

```
        }
},

/*
 * Given an array of latlngs, compute a convex hull as an array
 * of latlngs
 *
 * @param {Array} latLngs
 * @returns {Array}
 */
getConvexHull: function (latLngs) {
        // find first baseline
        var maxLat = false, minLat = false,
                maxLng = false, minLng = false,
                maxLatPt = null, minLatPt = null,
                maxLngPt = null, minLngPt = null,
                maxPt = null, minPt = null,
                i;

        for (i = latLngs.length - 1; i >= 0; i--) {
                var pt = latLngs[i];
                if (maxLat === false || pt.lat > maxLat) {
                        maxLatPt = pt;
                        maxLat = pt.lat;
                }
                if (minLat === false || pt.lat < minLat) {
                        minLatPt = pt;
                        minLat = pt.lat;
                }
                if (maxLng === false || pt.lng > maxLng) {
                        maxLngPt = pt;
                        maxLng = pt.lng;
                }
                if (minLng === false || pt.lng < minLng) {
                        minLngPt = pt;
                        minLng = pt.lng;
                }
        }

        if (minLat !== maxLat) {
                minPt = minLatPt;
                maxPt = maxLatPt;
        } else {
                minPt = minLngPt;
                maxPt = maxLngPt;
        }
```

```
                var ch = [].concat(this.buildConvexHull([minPt, maxPt], latLngs),
                                                        this.buildConvexHull([maxPt, minPt],
        latLngs));
                return ch;
        }
        };
}());

L.MarkerCluster.include({
        getConvexHull: function () {
        var childMarkers = this.getAllChildMarkers(),
                points = [],
                p, i;

        for (i = childMarkers.length - 1; i >= 0; i--) {
                p = childMarkers[i].getLatLng();
                points.push(p);
        }

        return L.QuickHull.getConvexHull(points);
        }
});

//This code is 100% based on https://github.com/jawj/OverlappingMarkerSpiderfier-Leaflet
//Huge thanks to jawj for implementing it first to make my job easy :-)

L.MarkerCluster.include({

        _2PI: Math.PI * 2,
        _circleFootSeparation: 25, //related to circumference of circle
        _circleStartAngle: 0,

        _spiralFootSeparation:  28, //related to size of spiral (experiment!)
        _spiralLengthStart: 11,
        _spiralLengthFactor: 5,

        _circleSpiralSwitchover: 9, //show spiral instead of circle from this marker count
        upwards.
                                                        // 0 -> always spiral; Infinity -> always
        circle

        spiderfy: function () {
        if (this._group._spiderfied === this || this._group._inZoomAnimation) {
                return;
        }
```

```
var childMarkers = this.getAllChildMarkers(),
        group = this._group,
        map = group._map,
        center = map.latLngToLayerPoint(this._latlng),
        positions;

this._group._unspiderfy();
this._group._spiderfied = this;

//TODO Maybe: childMarkers order by distance to center

if (childMarkers.length >= this._circleSpiralSwitchover) {
        positions = this._generatePointsSpiral(childMarkers.length, center);
} else {
        center.y += 10; // Otherwise circles look wrong => hack for standard blue icon,
renders differently for other icons.
        positions = this._generatePointsCircle(childMarkers.length, center);
}

this._animationSpiderfy(childMarkers, positions);
},

unspiderfy: function (zoomDetails) {
/// <param Name="zoomDetails">Argument from zoomanim if being called in a zoom
animation or null otherwise</param>
if (this._group._inZoomAnimation) {
        return;
}
this._animationUnspiderfy(zoomDetails);

this._group._spiderfied = null;
},

_generatePointsCircle: function (count, centerPt) {
var this$1 = this;

var circumference = this._group.options.spiderfyDistanceMultiplier *
this._circleFootSeparation * (2 + count),
        legLength = circumference / this._2PI,  //radius from circumference
        angleStep = this._2PI / count,
        res = [],
        i, angle;

legLength = Math.max(legLength, 35); // Minimum distance to get outside the cluster
icon.
```

```
res.length = count;

for (i = 0; i < count; i++) { // Clockwise, like spiral.
	angle = this$1._circleStartAngle + i * angleStep;
	res[i] = new L.Point(centerPt.x + legLength * Math.cos(angle), centerPt.y +
legLength * Math.sin(angle))._round();
}

return res;
},

_generatePointsSpiral: function (count, centerPt) {
var spiderfyDistanceMultiplier = this._group.options.spiderfyDistanceMultiplier,
	legLength = spiderfyDistanceMultiplier * this._spiralLengthStart,
	separation = spiderfyDistanceMultiplier * this._spiralFootSeparation,
	lengthFactor = spiderfyDistanceMultiplier * this._spiralLengthFactor * this._2PI,
	angle = 0,
	res = [],
	i;

res.length = count;

// Higher index, closer position to cluster center.
for (i = count; i >= 0; i--) {
	// Skip the first position, so that we are already farther from center and we avoid
	// being under the default cluster icon (especially important for Circle Markers).
	if (i < count) {
		res[i] = new L.Point(centerPt.x + legLength * Math.cos(angle), centerPt.y
+ legLength * Math.sin(angle))._round();
	}
	angle += separation / legLength + i * 0.0005;
	legLength += lengthFactor / angle;
}
return res;
},

_noanimationUnspiderfy: function () {
var group = this._group,
	map = group._map,
	fg = group._featureGroup,
	childMarkers = this.getAllChildMarkers(),
	m, i;

group._ignoreMove = true;
```

```
		this.setOpacity(1);
		for (i = childMarkers.length - 1; i >= 0; i--) {
			m = childMarkers[i];

			fg.removeLayer(m);

			if (m._preSpiderfyLatlng) {
				m.setLatLng(m._preSpiderfyLatlng);
				delete m._preSpiderfyLatlng;
			}
			if (m.setZIndexOffset) {
				m.setZIndexOffset(0);
			}

			if (m._spiderLeg) {
				map.removeLayer(m._spiderLeg);
				delete m._spiderLeg;
			}
		}

		group.fire('unspiderfied', {
			cluster: this,
			markers: childMarkers
		});
		group._ignoreMove = false;
		group._spiderfied = null;
		}
});

//Non Animated versions of everything
L.MarkerClusterNonAnimated = L.MarkerCluster.extend({
		_animationSpiderfy: function (childMarkers, positions) {
		var this$1 = this;

		var group = this._group,
			map = group._map,
			fg = group._featureGroup,
			legOptions = this._group.options.spiderLegPolylineOptions,
			i, m, leg, newPos;

		group._ignoreMove = true;

		// Traverse in ascending order to make sure that inner circleMarkers are on top of further
		legs. Normal markers are re-ordered by newPosition.
		// The reverse order trick no longer improves performance on modern browsers.
		for (i = 0; i < childMarkers.length; i++) {
```

```
                newPos = map.layerPointToLatLng(positions[i]);
                m = childMarkers[i];

                // Add the leg before the marker, so that in case the latter is a circleMarker, the leg
        is behind it.
                leg = new L.Polyline([this$1._latlng, newPos], legOptions);
                map.addLayer(leg);
                m._spiderLeg = leg;

                // Now add the marker.
                m._preSpiderfyLatlng = m._latlng;
                m.setLatLng(newPos);
                if (m.setZIndexOffset) {
                        m.setZIndexOffset(1000000); //Make these appear on top of
        EVERYTHING
                }

                fg.addLayer(m);
        }
        this.setOpacity(0.3);

        group._ignoreMove = false;
        group.fire('spiderfied', {
                cluster: this,
                markers: childMarkers
        });
        },

        _animationUnspiderfy: function () {
        this._noanimationUnspiderfy();
        }
});

//Animated versions here
L.MarkerCluster.include({

        _animationSpiderfy: function (childMarkers, positions) {
        var me = this,
                group = this._group,
                map = group._map,
                fg = group._featureGroup,
                thisLayerLatLng = this._latlng,
                thisLayerPos = map.latLngToLayerPoint(thisLayerLatLng),
                svg = L.Path.SVG,
                legOptions = L.extend({}, this._group.options.spiderLegPolylineOptions), //
        Copy the options so that we can modify them for animation.
```

```
        finalLegOpacity = legOptions.opacity,
        i, m, leg, legPath, legLength, newPos;

if (finalLegOpacity === undefined) {
        finalLegOpacity =
L.MarkerClusterGroup.prototype.options.spiderLegPolylineOptions.opacity;
}

if (svg) {
        // If the initial opacity of the spider leg is not 0 then it appears before the
animation starts.
        legOptions.opacity = 0;

        // Add the class for CSS transitions.
        legOptions.className = (legOptions.className || '') + ' leaflet-cluster-spider-leg';
} else {
        // Make sure we have a defined opacity.
        legOptions.opacity = finalLegOpacity;
}

group._ignoreMove = true;

// Add markers and spider legs to map, hidden at our center point.
// Traverse in ascending order to make sure that inner circleMarkers are on top of further
legs. Normal markers are re-ordered by newPosition.
// The reverse order trick no longer improves performance on modern browsers.
for (i = 0; i < childMarkers.length; i++) {
        m = childMarkers[i];

        newPos = map.layerPointToLatLng(positions[i]);

        // Add the leg before the marker, so that in case the latter is a circleMarker, the leg
is behind it.
        leg = new L.Polyline([thisLayerLatLng, newPos], legOptions);
        map.addLayer(leg);
        m._spiderLeg = leg;

        // Explanations: https://jakearchibald.com/2013/animated-line-drawing-svg/
        // In our case the transition property is declared in the CSS file.
        if (svg) {
                legPath = leg._path;
                legLength = legPath.getTotalLength() + 0.1; // Need a small extra length
to avoid remaining dot in Firefox.
                legPath.style.strokeDasharray = legLength; // Just 1 length is enough, it
will be duplicated.
                legPath.style.strokeDashoffset = legLength;
```

```
        }

        // If it is a marker, add it now and we'll animate it out
        if (m.setZIndexOffset) {
                m.setZIndexOffset(1000000); // Make normal markers appear on top of
EVERYTHING
        }
        if (m.clusterHide) {
                m.clusterHide();
        }

        // Vectors just get immediately added
        fg.addLayer(m);

        if (m._setPos) {
                m._setPos(thisLayerPos);
        }
}

group._forceLayout();
group._animationStart();

// Reveal markers and spider legs.
for (i = childMarkers.length - 1; i >= 0; i--) {
        newPos = map.layerPointToLatLng(positions[i]);
        m = childMarkers[i];

        //Move marker to new position
        m._preSpiderfyLatlng = m._latlng;
        m.setLatLng(newPos);

        if (m.clusterShow) {
                m.clusterShow();
        }

        // Animate leg (animation is actually delegated to CSS transition).
        if (svg) {
                leg = m._spiderLeg;
                legPath = leg._path;
                legPath.style.strokeDashoffset = 0;
                //legPath.style.strokeOpacity = finalLegOpacity;
                leg.setStyle({opacity: finalLegOpacity});
        }
}
this.setOpacity(0.3);
```

```
group._ignoreMove = false;

setTimeout(function () {
        group._animationEnd();
        group.fire('spiderfied', {
                cluster: me,
                markers: childMarkers
        });
}, 200);
},

_animationUnspiderfy: function (zoomDetails) {
var me = this,
        group = this._group,
        map = group._map,
        fg = group._featureGroup,
        thisLayerPos = zoomDetails ? map._latLngToNewLayerPoint(this._latlng,
zoomDetails.zoom, zoomDetails.center) : map.latLngToLayerPoint(this._latlng),
        childMarkers = this.getAllChildMarkers(),
        svg = L.Path.SVG,
        m, i, leg, legPath, legLength, nonAnimatable;

group._ignoreMove = true;
group._animationStart();

//Make us visible and bring the child markers back in
this.setOpacity(1);
for (i = childMarkers.length - 1; i >= 0; i--) {
        m = childMarkers[i];

        //Marker was added to us after we were spiderfied
        if (!m._preSpiderfyLatlng) {
                continue;
        }

        //Close any popup on the marker first, otherwise setting the location of the marker
will make the map scroll
        m.closePopup();

        //Fix up the location to the real one
        m.setLatLng(m._preSpiderfyLatlng);
        delete m._preSpiderfyLatlng;

        //Hack override the location to be our center
        nonAnimatable = true;
        if (m._setPos) {
```

```
                m._setPos(thisLayerPos);
                nonAnimatable = false;
        }
        if (m.clusterHide) {
                m.clusterHide();
                nonAnimatable = false;
        }
        if (nonAnimatable) {
                fg.removeLayer(m);
        }

        // Animate the spider leg back in (animation is actually delegated to CSS
transition).
        if (svg) {
                leg = m._spiderLeg;
                legPath = leg._path;
                legLength = legPath.getTotalLength() + 0.1;
                legPath.style.strokeDashoffset = legLength;
                leg.setStyle({opacity: 0});
        }
}

group._ignoreMove = false;

setTimeout(function () {
        //If we have only <= one child left then that marker will be shown on the map so
don't remove it!
        var stillThereChildCount = 0;
        for (i = childMarkers.length - 1; i >= 0; i--) {
                m = childMarkers[i];
                if (m._spiderLeg) {
                        stillThereChildCount++;
                }
        }


        for (i = childMarkers.length - 1; i >= 0; i--) {
                m = childMarkers[i];

                if (!m._spiderLeg) { //Has already been unspiderfied
                        continue;
                }

                if (m.clusterShow) {
                        m.clusterShow();
                }
```

```
                        if (m.setZIndexOffset) {
                                m.setZIndexOffset(0);
                        }

                        if (stillThereChildCount > 1) {
                                fg.removeLayer(m);
                        }

                        map.removeLayer(m._spiderLeg);
                        delete m._spiderLeg;
                }
                group._animationEnd();
                group.fire('unspiderfied', {
                        cluster: me,
                        markers: childMarkers
                });
        }, 200);
        }
});


L.MarkerClusterGroup.include({
        //The MarkerCluster currently spiderfied (if any)
        _spiderfied: null,

        unspiderfy: function () {
        this._unspiderfy.apply(this, arguments);
        },

        _spiderfierOnAdd: function () {
        this._map.on('click', this._unspiderfyWrapper, this);

        if (this._map.options.zoomAnimation) {
                this._map.on('zoomstart', this._unspiderfyZoomStart, this);
        }
        //Browsers without zoomAnimation or a big zoom don't fire zoomstart
        this._map.on('zoomend', this._noanimationUnspiderfy, this);

        if (!L.Browser.touch) {
                this._map.getRenderer(this);
                //Needs to happen in the pageload, not after, or animations don't work in webkit
                //  http://stackoverflow.com/questions/8455200/svg-animate-with-dynamically-
        added-elements
                //Disable on touch browsers as the animation messes up on a touch zoom and isn't
        very noticable
        }
```

```
},

_spiderfierOnRemove: function () {
this._map.off('click', this._unspiderfyWrapper, this);
this._map.off('zoomstart', this._unspiderfyZoomStart, this);
this._map.off('zoomanim', this._unspiderfyZoomAnim, this);
this._map.off('zoomend', this._noanimationUnspiderfy, this);

//Ensure that markers are back where they should be
// Use no animation to avoid a sticky leaflet-cluster-anim class on mapPane
this._noanimationUnspiderfy();
},

//On zoom start we add a zoomanim handler so that we are guaranteed to be last (after
markers are animated)
//This means we can define the animation they do rather than Markers doing an animation
to their actual location
_unspiderfyZoomStart: function () {
if (!this._map) { //May have been removed from the map by a zoomEnd handler
        return;
}

this._map.on('zoomanim', this._unspiderfyZoomAnim, this);
},

_unspiderfyZoomAnim: function (zoomDetails) {
//Wait until the first zoomanim after the user has finished touch-zooming before running
the animation
if (L.DomUtil.hasClass(this._map._mapPane, 'leaflet-touching')) {
        return;
}

this._map.off('zoomanim', this._unspiderfyZoomAnim, this);
this._unspiderfy(zoomDetails);
},

_unspiderfyWrapper: function () {
/// <summary>_unspiderfy but passes no arguments</summary>
this._unspiderfy();
},

_unspiderfy: function (zoomDetails) {
if (this._spiderfied) {
        this._spiderfied.unspiderfy(zoomDetails);
}
},
```

```
	_noanimationUnspiderfy: function () {
	if (this._spiderfied) {
		this._spiderfied._noanimationUnspiderfy();
	}
	},

	//If the given layer is currently being spiderfied then we unspiderfy it so it isn't on the
	map anymore etc
	_unspiderfyLayer: function (layer) {
	if (layer._spiderLeg) {
		this._featureGroup.removeLayer(layer);

		if (layer.clusterShow) {
			layer.clusterShow();
		}
			//Position will be fixed up immediately in _animationUnspiderfy
		if (layer.setZIndexOffset) {
			layer.setZIndexOffset(0);
		}

		this._map.removeLayer(layer._spiderLeg);
		delete layer._spiderLeg;
	}
	}
});

/**
 * Adds 1 public method to MCG and 1 to L.Marker to facilitate changing
 * markers' icon options and refreshing their icon and their parent clusters
 * accordingly (case where their iconCreateFunction uses data of childMarkers
 * to make up the cluster icon).
 */


L.MarkerClusterGroup.include({
	/**
	 * Updates the icon of all clusters which are parents of the given marker(s).
	 * In singleMarkerMode, also updates the given marker(s) icon.
	 * @param layers
	L.MarkerClusterGroup|L.LayerGroup|Array(L.Marker)|Map(L.Marker)|
	 * L.MarkerCluster|L.Marker (optional) list of markers (or single marker) whose parent
	 * clusters need to be updated. If not provided, retrieves all child markers of this.
	 * @returns {L.MarkerClusterGroup}
	 */
	refreshClusters: function (layers) {
```

```
if (!layers) {
	layers = this._topClusterLevel.getAllChildMarkers();
} else if (layers instanceof L.MarkerClusterGroup) {
	layers = layers._topClusterLevel.getAllChildMarkers();
} else if (layers instanceof L.LayerGroup) {
	layers = layers._layers;
} else if (layers instanceof L.MarkerCluster) {
	layers = layers.getAllChildMarkers();
} else if (layers instanceof L.Marker) {
	layers = [layers];
} // else: must be an Array(L.Marker)|Map(L.Marker)
this._flagParentsIconsNeedUpdate(layers);
this._refreshClustersIcons();

// In case of singleMarkerMode, also re-draw the markers.
if (this.options.singleMarkerMode) {
	this._refreshSingleMarkerModeMarkers(layers);
}

return this;
},

/**
 * Simply flags all parent clusters of the given markers as having a "dirty" icon.
 * @param layers Array(L.Marker)|Map(L.Marker) list of markers.
 * @private
 */
_flagParentsIconsNeedUpdate: function (layers) {
var id, parent;

// Assumes layers is an Array or an Object whose prototype is non-enumerable.
for (id in layers) {
	// Flag parent clusters' icon as "dirty", all the way up.
	// Dumb process that flags multiple times upper parents, but still
	// much more efficient than trying to be smart and make short lists,
	// at least in the case of a hierarchy following a power law:
	// http://jsperf.com/flag-nodes-in-power-hierarchy/2
	parent = layers[id].__parent;
	while (parent) {
		parent._iconNeedsUpdate = true;
		parent = parent.__parent;
	}
}
},

/**
```

```
		 * Re-draws the icon of the supplied markers.
		 * To be used in singleMarkerMode only.
		 * @param layers Array(L.Marker)|Map(L.Marker) list of markers.
		 * @private
		 */
		_refreshSingleMarkerModeMarkers: function (layers) {
		var this$1 = this;

		var id, layer;

		for (id in layers) {
			layer = layers[id];

			// Make sure we do not override markers that do not belong to THIS group.
			if (this$1.hasLayer(layer)) {
				// Need to re-create the icon first, then re-draw the marker.
				layer.setIcon(this$1._overrideMarkerIcon(layer));
			}
		}
		}
});

L.Marker.include({
		/**
		 * Updates the given options in the marker's icon and refreshes the marker.
		 * @param options map object of icon options.
		 * @param directlyRefreshClusters boolean (optional) true to trigger
		 * MCG.refreshClustersOf() right away with this single marker.
		 * @returns {L.Marker}
		 */
		refreshIconOptions: function (options, directlyRefreshClusters) {
		var icon = this.options.icon;

		L.setOptions(icon, options);

		this.setIcon(icon);

		// Shortcut to refresh the associated MCG clusters right away.
		// To be used when refreshing a single marker.
		// Otherwise, better use MCG.refreshClusters() once at the end with
		// the list of modified markers.
		if (directlyRefreshClusters && this.__parent) {
			this.__parent._group.refreshClusters(this);
		}

		return this;
```

```
	}
});

exports.MarkerClusterGroup = MarkerClusterGroup;
exports.MarkerCluster = MarkerCluster;

})));
//# sourceMappingURL=leaflet.markercluster-src.js.map
});

var leafletVectorMarkers = createCommonjsModule(function (module, exports) {
(function webpackUniversalModuleDefinition(root, factory) {
	{ module.exports = factory(leafletSrc); }
})(commonjsGlobal, function(__WEBPACK_EXTERNAL_MODULE_1__) {
return /******/ (function(modules) { // webpackBootstrap
/******/ 	// The module cache
/******/ 	var installedModules = {};

/******/ 	// The require function
/******/ 	function __webpack_require__(moduleId) {

/******/ 		// Check if module is in cache
/******/ 		if(installedModules[moduleId])
/******/ 			{ return installedModules[moduleId].exports; }

/******/ 		// Create a new module (and put it into the cache)
/******/ 		var module = installedModules[moduleId] = {
/******/ 			exports: {},
/******/ 			id: moduleId,
/******/ 			loaded: false
/******/ 		};

/******/ 		// Execute the module function
/******/ 		modules[moduleId].call(module.exports, module, module.exports,
	__webpack_require__);

/******/ 		// Flag the module as loaded
/******/ 		module.loaded = true;

/******/ 		// Return the exports of the module
/******/ 		return module.exports;
/******/ 	}


/******/ 	// expose the modules object (__webpack_modules__)
/******/ 	__webpack_require__.m = modules;
```

```
/******/ 	// expose the module cache
/******/ 	__webpack_require__.c = installedModules;

/******/ 	// __webpack_public_path__
/******/ 	__webpack_require__.p = "";

/******/ 	// Load entry module and return exports
/******/ 	return __webpack_require__(0);
/******/ })
/************************************************************************/
/******/ ([
/* 0 */
/***/ function(module, exports, __webpack_require__) {

	Object.defineProperty(exports, "__esModule", {
	  value: true
	});
	exports.Icon = exports.VectorMarkers = undefined;

	var _leaflet = __webpack_require__(1);

	var _leaflet2 = _interopRequireDefault(_leaflet);

	var _VectorMarkers2 = __webpack_require__(2);

	var _VectorMarkers3 = _interopRequireDefault(_VectorMarkers2);

	var _Icon2 = __webpack_require__(3);

	var _Icon3 = _interopRequireDefault(_Icon2);

	function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default:
	obj }; }

	exports.VectorMarkers = _VectorMarkers3.default;
	exports.Icon = _Icon3.default;


	_leaflet2.default.VectorMarkers = _VectorMarkers3.default;

/***/ },
/* 1 */
/***/ function(module, exports) {

	module.exports = __WEBPACK_EXTERNAL_MODULE_1__;
```

```
/***/ },
/* 2 */
/***/ function(module, exports, __webpack_require__) {

        Object.defineProperty(exports, "__esModule", {
          value: true
        });

        var _Icon = __webpack_require__(3);

        var _Icon2 = _interopRequireDefault(_Icon);

        function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default:
        obj }; }

        exports.default = {
          version: '1.0.0',

          Icon: _Icon2.default,

          icon: function icon(options) {
            return new _Icon2.default(options);
          }
        };

/***/ },
/* 3 */
/***/ function(module, exports, __webpack_require__) {

        Object.defineProperty(exports, "__esModule", {
          value: true
        });

        var _createClass = function () { function defineProperties(target, props) { for (var i = 0; i
        < props.length; i++) { var descriptor = props[i]; descriptor.enumerable =
        descriptor.enumerable || false; descriptor.configurable = true; if ("value" in descriptor)
        { descriptor.writable = true; } Object.defineProperty(target, descriptor.key,
        descriptor); } } return function (Constructor, protoProps, staticProps) { if (protoProps)
        { defineProperties(Constructor.prototype, protoProps); } if (staticProps)
        { defineProperties(Constructor, staticProps); } return Constructor; }; }();

        var _leaflet = __webpack_require__(1);

        var _leaflet2 = _interopRequireDefault(_leaflet);
```

```
function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default:
obj }; }

function _classCallCheck(instance, Constructor) { if (!(instance instanceof Constructor))
{ throw new TypeError("Cannot call a class as a function"); } }

function _possibleConstructorReturn(self, call) { if (!self) { throw new
ReferenceError("this hasn't been initialised - super() hasn't been called"); } return call
&& (typeof call === "object" || typeof call === "function") ? call : self; }

function _inherits(subClass, superClass) { if (typeof superClass !== "function" &&
superClass !== null) { throw new TypeError("Super expression must either be null or a
function, not " + typeof superClass); } subClass.prototype = Object.create(superClass &&
superClass.prototype, { constructor: { value: subClass, enumerable: false, writable: true,
configurable: true } }); if (superClass) { Object.setPrototypeOf ?
Object.setPrototypeOf(subClass, superClass) : subClass.__proto__ = superClass; } }

var iconOptions = {
  iconSize: [30, 50],
  iconAnchor: [15, 50],
  popupAnchor: [2, -40],
  shadowAnchor: [39, 45],
  shadowSize: [54, 51],
  className: 'vector-marker',
  prefix: 'fa',
  spinClass: 'fa-spin',
  extraIconClasses: '',
  extraDivClasses: '',
  icon: 'home',
  markerColor: 'blue',
  iconColor: 'white',
  viewBox: '0 0 32 52'
};

var mapPin = 'M16,1 C7.7146,1 1,7.65636364 1,15.8648485 C1,24.0760606 16,51 16,51
C16,51 31,24.0760606 31,15.8648485 C31,7.65636364 24.2815,1 16,1 L16,1 Z';

var Icon = function (_Leaflet$Icon) {
  _inherits(Icon, _Leaflet$Icon);

  function Icon(options) {
    _classCallCheck(this, Icon);

    var _this = _possibleConstructorReturn(this, Object.getPrototypeOf(Icon).call(this,
options));
```

```
    _leaflet2.default.Util.setOptions(_this, iconOptions);
    _leaflet2.default.Util.setOptions(_this, options);
    return _this;
  }

  _createClass(Icon, [{
    key: 'createIcon',
    value: function createIcon(oldIcon) {
      var div = oldIcon && oldIcon.tagName === 'DIV' ? oldIcon :
document.createElement('div');
      var options = this.options;
      var pin_path = options.map_pin || mapPin;

      div.innerHTML = '<svg width="' + options.iconSize[0] + 'px" height="' +
options.iconSize[1] + 'px" viewBox="' + options.viewBox + '" version="1.1"
xmlns="http://www.w3.org/2000/svg"
xmlns:xlink="http://www.w3.org/1999/xlink"><path d="' + pin_path + '" fill="' +
options.markerColor + '"></path></svg>';

      if (options.icon) {
        div.appendChild(this._createInner());
      }

      options.className += options.className.length > 0 ? ' ' + options.extraDivClasses :
options.extraDivClasses;
      this._setIconStyles(div, 'icon');
      this._setIconStyles(div, 'icon-' + options.markerColor);
      return div;
    }
  }, {
    key: 'createShadow',
    value: function createShadow() {
      var div = document.createElement('div');
      this._setIconStyles(div, 'shadow');
      return div;
    }
  }, {
    key: '_createInner',
    value: function _createInner() {
      var i = document.createElement('i');
      var options = this.options;

      i.classList.add(options.prefix);
      if (options.extraClasses) {
        i.classList.add(options.extraClasses);
      }
```

```
      if (options.icon.slice(0, options.prefix.length + 1) === options.prefix + '-') {
        i.classList.add(options.icon);
      } else {
        i.classList.add(options.prefix + '-' + options.icon);
      }
      if (options.spin && typeof options.spinClass === 'string') {
        i.classList.add(options.spinClass);
      }
      if (options.iconColor) {
        if (options.iconColor === 'white' || options.iconColor === 'black') {
          i.classList.add('icon-' + options.iconColor);
        } else {
          i.style.color = options.iconColor;
        }
      }
      if (options.iconSize) {
        i.style.width = options.iconSize[0] + 'px';
      }
      return i;
    }
  }, {
    key: '_setIconStyles',
    value: function _setIconStyles(img, name) {
      var options = this.options;
      var size = _leaflet2.default.point(options[name === 'shadow' ? 'shadowSize' :
'iconSize']);
      var anchor = void 0;

      if (name === 'shadow') {
        anchor = _leaflet2.default.point(options.shadowAnchor || options.iconAnchor);
      } else {
        anchor = _leaflet2.default.point(options.iconAnchor);
      }
      if (!anchor && size) {
        anchor = size.divideBy(2, true);
      }
      img.className = 'vector-marker-' + name + ' ' + options.className;
      if (anchor) {
        img.style.marginLeft = -anchor.x + 'px';
        img.style.marginTop = -anchor.y + 'px';
      }
      if (size) {
        img.style.width = size.x + 'px';
        img.style.height = size.y + 'px';
      }
    }
```

```
        }]);

        return Icon;
      }(_leaflet2.default.Icon);

      exports.default = Icon;

/***/ }
/******/ ])
});
});

unwrapExports(leafletVectorMarkers);

var marked = createCommonjsModule(function (module, exports) {
(function(root) {

/**
 * Block-Level Grammar
 */

var block = {
  newline: /^\n+/,
  code: /^( {4}[^\n]+\n*)+/,
  fences: noop,
  hr: /^ {0,3}((?:- *){3,}|(?:_ *){3,}|(?:\* *){3,})(?:\n+|$)/,
  heading: /^ *(#{1,6}) *([^\n]+?) *#* *(?:\n+|$)/,
  nptable: noop,
  blockquote: /^( {0,3}> ?(paragraph|[^\n]*)(?:\n|$))+/,
  list: /^( *)(bull) [\s\S]+?(?:hr|def|\n{2,}(?! )(?!\1bull )\n*|\s*$)/,
  html: /^ *(?:comment *(?:\n|\s*$)|closed *(?:\n{2,}|\s*$)|closing *(?:\n{2,}|\s*$))/,
  def: /^ {0,3}\[(label)\]: *\n? *<?([^\s>]+)>?(?:(?: +\n? *| *\n *)(title))? *(?:\n+|$)/,
  table: noop,
  lheading: /^([^\n]+)\n *(=|-){2,} *(?:\n+|$)/,
  paragraph: /^([^\n]+(?:\n?(?!hr|heading|lheading| {0,3}>|tag)[^\n]+)+)/,
  text: /^[^\n]+/
};

block._label = /(?:\\[\[\]]|[^\[\]])+/;
block._title = /(?:"(?:\\"|[^"]|"[^"\n]*")*"|'\n?(?:[^'\n]+\n?)*'|\([^()]*\))/;
block.def = edit(block.def)
  .replace('label', block._label)
  .replace('title', block._title)
  .getRegex();

block.bullet = /(?:[*+-]|\d+\.)/;
```

```
block.item = /^( *)(bull) [^\n]*(?:\n(?!\1bull )[^\n]*)*/;
block.item = edit(block.item, 'gm')
  .replace(/bull/g, block.bullet)
  .getRegex();

block.list = edit(block.list)
  .replace(/bull/g, block.bullet)
  .replace('hr', '\\n+(?=\\1?(?:(?:- *){3,}|(?:_ *){3,}|(?:\\* *){3,})(?:\\n+|$))')
  .replace('def', '\\n+(?=' + block.def.source + ')')
  .getRegex();

block._tag = '(?!(?:'
  + 'a|em|strong|small|s|cite|q|dfn|abbr|data|time|code'
  + '|var|samp|kbd|sub|sup|i|b|u|mark|ruby|rt|rp|bdi|bdo'
  + '|span|br|wbr|ins|del|img)\\b)\\w+(?!:|[^\\w\\s@]*@)\\b';

block.html = edit(block.html)
  .replace('comment', /<!--[\s\S]*?-->/)
  .replace('closed', /<(tag)[\s\S]+?<\/\1>/)
  .replace('closing', /<tag(?:"[^"]*"|'[^']*'|\s[^'"\/>\s]*)*?\/?>/)
  .replace(/tag/g, block._tag)
  .getRegex();

block.paragraph = edit(block.paragraph)
  .replace('hr', block.hr)
  .replace('heading', block.heading)
  .replace('lheading', block.lheading)
  .replace('tag', '<' + block._tag)
  .getRegex();

block.blockquote = edit(block.blockquote)
  .replace('paragraph', block.paragraph)
  .getRegex();

/**
 * Normal Block Grammar
 */

block.normal = merge({}, block);

/**
 * GFM Block Grammar
 */

block.gfm = merge({}, block.normal, {
  fences: /^ *(`{3,}|~{3,})[ \.]*(\S+)? *\n([\s\S]*?)\n? *\1 *(?:\n+|$)/,
```

```
  paragraph: /^/,
  heading: /^ *(#{1,6}) +([^\n]+?) *#* *(?:\n+|$)/
});

block.gfm.paragraph = edit(block.paragraph)
  .replace('(?!', '(?!'
    + block.gfm.fences.source.replace('\\1', '\\2') + '|'
    + block.list.source.replace('\\1', '\\3') + '|')
  .getRegex();

/**
 * GFM + Tables Block Grammar
 */

block.tables = merge({}, block.gfm, {
  nptable: /^ *(\S.*\|.*)\n *([-:]+ *\|[-| :]*)\n((?:.*\|.*(?:\n|$))*)\n*/,
  table: /^ *\|(.+)\n *\|( *[-:]+[-| :]*)\n((?: *\|.*(?:\n|$))*)\n*/
});

/**
 * Block Lexer
 */

function Lexer(options) {
  this.tokens = [];
  this.tokens.links = {};
  this.options = options || marked.defaults;
  this.rules = block.normal;

  if (this.options.gfm) {
    if (this.options.tables) {
      this.rules = block.tables;
    } else {
      this.rules = block.gfm;
    }
  }
}

/**
 * Expose Block Rules
 */

Lexer.rules = block;

/**
 * Static Lex Method
```

```
 */

Lexer.lex = function(src, options) {
  var lexer = new Lexer(options);
  return lexer.lex(src);
};

/**
 * Preprocessing
 */

Lexer.prototype.lex = function(src) {
  src = src
    .replace(/\r\n|\r/g, '\n')
    .replace(/\t/g, '    ')
    .replace(/\u00a0/g, ' ')
    .replace(/\u2424/g, '\n');

  return this.token(src, true);
};

/**
 * Lexing
 */

Lexer.prototype.token = function(src, top) {
  var this$1 = this;

  src = src.replace(/^ +$/gm, '');
  var next,
      loose,
      cap,
      bull,
      b,
      item,
      space,
      i,
      tag,
      l;

  while (src) {
    // newline
    if (cap = this$1.rules.newline.exec(src)) {
      src = src.substring(cap[0].length);
      if (cap[0].length > 1) {
        this$1.tokens.push({
```

```
      type: 'space'
    });
  }
}

// code
if (cap = this$1.rules.code.exec(src)) {
  src = src.substring(cap[0].length);
  cap = cap[0].replace(/^ {4}/gm, '');
  this$1.tokens.push({
    type: 'code',
    text: !this$1.options.pedantic
      ? cap.replace(/\n+$/, '')
      : cap
  });
  continue;
}

// fences (gfm)
if (cap = this$1.rules.fences.exec(src)) {
  src = src.substring(cap[0].length);
  this$1.tokens.push({
    type: 'code',
    lang: cap[2],
    text: cap[3] || ''
  });
  continue;
}

// heading
if (cap = this$1.rules.heading.exec(src)) {
  src = src.substring(cap[0].length);
  this$1.tokens.push({
    type: 'heading',
    depth: cap[1].length,
    text: cap[2]
  });
  continue;
}

// table no leading pipe (gfm)
if (top && (cap = this$1.rules.nptable.exec(src))) {
  src = src.substring(cap[0].length);

  item = {
    type: 'table',
```

```
    header: cap[1].replace(/^ *| *\| *$/g, '').split(/ *\| */),
    align: cap[2].replace(/^ *|\| *$/g, '').split(/ *\| */),
    cells: cap[3].replace(/\n$/, '').split('\n')
  };

  for (i = 0; i < item.align.length; i++) {
    if (/^ *-+: *$/.test(item.align[i])) {
      item.align[i] = 'right';
    } else if (/^ *:-+: *$/.test(item.align[i])) {
      item.align[i] = 'center';
    } else if (/^ *:-+ *$/.test(item.align[i])) {
      item.align[i] = 'left';
    } else {
      item.align[i] = null;
    }
  }

  for (i = 0; i < item.cells.length; i++) {
    item.cells[i] = item.cells[i].split(/ *\| */);
  }

  this$1.tokens.push(item);

  continue;
}

// hr
if (cap = this$1.rules.hr.exec(src)) {
  src = src.substring(cap[0].length);
  this$1.tokens.push({
    type: 'hr'
  });
  continue;
}

// blockquote
if (cap = this$1.rules.blockquote.exec(src)) {
  src = src.substring(cap[0].length);

  this$1.tokens.push({
    type: 'blockquote_start'
  });

  cap = cap[0].replace(/^ *> ?/gm, '');

  // Pass `top` to keep the current
```

```
  // "toplevel" state. This is exactly
  // how markdown.pl works.
  this$1.token(cap, top);

  this$1.tokens.push({
    type: 'blockquote_end'
  });

  continue;
}

// list
if (cap = this$1.rules.list.exec(src)) {
  src = src.substring(cap[0].length);
  bull = cap[2];

  this$1.tokens.push({
    type: 'list_start',
    ordered: bull.length > 1
  });

  // Get each top-level item.
  cap = cap[0].match(this$1.rules.item);

  next = false;
  l = cap.length;
  i = 0;

  for (; i < l; i++) {
    item = cap[i];

    // Remove the list item's bullet
    // so it is seen as the next token.
    space = item.length;
    item = item.replace(/^ *([*+-]|\d+\.) +/, '');

    // Outdent whatever the
    // list item contains. Hacky.
    if (~item.indexOf('\n ')) {
      space -= item.length;
      item = !this$1.options.pedantic
        ? item.replace(new RegExp('^ {1,' + space + '}', 'gm'), '')
        : item.replace(/^ {1,4}/gm, '');
    }

    // Determine whether the next list item belongs here.
```

```
    // Backpedal if it does not belong in this list.
    if (this$1.options.smartLists && i !== l - 1) {
      b = block.bullet.exec(cap[i + 1])[0];
      if (bull !== b && !(bull.length > 1 && b.length > 1)) {
        src = cap.slice(i + 1).join('\n') + src;
        i = l - 1;
      }
    }

    // Determine whether item is loose or not.
    // Use: /(^|\n)(?! )[^\n]+\n\n(?!\s*$)/
    // for discount behavior.
    loose = next || /\n\n(?!\s*$)/.test(item);
    if (i !== l - 1) {
      next = item.charAt(item.length - 1) === '\n';
      if (!loose) { loose = next; }
    }

    this$1.tokens.push({
      type: loose
        ? 'loose_item_start'
        : 'list_item_start'
    });

    // Recurse.
    this$1.token(item, false);

    this$1.tokens.push({
      type: 'list_item_end'
    });
  }

  this$1.tokens.push({
    type: 'list_end'
  });

  continue;
}

// html
if (cap = this$1.rules.html.exec(src)) {
  src = src.substring(cap[0].length);
  this$1.tokens.push({
    type: this$1.options.sanitize
      ? 'paragraph'
      : 'html',
```

```
    pre: !this$1.options.sanitizer
      && (cap[1] === 'pre' || cap[1] === 'script' || cap[1] === 'style'),
    text: cap[0]
  });
  continue;
}

// def
if (top && (cap = this$1.rules.def.exec(src))) {
  src = src.substring(cap[0].length);
  if (cap[3]) { cap[3] = cap[3].substring(1, cap[3].length - 1); }
  tag = cap[1].toLowerCase();
  if (!this$1.tokens.links[tag]) {
    this$1.tokens.links[tag] = {
      href: cap[2],
      title: cap[3]
    };
  }
  continue;
}

// table (gfm)
if (top && (cap = this$1.rules.table.exec(src))) {
  src = src.substring(cap[0].length);

  item = {
    type: 'table',
    header: cap[1].replace(/^ *| *\| *$/g, '').split(/ *\| */),
    align: cap[2].replace(/^ *|\| *$/g, '').split(/ *\| */),
    cells: cap[3].replace(/(?: *\| *)?\n$/, '').split('\n')
  };

  for (i = 0; i < item.align.length; i++) {
    if (/^ *-+: *$/.test(item.align[i])) {
      item.align[i] = 'right';
    } else if (/^ *:-+: *$/.test(item.align[i])) {
      item.align[i] = 'center';
    } else if (/^ *:-+ *$/.test(item.align[i])) {
      item.align[i] = 'left';
    } else {
      item.align[i] = null;
    }
  }

  for (i = 0; i < item.cells.length; i++) {
    item.cells[i] = item.cells[i]
```

```
      .replace(/^ *\| *| *\| *$/g, '')
      .split(/ *\| */);
  }

  this$1.tokens.push(item);

  continue;
}

// lheading
if (cap = this$1.rules.lheading.exec(src)) {
  src = src.substring(cap[0].length);
  this$1.tokens.push({
    type: 'heading',
    depth: cap[2] === '=' ? 1 : 2,
    text: cap[1]
  });
  continue;
}

// top-level paragraph
if (top && (cap = this$1.rules.paragraph.exec(src))) {
  src = src.substring(cap[0].length);
  this$1.tokens.push({
    type: 'paragraph',
    text: cap[1].charAt(cap[1].length - 1) === '\n'
      ? cap[1].slice(0, -1)
      : cap[1]
  });
  continue;
}

// text
if (cap = this$1.rules.text.exec(src)) {
  // Top-level should never reach here.
  src = src.substring(cap[0].length);
  this$1.tokens.push({
    type: 'text',
    text: cap[0]
  });
  continue;
}

if (src) {
  throw new Error('Infinite loop on byte: ' + src.charCodeAt(0));
}
```

```
  }

  return this.tokens;
};

/**
 * Inline-Level Grammar
 */

var inline = {
  escape: /^\\([\\`*{}\[\]()#+\-.!_>])/,
  autolink: /^<(scheme:[^\s\x00-\x1f<>]*|email)>/,
  url: noop,
  tag: /^<!--[\s\S]*?-->|^<\/?[a-zA-Z0-9\-]+(?:"[^"]*"|'[^']*'|\s[^<'">\/\s]*)*?\/?>/,
  link: /^!?\[(inside)\]\(href\)/,
  reflink: /^!?\[(inside)\]\s*\[([^\]]*)\]/,
  nolink: /^!?\[((?:\[[^\[\]]*\]|\\[\[\]]|[^\[\]])*)\]/,
  strong: /^__([\s\S]+?)__(?!_)|^\*\*([\s\S]+?)\*\*(?!\*)/,
  em: /^_([^\s_](?:[^_]|__)+?[^\s_])_\b|^\*((?:\*\*|[^*])+?)\*(?!\*)/,
  code: /^(`+)\s*([\s\S]*?[^`]?)\s*\1(?!`)/,
  br: /^ {2,}\n(?!\s*$)/,
  del: noop,
  text: /^[\s\S]+?(?=[\\<!\[`*]\b_| {2,}\n|$)/
};

inline._scheme = /[a-zA-Z][a-zA-Z0-9+.-]{1,31}/;
inline._email = /[a-zA-Z0-9.!#$%&'*+/=?^_`{|}~-]+(@)[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-
        zA-Z0-9])?(?:\.[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?)+(?![-_])/;

inline.autolink = edit(inline.autolink)
  .replace('scheme', inline._scheme)
  .replace('email', inline._email)
  .getRegex();

inline._inside = /(?:\[[^\[\]]*\]|\\[\[\]]|[^\[\]]|\](?=[^\[]*\]))*/;
inline._href = /\s*<?([\s\S]*?)>?(?:\s+['"]([\s\S]*?)['"])?\s*/;

inline.link = edit(inline.link)
  .replace('inside', inline._inside)
  .replace('href', inline._href)
  .getRegex();

inline.reflink = edit(inline.reflink)
  .replace('inside', inline._inside)
  .getRegex();
```

```
/**
 * Normal Inline Grammar
 */

inline.normal = merge({}, inline);

/**
 * Pedantic Inline Grammar
 */

inline.pedantic = merge({}, inline.normal, {
  strong: /^__(?=\S)([\s\S]*?\S)__(?!_)|^\*\*(?=\S)([\s\S]*?\S)\*\*(?!\*)/,
  em: /^_(?=\S)([\s\S]*?\S)_(?!_)|^\*(?=\S)([\s\S]*?\S)\*(?!\*)/
});

/**
 * GFM Inline Grammar
 */

inline.gfm = merge({}, inline.normal, {
  escape: edit(inline.escape).replace(']', '~|])').getRegex(),
  url: edit(/^((?:ftp|https?):\/\/|www\.)(?:[a-zA-Z0-9\-]+\.?)+[^\s<]*|^email/)
    .replace('email', inline._email)
    .getRegex(),
  _backpedal: /(?:[^?!.,:;*_~()&]+|\([^)]*\)|&(?![a-zA-Z0-9]+;$)|[?!.,:;*_~)]+(?!$))+/,
  del: /^~~(?=\S)([\s\S]*?\S)~~/,
  text: edit(inline.text)
    .replace(']|', '~]|')
    .replace('|', '|https?://|ftp://|www\\.|[a-zA-Z0-9.!#$%&\'*+/=?^_`{\\|}~-]+@|')
    .getRegex()
});

/**
 * GFM + Line Breaks Inline Grammar
 */

inline.breaks = merge({}, inline.gfm, {
  br: edit(inline.br).replace('{2,}', '*').getRegex(),
  text: edit(inline.gfm.text).replace('{2,}', '*').getRegex()
});

/**
 * Inline Lexer & Compiler
 */

function InlineLexer(links, options) {
```

```
  this.options = options || marked.defaults;
  this.links = links;
  this.rules = inline.normal;
  this.renderer = this.options.renderer || new Renderer();
  this.renderer.options = this.options;

  if (!this.links) {
    throw new Error('Tokens array requires a `links` property.');
  }

  if (this.options.gfm) {
    if (this.options.breaks) {
      this.rules = inline.breaks;
    } else {
      this.rules = inline.gfm;
    }
  } else if (this.options.pedantic) {
    this.rules = inline.pedantic;
  }
}

/**
 * Expose Inline Rules
 */

InlineLexer.rules = inline;

/**
 * Static Lexing/Compiling Method
 */

InlineLexer.output = function(src, links, options) {
  var inline = new InlineLexer(links, options);
  return inline.output(src);
};

/**
 * Lexing/Compiling
 */

InlineLexer.prototype.output = function(src) {
  var this$1 = this;

  var out = '',
      link,
      text,
```

```
    href,
    cap;

  while (src) {
    // escape
    if (cap = this$1.rules.escape.exec(src)) {
      src = src.substring(cap[0].length);
      out += cap[1];
      continue;
    }

    // autolink
    if (cap = this$1.rules.autolink.exec(src)) {
      src = src.substring(cap[0].length);
      if (cap[2] === '@') {
        text = escape(this$1.mangle(cap[1]));
        href = 'mailto:' + text;
      } else {
        text = escape(cap[1]);
        href = text;
      }
      out += this$1.renderer.link(href, null, text);
      continue;
    }

    // url (gfm)
    if (!this$1.inLink && (cap = this$1.rules.url.exec(src))) {
      cap[0] = this$1.rules._backpedal.exec(cap[0])[0];
      src = src.substring(cap[0].length);
      if (cap[2] === '@') {
        text = escape(cap[0]);
        href = 'mailto:' + text;
      } else {
        text = escape(cap[0]);
        if (cap[1] === 'www.') {
          href = 'http://' + text;
        } else {
          href = text;
        }
      }
      out += this$1.renderer.link(href, null, text);
      continue;
    }

    // tag
    if (cap = this$1.rules.tag.exec(src)) {
```

```
  if (!this$1.inLink && /^<a /i.test(cap[0])) {
    this$1.inLink = true;
  } else if (this$1.inLink && /^<\/a>/i.test(cap[0])) {
    this$1.inLink = false;
  }
  src = src.substring(cap[0].length);
  out += this$1.options.sanitize
    ? this$1.options.sanitizer
      ? this$1.options.sanitizer(cap[0])
      : escape(cap[0])
    : cap[0];
  continue;
}

// link
if (cap = this$1.rules.link.exec(src)) {
  src = src.substring(cap[0].length);
  this$1.inLink = true;
  out += this$1.outputLink(cap, {
    href: cap[2],
    title: cap[3]
  });
  this$1.inLink = false;
  continue;
}

// reflink, nolink
if ((cap = this$1.rules.reflink.exec(src))
    || (cap = this$1.rules.nolink.exec(src))) {
  src = src.substring(cap[0].length);
  link = (cap[2] || cap[1]).replace(/\s+/g, ' ');
  link = this$1.links[link.toLowerCase()];
  if (!link || !link.href) {
    out += cap[0].charAt(0);
    src = cap[0].substring(1) + src;
    continue;
  }
  this$1.inLink = true;
  out += this$1.outputLink(cap, link);
  this$1.inLink = false;
  continue;
}

// strong
if (cap = this$1.rules.strong.exec(src)) {
  src = src.substring(cap[0].length);
```

```
      out += this$1.renderer.strong(this$1.output(cap[2] || cap[1]));
      continue;
    }

    // em
    if (cap = this$1.rules.em.exec(src)) {
      src = src.substring(cap[0].length);
      out += this$1.renderer.em(this$1.output(cap[2] || cap[1]));
      continue;
    }

    // code
    if (cap = this$1.rules.code.exec(src)) {
      src = src.substring(cap[0].length);
      out += this$1.renderer.codespan(escape(cap[2].trim(), true));
      continue;
    }

    // br
    if (cap = this$1.rules.br.exec(src)) {
      src = src.substring(cap[0].length);
      out += this$1.renderer.br();
      continue;
    }

    // del (gfm)
    if (cap = this$1.rules.del.exec(src)) {
      src = src.substring(cap[0].length);
      out += this$1.renderer.del(this$1.output(cap[1]));
      continue;
    }

    // text
    if (cap = this$1.rules.text.exec(src)) {
      src = src.substring(cap[0].length);
      out += this$1.renderer.text(escape(this$1.smartypants(cap[0])));
      continue;
    }

    if (src) {
      throw new Error('Infinite loop on byte: ' + src.charCodeAt(0));
    }
  }

  return out;
};
```

```
/**
 * Compile Link
 */

InlineLexer.prototype.outputLink = function(cap, link) {
  var href = escape(link.href),
      title = link.title ? escape(link.title) : null;

  return cap[0].charAt(0) !== '!'
    ? this.renderer.link(href, title, this.output(cap[1]))
    : this.renderer.image(href, title, escape(cap[1]));
};

/**
 * Smartypants Transformations
 */

InlineLexer.prototype.smartypants = function(text) {
  if (!this.options.smartypants) { return text; }
  return text
    // em-dashes
    .replace(/---/g, '\u2014')
    // en-dashes
    .replace(/--/g, '\u2013')
    // opening singles
    .replace(/(^|[-\u2014/(\[{"\s])'/g, '$1\u2018')
    // closing singles & apostrophes
    .replace(/'/g, '\u2019')
    // opening doubles
    .replace(/(^|[-\u2014/(\[{\u2018\s])"/g, '$1\u201c')
    // closing doubles
    .replace(/"/g, '\u201d')
    // ellipses
    .replace(/\.{3}/g, '\u2026');
};

/**
 * Mangle Links
 */

InlineLexer.prototype.mangle = function(text) {
  if (!this.options.mangle) { return text; }
  var out = '',
      l = text.length,
      i = 0,
```

```
      ch;

  for (; i < l; i++) {
    ch = text.charCodeAt(i);
    if (Math.random() > 0.5) {
      ch = 'x' + ch.toString(16);
    }
    out += '&#' + ch + ';';
  }

  return out;
};

/**
 * Renderer
 */

function Renderer(options) {
  this.options = options || {};
}

Renderer.prototype.code = function(code, lang, escaped) {
  if (this.options.highlight) {
    var out = this.options.highlight(code, lang);
    if (out != null && out !== code) {
      escaped = true;
      code = out;
    }
  }

  if (!lang) {
    return '<pre><code>'
      + (escaped ? code : escape(code, true))
      + '\n</code></pre>';
  }

  return '<pre><code class="'
    + this.options.langPrefix
    + escape(lang, true)
    + '">'
    + (escaped ? code : escape(code, true))
    + '\n</code></pre>\n';
};

Renderer.prototype.blockquote = function(quote) {
  return '<blockquote>\n' + quote + '</blockquote>\n';
```

```
};

Renderer.prototype.html = function(html) {
  return html;
};

Renderer.prototype.heading = function(text, level, raw) {
  return '<h'
    + level
    + ' id="'
    + this.options.headerPrefix
    + raw.toLowerCase().replace(/[^\w]+/g, '-')
    + '">'
    + text
    + '</h'
    + level
    + '>\n';
};

Renderer.prototype.hr = function() {
  return this.options.xhtml ? '<hr/>\n' : '<hr>\n';
};

Renderer.prototype.list = function(body, ordered) {
  var type = ordered ? 'ol' : 'ul';
  return '<' + type + '>\n' + body + '</' + type + '>\n';
};

Renderer.prototype.listitem = function(text) {
  return '<li>' + text + '</li>\n';
};

Renderer.prototype.paragraph = function(text) {
  return '<p>' + text + '</p>\n';
};

Renderer.prototype.table = function(header, body) {
  return '<table>\n'
    + '<thead>\n'
    + header
    + '</thead>\n'
    + '<tbody>\n'
    + body
    + '</tbody>\n'
    + '</table>\n';
};
```

```
Renderer.prototype.tablerow = function(content) {
  return '<tr>\n' + content + '</tr>\n';
};

Renderer.prototype.tablecell = function(content, flags) {
  var type = flags.header ? 'th' : 'td';
  var tag = flags.align
    ? '<' + type + ' style="text-align:' + flags.align + '">'
    : '<' + type + '>';
  return tag + content + '</' + type + '>\n';
};

// span level renderer
Renderer.prototype.strong = function(text) {
  return '<strong>' + text + '</strong>';
};

Renderer.prototype.em = function(text) {
  return '<em>' + text + '</em>';
};

Renderer.prototype.codespan = function(text) {
  return '<code>' + text + '</code>';
};

Renderer.prototype.br = function() {
  return this.options.xhtml ? '<br/>' : '<br>';
};

Renderer.prototype.del = function(text) {
  return '<del>' + text + '</del>';
};

Renderer.prototype.link = function(href, title, text) {
  if (this.options.sanitize) {
    try {
      var prot = decodeURIComponent(unescape(href))
        .replace(/[^\w:]/g, '')
        .toLowerCase();
    } catch (e) {
      return text;
    }
    if (prot.indexOf('javascript:') === 0 || prot.indexOf('vbscript:') === 0 || prot.indexOf('data:')
          === 0) {
      return text;
```

```
    }
  }
  if (this.options.baseUrl && !originIndependentUrl.test(href)) {
    href = resolveUrl(this.options.baseUrl, href);
  }
  var out = '<a href="' + href + '"';
  if (title) {
    out += ' title="' + title + '"';
  }
  out += '>' + text + '</a>';
  return out;
};

Renderer.prototype.image = function(href, title, text) {
  if (this.options.baseUrl && !originIndependentUrl.test(href)) {
    href = resolveUrl(this.options.baseUrl, href);
  }
  var out = '<img src="' + href + '" alt="' + text + '"';
  if (title) {
    out += ' title="' + title + '"';
  }
  out += this.options.xhtml ? '/>' : '>';
  return out;
};

Renderer.prototype.text = function(text) {
  return text;
};

/**
 * TextRenderer
 * returns only the textual part of the token
 */

function TextRenderer() {}

// no need for block level renderers

TextRenderer.prototype.strong =
TextRenderer.prototype.em =
TextRenderer.prototype.codespan =
TextRenderer.prototype.del =
TextRenderer.prototype.text = function (text) {
  return text;
};
```

```
TextRenderer.prototype.link =
TextRenderer.prototype.image = function(href, title, text) {
  return '' + text;
};

TextRenderer.prototype.br = function() {
  return '';
};

/**
 * Parsing & Compiling
 */

function Parser(options) {
  this.tokens = [];
  this.token = null;
  this.options = options || marked.defaults;
  this.options.renderer = this.options.renderer || new Renderer();
  this.renderer = this.options.renderer;
  this.renderer.options = this.options;
}

/**
 * Static Parse Method
 */

Parser.parse = function(src, options) {
  var parser = new Parser(options);
  return parser.parse(src);
};

/**
 * Parse Loop
 */

Parser.prototype.parse = function(src) {
  var this$1 = this;

  this.inline = new InlineLexer(src.links, this.options);
  // use an InlineLexer with a TextRenderer to extract pure text
  this.inlineText = new InlineLexer(
    src.links,
    merge({}, this.options, {renderer: new TextRenderer()})
  );
  this.tokens = src.reverse();
```

```
  var out = '';
  while (this.next()) {
    out += this$1.tok();
  }

  return out;
};

/**
 * Next Token
 */

Parser.prototype.next = function() {
  return this.token = this.tokens.pop();
};

/**
 * Preview Next Token
 */

Parser.prototype.peek = function() {
  return this.tokens[this.tokens.length - 1] || 0;
};

/**
 * Parse Text Tokens
 */

Parser.prototype.parseText = function() {
  var this$1 = this;

  var body = this.token.text;

  while (this.peek().type === 'text') {
    body += '\n' + this$1.next().text;
  }

  return this.inline.output(body);
};

/**
 * Parse Current Token
 */

Parser.prototype.tok = function() {
  var this$1 = this;
```

```
switch (this.token.type) {
  case 'space': {
    return '';
  }
  case 'hr': {
    return this.renderer.hr();
  }
  case 'heading': {
    return this.renderer.heading(
      this.inline.output(this.token.text),
      this.token.depth,
      unescape(this.inlineText.output(this.token.text)));
  }
  case 'code': {
    return this.renderer.code(this.token.text,
      this.token.lang,
      this.token.escaped);
  }
  case 'table': {
    var header = '',
        body = '',
        i,
        row,
        cell,
        j;

    // header
    cell = '';
    for (i = 0; i < this.token.header.length; i++) {
      cell += this$1.renderer.tablecell(
        this$1.inline.output(this$1.token.header[i]),
        { header: true, align: this$1.token.align[i] }
      );
    }
    header += this.renderer.tablerow(cell);

    for (i = 0; i < this.token.cells.length; i++) {
      row = this$1.token.cells[i];

      cell = '';
      for (j = 0; j < row.length; j++) {
        cell += this$1.renderer.tablecell(
          this$1.inline.output(row[j]),
          { header: false, align: this$1.token.align[j] }
        );
```

```
    }

    body += this$1.renderer.tablerow(cell);
  }
  return this.renderer.table(header, body);
}
case 'blockquote_start': {
  body = '';

  while (this.next().type !== 'blockquote_end') {
    body += this$1.tok();
  }

  return this.renderer.blockquote(body);
}
case 'list_start': {
  body = '';
  var ordered = this.token.ordered;

  while (this.next().type !== 'list_end') {
    body += this$1.tok();
  }

  return this.renderer.list(body, ordered);
}
case 'list_item_start': {
  body = '';

  while (this.next().type !== 'list_item_end') {
    body += this$1.token.type === 'text'
      ? this$1.parseText()
      : this$1.tok();
  }

  return this.renderer.listitem(body);
}
case 'loose_item_start': {
  body = '';

  while (this.next().type !== 'list_item_end') {
    body += this$1.tok();
  }

  return this.renderer.listitem(body);
}
case 'html': {
```

```
      var html = !this.token.pre && !this.options.pedantic
        ? this.inline.output(this.token.text)
        : this.token.text;
      return this.renderer.html(html);
    }
    case 'paragraph': {
      return this.renderer.paragraph(this.inline.output(this.token.text));
    }
    case 'text': {
      return this.renderer.paragraph(this.parseText());
    }
  }
};

/**
 * Helpers
 */

function escape(html, encode) {
  return html
    .replace(!encode ? /&(?!#?\w+;)/g : /&/g, '&amp;')
    .replace(/</g, '&lt;')
    .replace(/>/g, '&gt;')
    .replace(/"/g, '&quot;')
    .replace(/'/g, '&#39;');
}

function unescape(html) {
  // explicitly match decimal, hex, and named HTML entities
  return html.replace(/&(#(?:\d+)|(?:#x[0-9A-Fa-f]+)|(?:\w+));?/ig, function(_, n) {
    n = n.toLowerCase();
    if (n === 'colon') { return ':'; }
    if (n.charAt(0) === '#') {
      return n.charAt(1) === 'x'
        ? String.fromCharCode(parseInt(n.substring(2), 16))
        : String.fromCharCode(+n.substring(1));
    }
    return '';
  });
}

function edit(regex, opt) {
  regex = regex.source;
  opt = opt || '';
  return {
    replace: function(name, val) {
```

```
      val = val.source || val;
      val = val.replace(/(^|[^\[])\^/g, '$1');
      regex = regex.replace(name, val);
      return this;
    },
    getRegex: function() {
      return new RegExp(regex, opt);
    }
  };
}

function resolveUrl(base, href) {
  if (!baseUrls[' ' + base]) {
    // we can ignore everything in base after the last slash of its path component,
    // but we might need to add _that_
    // https://tools.ietf.org/html/rfc3986#section-3
    if (/^[^:]+:\/*[^/]*$/.test(base)) {
      baseUrls[' ' + base] = base + '/';
    } else {
      baseUrls[' ' + base] = base.replace(/[^/]*$/, '');
    }
  }
  base = baseUrls[' ' + base];

  if (href.slice(0, 2) === '//') {
    return base.replace(/:[\s\S]*/, ':') + href;
  } else if (href.charAt(0) === '/') {
    return base.replace(/(:\/*[^/]*)[\s\S]*/, '$1') + href;
  } else {
    return base + href;
  }
}
var baseUrls = {};
var originIndependentUrl = /^$|^[a-z][a-z0-9+.-]*:|^[?#]/i;

function noop() {}
noop.exec = noop;

function merge(obj) {
  var arguments$1 = arguments;

  var i = 1,
      target,
      key;

  for (; i < arguments.length; i++) {
```

```
    target = arguments$1[i];
    for (key in target) {
      if (Object.prototype.hasOwnProperty.call(target, key)) {
        obj[key] = target[key];
      }
    }
  }

  return obj;
}

/**
 * Marked
 */

function marked(src, opt, callback) {
  // throw error in case of non string input
  if (typeof src === 'undefined' || src === null) {
    throw new Error('marked(): input parameter is undefined or null');
  }
  if (typeof src !== 'string') {
    throw new Error('marked(): input parameter is of type '
      + Object.prototype.toString.call(src) + ', string expected');
  }

  if (callback || typeof opt === 'function') {
    if (!callback) {
      callback = opt;
      opt = null;
    }

    opt = merge({}, marked.defaults, opt || {});

    var highlight = opt.highlight,
        tokens,
        pending,
        i = 0;

    try {
      tokens = Lexer.lex(src, opt);
    } catch (e) {
      return callback(e);
    }

    pending = tokens.length;
```

```
var done = function(err) {
  if (err) {
    opt.highlight = highlight;
    return callback(err);
  }

  var out;

  try {
    out = Parser.parse(tokens, opt);
  } catch (e) {
    err = e;
  }

  opt.highlight = highlight;

  return err
    ? callback(err)
    : callback(null, out);
};

if (!highlight || highlight.length < 3) {
  return done();
}

delete opt.highlight;

if (!pending) { return done(); }

for (; i < tokens.length; i++) {
  (function(token) {
    if (token.type !== 'code') {
      return --pending || done();
    }
    return highlight(token.text, token.lang, function(err, code) {
      if (err) { return done(err); }
      if (code == null || code === token.text) {
        return --pending || done();
      }
      token.text = code;
      token.escaped = true;
      --pending || done();
    });
  })(tokens[i]);
}
```

```
    return;
  }
  try {
    if (opt) { opt = merge({}, marked.defaults, opt); }
    return Parser.parse(Lexer.lex(src, opt), opt);
  } catch (e) {
    e.message += '\nPlease report this to https://github.com/chjj/marked.';
    if ((opt || marked.defaults).silent) {
      return '<p>An error occurred:</p><pre>'
        + escape(e.message + '', true)
        + '</pre>';
    }
    throw e;
  }
}

/**
 * Options
 */

marked.options =
marked.setOptions = function(opt) {
  merge(marked.defaults, opt);
  return marked;
};

marked.defaults = {
  gfm: true,
  tables: true,
  breaks: false,
  pedantic: false,
  sanitize: false,
  sanitizer: null,
  mangle: true,
  smartLists: false,
  silent: false,
  highlight: null,
  langPrefix: 'lang-',
  smartypants: false,
  headerPrefix: '',
  renderer: new Renderer(),
  xhtml: false,
  baseUrl: null
};

/**
```

```
 * Expose
 */

marked.Parser = Parser;
marked.parser = Parser.parse;

marked.Renderer = Renderer;
marked.TextRenderer = TextRenderer;

marked.Lexer = Lexer;
marked.lexer = Lexer.lex;

marked.InlineLexer = InlineLexer;
marked.inlineLexer = InlineLexer.output;

marked.parse = marked;

{
  module.exports = marked;
}
})(commonjsGlobal || (typeof window !== 'undefined' ? window : commonjsGlobal));
});

var MapPopup = {render: function(){var _vm=this;var _h=_vm.$createElement;var
        _c=_vm._self._c||_h;return _c('div',[_c('h2',[_vm._v(_vm._s(_vm.name))]),_vm._v("
        "),_c('p',{domProps:{"innerHTML":_vm._s(_vm.compiledComments)}}),_vm._v("
        "),_c('a',{attrs:{"to":""},on:{"click":function($event){_vm.$emit('opendetail');}}},[_vm._
        v("Passage")]),_vm._v("
        "),_c('a',{attrs:{"to":""},on:{"click":function($event){_vm.$emit('openrelated');}}},[_vm.
        _v("Related")])])},staticRenderFns: [],_scopeId: 'data-v-0bf51ce0',
        name: "MapPopup",
        data: function () { return ({
        name: null,
        comments: null
        }); },
        computed: {
        compiledComments: function compiledComments() { return this.comments ?
        marked(this.comments) : "" }
        }
}

/*!
 * Vue.js v2.5.13
 * (c) 2014-2017 Evan You
 * Released under the MIT License.
 */
```

```
/*  */

var emptyObject$1 = Object.freeze({});

// these helpers produces better vm code in JS engines due to their
// explicitness and function inlining
function isUndef$1 (v) {
  return v === undefined || v === null
}

function isDef$1 (v) {
  return v !== undefined && v !== null
}

function isTrue$1 (v) {
  return v === true
}

function isFalse$1 (v) {
  return v === false
}

/**
 * Check if value is primitive
 */
function isPrimitive$1 (value) {
  return (
    typeof value === 'string' ||
    typeof value === 'number' ||
    // $flow-disable-line
    typeof value === 'symbol' ||
    typeof value === 'boolean'
  )
}

/**
 * Quick object check - this is primarily used to tell
 * Objects from primitive values when we know the value
 * is a JSON-compliant type.
 */
function isObject$1 (obj) {
  return obj !== null && typeof obj === 'object'
}

/**
 * Get the raw type string of a value e.g. [object Object]
```

```
 */
var _toString$1 = Object.prototype.toString;

function toRawType$1 (value) {
  return _toString$1.call(value).slice(8, -1)
}

/**
 * Strict object type check. Only returns true
 * for plain JavaScript objects.
 */
function isPlainObject$1 (obj) {
  return _toString$1.call(obj) === '[object Object]'
}

function isRegExp$1 (v) {
  return _toString$1.call(v) === '[object RegExp]'
}

/**
 * Check if val is a valid array index.
 */
function isValidArrayIndex$1 (val) {
  var n = parseFloat(String(val));
  return n >= 0 && Math.floor(n) === n && isFinite(val)
}

/**
 * Convert a value to a string that is actually rendered.
 */
function toString$2 (val) {
  return val == null
    ? ''
    : typeof val === 'object'
      ? JSON.stringify(val, null, 2)
      : String(val)
}

/**
 * Convert a input value to a number for persistence.
 * If the conversion fails, return original string.
 */
function toNumber$1 (val) {
  var n = parseFloat(val);
  return isNaN(n) ? val : n
}
```

```
/**
 * Make a map and return a function for checking if a key
 * is in that map.
 */
function makeMap$1 (
  str,
  expectsLowerCase
) {
  var map = Object.create(null);
  var list = str.split(',');
  for (var i = 0; i < list.length; i++) {
    map[list[i]] = true;
  }
  return expectsLowerCase
    ? function (val) { return map[val.toLowerCase()]; }
    : function (val) { return map[val]; }
}

/**
 * Check if a tag is a built-in tag.
 */
var isBuiltInTag$1 = makeMap$1('slot,component', true);

/**
 * Check if a attribute is a reserved attribute.
 */
var isReservedAttribute$1 = makeMap$1('key,ref,slot,slot-scope,is');

/**
 * Remove an item from an array
 */
function remove$3 (arr, item) {
  if (arr.length) {
    var index = arr.indexOf(item);
    if (index > -1) {
      return arr.splice(index, 1)
    }
  }
}

/**
 * Check whether the object has the property.
 */
var hasOwnProperty$1 = Object.prototype.hasOwnProperty;
function hasOwn$1 (obj, key) {
```

```
  return hasOwnProperty$1.call(obj, key)
}

/**
 * Create a cached version of a pure function.
 */
function cached$1 (fn) {
  var cache = Object.create(null);
  return (function cachedFn (str) {
    var hit = cache[str];
    return hit || (cache[str] = fn(str))
  })
}

/**
 * Camelize a hyphen-delimited string.
 */
var camelizeRE$1 = /-(\w)/g;
var camelize$1 = cached$1(function (str) {
  return str.replace(camelizeRE$1, function (_, c) { return c ? c.toUpperCase() : ''; })
});

/**
 * Capitalize a string.
 */
var capitalize$1 = cached$1(function (str) {
  return str.charAt(0).toUpperCase() + str.slice(1)
});

/**
 * Hyphenate a camelCase string.
 */
var hyphenateRE$1 = /\B([A-Z])/g;
var hyphenate$1 = cached$1(function (str) {
  return str.replace(hyphenateRE$1, '-$1').toLowerCase()
});

/**
 * Simple bind, faster than native
 */
function bind$1 (fn, ctx) {
  function boundFn (a) {
    var l = arguments.length;
    return l
      ? l > 1
        ? fn.apply(ctx, arguments)
```

```
        : fn.call(ctx, a)
      : fn.call(ctx)
  }
  // record original fn length
  boundFn._length = fn.length;
  return boundFn
}

/**
 * Convert an Array-like object to a real Array.
 */
function toArray$1 (list, start) {
  start = start || 0;
  var i = list.length - start;
  var ret = new Array(i);
  while (i--) {
    ret[i] = list[i + start];
  }
  return ret
}

/**
 * Mix properties into target object.
 */
function extend$1 (to, _from) {
  for (var key in _from) {
    to[key] = _from[key];
  }
  return to
}

/**
 * Merge an Array of Objects into a single Object.
 */
function toObject$1 (arr) {
  var res = {};
  for (var i = 0; i < arr.length; i++) {
    if (arr[i]) {
      extend$1(res, arr[i]);
    }
  }
  return res
}

/**
 * Perform no operation.
```

```
 * Stubbing args to make Flow happy without leaving useless transpiled code
 * with ...rest (https://flow.org/blog/2017/05/07/Strict-Function-Call-Arity/)
 */
function noop$2 (a, b, c) {}

/**
 * Always return false.
 */
var no$1 = function (a, b, c) { return false; };

/**
 * Return same value
 */
var identity$1 = function (_) { return _; };

/**
 * Generate a static keys string from compiler modules.
 */


/**
 * Check if two values are loosely equal - that is,
 * if they are plain objects, do they have the same shape?
 */
function looseEqual$1 (a, b) {
  if (a === b) { return true }
  var isObjectA = isObject$1(a);
  var isObjectB = isObject$1(b);
  if (isObjectA && isObjectB) {
    try {
      var isArrayA = Array.isArray(a);
      var isArrayB = Array.isArray(b);
      if (isArrayA && isArrayB) {
        return a.length === b.length && a.every(function (e, i) {
          return looseEqual$1(e, b[i])
        })
      } else if (!isArrayA && !isArrayB) {
        var keysA = Object.keys(a);
        var keysB = Object.keys(b);
        return keysA.length === keysB.length && keysA.every(function (key) {
          return looseEqual$1(a[key], b[key])
        })
      } else {
        /* istanbul ignore next */
        return false
      }
```

```
    } catch (e) {
      /* istanbul ignore next */
      return false
    }
  } else if (!isObjectA && !isObjectB) {
    return String(a) === String(b)
  } else {
    return false
  }
}

function looseIndexOf$1 (arr, val) {
  for (var i = 0; i < arr.length; i++) {
    if (looseEqual$1(arr[i], val)) { return i }
  }
  return -1
}

/**
 * Ensure a function is called only once.
 */
function once$2 (fn) {
  var called = false;
  return function () {
    if (!called) {
      called = true;
      fn.apply(this, arguments);
    }
  }
}

var SSR_ATTR$1 = 'data-server-rendered';

var ASSET_TYPES$1 = [
  'component',
  'directive',
  'filter'
];

var LIFECYCLE_HOOKS$1 = [
  'beforeCreate',
  'created',
  'beforeMount',
  'mounted',
  'beforeUpdate',
  'updated',
```

```
  'beforeDestroy',
  'destroyed',
  'activated',
  'deactivated',
  'errorCaptured'
];

/*  */

var config$2 = ({
  /**
   * Option merge strategies (used in core/util/options)
   */
  // $flow-disable-line
  optionMergeStrategies: Object.create(null),

  /**
   * Whether to suppress warnings.
   */
  silent: false,

  /**
   * Show production mode tip message on boot?
   */
  productionTip: process.env.NODE_ENV !== 'production',

  /**
   * Whether to enable devtools
   */
  devtools: process.env.NODE_ENV !== 'production',

  /**
   * Whether to record perf
   */
  performance: false,

  /**
   * Error handler for watcher errors
   */
  errorHandler: null,

  /**
   * Warn handler for watcher warns
   */
  warnHandler: null,
```

```
/**
 * Ignore certain custom elements
 */
ignoredElements: [],

/**
 * Custom user key aliases for v-on
 */
// $flow-disable-line
keyCodes: Object.create(null),

/**
 * Check if a tag is reserved so that it cannot be registered as a
 * component. This is platform-dependent and may be overwritten.
 */
isReservedTag: no$1,

/**
 * Check if an attribute is reserved so that it cannot be used as a component
 * prop. This is platform-dependent and may be overwritten.
 */
isReservedAttr: no$1,

/**
 * Check if a tag is an unknown element.
 * Platform-dependent.
 */
isUnknownElement: no$1,

/**
 * Get the namespace of an element
 */
getTagNamespace: noop$2,

/**
 * Parse the real tag name for the specific platform.
 */
parsePlatformTagName: identity$1,

/**
 * Check if an attribute must be bound using property, e.g. value
 * Platform-dependent.
 */
mustUseProp: no$1,

/**
```

```
   * Exposed for legacy reasons
   */
  _lifecycleHooks: LIFECYCLE_HOOKS$1
});

/*  */

/**
 * Check if a string starts with $ or _
 */
function isReserved$1 (str) {
  var c = (str + '').charCodeAt(0);
  return c === 0x24 || c === 0x5F
}

/**
 * Define a property.
 */
function def$1 (obj, key, val, enumerable) {
  Object.defineProperty(obj, key, {
    value: val,
    enumerable: !!enumerable,
    writable: true,
    configurable: true
  });
}

/**
 * Parse simple path.
 */
var bailRE$1 = /[^\w.$]/;
function parsePath$1 (path) {
  if (bailRE$1.test(path)) {
    return
  }
  var segments = path.split('.');
  return function (obj) {
    for (var i = 0; i < segments.length; i++) {
      if (!obj) { return }
      obj = obj[segments[i]];
    }
    return obj
  }
}

/*  */
```

```
// can we use __proto__?
var hasProto$1 = '__proto__' in {};

// Browser environment sniffing
var inBrowser$1 = typeof window !== 'undefined';
var inWeex$1 = typeof WXEnvironment !== 'undefined' && !!WXEnvironment.platform;
var weexPlatform$1 = inWeex$1 && WXEnvironment.platform.toLowerCase();
var UA$1 = inBrowser$1 && window.navigator.userAgent.toLowerCase();
var isIE$1 = UA$1 && /msie|trident/.test(UA$1);
var isIE9$1 = UA$1 && UA$1.indexOf('msie 9.0') > 0;
var isEdge$1 = UA$1 && UA$1.indexOf('edge/') > 0;
var isAndroid$1 = (UA$1 && UA$1.indexOf('android') > 0) || (weexPlatform$1 === 'android');
var isIOS$1 = (UA$1 && /iphone|ipad|ipod|ios/.test(UA$1)) || (weexPlatform$1 === 'ios');
var isChrome$1 = UA$1 && /chrome\/\d+/.test(UA$1) && !isEdge$1;

// Firefox has a "watch" function on Object.prototype...
var nativeWatch$1 = ({}).watch;

var supportsPassive$1 = false;
if (inBrowser$1) {
  try {
    var opts$1 = {};
    Object.defineProperty(opts$1, 'passive', ({
      get: function get () {
        /* istanbul ignore next */
        supportsPassive$1 = true;
      }
    })); // https://github.com/facebook/flow/issues/285
    window.addEventListener('test-passive', null, opts$1);
  } catch (e) {}
}

// this needs to be lazy-evaled because vue may be required before
// vue-server-renderer can set VUE_ENV
var _isServer$1;
var isServerRendering$1 = function () {
  if (_isServer$1 === undefined) {
    /* istanbul ignore if */
    if (!inBrowser$1 && typeof global$1 !== 'undefined') {
      // detect presence of vue-server-renderer and avoid
      // Webpack shimming the process
      _isServer$1 = global$1['process'].env.VUE_ENV === 'server';
    } else {
      _isServer$1 = false;
```

```
    }
  }
  return _isServer$1
};

// detect devtools
var devtools$1 = inBrowser$1 && window.__VUE_DEVTOOLS_GLOBAL_HOOK__;

/* istanbul ignore next */
function isNative$1 (Ctor) {
  return typeof Ctor === 'function' && /native code/.test(Ctor.toString())
}

var hasSymbol$1 =
  typeof Symbol !== 'undefined' && isNative$1(Symbol) &&
  typeof Reflect !== 'undefined' && isNative$1(Reflect.ownKeys);

var _Set$1;
/* istanbul ignore if */ // $flow-disable-line
if (typeof Set !== 'undefined' && isNative$1(Set)) {
  // use native Set when available.
  _Set$1 = Set;
} else {
  // a non-standard Set polyfill that only works with primitive keys.
  _Set$1 = (function () {
    function Set () {
      this.set = Object.create(null);
    }
    Set.prototype.has = function has (key) {
      return this.set[key] === true
    };
    Set.prototype.add = function add (key) {
      this.set[key] = true;
    };
    Set.prototype.clear = function clear () {
      this.set = Object.create(null);
    };

    return Set;
  }());
}

/*  */

var warn$1 = noop$2;
var tip$1 = noop$2;
```

```
var generateComponentTrace$1 = (noop$2); // work around flow check
var formatComponentName$1 = (noop$2);

if (process.env.NODE_ENV !== 'production') {
  var hasConsole$1 = typeof console !== 'undefined';
  var classifyRE$1 = /(?:^|[-_])(\w)/g;
  var classify$1 = function (str) { return str
    .replace(classifyRE$1, function (c) { return c.toUpperCase(); })
    .replace(/[-_]/g, ''); };

  warn$1 = function (msg, vm) {
    var trace = vm ? generateComponentTrace$1(vm) : '';

    if (config$2.warnHandler) {
      config$2.warnHandler.call(null, msg, vm, trace);
    } else if (hasConsole$1 && (!config$2.silent)) {
      console.error(("[Vue warn]: " + msg + trace));
    }
  };

  tip$1 = function (msg, vm) {
    if (hasConsole$1 && (!config$2.silent)) {
      console.warn("[Vue tip]: " + msg + (
        vm ? generateComponentTrace$1(vm) : ''
      ));
    }
  };

  formatComponentName$1 = function (vm, includeFile) {
    if (vm.$root === vm) {
      return '<Root>'
    }
    var options = typeof vm === 'function' && vm.cid != null
      ? vm.options
      : vm._isVue
        ? vm.$options || vm.constructor.options
        : vm || {};
    var name = options.name || options._componentTag;
    var file = options.__file;
    if (!name && file) {
      var match = file.match(/([^/\\]+)\.vue$/);
      name = match && match[1];
    }

    return (
      (name ? ("<" + (classify$1(name)) + ">") : "<Anonymous>") +
```

```
    (file && includeFile !== false ? (" at " + file) : '')
  )
};

var repeat$1 = function (str, n) {
  var res = '';
  while (n) {
    if (n % 2 === 1) { res += str; }
    if (n > 1) { str += str; }
    n >>= 1;
  }
  return res
};

generateComponentTrace$1 = function (vm) {
  if (vm._isVue && vm.$parent) {
    var tree = [];
    var currentRecursiveSequence = 0;
    while (vm) {
      if (tree.length > 0) {
        var last = tree[tree.length - 1];
        if (last.constructor === vm.constructor) {
          currentRecursiveSequence++;
          vm = vm.$parent;
          continue
        } else if (currentRecursiveSequence > 0) {
          tree[tree.length - 1] = [last, currentRecursiveSequence];
          currentRecursiveSequence = 0;
        }
      }
      tree.push(vm);
      vm = vm.$parent;
    }
    return '\n\nfound in\n\n' + tree
      .map(function (vm, i) { return ("" + (i === 0 ? '---> ' : repeat$1(' ', 5 + i * 2)) +
        (Array.isArray(vm)
        ? ((formatComponentName$1(vm[0])) + "... (" + (vm[1]) + " recursive calls)")
        : formatComponentName$1(vm))); })
      .join('\n')
  } else {
    return ("\n\n(found in " + (formatComponentName$1(vm)) + ")")
  }
};
}

/*  */
```

```
var uid$1$1 = 0;

/**
 * A dep is an observable that can have multiple
 * directives subscribing to it.
 */
var Dep$1 = function Dep () {
  this.id = uid$1$1++;
  this.subs = [];
};

Dep$1.prototype.addSub = function addSub (sub) {
  this.subs.push(sub);
};

Dep$1.prototype.removeSub = function removeSub (sub) {
  remove$3(this.subs, sub);
};

Dep$1.prototype.depend = function depend () {
  if (Dep$1.target) {
    Dep$1.target.addDep(this);
  }
};

Dep$1.prototype.notify = function notify () {
  // stabilize the subscriber list first
  var subs = this.subs.slice();
  for (var i = 0, l = subs.length; i < l; i++) {
    subs[i].update();
  }
};

// the current target watcher being evaluated.
// this is globally unique because there could be only one
// watcher being evaluated at any time.
Dep$1.target = null;
var targetStack$1 = [];

function pushTarget$1 (_target) {
  if (Dep$1.target) { targetStack$1.push(Dep$1.target); }
  Dep$1.target = _target;
}
```

```
function popTarget$1 () {
  Dep$1.target = targetStack$1.pop();
}

/*  */

var VNode$1 = function VNode (
  tag,
  data,
  children,
  text,
  elm,
  context,
  componentOptions,
  asyncFactory
) {
  this.tag = tag;
  this.data = data;
  this.children = children;
  this.text = text;
  this.elm = elm;
  this.ns = undefined;
  this.context = context;
  this.fnContext = undefined;
  this.fnOptions = undefined;
  this.fnScopeId = undefined;
  this.key = data && data.key;
  this.componentOptions = componentOptions;
  this.componentInstance = undefined;
  this.parent = undefined;
  this.raw = false;
  this.isStatic = false;
  this.isRootInsert = true;
  this.isComment = false;
  this.isCloned = false;
  this.isOnce = false;
  this.asyncFactory = asyncFactory;
  this.asyncMeta = undefined;
  this.isAsyncPlaceholder = false;
};

var prototypeAccessors$1 = { child: { configurable: true } };

// DEPRECATED: alias for componentInstance for backwards compat.
/* istanbul ignore next */
prototypeAccessors$1.child.get = function () {
```

```
  return this.componentInstance
};

Object.defineProperties( VNode$1.prototype, prototypeAccessors$1 );

var createEmptyVNode$1 = function (text) {
  if ( text === void 0 ) { text = ''; }

  var node = new VNode$1();
  node.text = text;
  node.isComment = true;
  return node
};

function createTextVNode$1 (val) {
  return new VNode$1(undefined, undefined, undefined, String(val))
}

// optimized shallow clone
// used for static nodes and slot nodes because they may be reused across
// multiple renders, cloning them avoids errors when DOM manipulations rely
// on their elm reference.
function cloneVNode$1 (vnode, deep) {
  var componentOptions = vnode.componentOptions;
  var cloned = new VNode$1(
    vnode.tag,
    vnode.data,
    vnode.children,
    vnode.text,
    vnode.elm,
    vnode.context,
    componentOptions,
    vnode.asyncFactory
  );
  cloned.ns = vnode.ns;
  cloned.isStatic = vnode.isStatic;
  cloned.key = vnode.key;
  cloned.isComment = vnode.isComment;
  cloned.fnContext = vnode.fnContext;
  cloned.fnOptions = vnode.fnOptions;
  cloned.fnScopeId = vnode.fnScopeId;
  cloned.isCloned = true;
  if (deep) {
    if (vnode.children) {
      cloned.children = cloneVNodes$1(vnode.children, true);
    }
```

```
    if (componentOptions && componentOptions.children) {
      componentOptions.children = cloneVNodes$1(componentOptions.children, true);
    }
  }
  return cloned
}

function cloneVNodes$1 (vnodes, deep) {
  var len = vnodes.length;
  var res = new Array(len);
  for (var i = 0; i < len; i++) {
    res[i] = cloneVNode$1(vnodes[i], deep);
  }
  return res
}

/*
 * not type checking this file because flow doesn't play well with
 * dynamically accessing methods on Array prototype
 */

var arrayProto$1 = Array.prototype;
var arrayMethods$1 = Object.create(arrayProto$1);[
  'push',
  'pop',
  'shift',
  'unshift',
  'splice',
  'sort',
  'reverse'
].forEach(function (method) {
  // cache original method
  var original = arrayProto$1[method];
  def$1(arrayMethods$1, method, function mutator () {
    var arguments$1 = arguments;

    var args = [], len = arguments.length;
    while ( len-- ) { args[ len ] = arguments$1[ len ]; }

    var result = original.apply(this, args);
    var ob = this.__ob__;
    var inserted;
    switch (method) {
      case 'push':
      case 'unshift':
        inserted = args;
```

```
      break
    case 'splice':
      inserted = args.slice(2);
      break
  }
  if (inserted) { ob.observeArray(inserted); }
  // notify change
  ob.dep.notify();
  return result
 });
});

/*  */

var arrayKeys$1 = Object.getOwnPropertyNames(arrayMethods$1);

/**
 * By default, when a reactive property is set, the new value is
 * also converted to become reactive. However when passing down props,
 * we don't want to force conversion because the value may be a nested value
 * under a frozen data structure. Converting it would defeat the optimization.
 */
var observerState$1 = {
 shouldConvert: true
};

/**
 * Observer class that are attached to each observed
 * object. Once attached, the observer converts target
 * object's property keys into getter/setters that
 * collect dependencies and dispatches updates.
 */
var Observer$1 = function Observer (value) {
 this.value = value;
 this.dep = new Dep$1();
 this.vmCount = 0;
 def$1(value, '__ob__', this);
 if (Array.isArray(value)) {
  var augment = hasProto$1
    ? protoAugment$1
    : copyAugment$1;
  augment(value, arrayMethods$1, arrayKeys$1);
  this.observeArray(value);
 } else {
  this.walk(value);
 }
```

```
};

/**
 * Walk through each property and convert them into
 * getter/setters. This method should only be called when
 * value type is Object.
 */
Observer$1.prototype.walk = function walk (obj) {
  var keys = Object.keys(obj);
  for (var i = 0; i < keys.length; i++) {
    defineReactive$1(obj, keys[i], obj[keys[i]]);
  }
};

/**
 * Observe a list of Array items.
 */
Observer$1.prototype.observeArray = function observeArray (items) {
  for (var i = 0, l = items.length; i < l; i++) {
    observe$1(items[i]);
  }
};

// helpers

/**
 * Augment an target Object or Array by intercepting
 * the prototype chain using __proto__
 */
function protoAugment$1 (target, src, keys) {
  /* eslint-disable no-proto */
  target.__proto__ = src;
  /* eslint-enable no-proto */
}

/**
 * Augment an target Object or Array by defining
 * hidden properties.
 */
/* istanbul ignore next */
function copyAugment$1 (target, src, keys) {
  for (var i = 0, l = keys.length; i < l; i++) {
    var key = keys[i];
    def$1(target, key, src[key]);
  }
}
```

```
/**
 * Attempt to create an observer instance for a value,
 * returns the new observer if successfully observed,
 * or the existing observer if the value already has one.
 */
function observe$1 (value, asRootData) {
  if (!isObject$1(value) || value instanceof VNode$1) {
    return
  }
  var ob;
  if (hasOwn$1(value, '__ob__') && value.__ob__ instanceof Observer$1) {
    ob = value.__ob__;
  } else if (
    observerState$1.shouldConvert &&
    !isServerRendering$1() &&
    (Array.isArray(value) || isPlainObject$1(value)) &&
    Object.isExtensible(value) &&
    !value._isVue
  ) {
    ob = new Observer$1(value);
  }
  if (asRootData && ob) {
    ob.vmCount++;
  }
  return ob
}

/**
 * Define a reactive property on an Object.
 */
function defineReactive$1 (
  obj,
  key,
  val,
  customSetter,
  shallow
) {
  var dep = new Dep$1();

  var property = Object.getOwnPropertyDescriptor(obj, key);
  if (property && property.configurable === false) {
    return
  }

  // cater for pre-defined getter/setters
```

```
  var getter = property && property.get;
  var setter = property && property.set;

  var childOb = !shallow && observe$1(val);
  Object.defineProperty(obj, key, {
    enumerable: true,
    configurable: true,
    get: function reactiveGetter () {
      var value = getter ? getter.call(obj) : val;
      if (Dep$1.target) {
        dep.depend();
        if (childOb) {
          childOb.dep.depend();
          if (Array.isArray(value)) {
            dependArray$1(value);
          }
        }
      }
      return value
    },
    set: function reactiveSetter (newVal) {
      var value = getter ? getter.call(obj) : val;
      /* eslint-disable no-self-compare */
      if (newVal === value || (newVal !== newVal && value !== value)) {
        return
      }
      /* eslint-enable no-self-compare */
      if (process.env.NODE_ENV !== 'production' && customSetter) {
        customSetter();
      }
      if (setter) {
        setter.call(obj, newVal);
      } else {
        val = newVal;
      }
      childOb = !shallow && observe$1(newVal);
      dep.notify();
    }
  });
}

/**
 * Set a property on an object. Adds the new property and
 * triggers change notification if the property doesn't
 * already exist.
 */
```

```
function set$1 (target, key, val) {
  if (Array.isArray(target) && isValidArrayIndex$1(key)) {
    target.length = Math.max(target.length, key);
    target.splice(key, 1, val);
    return val
  }
  if (key in target && !(key in Object.prototype)) {
    target[key] = val;
    return val
  }
  var ob = (target).__ob__;
  if (target._isVue || (ob && ob.vmCount)) {
    process.env.NODE_ENV !== 'production' && warn$1(
      'Avoid adding reactive properties to a Vue instance or its root $data ' +
      'at runtime - declare it upfront in the data option.'
    );
    return val
  }
  if (!ob) {
    target[key] = val;
    return val
  }
  defineReactive$1(ob.value, key, val);
  ob.dep.notify();
  return val
}

/**
 * Delete a property and trigger change if necessary.
 */
function del$1 (target, key) {
  if (Array.isArray(target) && isValidArrayIndex$1(key)) {
    target.splice(key, 1);
    return
  }
  var ob = (target).__ob__;
  if (target._isVue || (ob && ob.vmCount)) {
    process.env.NODE_ENV !== 'production' && warn$1(
      'Avoid deleting properties on a Vue instance or its root $data ' +
      '- just set it to null.'
    );
    return
  }
  if (!hasOwn$1(target, key)) {
    return
  }
```

```
  delete target[key];
  if (!ob) {
    return
  }
  ob.dep.notify();
}

/**
 * Collect dependencies on array elements when the array is touched, since
 * we cannot intercept array element access like property getters.
 */
function dependArray$1 (value) {
  for (var e = (void 0), i = 0, l = value.length; i < l; i++) {
    e = value[i];
    e && e.__ob__ && e.__ob__.dep.depend();
    if (Array.isArray(e)) {
      dependArray$1(e);
    }
  }
}

/*  */

/**
 * Option overwriting strategies are functions that handle
 * how to merge a parent option value and a child option
 * value into the final value.
 */
var strats$1 = config$2.optionMergeStrategies;

/**
 * Options with restrictions
 */
if (process.env.NODE_ENV !== 'production') {
  strats$1.el = strats$1.propsData = function (parent, child, vm, key) {
    if (!vm) {
      warn$1(
        "option \"" + key + "\" can only be used during instance " +
        'creation with the `new` keyword.'
      );
    }
    return defaultStrat$1(parent, child)
  };
}

/**
```

```
 * Helper that recursively merges two data objects together.
 */
function mergeData$1 (to, from) {
  if (!from) { return to }
  var key, toVal, fromVal;
  var keys = Object.keys(from);
  for (var i = 0; i < keys.length; i++) {
    key = keys[i];
    toVal = to[key];
    fromVal = from[key];
    if (!hasOwn$1(to, key)) {
      set$1(to, key, fromVal);
    } else if (isPlainObject$1(toVal) && isPlainObject$1(fromVal)) {
      mergeData$1(toVal, fromVal);
    }
  }
  return to
}

/**
 * Data
 */
function mergeDataOrFn$1 (
  parentVal,
  childVal,
  vm
) {
  if (!vm) {
    // in a Vue.extend merge, both should be functions
    if (!childVal) {
      return parentVal
    }
    if (!parentVal) {
      return childVal
    }
    // when parentVal & childVal are both present,
    // we need to return a function that returns the
    // merged result of both functions... no need to
    // check if parentVal is a function here because
    // it has to be a function to pass previous merges.
    return function mergedDataFn () {
      return mergeData$1(
        typeof childVal === 'function' ? childVal.call(this, this) : childVal,
        typeof parentVal === 'function' ? parentVal.call(this, this) : parentVal
      )
    }
```

```
  } else {
    return function mergedInstanceDataFn () {
      // instance merge
      var instanceData = typeof childVal === 'function'
        ? childVal.call(vm, vm)
        : childVal;
      var defaultData = typeof parentVal === 'function'
        ? parentVal.call(vm, vm)
        : parentVal;
      if (instanceData) {
        return mergeData$1(instanceData, defaultData)
      } else {
        return defaultData
      }
    }
  }
}

strats$1.data = function (
  parentVal,
  childVal,
  vm
) {
  if (!vm) {
    if (childVal && typeof childVal !== 'function') {
      process.env.NODE_ENV !== 'production' && warn$1(
        'The "data" option should be a function ' +
        'that returns a per-instance value in component ' +
        'definitions.',
        vm
      );

      return parentVal
    }
    return mergeDataOrFn$1(parentVal, childVal)
  }

  return mergeDataOrFn$1(parentVal, childVal, vm)
};

/**
 * Hooks and props are merged as arrays.
 */
function mergeHook$2 (
  parentVal,
  childVal
```

```
) {
  return childVal
    ? parentVal
      ? parentVal.concat(childVal)
      : Array.isArray(childVal)
        ? childVal
        : [childVal]
    : parentVal
}

LIFECYCLE_HOOKS$1.forEach(function (hook) {
  strats$1[hook] = mergeHook$2;
});

/**
 * Assets
 *
 * When a vm is present (instance creation), we need to do
 * a three-way merge between constructor options, instance
 * options and parent options.
 */
function mergeAssets$1 (
  parentVal,
  childVal,
  vm,
  key
) {
  var res = Object.create(parentVal || null);
  if (childVal) {
    process.env.NODE_ENV !== 'production' && assertObjectType$1(key, childVal, vm);
    return extend$1(res, childVal)
  } else {
    return res
  }
}

ASSET_TYPES$1.forEach(function (type) {
  strats$1[type + 's'] = mergeAssets$1;
});

/**
 * Watchers.
 *
 * Watchers hashes should not overwrite one
 * another, so we merge them as arrays.
 */
```

```
strats$1.watch = function (
  parentVal,
  childVal,
  vm,
  key
) {
  // work around Firefox's Object.prototype.watch...
  if (parentVal === nativeWatch$1) { parentVal = undefined; }
  if (childVal === nativeWatch$1) { childVal = undefined; }
  /* istanbul ignore if */
  if (!childVal) { return Object.create(parentVal || null) }
  if (process.env.NODE_ENV !== 'production') {
    assertObjectType$1(key, childVal, vm);
  }
  if (!parentVal) { return childVal }
  var ret = {};
  extend$1(ret, parentVal);
  for (var key$1 in childVal) {
    var parent = ret[key$1];
    var child = childVal[key$1];
    if (parent && !Array.isArray(parent)) {
      parent = [parent];
    }
    ret[key$1] = parent
      ? parent.concat(child)
      : Array.isArray(child) ? child : [child];
  }
  return ret
};

/**
 * Other object hashes.
 */
strats$1.props =
strats$1.methods =
strats$1.inject =
strats$1.computed = function (
  parentVal,
  childVal,
  vm,
  key
) {
  if (childVal && process.env.NODE_ENV !== 'production') {
    assertObjectType$1(key, childVal, vm);
  }
  if (!parentVal) { return childVal }
```

```
  var ret = Object.create(null);
  extend$1(ret, parentVal);
  if (childVal) { extend$1(ret, childVal); }
  return ret
};
strats$1.provide = mergeDataOrFn$1;

/**
 * Default strategy.
 */
var defaultStrat$1 = function (parentVal, childVal) {
  return childVal === undefined
    ? parentVal
    : childVal
};

/**
 * Validate component names
 */
function checkComponents$1 (options) {
  for (var key in options.components) {
    validateComponentName$1(key);
  }
}

function validateComponentName$1 (name) {
  if (!/^[a-zA-Z][\w-]*$/.test(name)) {
    warn$1(
      'Invalid component name: "' + name + '". Component names ' +
      'can only contain alphanumeric characters and the hyphen, ' +
      'and must start with a letter.'
    );
  }
  if (isBuiltInTag$1(name) || config$2.isReservedTag(name)) {
    warn$1(
      'Do not use built-in or reserved HTML elements as component ' +
      'id: ' + name
    );
  }
}

/**
 * Ensure all props option syntax are normalized into the
 * Object-based format.
 */
function normalizeProps$1 (options, vm) {
```

```
  var props = options.props;
  if (!props) { return }
  var res = {};
  var i, val, name;
  if (Array.isArray(props)) {
    i = props.length;
    while (i--) {
      val = props[i];
      if (typeof val === 'string') {
        name = camelize$1(val);
        res[name] = { type: null };
      } else if (process.env.NODE_ENV !== 'production') {
        warn$1('props must be strings when using array syntax.');
      }
    }
  } else if (isPlainObject$1(props)) {
    for (var key in props) {
      val = props[key];
      name = camelize$1(key);
      res[name] = isPlainObject$1(val)
        ? val
        : { type: val };
    }
  } else if (process.env.NODE_ENV !== 'production') {
    warn$1(
      "Invalid value for option \"props\": expected an Array or an Object, " +
      "but got " + (toRawType$1(props)) + ".",
      vm
    );
  }
  options.props = res;
}

/**
 * Normalize all injections into Object-based format
 */
function normalizeInject$1 (options, vm) {
  var inject = options.inject;
  if (!inject) { return }
  var normalized = options.inject = {};
  if (Array.isArray(inject)) {
    for (var i = 0; i < inject.length; i++) {
      normalized[inject[i]] = { from: inject[i] };
    }
  } else if (isPlainObject$1(inject)) {
    for (var key in inject) {
```

```
      var val = inject[key];
      normalized[key] = isPlainObject$1(val)
        ? extend$1({ from: key }, val)
        : { from: val };
    }
  } else if (process.env.NODE_ENV !== 'production') {
    warn$1(
      "Invalid value for option \"inject\": expected an Array or an Object, " +
      "but got " + (toRawType$1(inject)) + ".",
      vm
    );
  }
}

/**
 * Normalize raw function directives into object format.
 */
function normalizeDirectives$2 (options) {
  var dirs = options.directives;
  if (dirs) {
    for (var key in dirs) {
      var def = dirs[key];
      if (typeof def === 'function') {
        dirs[key] = { bind: def, update: def };
      }
    }
  }
}

function assertObjectType$1 (name, value, vm) {
  if (!isPlainObject$1(value)) {
    warn$1(
      "Invalid value for option \"" + name + "\": expected an Object, " +
      "but got " + (toRawType$1(value)) + ".",
      vm
    );
  }
}

/**
 * Merge two option objects into a new one.
 * Core utility used in both instantiation and inheritance.
 */
function mergeOptions$1 (
  parent,
  child,
```

```
  vm
) {
  if (process.env.NODE_ENV !== 'production') {
    checkComponents$1(child);
  }

  if (typeof child === 'function') {
    child = child.options;
  }

  normalizeProps$1(child, vm);
  normalizeInject$1(child, vm);
  normalizeDirectives$2(child);
  var extendsFrom = child.extends;
  if (extendsFrom) {
    parent = mergeOptions$1(parent, extendsFrom, vm);
  }
  if (child.mixins) {
    for (var i = 0, l = child.mixins.length; i < l; i++) {
      parent = mergeOptions$1(parent, child.mixins[i], vm);
    }
  }
  var options = {};
  var key;
  for (key in parent) {
    mergeField(key);
  }
  for (key in child) {
    if (!hasOwn$1(parent, key)) {
      mergeField(key);
    }
  }
  function mergeField (key) {
    var strat = strats$1[key] || defaultStrat$1;
    options[key] = strat(parent[key], child[key], vm, key);
  }
  return options
}

/**
 * Resolve an asset.
 * This function is used because child instances need access
 * to assets defined in its ancestor chain.
 */
function resolveAsset$1 (
  options,
```

```
  type,
  id,
  warnMissing
) {
  /* istanbul ignore if */
  if (typeof id !== 'string') {
    return
  }
  var assets = options[type];
  // check local registration variations first
  if (hasOwn$1(assets, id)) { return assets[id] }
  var camelizedId = camelize$1(id);
  if (hasOwn$1(assets, camelizedId)) { return assets[camelizedId] }
  var PascalCaseId = capitalize$1(camelizedId);
  if (hasOwn$1(assets, PascalCaseId)) { return assets[PascalCaseId] }
  // fallback to prototype chain
  var res = assets[id] || assets[camelizedId] || assets[PascalCaseId];
  if (process.env.NODE_ENV !== 'production' && warnMissing && !res) {
    warn$1(
      'Failed to resolve ' + type.slice(0, -1) + ': ' + id,
      options
    );
  }
  return res
}

/*  */

function validateProp$1 (
  key,
  propOptions,
  propsData,
  vm
) {
  var prop = propOptions[key];
  var absent = !hasOwn$1(propsData, key);
  var value = propsData[key];
  // handle boolean props
  if (isType$1(Boolean, prop.type)) {
    if (absent && !hasOwn$1(prop, 'default')) {
      value = false;
    } else if (!isType$1(String, prop.type) && (value === '' || value === hyphenate$1(key))) {
      value = true;
    }
  }
  // check default value
```

```
  if (value === undefined) {
    value = getPropDefaultValue$1(vm, prop, key);
    // since the default value is a fresh copy,
    // make sure to observe it.
    var prevShouldConvert = observerState$1.shouldConvert;
    observerState$1.shouldConvert = true;
    observe$1(value);
    observerState$1.shouldConvert = prevShouldConvert;
  }
  if (
    process.env.NODE_ENV !== 'production' &&
    // skip validation for weex recycle-list child component props
    !(false && isObject$1(value) && ('@binding' in value))
  ) {
    assertProp$1(prop, key, value, vm, absent);
  }
  return value
}

/**
 * Get the default value of a prop.
 */
function getPropDefaultValue$1 (vm, prop, key) {
  // no default, return undefined
  if (!hasOwn$1(prop, 'default')) {
    return undefined
  }
  var def = prop.default;
  // warn against non-factory defaults for Object & Array
  if (process.env.NODE_ENV !== 'production' && isObject$1(def)) {
    warn$1(
      'Invalid default value for prop "' + key + '": ' +
      'Props with type Object/Array must use a factory function ' +
      'to return the default value.',
      vm
    );
  }
  // the raw prop value was also undefined from previous render,
  // return previous default value to avoid unnecessary watcher trigger
  if (vm && vm.$options.propsData &&
    vm.$options.propsData[key] === undefined &&
    vm._props[key] !== undefined
  ) {
    return vm._props[key]
  }
  // call factory function for non-Function types
```

```
  // a value is Function if its prototype is function even across different execution context
  return typeof def === 'function' && getType$1(prop.type) !== 'Function'
    ? def.call(vm)
    : def
}

/**
 * Assert whether a prop is valid.
 */
function assertProp$1 (
  prop,
  name,
  value,
  vm,
  absent
) {
  if (prop.required && absent) {
    warn$1(
      'Missing required prop: "' + name + '"',
      vm
    );
    return
  }
  if (value == null && !prop.required) {
    return
  }
  var type = prop.type;
  var valid = !type || type === true;
  var expectedTypes = [];
  if (type) {
    if (!Array.isArray(type)) {
      type = [type];
    }
    for (var i = 0; i < type.length && !valid; i++) {
      var assertedType = assertType$1(value, type[i]);
      expectedTypes.push(assertedType.expectedType || '');
      valid = assertedType.valid;
    }
  }
  if (!valid) {
    warn$1(
      "Invalid prop: type check failed for prop \"" + name + "\"." +
      " Expected " + (expectedTypes.map(capitalize$1).join(', ')) +
      ", got " + (toRawType$1(value)) + ".",
      vm
    );
```

```
    return
  }
  var validator = prop.validator;
  if (validator) {
    if (!validator(value)) {
      warn$1(
        'Invalid prop: custom validator check failed for prop "' + name + '".',
        vm
      );
    }
  }
}

var simpleCheckRE$1 = /^(String|Number|Boolean|Function|Symbol)$/;

function assertType$1 (value, type) {
  var valid;
  var expectedType = getType$1(type);
  if (simpleCheckRE$1.test(expectedType)) {
    var t = typeof value;
    valid = t === expectedType.toLowerCase();
    // for primitive wrapper objects
    if (!valid && t === 'object') {
      valid = value instanceof type;
    }
  } else if (expectedType === 'Object') {
    valid = isPlainObject$1(value);
  } else if (expectedType === 'Array') {
    valid = Array.isArray(value);
  } else {
    valid = value instanceof type;
  }
  return {
    valid: valid,
    expectedType: expectedType
  }
}

/**
 * Use function string name to check built-in types,
 * because a simple equality check will fail when running
 * across different vms / iframes.
 */
function getType$1 (fn) {
  var match = fn && fn.toString().match(/^\s*function (\w+)/);
  return match ? match[1] : ''
```

```
}

function isType$1 (type, fn) {
  if (!Array.isArray(fn)) {
    return getType$1(fn) === getType$1(type)
  }
  for (var i = 0, len = fn.length; i < len; i++) {
    if (getType$1(fn[i]) === getType$1(type)) {
      return true
    }
  }
  /* istanbul ignore next */
  return false
}

/*  */

function handleError$1 (err, vm, info) {
  if (vm) {
    var cur = vm;
    while ((cur = cur.$parent)) {
      var hooks = cur.$options.errorCaptured;
      if (hooks) {
        for (var i = 0; i < hooks.length; i++) {
          try {
            var capture = hooks[i].call(cur, err, vm, info) === false;
            if (capture) { return }
          } catch (e) {
            globalHandleError$1(e, cur, 'errorCaptured hook');
          }
        }
      }
    }
  }
  globalHandleError$1(err, vm, info);
}

function globalHandleError$1 (err, vm, info) {
  if (config$2.errorHandler) {
    try {
      return config$2.errorHandler.call(null, err, vm, info)
    } catch (e) {
      logError$1(e, null, 'config.errorHandler');
    }
  }
  logError$1(err, vm, info);
```

```
}

function logError$1 (err, vm, info) {
  if (process.env.NODE_ENV !== 'production') {
    warn$1(("Error in " + info + ": \"" + (err.toString()) + "\""), vm);
  }
  /* istanbul ignore else */
  if ((inBrowser$1 || inWeex$1) && typeof console !== 'undefined') {
    console.error(err);
  } else {
    throw err
  }
}

/*  */
/* globals MessageChannel */

var callbacks$1 = [];
var pending$1 = false;

function flushCallbacks$1 () {
  pending$1 = false;
  var copies = callbacks$1.slice(0);
  callbacks$1.length = 0;
  for (var i = 0; i < copies.length; i++) {
    copies[i]();
  }
}

// Here we have async deferring wrappers using both micro and macro tasks.
// In < 2.4 we used micro tasks everywhere, but there are some scenarios where
// micro tasks have too high a priority and fires in between supposedly
// sequential events (e.g. #4521, #6690) or even between bubbling of the same
// event (#6566). However, using macro tasks everywhere also has subtle problems
// when state is changed right before repaint (e.g. #6813, out-in transitions).
// Here we use micro task by default, but expose a way to force macro task when
// needed (e.g. in event handlers attached by v-on).
var microTimerFunc$1;
var macroTimerFunc$1;
var useMacroTask$1 = false;

// Determine (macro) Task defer implementation.
// Technically setImmediate should be the ideal choice, but it's only available
// in IE. The only polyfill that consistently queues the callback after all DOM
// events triggered in the same loop is by using MessageChannel.
/* istanbul ignore if */
```

```
if (typeof setImmediate !== 'undefined' && isNative$1(setImmediate)) {
  macroTimerFunc$1 = function () {
    setImmediate(flushCallbacks$1);
  };
} else if (typeof MessageChannel !== 'undefined' && (
  isNative$1(MessageChannel) ||
  // PhantomJS
  MessageChannel.toString() === '[object MessageChannelConstructor]'
)) {
  var channel$1 = new MessageChannel();
  var port$1 = channel$1.port2;
  channel$1.port1.onmessage = flushCallbacks$1;
  macroTimerFunc$1 = function () {
    port$1.postMessage(1);
  };
} else {
  /* istanbul ignore next */
  macroTimerFunc$1 = function () {
    setTimeout(flushCallbacks$1, 0);
  };
}

// Determine MicroTask defer implementation.
/* istanbul ignore next, $flow-disable-line */
if (typeof Promise !== 'undefined' && isNative$1(Promise)) {
  var p$1 = Promise.resolve();
  microTimerFunc$1 = function () {
    p$1.then(flushCallbacks$1);
    // in problematic UIWebViews, Promise.then doesn't completely break, but
    // it can get stuck in a weird state where callbacks are pushed into the
    // microtask queue but the queue isn't being flushed, until the browser
    // needs to do some other work, e.g. handle a timer. Therefore we can
    // "force" the microtask queue to be flushed by adding an empty timer.
    if (isIOS$1) { setTimeout(noop$2); }
  };
} else {
  // fallback to macro
  microTimerFunc$1 = macroTimerFunc$1;
}

/**
 * Wrap a function so that if any code inside triggers state change,
 * the changes are queued using a Task instead of a MicroTask.
 */
function withMacroTask$1 (fn) {
  return fn._withTask || (fn._withTask = function () {
```

```
    useMacroTask$1 = true;
    var res = fn.apply(null, arguments);
    useMacroTask$1 = false;
    return res
  })
}

function nextTick$2 (cb, ctx) {
  var _resolve;
  callbacks$1.push(function () {
    if (cb) {
      try {
        cb.call(ctx);
      } catch (e) {
        handleError$1(e, ctx, 'nextTick');
      }
    } else if (_resolve) {
      _resolve(ctx);
    }
  });
  if (!pending$1) {
    pending$1 = true;
    if (useMacroTask$1) {
      macroTimerFunc$1();
    } else {
      microTimerFunc$1();
    }
  }
  // $flow-disable-line
  if (!cb && typeof Promise !== 'undefined') {
    return new Promise(function (resolve) {
      _resolve = resolve;
    })
  }
}

/*  */

/* not type checking this file because flow doesn't play well with Proxy */

var initProxy$1;

if (process.env.NODE_ENV !== 'production') {
  var allowedGlobals$1 = makeMap$1(
    'Infinity,undefined,NaN,isFinite,isNaN,' +
    'parseFloat,parseInt,decodeURI,decodeURIComponent,encodeURI,encodeURIComponent,' +
```

```
  'Math,Number,Date,Array,Object,Boolean,String,RegExp,Map,Set,JSON,Intl,' +
  'require' // for Webpack/Browserify
);

var warnNonPresent$1 = function (target, key) {
  warn$1(
    "Property or method \"" + key + "\" is not defined on the instance but " +
    'referenced during render. Make sure that this property is reactive, ' +
    'either in the data option, or for class-based components, by ' +
    'initializing the property. ' +
    'See: https://vuejs.org/v2/guide/reactivity.html#Declaring-Reactive-Properties.',
    target
  );
};

var hasProxy$1 =
  typeof Proxy !== 'undefined' &&
  Proxy.toString().match(/native code/);

if (hasProxy$1) {
  var isBuiltInModifier$1 = makeMap$1('stop,prevent,self,ctrl,shift,alt,meta,exact');
  config$2.keyCodes = new Proxy(config$2.keyCodes, {
    set: function set (target, key, value) {
      if (isBuiltInModifier$1(key)) {
        warn$1(("Avoid overwriting built-in modifier in config.keyCodes: ." + key));
        return false
      } else {
        target[key] = value;
        return true
      }
    }
  });
}

var hasHandler$1 = {
  has: function has (target, key) {
    var has = key in target;
    var isAllowed = allowedGlobals$1(key) || key.charAt(0) === '_';
    if (!has && !isAllowed) {
      warnNonPresent$1(target, key);
    }
    return has || !isAllowed
  }
};

var getHandler$1 = {
```

```
    get: function get (target, key) {
      if (typeof key === 'string' && !(key in target)) {
        warnNonPresent$1(target, key);
      }
      return target[key]
    }
  };

  initProxy$1 = function initProxy (vm) {
    if (hasProxy$1) {
      // determine which proxy handler to use
      var options = vm.$options;
      var handlers = options.render && options.render._withStripped
        ? getHandler$1
        : hasHandler$1;
      vm._renderProxy = new Proxy(vm, handlers);
    } else {
      vm._renderProxy = vm;
    }
  };
}

/*  */

var seenObjects$1 = new _Set$1();

/**
 * Recursively traverse an object to evoke all converted
 * getters, so that every nested property inside the object
 * is collected as a "deep" dependency.
 */
function traverse$1 (val) {
  _traverse$1(val, seenObjects$1);
  seenObjects$1.clear();
}

function _traverse$1 (val, seen) {
  var i, keys;
  var isA = Array.isArray(val);
  if ((!isA && !isObject$1(val)) || Object.isFrozen(val)) {
    return
  }
  if (val.__ob__) {
    var depId = val.__ob__.dep.id;
    if (seen.has(depId)) {
      return
```

```
    }
    seen.add(depId);
  }
  if (isA) {
    i = val.length;
    while (i--) { _traverse$1(val[i], seen); }
  } else {
    keys = Object.keys(val);
    i = keys.length;
    while (i--) { _traverse$1(val[keys[i]], seen); }
  }
}

var mark$1;
var measure$1;

if (process.env.NODE_ENV !== 'production') {
  var perf$1 = inBrowser$1 && window.performance;
  /* istanbul ignore if */
  if (
    perf$1 &&
    perf$1.mark &&
    perf$1.measure &&
    perf$1.clearMarks &&
    perf$1.clearMeasures
  ) {
    mark$1 = function (tag) { return perf$1.mark(tag); };
    measure$1 = function (name, startTag, endTag) {
      perf$1.measure(name, startTag, endTag);
      perf$1.clearMarks(startTag);
      perf$1.clearMarks(endTag);
      perf$1.clearMeasures(name);
    };
  }
}

/*  */

var normalizeEvent$1 = cached$1(function (name) {
  var passive = name.charAt(0) === '&';
  name = passive ? name.slice(1) : name;
  var once$$1 = name.charAt(0) === '~'; // Prefixed last, checked first
  name = once$$1 ? name.slice(1) : name;
  var capture = name.charAt(0) === '!';
  name = capture ? name.slice(1) : name;
  return {
```

```
    name: name,
    once: once$$1,
    capture: capture,
    passive: passive
  }
});

function createFnInvoker$1 (fns) {
  function invoker () {
    var arguments$1 = arguments;

    var fns = invoker.fns;
    if (Array.isArray(fns)) {
      var cloned = fns.slice();
      for (var i = 0; i < cloned.length; i++) {
        cloned[i].apply(null, arguments$1);
      }
    } else {
      // return handler return value for single handlers
      return fns.apply(null, arguments)
    }
  }
  invoker.fns = fns;
  return invoker
}

function updateListeners$1 (
  on$$1,
  oldOn,
  add,
  remove$$1,
  vm
) {
  var name, def, cur, old, event;
  for (name in on$$1) {
    def = cur = on$$1[name];
    old = oldOn[name];
    event = normalizeEvent$1(name);
    /* istanbul ignore if */
    if (isUndef$1(cur)) {
      process.env.NODE_ENV !== 'production' && warn$1(
        "Invalid handler for event \"" + (event.name) + "\": got " + String(cur),
        vm
      );
    } else if (isUndef$1(old)) {
      if (isUndef$1(cur.fns)) {
```

```
      cur = on$$1[name] = createFnInvoker$1(cur);
    }
    add(event.name, cur, event.once, event.capture, event.passive, event.params);
  } else if (cur !== old) {
    old.fns = cur;
    on$$1[name] = old;
  }
 }
 for (name in oldOn) {
  if (isUndef$1(on$$1[name])) {
    event = normalizeEvent$1(name);
    remove$$1(event.name, oldOn[name], event.capture);
  }
 }
}

/*  */

function mergeVNodeHook$1 (def, hookKey, hook) {
 if (def instanceof VNode$1) {
  def = def.data.hook || (def.data.hook = {});
 }
 var invoker;
 var oldHook = def[hookKey];

 function wrappedHook () {
  hook.apply(this, arguments);
  // important: remove merged hook to ensure it's called only once
  // and prevent memory leak
  remove$3(invoker.fns, wrappedHook);
 }

 if (isUndef$1(oldHook)) {
  // no existing hook
  invoker = createFnInvoker$1([wrappedHook]);
 } else {
  /* istanbul ignore if */
  if (isDef$1(oldHook.fns) && isTrue$1(oldHook.merged)) {
    // already a merged invoker
    invoker = oldHook;
    invoker.fns.push(wrappedHook);
  } else {
    // existing plain hook
    invoker = createFnInvoker$1([oldHook, wrappedHook]);
  }
 }
```

```
  invoker.merged = true;
  def[hookKey] = invoker;
}

/*  */

function extractPropsFromVNodeData$1 (
  data,
  Ctor,
  tag
) {
  // we are only extracting raw values here.
  // validation and default values are handled in the child
  // component itself.
  var propOptions = Ctor.options.props;
  if (isUndef$1(propOptions)) {
    return
  }
  var res = {};
  var attrs = data.attrs;
  var props = data.props;
  if (isDef$1(attrs) || isDef$1(props)) {
    for (var key in propOptions) {
      var altKey = hyphenate$1(key);
      if (process.env.NODE_ENV !== 'production') {
        var keyInLowerCase = key.toLowerCase();
        if (
          key !== keyInLowerCase &&
          attrs && hasOwn$1(attrs, keyInLowerCase)
        ) {
          tip$1(
            "Prop \"" + keyInLowerCase + "\" is passed to component " +
            (formatComponentName$1(tag || Ctor)) + ", but the declared prop name is" +
            " \"" + key + "\". " +
            "Note that HTML attributes are case-insensitive and camelCased " +
            "props need to use their kebab-case equivalents when using in-DOM " +
            "templates. You should probably use \"" + altKey + "\" instead of \"" + key + "\"."
          );
        }
      }
      checkProp$1(res, props, key, altKey, true) ||
      checkProp$1(res, attrs, key, altKey, false);
    }
  }
  return res
```

```
}

function checkProp$1 (
  res,
  hash,
  key,
  altKey,
  preserve
) {
  if (isDef$1(hash)) {
    if (hasOwn$1(hash, key)) {
      res[key] = hash[key];
      if (!preserve) {
        delete hash[key];
      }
      return true
    } else if (hasOwn$1(hash, altKey)) {
      res[key] = hash[altKey];
      if (!preserve) {
        delete hash[altKey];
      }
      return true
    }
  }
  return false
}

/*  */

// The template compiler attempts to minimize the need for normalization by
// statically analyzing the template at compile time.
//
// For plain HTML markup, normalization can be completely skipped because the
// generated render function is guaranteed to return Array<VNode>. There are
// two cases where extra normalization is needed:

// 1. When the children contains components - because a functional component
// may return an Array instead of a single root. In this case, just a simple
// normalization is needed - if any child is an Array, we flatten the whole
// thing with Array.prototype.concat. It is guaranteed to be only 1-level deep
// because functional components already normalize their own children.
function simpleNormalizeChildren$1 (children) {
  for (var i = 0; i < children.length; i++) {
    if (Array.isArray(children[i])) {
      return Array.prototype.concat.apply([], children)
    }
```

```
  }
  return children
}

// 2. When the children contains constructs that always generated nested Arrays,
// e.g. <template>, <slot>, v-for, or when the children is provided by user
// with hand-written render functions / JSX. In such cases a full normalization
// is needed to cater to all possible types of children values.
function normalizeChildren$1 (children) {
  return isPrimitive$1(children)
    ? [createTextVNode$1(children)]
    : Array.isArray(children)
      ? normalizeArrayChildren$1(children)
      : undefined
}

function isTextNode$1 (node) {
  return isDef$1(node) && isDef$1(node.text) && isFalse$1(node.isComment)
}

function normalizeArrayChildren$1 (children, nestedIndex) {
  var res = [];
  var i, c, lastIndex, last;
  for (i = 0; i < children.length; i++) {
    c = children[i];
    if (isUndef$1(c) || typeof c === 'boolean') { continue }
    lastIndex = res.length - 1;
    last = res[lastIndex];
    //  nested
    if (Array.isArray(c)) {
      if (c.length > 0) {
        c = normalizeArrayChildren$1(c, ((nestedIndex || '') + "_" + i));
        // merge adjacent text nodes
        if (isTextNode$1(c[0]) && isTextNode$1(last)) {
          res[lastIndex] = createTextVNode$1(last.text + (c[0]).text);
          c.shift();
        }
        res.push.apply(res, c);
      }
    } else if (isPrimitive$1(c)) {
      if (isTextNode$1(last)) {
        // merge adjacent text nodes
        // this is necessary for SSR hydration because text nodes are
        // essentially merged when rendered to HTML strings
        res[lastIndex] = createTextVNode$1(last.text + c);
      } else if (c !== '') {
```

```
      // convert primitive to vnode
      res.push(createTextVNode$1(c));
    }
  } else {
    if (isTextNode$1(c) && isTextNode$1(last)) {
      // merge adjacent text nodes
      res[lastIndex] = createTextVNode$1(last.text + c.text);
    } else {
      // default key for nested array children (likely generated by v-for)
      if (isTrue$1(children._isVList) &&
        isDef$1(c.tag) &&
        isUndef$1(c.key) &&
        isDef$1(nestedIndex)) {
        c.key = "__vlist" + nestedIndex + "_" + i + "__";
      }
      res.push(c);
    }
  }
 }
 return res
}

/*  */

function ensureCtor$1 (comp, base) {
 if (
  comp.__esModule ||
  (hasSymbol$1 && comp[Symbol.toStringTag] === 'Module')
 ) {
  comp = comp.default;
 }
 return isObject$1(comp)
  ? base.extend(comp)
  : comp
}

function createAsyncPlaceholder$1 (
 factory,
 data,
 context,
 children,
 tag
) {
 var node = createEmptyVNode$1();
 node.asyncFactory = factory;
 node.asyncMeta = { data: data, context: context, children: children, tag: tag };
```

```
  return node
}

function resolveAsyncComponent$1 (
  factory,
  baseCtor,
  context
) {
  if (isTrue$1(factory.error) && isDef$1(factory.errorComp)) {
    return factory.errorComp
  }

  if (isDef$1(factory.resolved)) {
    return factory.resolved
  }

  if (isTrue$1(factory.loading) && isDef$1(factory.loadingComp)) {
    return factory.loadingComp
  }

  if (isDef$1(factory.contexts)) {
    // already pending
    factory.contexts.push(context);
  } else {
    var contexts = factory.contexts = [context];
    var sync = true;

    var forceRender = function () {
      for (var i = 0, l = contexts.length; i < l; i++) {
        contexts[i].$forceUpdate();
      }
    };

    var resolve = once$2(function (res) {
      // cache resolved
      factory.resolved = ensureCtor$1(res, baseCtor);
      // invoke callbacks only if this is not a synchronous resolve
      // (async resolves are shimmed as synchronous during SSR)
      if (!sync) {
        forceRender();
      }
    });

    var reject = once$2(function (reason) {
      process.env.NODE_ENV !== 'production' && warn$1(
        "Failed to resolve async component: " + (String(factory)) +
```

```
    (reason ? ("\nReason: " + reason) : '')
  );
  if (isDef$1(factory.errorComp)) {
    factory.error = true;
    forceRender();
  }
});

var res = factory(resolve, reject);

if (isObject$1(res)) {
  if (typeof res.then === 'function') {
    // () => Promise
    if (isUndef$1(factory.resolved)) {
      res.then(resolve, reject);
    }
  } else if (isDef$1(res.component) && typeof res.component.then === 'function') {
    res.component.then(resolve, reject);

    if (isDef$1(res.error)) {
      factory.errorComp = ensureCtor$1(res.error, baseCtor);
    }

    if (isDef$1(res.loading)) {
      factory.loadingComp = ensureCtor$1(res.loading, baseCtor);
      if (res.delay === 0) {
        factory.loading = true;
      } else {
        setTimeout(function () {
          if (isUndef$1(factory.resolved) && isUndef$1(factory.error)) {
            factory.loading = true;
            forceRender();
          }
        }, res.delay || 200);
      }
    }

    if (isDef$1(res.timeout)) {
      setTimeout(function () {
        if (isUndef$1(factory.resolved)) {
          reject(
            process.env.NODE_ENV !== 'production'
              ? ("timeout (" + (res.timeout) + "ms)")
              : null
          );
        }
```

```
        }, res.timeout);
      }
    }
  }

  sync = false;
  // return in case resolved synchronously
  return factory.loading
    ? factory.loadingComp
    : factory.resolved
 }
}

/*  */

function isAsyncPlaceholder$1 (node) {
 return node.isComment && node.asyncFactory
}

/*  */

function getFirstComponentChild$1 (children) {
 if (Array.isArray(children)) {
  for (var i = 0; i < children.length; i++) {
   var c = children[i];
   if (isDef$1(c) && (isDef$1(c.componentOptions) || isAsyncPlaceholder$1(c))) {
    return c
   }
  }
 }
}

/*  */

/*  */

function initEvents$1 (vm) {
 vm._events = Object.create(null);
 vm._hasHookEvent = false;
 // init parent attached events
 var listeners = vm.$options._parentListeners;
 if (listeners) {
  updateComponentListeners$1(vm, listeners);
 }
}
```

```
var target$2;

function add$2 (event, fn, once$$1) {
  if (once$$1) {
    target$2.$once(event, fn);
  } else {
    target$2.$on(event, fn);
  }
}

function remove$1$1 (event, fn) {
  target$2.$off(event, fn);
}

function updateComponentListeners$1 (
  vm,
  listeners,
  oldListeners
) {
  target$2 = vm;
  updateListeners$1(listeners, oldListeners || {}, add$2, remove$1$1, vm);
  target$2 = undefined;
}

function eventsMixin$1 (Vue) {
  var hookRE = /^hook:/;
  Vue.prototype.$on = function (event, fn) {
    var this$1 = this;

    var vm = this;
    if (Array.isArray(event)) {
      for (var i = 0, l = event.length; i < l; i++) {
        this$1.$on(event[i], fn);
      }
    } else {
      (vm._events[event] || (vm._events[event] = [])).push(fn);
      // optimize hook:event cost by using a boolean flag marked at registration
      // instead of a hash lookup
      if (hookRE.test(event)) {
        vm._hasHookEvent = true;
      }
    }
    return vm
  };

  Vue.prototype.$once = function (event, fn) {
```

```
  var vm = this;
  function on$$1 () {
    vm.$off(event, on$$1);
    fn.apply(vm, arguments);
  }
  on$$1.fn = fn;
  vm.$on(event, on$$1);
  return vm
};

Vue.prototype.$off = function (event, fn) {
  var this$1 = this;

  var vm = this;
  // all
  if (!arguments.length) {
    vm._events = Object.create(null);
    return vm
  }
  // array of events
  if (Array.isArray(event)) {
    for (var i = 0, l = event.length; i < l; i++) {
      this$1.$off(event[i], fn);
    }
    return vm
  }
  // specific event
  var cbs = vm._events[event];
  if (!cbs) {
    return vm
  }
  if (!fn) {
    vm._events[event] = null;
    return vm
  }
  if (fn) {
    // specific handler
    var cb;
    var i$1 = cbs.length;
    while (i$1--) {
      cb = cbs[i$1];
      if (cb === fn || cb.fn === fn) {
        cbs.splice(i$1, 1);
        break
      }
    }
```

```
    }
    return vm
  };

  Vue.prototype.$emit = function (event) {
    var vm = this;
    if (process.env.NODE_ENV !== 'production') {
      var lowerCaseEvent = event.toLowerCase();
      if (lowerCaseEvent !== event && vm._events[lowerCaseEvent]) {
        tip$1(
          "Event \"" + lowerCaseEvent + "\" is emitted in component " +
          (formatComponentName$1(vm)) + " but the handler is registered for \"" + event + "\". " +
          "Note that HTML attributes are case-insensitive and you cannot use " +
          "v-on to listen to camelCase events when using in-DOM templates. " +
          "You should probably use \"" + (hyphenate$1(event)) + "\" instead of \"" + event + "\"."
        );
      }
    }
    var cbs = vm._events[event];
    if (cbs) {
      cbs = cbs.length > 1 ? toArray$1(cbs) : cbs;
      var args = toArray$1(arguments, 1);
      for (var i = 0, l = cbs.length; i < l; i++) {
        try {
          cbs[i].apply(vm, args);
        } catch (e) {
          handleError$1(e, vm, ("event handler for \"" + event + "\""));
        }
      }
    }
    return vm
  };
}

/*  */



/**
 * Runtime helper for resolving raw children VNodes into a slot object.
 */
function resolveSlots$1 (
  children,
  context
) {
  var slots = {};
```

```
  if (!children) {
    return slots
  }
  for (var i = 0, l = children.length; i < l; i++) {
    var child = children[i];
    var data = child.data;
    // remove slot attribute if the node is resolved as a Vue slot node
    if (data && data.attrs && data.attrs.slot) {
      delete data.attrs.slot;
    }
    // named slots should only be respected if the vnode was rendered in the
    // same context.
    if ((child.context === context || child.fnContext === context) &&
      data && data.slot != null
    ) {
      var name = data.slot;
      var slot = (slots[name] || (slots[name] = []));
      if (child.tag === 'template') {
        slot.push.apply(slot, child.children || []);
      } else {
        slot.push(child);
      }
    } else {
      (slots.default || (slots.default = [])).push(child);
    }
  }
  // ignore slots that contains only whitespace
  for (var name$1 in slots) {
    if (slots[name$1].every(isWhitespace$1)) {
      delete slots[name$1];
    }
  }
  return slots
}

function isWhitespace$1 (node) {
  return (node.isComment && !node.asyncFactory) || node.text === ' '
}

function resolveScopedSlots$1 (
  fns, // see flow/vnode
  res
) {
  res = res || {};
  for (var i = 0; i < fns.length; i++) {
    if (Array.isArray(fns[i])) {
```

```
      resolveScopedSlots$1(fns[i], res);
    } else {
      res[fns[i].key] = fns[i].fn;
    }
  }
  return res
}

/*  */

var activeInstance$1 = null;
var isUpdatingChildComponent$1 = false;

function initLifecycle$1 (vm) {
  var options = vm.$options;

  // locate first non-abstract parent
  var parent = options.parent;
  if (parent && !options.abstract) {
    while (parent.$options.abstract && parent.$parent) {
      parent = parent.$parent;
    }
    parent.$children.push(vm);
  }

  vm.$parent = parent;
  vm.$root = parent ? parent.$root : vm;

  vm.$children = [];
  vm.$refs = {};

  vm._watcher = null;
  vm._inactive = null;
  vm._directInactive = false;
  vm._isMounted = false;
  vm._isDestroyed = false;
  vm._isBeingDestroyed = false;
}

function lifecycleMixin$1 (Vue) {
  Vue.prototype._update = function (vnode, hydrating) {
    var vm = this;
    if (vm._isMounted) {
      callHook$2(vm, 'beforeUpdate');
    }
    var prevEl = vm.$el;
```

```
  var prevVnode = vm._vnode;
  var prevActiveInstance = activeInstance$1;
  activeInstance$1 = vm;
  vm._vnode = vnode;
  // Vue.prototype.__patch__ is injected in entry points
  // based on the rendering backend used.
  if (!prevVnode) {
    // initial render
    vm.$el = vm.__patch__(
      vm.$el, vnode, hydrating, false /* removeOnly */,
      vm.$options._parentElm,
      vm.$options._refElm
    );
    // no need for the ref nodes after initial patch
    // this prevents keeping a detached DOM tree in memory (#5851)
    vm.$options._parentElm = vm.$options._refElm = null;
  } else {
    // updates
    vm.$el = vm.__patch__(prevVnode, vnode);
  }
  activeInstance$1 = prevActiveInstance;
  // update __vue__ reference
  if (prevEl) {
    prevEl.__vue__ = null;
  }
  if (vm.$el) {
    vm.$el.__vue__ = vm;
  }
  // if parent is an HOC, update its $el as well
  if (vm.$vnode && vm.$parent && vm.$vnode === vm.$parent._vnode) {
    vm.$parent.$el = vm.$el;
  }
  // updated hook is called by the scheduler to ensure that children are
  // updated in a parent's updated hook.
};

Vue.prototype.$forceUpdate = function () {
  var vm = this;
  if (vm._watcher) {
    vm._watcher.update();
  }
};

Vue.prototype.$destroy = function () {
  var vm = this;
  if (vm._isBeingDestroyed) {
```

```
    return
  }
  callHook$2(vm, 'beforeDestroy');
  vm._isBeingDestroyed = true;
  // remove self from parent
  var parent = vm.$parent;
  if (parent && !parent._isBeingDestroyed && !vm.$options.abstract) {
    remove$3(parent.$children, vm);
  }
  // teardown watchers
  if (vm._watcher) {
    vm._watcher.teardown();
  }
  var i = vm._watchers.length;
  while (i--) {
    vm._watchers[i].teardown();
  }
  // remove reference from data ob
  // frozen object may not have observer.
  if (vm._data.__ob__) {
    vm._data.__ob__.vmCount--;
  }
  // call the last hook...
  vm._isDestroyed = true;
  // invoke destroy hooks on current rendered tree
  vm.__patch__(vm._vnode, null);
  // fire destroyed hook
  callHook$2(vm, 'destroyed');
  // turn off all instance listeners.
  vm.$off();
  // remove __vue__ reference
  if (vm.$el) {
    vm.$el.__vue__ = null;
  }
  // release circular reference (#6759)
  if (vm.$vnode) {
    vm.$vnode.parent = null;
  }
 };
}

function mountComponent$1 (
 vm,
 el,
 hydrating
) {
```

```
vm.$el = el;
if (!vm.$options.render) {
  vm.$options.render = createEmptyVNode$1;
  if (process.env.NODE_ENV !== 'production') {
    /* istanbul ignore if */
    if ((vm.$options.template && vm.$options.template.charAt(0) !== '#') ||
      vm.$options.el || el) {
      warn$1(
        'You are using the runtime-only build of Vue where the template ' +
        'compiler is not available. Either pre-compile the templates into ' +
        'render functions, or use the compiler-included build.',
        vm
      );
    } else {
      warn$1(
        'Failed to mount component: template or render function not defined.',
        vm
      );
    }
  }
}
callHook$2(vm, 'beforeMount');

var updateComponent;
/* istanbul ignore if */
if (process.env.NODE_ENV !== 'production' && config$2.performance && mark$1) {
  updateComponent = function () {
    var name = vm._name;
    var id = vm._uid;
    var startTag = "vue-perf-start:" + id;
    var endTag = "vue-perf-end:" + id;

    mark$1(startTag);
    var vnode = vm._render();
    mark$1(endTag);
    measure$1(("vue " + name + " render"), startTag, endTag);

    mark$1(startTag);
    vm._update(vnode, hydrating);
    mark$1(endTag);
    measure$1(("vue " + name + " patch"), startTag, endTag);
  };
} else {
  updateComponent = function () {
    vm._update(vm._render(), hydrating);
  };
```

```
  }

  // we set this to vm._watcher inside the watcher's constructor
  // since the watcher's initial patch may call $forceUpdate (e.g. inside child
  // component's mounted hook), which relies on vm._watcher being already defined
  new Watcher$1(vm, updateComponent, noop$2, null, true /* isRenderWatcher */);
  hydrating = false;

  // manually mounted instance, call mounted on self
  // mounted is called for render-created child components in its inserted hook
  if (vm.$vnode == null) {
    vm._isMounted = true;
    callHook$2(vm, 'mounted');
  }
  return vm
}

function updateChildComponent$1 (
  vm,
  propsData,
  listeners,
  parentVnode,
  renderChildren
) {
  if (process.env.NODE_ENV !== 'production') {
    isUpdatingChildComponent$1 = true;
  }

  // determine whether component has slot children
  // we need to do this before overwriting $options._renderChildren
  var hasChildren = !!(
    renderChildren ||               // has new static slots
    vm.$options._renderChildren ||  // has old static slots
    parentVnode.data.scopedSlots || // has new scoped slots
    vm.$scopedSlots !== emptyObject$1 // has old scoped slots
  );

  vm.$options._parentVnode = parentVnode;
  vm.$vnode = parentVnode; // update vm's placeholder node without re-render

  if (vm._vnode) { // update child tree's parent
    vm._vnode.parent = parentVnode;
  }
  vm.$options._renderChildren = renderChildren;

  // update $attrs and $listeners hash
```

```
  // these are also reactive so they may trigger child update if the child
  // used them during render
  vm.$attrs = (parentVnode.data && parentVnode.data.attrs) || emptyObject$1;
  vm.$listeners = listeners || emptyObject$1;

  // update props
  if (propsData && vm.$options.props) {
    observerState$1.shouldConvert = false;
    var props = vm._props;
    var propKeys = vm.$options._propKeys || [];
    for (var i = 0; i < propKeys.length; i++) {
      var key = propKeys[i];
      props[key] = validateProp$1(key, vm.$options.props, propsData, vm);
    }
    observerState$1.shouldConvert = true;
    // keep a copy of raw propsData
    vm.$options.propsData = propsData;
  }

  // update listeners
  if (listeners) {
    var oldListeners = vm.$options._parentListeners;
    vm.$options._parentListeners = listeners;
    updateComponentListeners$1(vm, listeners, oldListeners);
  }
  // resolve slots + force update if has children
  if (hasChildren) {
    vm.$slots = resolveSlots$1(renderChildren, parentVnode.context);
    vm.$forceUpdate();
  }

  if (process.env.NODE_ENV !== 'production') {
    isUpdatingChildComponent$1 = false;
  }
}

function isInInactiveTree$1 (vm) {
  while (vm && (vm = vm.$parent)) {
    if (vm._inactive) { return true }
  }
  return false
}

function activateChildComponent$1 (vm, direct) {
  if (direct) {
    vm._directInactive = false;
```

```
    if (isInInactiveTree$1(vm)) {
      return
    }
  } else if (vm._directInactive) {
    return
  }
  if (vm._inactive || vm._inactive === null) {
    vm._inactive = false;
    for (var i = 0; i < vm.$children.length; i++) {
      activateChildComponent$1(vm.$children[i]);
    }
    callHook$2(vm, 'activated');
  }
}

function deactivateChildComponent$1 (vm, direct) {
  if (direct) {
    vm._directInactive = true;
    if (isInInactiveTree$1(vm)) {
      return
    }
  }
  if (!vm._inactive) {
    vm._inactive = true;
    for (var i = 0; i < vm.$children.length; i++) {
      deactivateChildComponent$1(vm.$children[i]);
    }
    callHook$2(vm, 'deactivated');
  }
}

function callHook$2 (vm, hook) {
  var handlers = vm.$options[hook];
  if (handlers) {
    for (var i = 0, j = handlers.length; i < j; i++) {
      try {
        handlers[i].call(vm);
      } catch (e) {
        handleError$1(e, vm, (hook + " hook"));
      }
    }
  }
  if (vm._hasHookEvent) {
    vm.$emit('hook:' + hook);
  }
}
```

```
/*  */


var MAX_UPDATE_COUNT$1 = 100;

var queue$2 = [];
var activatedChildren$1 = [];
var has$1 = {};
var circular$1 = {};
var waiting$1 = false;
var flushing$1 = false;
var index$1 = 0;

/**
 * Reset the scheduler's state.
 */
function resetSchedulerState$1 () {
  index$1 = queue$2.length = activatedChildren$1.length = 0;
  has$1 = {};
  if (process.env.NODE_ENV !== 'production') {
    circular$1 = {};
  }
  waiting$1 = flushing$1 = false;
}

/**
 * Flush both queues and run the watchers.
 */
function flushSchedulerQueue$1 () {
  flushing$1 = true;
  var watcher, id;

  // Sort queue before flush.
  // This ensures that:
  // 1. Components are updated from parent to child. (because parent is always
  //    created before the child)
  // 2. A component's user watchers are run before its render watcher (because
  //    user watchers are created before the render watcher)
  // 3. If a component is destroyed during a parent component's watcher run,
  //    its watchers can be skipped.
  queue$2.sort(function (a, b) { return a.id - b.id; });

  // do not cache length because more watchers might be pushed
  // as we run existing watchers
  for (index$1 = 0; index$1 < queue$2.length; index$1++) {
```

```
    watcher = queue$2[index$1];
    id = watcher.id;
    has$1[id] = null;
    watcher.run();
    // in dev build, check and stop circular updates.
    if (process.env.NODE_ENV !== 'production' && has$1[id] != null) {
      circular$1[id] = (circular$1[id] || 0) + 1;
      if (circular$1[id] > MAX_UPDATE_COUNT$1) {
        warn$1(
          'You may have an infinite update loop ' + (
            watcher.user
              ? ("in watcher with expression \"" + (watcher.expression) + "\"")
              : "in a component render function."
          ),
          watcher.vm
        );
        break
      }
    }
  }

  // keep copies of post queues before resetting state
  var activatedQueue = activatedChildren$1.slice();
  var updatedQueue = queue$2.slice();

  resetSchedulerState$1();

  // call component updated and activated hooks
  callActivatedHooks$1(activatedQueue);
  callUpdatedHooks$1(updatedQueue);

  // devtool hook
  /* istanbul ignore if */
  if (devtools$1 && config$2.devtools) {
    devtools$1.emit('flush');
  }
}

function callUpdatedHooks$1 (queue) {
  var i = queue.length;
  while (i--) {
    var watcher = queue[i];
    var vm = watcher.vm;
    if (vm._watcher === watcher && vm._isMounted) {
      callHook$2(vm, 'updated');
    }
```

```
  }
}

/**
 * Queue a kept-alive component that was activated during patch.
 * The queue will be processed after the entire tree has been patched.
 */
function queueActivatedComponent$1 (vm) {
  // setting _inactive to false here so that a render function can
  // rely on checking whether it's in an inactive tree (e.g. router-view)
  vm._inactive = false;
  activatedChildren$1.push(vm);
}

function callActivatedHooks$1 (queue) {
  for (var i = 0; i < queue.length; i++) {
    queue[i]._inactive = true;
    activateChildComponent$1(queue[i], true /* true */);
  }
}

/**
 * Push a watcher into the watcher queue.
 * Jobs with duplicate IDs will be skipped unless it's
 * pushed when the queue is being flushed.
 */
function queueWatcher$1 (watcher) {
  var id = watcher.id;
  if (has$1[id] == null) {
    has$1[id] = true;
    if (!flushing$1) {
      queue$2.push(watcher);
    } else {
      // if already flushing, splice the watcher based on its id
      // if already past its id, it will be run next immediately.
      var i = queue$2.length - 1;
      while (i > index$1 && queue$2[i].id > watcher.id) {
        i--;
      }
      queue$2.splice(i + 1, 0, watcher);
    }
    // queue the flush
    if (!waiting$1) {
      waiting$1 = true;
      nextTick$2(flushSchedulerQueue$1);
    }
```

```
  }
}

/*  */

var uid$2$1 = 0;

/**
 * A watcher parses an expression, collects dependencies,
 * and fires callback when the expression value changes.
 * This is used for both the $watch() api and directives.
 */
var Watcher$1 = function Watcher (
  vm,
  expOrFn,
  cb,
  options,
  isRenderWatcher
) {
  this.vm = vm;
  if (isRenderWatcher) {
    vm._watcher = this;
  }
  vm._watchers.push(this);
  // options
  if (options) {
    this.deep = !!options.deep;
    this.user = !!options.user;
    this.lazy = !!options.lazy;
    this.sync = !!options.sync;
  } else {
    this.deep = this.user = this.lazy = this.sync = false;
  }
  this.cb = cb;
  this.id = ++uid$2$1; // uid for batching
  this.active = true;
  this.dirty = this.lazy; // for lazy watchers
  this.deps = [];
  this.newDeps = [];
  this.depIds = new _Set$1();
  this.newDepIds = new _Set$1();
  this.expression = process.env.NODE_ENV !== 'production'
    ? expOrFn.toString()
    : '';
  // parse expression for getter
  if (typeof expOrFn === 'function') {
```

```
    this.getter = expOrFn;
  } else {
    this.getter = parsePath$1(expOrFn);
    if (!this.getter) {
      this.getter = function () {};
      process.env.NODE_ENV !== 'production' && warn$1(
        "Failed watching path: \"" + expOrFn + "\" " +
        'Watcher only accepts simple dot-delimited paths. ' +
        'For full control, use a function instead.',
        vm
      );
    }
  }
  this.value = this.lazy
    ? undefined
    : this.get();
};

/**
 * Evaluate the getter, and re-collect dependencies.
 */
Watcher$1.prototype.get = function get () {
  pushTarget$1(this);
  var value;
  var vm = this.vm;
  try {
    value = this.getter.call(vm, vm);
  } catch (e) {
    if (this.user) {
      handleError$1(e, vm, ("getter for watcher \"" + (this.expression) + "\""));
    } else {
      throw e
    }
  } finally {
    // "touch" every property so they are all tracked as
    // dependencies for deep watching
    if (this.deep) {
      traverse$1(value);
    }
    popTarget$1();
    this.cleanupDeps();
  }
  return value
};

/**
```

```
 * Add a dependency to this directive.
 */
Watcher$1.prototype.addDep = function addDep (dep) {
  var id = dep.id;
  if (!this.newDepIds.has(id)) {
    this.newDepIds.add(id);
    this.newDeps.push(dep);
    if (!this.depIds.has(id)) {
      dep.addSub(this);
    }
  }
};

/**
 * Clean up for dependency collection.
 */
Watcher$1.prototype.cleanupDeps = function cleanupDeps () {
    var this$1 = this;

  var i = this.deps.length;
  while (i--) {
    var dep = this$1.deps[i];
    if (!this$1.newDepIds.has(dep.id)) {
      dep.removeSub(this$1);
    }
  }
  var tmp = this.depIds;
  this.depIds = this.newDepIds;
  this.newDepIds = tmp;
  this.newDepIds.clear();
  tmp = this.deps;
  this.deps = this.newDeps;
  this.newDeps = tmp;
  this.newDeps.length = 0;
};

/**
 * Subscriber interface.
 * Will be called when a dependency changes.
 */
Watcher$1.prototype.update = function update () {
  /* istanbul ignore else */
  if (this.lazy) {
    this.dirty = true;
  } else if (this.sync) {
    this.run();
```

```
  } else {
    queueWatcher$1(this);
  }
};

/**
 * Scheduler job interface.
 * Will be called by the scheduler.
 */
Watcher$1.prototype.run = function run () {
  if (this.active) {
    var value = this.get();
    if (
      value !== this.value ||
      // Deep watchers and watchers on Object/Arrays should fire even
      // when the value is the same, because the value may
      // have mutated.
      isObject$1(value) ||
      this.deep
    ) {
      // set new value
      var oldValue = this.value;
      this.value = value;
      if (this.user) {
        try {
          this.cb.call(this.vm, value, oldValue);
        } catch (e) {
          handleError$1(e, this.vm, ("callback for watcher \"" + (this.expression) + "\""));
        }
      } else {
        this.cb.call(this.vm, value, oldValue);
      }
    }
  }
};

/**
 * Evaluate the value of the watcher.
 * This only gets called for lazy watchers.
 */
Watcher$1.prototype.evaluate = function evaluate () {
  this.value = this.get();
  this.dirty = false;
};

/**
```

```
 * Depend on all deps collected by this watcher.
 */
Watcher$1.prototype.depend = function depend () {
    var this$1 = this;

  var i = this.deps.length;
  while (i--) {
    this$1.deps[i].depend();
  }
};

/**
 * Remove self from all dependencies' subscriber list.
 */
Watcher$1.prototype.teardown = function teardown () {
    var this$1 = this;

  if (this.active) {
    // remove self from vm's watcher list
    // this is a somewhat expensive operation so we skip it
    // if the vm is being destroyed.
    if (!this.vm._isBeingDestroyed) {
      remove$3(this.vm._watchers, this);
    }
    var i = this.deps.length;
    while (i--) {
      this$1.deps[i].removeSub(this$1);
    }
    this.active = false;
  }
};

/*  */

var sharedPropertyDefinition$1 = {
  enumerable: true,
  configurable: true,
  get: noop$2,
  set: noop$2
};

function proxy$1 (target, sourceKey, key) {
  sharedPropertyDefinition$1.get = function proxyGetter () {
    return this[sourceKey][key]
  };
  sharedPropertyDefinition$1.set = function proxySetter (val) {
```

```
    this[sourceKey][key] = val;
  };
  Object.defineProperty(target, key, sharedPropertyDefinition$1);
}

function initState$1 (vm) {
  vm._watchers = [];
  var opts = vm.$options;
  if (opts.props) { initProps$2(vm, opts.props); }
  if (opts.methods) { initMethods$1(vm, opts.methods); }
  if (opts.data) {
    initData$1(vm);
  } else {
    observe$1(vm._data = {}, true /* asRootData */);
  }
  if (opts.computed) { initComputed$2(vm, opts.computed); }
  if (opts.watch && opts.watch !== nativeWatch$1) {
    initWatch$1(vm, opts.watch);
  }
}

function initProps$2 (vm, propsOptions) {
  var propsData = vm.$options.propsData || {};
  var props = vm._props = {};
  // cache prop keys so that future props updates can iterate using Array
  // instead of dynamic object key enumeration.
  var keys = vm.$options._propKeys = [];
  var isRoot = !vm.$parent;
  // root instance props should be converted
  observerState$1.shouldConvert = isRoot;
  var loop = function ( key ) {
    keys.push(key);
    var value = validateProp$1(key, propsOptions, propsData, vm);
    /* istanbul ignore else */
    if (process.env.NODE_ENV !== 'production') {
      var hyphenatedKey = hyphenate$1(key);
      if (isReservedAttribute$1(hyphenatedKey) ||
          config$2.isReservedAttr(hyphenatedKey)) {
        warn$1(
          ("\"" + hyphenatedKey + "\" is a reserved attribute and cannot be used as component
            prop."),
          vm
        );
      }
      defineReactive$1(props, key, value, function () {
        if (vm.$parent && !isUpdatingChildComponent$1) {
```

```
          warn$1(
            "Avoid mutating a prop directly since the value will be " +
            "overwritten whenever the parent component re-renders. " +
            "Instead, use a data or computed property based on the prop's " +
            "value. Prop being mutated: \"" + key + "\"",
            vm
          );
        }
      });
    } else {
      defineReactive$1(props, key, value);
    }
    // static props are already proxied on the component's prototype
    // during Vue.extend(). We only need to proxy props defined at
    // instantiation here.
    if (!(key in vm)) {
      proxy$1(vm, "_props", key);
    }
  };

  for (var key in propsOptions) { loop( key ); }
  observerState$1.shouldConvert = true;
}

function initData$1 (vm) {
  var data = vm.$options.data;
  data = vm._data = typeof data === 'function'
    ? getData$1(data, vm)
    : data || {};
  if (!isPlainObject$1(data)) {
    data = {};
    process.env.NODE_ENV !== 'production' && warn$1(
      'data functions should return an object:\n' +
      'https://vuejs.org/v2/guide/components.html#data-Must-Be-a-Function',
      vm
    );
  }
  // proxy data on instance
  var keys = Object.keys(data);
  var props = vm.$options.props;
  var methods = vm.$options.methods;
  var i = keys.length;
  while (i--) {
    var key = keys[i];
    if (process.env.NODE_ENV !== 'production') {
      if (methods && hasOwn$1(methods, key)) {
```

```
        warn$1(
          ("Method \"" + key + "\" has already been defined as a data property."),
          vm
        );
      }
    }
    if (props && hasOwn$1(props, key)) {
      process.env.NODE_ENV !== 'production' && warn$1(
        "The data property \"" + key + "\" is already declared as a prop. " +
        "Use prop default value instead.",
        vm
      );
    } else if (!isReserved$1(key)) {
      proxy$1(vm, "_data", key);
    }
  }
  // observe data
  observe$1(data, true /* asRootData */);
}

function getData$1 (data, vm) {
  try {
    return data.call(vm, vm)
  } catch (e) {
    handleError$1(e, vm, "data()");
    return {}
  }
}

var computedWatcherOptions$1 = { lazy: true };

function initComputed$2 (vm, computed) {
  // $flow-disable-line
  var watchers = vm._computedWatchers = Object.create(null);
  // computed properties are just getters during SSR
  var isSSR = isServerRendering$1();

  for (var key in computed) {
    var userDef = computed[key];
    var getter = typeof userDef === 'function' ? userDef : userDef.get;
    if (process.env.NODE_ENV !== 'production' && getter == null) {
      warn$1(
        ("Getter is missing for computed property \"" + key + "\"."),
        vm
      );
    }
```

```
    if (!isSSR) {
      // create internal watcher for the computed property.
      watchers[key] = new Watcher$1(
        vm,
        getter || noop$2,
        noop$2,
        computedWatcherOptions$1
      );
    }

    // component-defined computed properties are already defined on the
    // component prototype. We only need to define computed properties defined
    // at instantiation here.
    if (!(key in vm)) {
      defineComputed$1(vm, key, userDef);
    } else if (process.env.NODE_ENV !== 'production') {
      if (key in vm.$data) {
        warn$1(("The computed property \"" + key + "\" is already defined in data."), vm);
      } else if (vm.$options.props && key in vm.$options.props) {
        warn$1(("The computed property \"" + key + "\" is already defined as a prop."), vm);
      }
    }
  }
}

function defineComputed$1 (
  target,
  key,
  userDef
) {
  var shouldCache = !isServerRendering$1();
  if (typeof userDef === 'function') {
    sharedPropertyDefinition$1.get = shouldCache
      ? createComputedGetter$1(key)
      : userDef;
    sharedPropertyDefinition$1.set = noop$2;
  } else {
    sharedPropertyDefinition$1.get = userDef.get
      ? shouldCache && userDef.cache !== false
        ? createComputedGetter$1(key)
        : userDef.get
      : noop$2;
    sharedPropertyDefinition$1.set = userDef.set
      ? userDef.set
      : noop$2;
```

```
  }
  if (process.env.NODE_ENV !== 'production' &&
      sharedPropertyDefinition$1.set === noop$2) {
    sharedPropertyDefinition$1.set = function () {
      warn$1(
        ("Computed property \"" + key + "\" was assigned to but it has no setter."),
        this
      );
    };
  }
  Object.defineProperty(target, key, sharedPropertyDefinition$1);
}

function createComputedGetter$1 (key) {
  return function computedGetter () {
    var watcher = this._computedWatchers && this._computedWatchers[key];
    if (watcher) {
      if (watcher.dirty) {
        watcher.evaluate();
      }
      if (Dep$1.target) {
        watcher.depend();
      }
      return watcher.value
    }
  }
}

function initMethods$1 (vm, methods) {
  var props = vm.$options.props;
  for (var key in methods) {
    if (process.env.NODE_ENV !== 'production') {
      if (methods[key] == null) {
        warn$1(
          "Method \"" + key + "\" has an undefined value in the component definition. " +
          "Did you reference the function correctly?",
          vm
        );
      }
      if (props && hasOwn$1(props, key)) {
        warn$1(
          ("Method \"" + key + "\" has already been defined as a prop."),
          vm
        );
      }
      if ((key in vm) && isReserved$1(key)) {
```

```
      warn$1(
        "Method \"" + key + "\" conflicts with an existing Vue instance method. " +
        "Avoid defining component methods that start with _ or $."
      );
    }
   }
   vm[key] = methods[key] == null ? noop$2 : bind$1(methods[key], vm);
  }
}

function initWatch$1 (vm, watch) {
  for (var key in watch) {
   var handler = watch[key];
   if (Array.isArray(handler)) {
     for (var i = 0; i < handler.length; i++) {
       createWatcher$1(vm, key, handler[i]);
     }
   } else {
     createWatcher$1(vm, key, handler);
   }
  }
}

function createWatcher$1 (
  vm,
  keyOrFn,
  handler,
  options
) {
  if (isPlainObject$1(handler)) {
   options = handler;
   handler = handler.handler;
  }
  if (typeof handler === 'string') {
   handler = vm[handler];
  }
  return vm.$watch(keyOrFn, handler, options)
}

function stateMixin$1 (Vue) {
  // flow somehow has problems with directly declared definition object
  // when using Object.defineProperty, so we have to procedurally build up
  // the object here.
  var dataDef = {};
  dataDef.get = function () { return this._data };
  var propsDef = {};
```

```
  propsDef.get = function () { return this._props };
  if (process.env.NODE_ENV !== 'production') {
    dataDef.set = function (newData) {
      warn$1(
        'Avoid replacing instance root $data. ' +
        'Use nested data properties instead.',
        this
      );
    };
    propsDef.set = function () {
      warn$1("$props is readonly.", this);
    };
  }
  Object.defineProperty(Vue.prototype, '$data', dataDef);
  Object.defineProperty(Vue.prototype, '$props', propsDef);

  Vue.prototype.$set = set$1;
  Vue.prototype.$delete = del$1;

  Vue.prototype.$watch = function (
    expOrFn,
    cb,
    options
  ) {
    var vm = this;
    if (isPlainObject$1(cb)) {
      return createWatcher$1(vm, expOrFn, cb, options)
    }
    options = options || {};
    options.user = true;
    var watcher = new Watcher$1(vm, expOrFn, cb, options);
    if (options.immediate) {
      cb.call(vm, watcher.value);
    }
    return function unwatchFn () {
      watcher.teardown();
    }
  };
}

/*  */

function initProvide$1 (vm) {
  var provide = vm.$options.provide;
  if (provide) {
    vm._provided = typeof provide === 'function'
```

```
    ? provide.call(vm)
    : provide;
  }
}

function initInjections$1 (vm) {
  var result = resolveInject$1(vm.$options.inject, vm);
  if (result) {
    observerState$1.shouldConvert = false;
    Object.keys(result).forEach(function (key) {
      /* istanbul ignore else */
      if (process.env.NODE_ENV !== 'production') {
        defineReactive$1(vm, key, result[key], function () {
          warn$1(
            "Avoid mutating an injected value directly since the changes will be " +
            "overwritten whenever the provided component re-renders. " +
            "injection being mutated: \"" + key + "\"",
            vm
          );
        });
      } else {
        defineReactive$1(vm, key, result[key]);
      }
    });
    observerState$1.shouldConvert = true;
  }
}

function resolveInject$1 (inject, vm) {
  if (inject) {
    // inject is :any because flow is not smart enough to figure out cached
    var result = Object.create(null);
    var keys = hasSymbol$1
      ? Reflect.ownKeys(inject).filter(function (key) {
        /* istanbul ignore next */
        return Object.getOwnPropertyDescriptor(inject, key).enumerable
      })
      : Object.keys(inject);

    for (var i = 0; i < keys.length; i++) {
      var key = keys[i];
      var provideKey = inject[key].from;
      var source = vm;
      while (source) {
        if (source._provided && provideKey in source._provided) {
          result[key] = source._provided[provideKey];
```

```
          break
        }
        source = source.$parent;
      }
      if (!source) {
        if ('default' in inject[key]) {
          var provideDefault = inject[key].default;
          result[key] = typeof provideDefault === 'function'
            ? provideDefault.call(vm)
            : provideDefault;
        } else if (process.env.NODE_ENV !== 'production') {
          warn$1(("Injection \"" + key + "\" not found"), vm);
        }
      }
    }
    return result
  }
}

/*  */

/**
 * Runtime helper for rendering v-for lists.
 */
function renderList$1 (
  val,
  render
) {
  var ret, i, l, keys, key;
  if (Array.isArray(val) || typeof val === 'string') {
    ret = new Array(val.length);
    for (i = 0, l = val.length; i < l; i++) {
      ret[i] = render(val[i], i);
    }
  } else if (typeof val === 'number') {
    ret = new Array(val);
    for (i = 0; i < val; i++) {
      ret[i] = render(i + 1, i);
    }
  } else if (isObject$1(val)) {
    keys = Object.keys(val);
    ret = new Array(keys.length);
    for (i = 0, l = keys.length; i < l; i++) {
      key = keys[i];
      ret[i] = render(val[key], key, i);
    }
```

```
  }
  if (isDef$1(ret)) {
    (ret)._isVList = true;
  }
  return ret
}

/*  */

/**
 * Runtime helper for rendering <slot>
 */
function renderSlot$1 (
  name,
  fallback,
  props,
  bindObject
) {
  var scopedSlotFn = this.$scopedSlots[name];
  var nodes;
  if (scopedSlotFn) { // scoped slot
    props = props || {};
    if (bindObject) {
      if (process.env.NODE_ENV !== 'production' && !isObject$1(bindObject)) {
        warn$1(
          'slot v-bind without argument expects an Object',
          this
        );
      }
      props = extend$1(extend$1({}, bindObject), props);
    }
    nodes = scopedSlotFn(props) || fallback;
  } else {
    var slotNodes = this.$slots[name];
    // warn duplicate slot usage
    if (slotNodes) {
      if (process.env.NODE_ENV !== 'production' && slotNodes._rendered) {
        warn$1(
          "Duplicate presence of slot \"" + name + "\" found in the same render tree " +
          "- this will likely cause render errors.",
          this
        );
      }
      slotNodes._rendered = true;
    }
    nodes = slotNodes || fallback;
```

```
  }

  var target = props && props.slot;
  if (target) {
    return this.$createElement('template', { slot: target }, nodes)
  } else {
    return nodes
  }
}

/*  */

/**
 * Runtime helper for resolving filters
 */
function resolveFilter$1 (id) {
  return resolveAsset$1(this.$options, 'filters', id, true) || identity$1
}

/*  */

/**
 * Runtime helper for checking keyCodes from config.
 * exposed as Vue.prototype._k
 * passing in eventKeyName as last argument separately for backwards compat
 */
function checkKeyCodes$1 (
  eventKeyCode,
  key,
  builtInAlias,
  eventKeyName
) {
  var keyCodes = config$2.keyCodes[key] || builtInAlias;
  if (keyCodes) {
    if (Array.isArray(keyCodes)) {
      return keyCodes.indexOf(eventKeyCode) === -1
    } else {
      return keyCodes !== eventKeyCode
    }
  } else if (eventKeyName) {
    return hyphenate$1(eventKeyName) !== key
  }
}

/*  */
```

```
/**
 * Runtime helper for merging v-bind="object" into a VNode's data.
 */
function bindObjectProps$1 (
  data,
  tag,
  value,
  asProp,
  isSync
) {
  if (value) {
    if (!isObject$1(value)) {
      process.env.NODE_ENV !== 'production' && warn$1(
        'v-bind without argument expects an Object or Array value',
        this
      );
    } else {
      if (Array.isArray(value)) {
        value = toObject$1(value);
      }
      var hash;
      var loop = function ( key ) {
        if (
          key === 'class' ||
          key === 'style' ||
          isReservedAttribute$1(key)
        ) {
          hash = data;
        } else {
          var type = data.attrs && data.attrs.type;
          hash = asProp || config$2.mustUseProp(tag, type, key)
            ? data.domProps || (data.domProps = {})
            : data.attrs || (data.attrs = {});
        }
        if (!(key in hash)) {
          hash[key] = value[key];

          if (isSync) {
            var on$$1 = data.on || (data.on = {});
            on$$1[("update:" + key)] = function ($event) {
              value[key] = $event;
            };
          }
        }
      };
```

```
      for (var key in value) { loop( key ); }
    }
  }
  return data
}

/*  */

/**
 * Runtime helper for rendering static trees.
 */
function renderStatic$1 (
  index,
  isInFor
) {
  var cached = this._staticTrees || (this._staticTrees = []);
  var tree = cached[index];
  // if has already-rendered static tree and not inside v-for,
  // we can reuse the same tree by doing a shallow clone.
  if (tree && !isInFor) {
    return Array.isArray(tree)
      ? cloneVNodes$1(tree)
      : cloneVNode$1(tree)
  }
  // otherwise, render a fresh tree.
  tree = cached[index] = this.$options.staticRenderFns[index].call(
    this._renderProxy,
    null,
    this // for render fns generated for functional component templates
  );
  markStatic$1(tree, ("__static__" + index), false);
  return tree
}

/**
 * Runtime helper for v-once.
 * Effectively it means marking the node as static with a unique key.
 */
function markOnce$1 (
  tree,
  index,
  key
) {
  markStatic$1(tree, ("__once__" + index + (key ? ("_" + key) : "")), true);
  return tree
}
```

```
function markStatic$1 (
  tree,
  key,
  isOnce
) {
  if (Array.isArray(tree)) {
    for (var i = 0; i < tree.length; i++) {
      if (tree[i] && typeof tree[i] !== 'string') {
        markStaticNode$1(tree[i], (key + "_" + i), isOnce);
      }
    }
  } else {
    markStaticNode$1(tree, key, isOnce);
  }
}

function markStaticNode$1 (node, key, isOnce) {
  node.isStatic = true;
  node.key = key;
  node.isOnce = isOnce;
}

/*  */

function bindObjectListeners$1 (data, value) {
  if (value) {
    if (!isPlainObject$1(value)) {
      process.env.NODE_ENV !== 'production' && warn$1(
        'v-on without argument expects an Object value',
        this
      );
    } else {
      var on$$1 = data.on = data.on ? extend$1({}, data.on) : {};
      for (var key in value) {
        var existing = on$$1[key];
        var ours = value[key];
        on$$1[key] = existing ? [].concat(existing, ours) : ours;
      }
    }
  }
  return data
}

/*  */
```

```
function installRenderHelpers$1 (target) {
  target._o = markOnce$1;
  target._n = toNumber$1;
  target._s = toString$2;
  target._l = renderList$1;
  target._t = renderSlot$1;
  target._q = looseEqual$1;
  target._i = looseIndexOf$1;
  target._m = renderStatic$1;
  target._f = resolveFilter$1;
  target._k = checkKeyCodes$1;
  target._b = bindObjectProps$1;
  target._v = createTextVNode$1;
  target._e = createEmptyVNode$1;
  target._u = resolveScopedSlots$1;
  target._g = bindObjectListeners$1;
}

/*  */

function FunctionalRenderContext$1 (
  data,
  props,
  children,
  parent,
  Ctor
) {
  var options = Ctor.options;
  this.data = data;
  this.props = props;
  this.children = children;
  this.parent = parent;
  this.listeners = data.on || emptyObject$1;
  this.injections = resolveInject$1(options.inject, parent);
  this.slots = function () { return resolveSlots$1(children, parent); };

  // ensure the createElement function in functional components
  // gets a unique context - this is necessary for correct named slot check
  var contextVm = Object.create(parent);
  var isCompiled = isTrue$1(options._compiled);
  var needNormalization = !isCompiled;

  // support for compiled functional template
  if (isCompiled) {
    // exposing $options for renderStatic()
    this.$options = options;
```

```
    // pre-resolve slots for renderSlot()
    this.$slots = this.slots();
    this.$scopedSlots = data.scopedSlots || emptyObject$1;
  }

  if (options._scopeId) {
    this._c = function (a, b, c, d) {
      var vnode = createElement$2(contextVm, a, b, c, d, needNormalization);
      if (vnode) {
        vnode.fnScopeId = options._scopeId;
        vnode.fnContext = parent;
      }
      return vnode
    };
  } else {
    this._c = function (a, b, c, d) { return createElement$2(contextVm, a, b, c, d,
          needNormalization); };
  }
}

installRenderHelpers$1(FunctionalRenderContext$1.prototype);

function createFunctionalComponent$1 (
  Ctor,
  propsData,
  data,
  contextVm,
  children
) {
  var options = Ctor.options;
  var props = {};
  var propOptions = options.props;
  if (isDef$1(propOptions)) {
    for (var key in propOptions) {
      props[key] = validateProp$1(key, propOptions, propsData || emptyObject$1);
    }
  } else {
    if (isDef$1(data.attrs)) { mergeProps$1(props, data.attrs); }
    if (isDef$1(data.props)) { mergeProps$1(props, data.props); }
  }

  var renderContext = new FunctionalRenderContext$1(
    data,
    props,
    children,
    contextVm,
```

```
    Ctor
  );

  var vnode = options.render.call(null, renderContext._c, renderContext);

  if (vnode instanceof VNode$1) {
    vnode.fnContext = contextVm;
    vnode.fnOptions = options;
    if (data.slot) {
      (vnode.data || (vnode.data = {})).slot = data.slot;
    }
  }

  return vnode
}

function mergeProps$1 (to, from) {
  for (var key in from) {
    to[camelize$1(key)] = from[key];
  }
}

/*  */




// Register the component hook to weex native render engine.
// The hook will be triggered by native, not javascript.


// Updates the state of the component to weex native render engine.

/*  */

// https://github.com/Hanks10100/weex-native-directive/tree/master/component

// listening on native callback

/*  */

/*  */

// hooks to be invoked on component VNodes during patch
var componentVNodeHooks$1 = {
  init: function init (
```

```
  vnode,
  hydrating,
  parentElm,
  refElm
) {
  if (!vnode.componentInstance || vnode.componentInstance._isDestroyed) {
    var child = vnode.componentInstance = createComponentInstanceForVnode$1(
      vnode,
      activeInstance$1,
      parentElm,
      refElm
    );
    child.$mount(hydrating ? vnode.elm : undefined, hydrating);
  } else if (vnode.data.keepAlive) {
    // kept-alive components, treat as a patch
    var mountedNode = vnode; // work around flow
    componentVNodeHooks$1.prepatch(mountedNode, mountedNode);
  }
},

prepatch: function prepatch (oldVnode, vnode) {
  var options = vnode.componentOptions;
  var child = vnode.componentInstance = oldVnode.componentInstance;
  updateChildComponent$1(
    child,
    options.propsData, // updated props
    options.listeners, // updated listeners
    vnode, // new parent vnode
    options.children // new children
  );
},

insert: function insert (vnode) {
  var context = vnode.context;
  var componentInstance = vnode.componentInstance;
  if (!componentInstance._isMounted) {
    componentInstance._isMounted = true;
    callHook$2(componentInstance, 'mounted');
  }
  if (vnode.data.keepAlive) {
    if (context._isMounted) {
      // vue-router#1212
      // During updates, a kept-alive component's child components may
      // change, so directly walking the tree here may call activated hooks
      // on incorrect children. Instead we push them into a queue which will
      // be processed after the whole patch process ended.
```

```
      queueActivatedComponent$1(componentInstance);
    } else {
      activateChildComponent$1(componentInstance, true /* direct */);
    }
  }
 },

 destroy: function destroy (vnode) {
  var componentInstance = vnode.componentInstance;
  if (!componentInstance._isDestroyed) {
   if (!vnode.data.keepAlive) {
    componentInstance.$destroy();
   } else {
    deactivateChildComponent$1(componentInstance, true /* direct */);
   }
  }
 }
};

var hooksToMerge$1 = Object.keys(componentVNodeHooks$1);

function createComponent$1 (
 Ctor,
 data,
 context,
 children,
 tag
) {
 if (isUndef$1(Ctor)) {
  return
 }

 var baseCtor = context.$options._base;

 // plain options object: turn it into a constructor
 if (isObject$1(Ctor)) {
  Ctor = baseCtor.extend(Ctor);
 }

 // if at this stage it's not a constructor or an async component factory,
 // reject.
 if (typeof Ctor !== 'function') {
  if (process.env.NODE_ENV !== 'production') {
   warn$1(("Invalid Component definition: " + (String(Ctor))), context);
  }
  return
```

```
}

// async component
var asyncFactory;
if (isUndef$1(Ctor.cid)) {
  asyncFactory = Ctor;
  Ctor = resolveAsyncComponent$1(asyncFactory, baseCtor, context);
  if (Ctor === undefined) {
    // return a placeholder node for async component, which is rendered
    // as a comment node but preserves all the raw information for the node.
    // the information will be used for async server-rendering and hydration.
    return createAsyncPlaceholder$1(
      asyncFactory,
      data,
      context,
      children,
      tag
    )
  }
}

data = data || {};

// resolve constructor options in case global mixins are applied after
// component constructor creation
resolveConstructorOptions$1(Ctor);

// transform component v-model data into props & events
if (isDef$1(data.model)) {
  transformModel$1(Ctor.options, data);
}

// extract props
var propsData = extractPropsFromVNodeData$1(data, Ctor, tag);

// functional component
if (isTrue$1(Ctor.options.functional)) {
  return createFunctionalComponent$1(Ctor, propsData, data, context, children)
}

// extract listeners, since these needs to be treated as
// child component listeners instead of DOM listeners
var listeners = data.on;
// replace with listeners with .native modifier
// so it gets processed during parent component patch.
data.on = data.nativeOn;
```

```
  if (isTrue$1(Ctor.options.abstract)) {
    // abstract components do not keep anything
    // other than props & listeners & slot

    // work around flow
    var slot = data.slot;
    data = {};
    if (slot) {
      data.slot = slot;
    }
  }

  // merge component management hooks onto the placeholder node
  mergeHooks$1(data);

  // return a placeholder vnode
  var name = Ctor.options.name || tag;
  var vnode = new VNode$1(
    ("vue-component-" + (Ctor.cid) + (name ? ("-" + name) : '')),
    data, undefined, undefined, undefined, context,
    { Ctor: Ctor, propsData: propsData, listeners: listeners, tag: tag, children: children },
    asyncFactory
  );

  // Weex specific: invoke recycle-list optimized @render function for
  // extracting cell-slot template.
  // https://github.com/Hanks10100/weex-native-directive/tree/master/component
  /* istanbul ignore if */
  return vnode
}

function createComponentInstanceForVnode$1 (
  vnode, // we know it's MountedComponentVNode but flow doesn't
  parent, // activeInstance in lifecycle state
  parentElm,
  refElm
) {
  var options = {
    _isComponent: true,
    parent: parent,
    _parentVnode: vnode,
    _parentElm: parentElm || null,
    _refElm: refElm || null
  };
  // check inline-template render functions
```

```
  var inlineTemplate = vnode.data.inlineTemplate;
  if (isDef$1(inlineTemplate)) {
    options.render = inlineTemplate.render;
    options.staticRenderFns = inlineTemplate.staticRenderFns;
  }
  return new vnode.componentOptions.Ctor(options)
}

function mergeHooks$1 (data) {
  if (!data.hook) {
    data.hook = {};
  }
  for (var i = 0; i < hooksToMerge$1.length; i++) {
    var key = hooksToMerge$1[i];
    var fromParent = data.hook[key];
    var ours = componentVNodeHooks$1[key];
    data.hook[key] = fromParent ? mergeHook$1$1(ours, fromParent) : ours;
  }
}

function mergeHook$1$1 (one, two) {
  return function (a, b, c, d) {
    one(a, b, c, d);
    two(a, b, c, d);
  }
}

// transform component v-model info (value and callback) into
// prop and event handler respectively.
function transformModel$1 (options, data) {
  var prop = (options.model && options.model.prop) || 'value';
  var event = (options.model && options.model.event) || 'input';(data.props || (data.props =
          {}))[prop] = data.model.value;
  var on$$1 = data.on || (data.on = {});
  if (isDef$1(on$$1[event])) {
    on$$1[event] = [data.model.callback].concat(on$$1[event]);
  } else {
    on$$1[event] = data.model.callback;
  }
}

/*  */

var SIMPLE_NORMALIZE$1 = 1;
var ALWAYS_NORMALIZE$1 = 2;
```

```
// wrapper function for providing a more flexible interface
// without getting yelled at by flow
function createElement$2 (
  context,
  tag,
  data,
  children,
  normalizationType,
  alwaysNormalize
) {
  if (Array.isArray(data) || isPrimitive$1(data)) {
    normalizationType = children;
    children = data;
    data = undefined;
  }
  if (isTrue$1(alwaysNormalize)) {
    normalizationType = ALWAYS_NORMALIZE$1;
  }
  return _createElement$1(context, tag, data, children, normalizationType)
}

function _createElement$1 (
  context,
  tag,
  data,
  children,
  normalizationType
) {
  if (isDef$1(data) && isDef$1((data).__ob__)) {
    process.env.NODE_ENV !== 'production' && warn$1(
      "Avoid using observed data object as vnode data: " + (JSON.stringify(data)) + "\n" +
      'Always create fresh vnode data objects in each render!',
      context
    );
    return createEmptyVNode$1()
  }
  // object syntax in v-bind
  if (isDef$1(data) && isDef$1(data.is)) {
    tag = data.is;
  }
  if (!tag) {
    // in case of component :is set to falsy value
    return createEmptyVNode$1()
  }
  // warn against non-primitive key
  if (process.env.NODE_ENV !== 'production' &&
```

```
  isDef$1(data) && isDef$1(data.key) && !isPrimitive$1(data.key)
) {
  {
    warn$1(
      'Avoid using non-primitive value as key, ' +
      'use string/number value instead.',
      context
    );
  }
}
// support single function children as default scoped slot
if (Array.isArray(children) &&
  typeof children[0] === 'function'
) {
  data = data || {};
  data.scopedSlots = { default: children[0] };
  children.length = 0;
}
if (normalizationType === ALWAYS_NORMALIZE$1) {
  children = normalizeChildren$1(children);
} else if (normalizationType === SIMPLE_NORMALIZE$1) {
  children = simpleNormalizeChildren$1(children);
}
var vnode, ns;
if (typeof tag === 'string') {
  var Ctor;
  ns = (context.$vnode && context.$vnode.ns) || config$2.getTagNamespace(tag);
  if (config$2.isReservedTag(tag)) {
    // platform built-in elements
    vnode = new VNode$1(
      config$2.parsePlatformTagName(tag), data, children,
      undefined, undefined, context
    );
  } else if (isDef$1(Ctor = resolveAsset$1(context.$options, 'components', tag))) {
    // component
    vnode = createComponent$1(Ctor, data, context, children, tag);
  } else {
    // unknown or unlisted namespaced elements
    // check at runtime because it may get assigned a namespace when its
    // parent normalizes children
    vnode = new VNode$1(
      tag, data, children,
      undefined, undefined, context
    );
  }
} else {
```

```
    // direct component options / constructor
    vnode = createComponent$1(tag, data, context, children);
  }
  if (isDef$1(vnode)) {
    if (ns) { applyNS$1(vnode, ns); }
    return vnode
  } else {
    return createEmptyVNode$1()
  }
}

function applyNS$1 (vnode, ns, force) {
  vnode.ns = ns;
  if (vnode.tag === 'foreignObject') {
    // use default namespace inside foreignObject
    ns = undefined;
    force = true;
  }
  if (isDef$1(vnode.children)) {
    for (var i = 0, l = vnode.children.length; i < l; i++) {
      var child = vnode.children[i];
      if (isDef$1(child.tag) && (isUndef$1(child.ns) || isTrue$1(force))) {
        applyNS$1(child, ns, force);
      }
    }
  }
}

/*  */

function initRender$1 (vm) {
  vm._vnode = null; // the root of the child tree
  vm._staticTrees = null; // v-once cached trees
  var options = vm.$options;
  var parentVnode = vm.$vnode = options._parentVnode; // the placeholder node in parent tree
  var renderContext = parentVnode && parentVnode.context;
  vm.$slots = resolveSlots$1(options._renderChildren, renderContext);
  vm.$scopedSlots = emptyObject$1;
  // bind the createElement fn to this instance
  // so that we get proper render context inside it.
  // args order: tag, data, children, normalizationType, alwaysNormalize
  // internal version is used by render functions compiled from templates
  vm._c = function (a, b, c, d) { return createElement$2(vm, a, b, c, d, false); };
  // normalization is always applied for the public version, used in
  // user-written render functions.
  vm.$createElement = function (a, b, c, d) { return createElement$2(vm, a, b, c, d, true); };
```

```
  // $attrs & $listeners are exposed for easier HOC creation.
  // they need to be reactive so that HOCs using them are always updated
  var parentData = parentVnode && parentVnode.data;

  /* istanbul ignore else */
  if (process.env.NODE_ENV !== 'production') {
    defineReactive$1(vm, '$attrs', parentData && parentData.attrs || emptyObject$1, function () {
      !isUpdatingChildComponent$1 && warn$1("$attrs is readonly.", vm);
    }, true);
    defineReactive$1(vm, '$listeners', options._parentListeners || emptyObject$1, function () {
      !isUpdatingChildComponent$1 && warn$1("$listeners is readonly.", vm);
    }, true);
  } else {
    defineReactive$1(vm, '$attrs', parentData && parentData.attrs || emptyObject$1, null, true);
    defineReactive$1(vm, '$listeners', options._parentListeners || emptyObject$1, null, true);
  }
}

function renderMixin$1 (Vue) {
  // install runtime convenience helpers
  installRenderHelpers$1(Vue.prototype);

  Vue.prototype.$nextTick = function (fn) {
    return nextTick$2(fn, this)
  };

  Vue.prototype._render = function () {
    var vm = this;
    var ref = vm.$options;
    var render = ref.render;
    var _parentVnode = ref._parentVnode;

    if (vm._isMounted) {
      // if the parent didn't update, the slot nodes will be the ones from
      // last render. They need to be cloned to ensure "freshness" for this render.
      for (var key in vm.$slots) {
        var slot = vm.$slots[key];
        // _rendered is a flag added by renderSlot, but may not be present
        // if the slot is passed from manually written render functions
        if (slot._rendered || (slot[0] && slot[0].elm)) {
          vm.$slots[key] = cloneVNodes$1(slot, true /* deep */);
        }
      }
    }
```

```
  vm.$scopedSlots = (_parentVnode && _parentVnode.data.scopedSlots) || emptyObject$1;

  // set parent vnode. this allows render functions to have access
  // to the data on the placeholder node.
  vm.$vnode = _parentVnode;
  // render self
  var vnode;
  try {
    vnode = render.call(vm._renderProxy, vm.$createElement);
  } catch (e) {
    handleError$1(e, vm, "render");
    // return error render result,
    // or previous vnode to prevent render error causing blank component
    /* istanbul ignore else */
    if (process.env.NODE_ENV !== 'production') {
      if (vm.$options.renderError) {
        try {
          vnode = vm.$options.renderError.call(vm._renderProxy, vm.$createElement, e);
        } catch (e) {
          handleError$1(e, vm, "renderError");
          vnode = vm._vnode;
        }
      } else {
        vnode = vm._vnode;
      }
    } else {
      vnode = vm._vnode;
    }
  }
  // return empty vnode in case the render function errored out
  if (!(vnode instanceof VNode$1)) {
    if (process.env.NODE_ENV !== 'production' && Array.isArray(vnode)) {
      warn$1(
        'Multiple root nodes returned from render function. Render function ' +
        'should return a single root node.',
        vm
      );
    }
    vnode = createEmptyVNode$1();
  }
  // set parent
  vnode.parent = _parentVnode;
  return vnode
 };
}
```

```
/*  */

var uid$3 = 0;

function initMixin$2 (Vue) {
  Vue.prototype._init = function (options) {
    var vm = this;
    // a uid
    vm._uid = uid$3++;

    var startTag, endTag;
    /* istanbul ignore if */
    if (process.env.NODE_ENV !== 'production' && config$2.performance && mark$1) {
      startTag = "vue-perf-start:" + (vm._uid);
      endTag = "vue-perf-end:" + (vm._uid);
      mark$1(startTag);
    }

    // a flag to avoid this being observed
    vm._isVue = true;
    // merge options
    if (options && options._isComponent) {
      // optimize internal component instantiation
      // since dynamic options merging is pretty slow, and none of the
      // internal component options needs special treatment.
      initInternalComponent$1(vm, options);
    } else {
      vm.$options = mergeOptions$1(
        resolveConstructorOptions$1(vm.constructor),
        options || {},
        vm
      );
    }
    /* istanbul ignore else */
    if (process.env.NODE_ENV !== 'production') {
      initProxy$1(vm);
    } else {
      vm._renderProxy = vm;
    }
    // expose real self
    vm._self = vm;
    initLifecycle$1(vm);
    initEvents$1(vm);
    initRender$1(vm);
    callHook$2(vm, 'beforeCreate');
    initInjections$1(vm); // resolve injections before data/props
```

```
    initState$1(vm);
    initProvide$1(vm); // resolve provide after data/props
    callHook$2(vm, 'created');

    /* istanbul ignore if */
    if (process.env.NODE_ENV !== 'production' && config$2.performance && mark$1) {
      vm._name = formatComponentName$1(vm, false);
      mark$1(endTag);
      measure$1(("vue " + (vm._name) + " init"), startTag, endTag);
    }

    if (vm.$options.el) {
      vm.$mount(vm.$options.el);
    }
  };
}

function initInternalComponent$1 (vm, options) {
  var opts = vm.$options = Object.create(vm.constructor.options);
  // doing this because it's faster than dynamic enumeration.
  var parentVnode = options._parentVnode;
  opts.parent = options.parent;
  opts._parentVnode = parentVnode;
  opts._parentElm = options._parentElm;
  opts._refElm = options._refElm;

  var vnodeComponentOptions = parentVnode.componentOptions;
  opts.propsData = vnodeComponentOptions.propsData;
  opts._parentListeners = vnodeComponentOptions.listeners;
  opts._renderChildren = vnodeComponentOptions.children;
  opts._componentTag = vnodeComponentOptions.tag;

  if (options.render) {
    opts.render = options.render;
    opts.staticRenderFns = options.staticRenderFns;
  }
}

function resolveConstructorOptions$1 (Ctor) {
  var options = Ctor.options;
  if (Ctor.super) {
    var superOptions = resolveConstructorOptions$1(Ctor.super);
    var cachedSuperOptions = Ctor.superOptions;
    if (superOptions !== cachedSuperOptions) {
      // super option changed,
      // need to resolve new options.
```

```
      Ctor.superOptions = superOptions;
      // check if there are any late-modified/attached options (#4976)
      var modifiedOptions = resolveModifiedOptions$1(Ctor);
      // update base extend options
      if (modifiedOptions) {
        extend$1(Ctor.extendOptions, modifiedOptions);
      }
      options = Ctor.options = mergeOptions$1(superOptions, Ctor.extendOptions);
      if (options.name) {
        options.components[options.name] = Ctor;
      }
    }
  }
  return options
}

function resolveModifiedOptions$1 (Ctor) {
  var modified;
  var latest = Ctor.options;
  var extended = Ctor.extendOptions;
  var sealed = Ctor.sealedOptions;
  for (var key in latest) {
    if (latest[key] !== sealed[key]) {
      if (!modified) { modified = {}; }
      modified[key] = dedupe$1(latest[key], extended[key], sealed[key]);
    }
  }
  return modified
}

function dedupe$1 (latest, extended, sealed) {
  // compare latest and sealed to ensure lifecycle hooks won't be duplicated
  // between merges
  if (Array.isArray(latest)) {
    var res = [];
    sealed = Array.isArray(sealed) ? sealed : [sealed];
    extended = Array.isArray(extended) ? extended : [extended];
    for (var i = 0; i < latest.length; i++) {
      // push original options and not sealed options to exclude duplicated options
      if (extended.indexOf(latest[i]) >= 0 || sealed.indexOf(latest[i]) < 0) {
        res.push(latest[i]);
      }
    }
    return res
  } else {
    return latest
```

```
  }
}

function Vue$3$1 (options) {
  if (process.env.NODE_ENV !== 'production' &&
    !(this instanceof Vue$3$1)
  ) {
    warn$1('Vue is a constructor and should be called with the `new` keyword');
  }
  this._init(options);
}

initMixin$2(Vue$3$1);
stateMixin$1(Vue$3$1);
eventsMixin$1(Vue$3$1);
lifecycleMixin$1(Vue$3$1);
renderMixin$1(Vue$3$1);

/*  */

function initUse$1 (Vue) {
  Vue.use = function (plugin) {
    var installedPlugins = (this._installedPlugins || (this._installedPlugins = []));
    if (installedPlugins.indexOf(plugin) > -1) {
      return this
    }

    // additional parameters
    var args = toArray$1(arguments, 1);
    args.unshift(this);
    if (typeof plugin.install === 'function') {
      plugin.install.apply(plugin, args);
    } else if (typeof plugin === 'function') {
      plugin.apply(null, args);
    }
    installedPlugins.push(plugin);
    return this
  };
}

/*  */

function initMixin$1$1 (Vue) {
  Vue.mixin = function (mixin) {
    this.options = mergeOptions$1(this.options, mixin);
    return this
```

```
  };
}

/*  */

function initExtend$1 (Vue) {
  /**
   * Each instance constructor, including Vue, has a unique
   * cid. This enables us to create wrapped "child
   * constructors" for prototypal inheritance and cache them.
   */
  Vue.cid = 0;
  var cid = 1;

  /**
   * Class inheritance
   */
  Vue.extend = function (extendOptions) {
    extendOptions = extendOptions || {};
    var Super = this;
    var SuperId = Super.cid;
    var cachedCtors = extendOptions._Ctor || (extendOptions._Ctor = {});
    if (cachedCtors[SuperId]) {
      return cachedCtors[SuperId]
    }

    var name = extendOptions.name || Super.options.name;
    if (process.env.NODE_ENV !== 'production' && name) {
      validateComponentName$1(name);
    }

    var Sub = function VueComponent (options) {
      this._init(options);
    };
    Sub.prototype = Object.create(Super.prototype);
    Sub.prototype.constructor = Sub;
    Sub.cid = cid++;
    Sub.options = mergeOptions$1(
      Super.options,
      extendOptions
    );
    Sub['super'] = Super;

    // For props and computed properties, we define the proxy getters on
    // the Vue instances at extension time, on the extended prototype. This
    // avoids Object.defineProperty calls for each instance created.
```

```
    if (Sub.options.props) {
      initProps$1$1(Sub);
    }
    if (Sub.options.computed) {
      initComputed$1$1(Sub);
    }

    // allow further extension/mixin/plugin usage
    Sub.extend = Super.extend;
    Sub.mixin = Super.mixin;
    Sub.use = Super.use;

    // create asset registers, so extended classes
    // can have their private assets too.
    ASSET_TYPES$1.forEach(function (type) {
      Sub[type] = Super[type];
    });
    // enable recursive self-lookup
    if (name) {
      Sub.options.components[name] = Sub;
    }

    // keep a reference to the super options at extension time.
    // later at instantiation we can check if Super's options have
    // been updated.
    Sub.superOptions = Super.options;
    Sub.extendOptions = extendOptions;
    Sub.sealedOptions = extend$1({}, Sub.options);

    // cache constructor
    cachedCtors[SuperId] = Sub;
    return Sub
  };
}

function initProps$1$1 (Comp) {
  var props = Comp.options.props;
  for (var key in props) {
    proxy$1(Comp.prototype, "_props", key);
  }
}

function initComputed$1$1 (Comp) {
  var computed = Comp.options.computed;
  for (var key in computed) {
    defineComputed$1(Comp.prototype, key, computed[key]);
```

```
  }
}

/*  */

function initAssetRegisters$1 (Vue) {
  /**
   * Create asset registration methods.
   */
  ASSET_TYPES$1.forEach(function (type) {
    Vue[type] = function (
      id,
      definition
    ) {
      if (!definition) {
        return this.options[type + 's'][id]
      } else {
        /* istanbul ignore if */
        if (process.env.NODE_ENV !== 'production' && type === 'component') {
          validateComponentName$1(id);
        }
        if (type === 'component' && isPlainObject$1(definition)) {
          definition.name = definition.name || id;
          definition = this.options._base.extend(definition);
        }
        if (type === 'directive' && typeof definition === 'function') {
          definition = { bind: definition, update: definition };
        }
        this.options[type + 's'][id] = definition;
        return definition
      }
    };
  });
}

/*  */

function getComponentName$1 (opts) {
  return opts && (opts.Ctor.options.name || opts.tag)
}

function matches$1 (pattern, name) {
  if (Array.isArray(pattern)) {
    return pattern.indexOf(name) > -1
  } else if (typeof pattern === 'string') {
    return pattern.split(',').indexOf(name) > -1
```

```
  } else if (isRegExp$1(pattern)) {
    return pattern.test(name)
  }
  /* istanbul ignore next */
  return false
}

function pruneCache$1 (keepAliveInstance, filter) {
  var cache = keepAliveInstance.cache;
  var keys = keepAliveInstance.keys;
  var _vnode = keepAliveInstance._vnode;
  for (var key in cache) {
    var cachedNode = cache[key];
    if (cachedNode) {
      var name = getComponentName$1(cachedNode.componentOptions);
      if (name && !filter(name)) {
        pruneCacheEntry$1(cache, key, keys, _vnode);
      }
    }
  }
}

function pruneCacheEntry$1 (
  cache,
  key,
  keys,
  current
) {
  var cached$$1 = cache[key];
  if (cached$$1 && (!current || cached$$1.tag !== current.tag)) {
    cached$$1.componentInstance.$destroy();
  }
  cache[key] = null;
  remove$3(keys, key);
}

var patternTypes$1 = [String, RegExp, Array];

var KeepAlive$1 = {
  name: 'keep-alive',
  abstract: true,

  props: {
    include: patternTypes$1,
    exclude: patternTypes$1,
    max: [String, Number]
```

```
},

created: function created () {
  this.cache = Object.create(null);
  this.keys = [];
},

destroyed: function destroyed () {
  var this$1 = this;

  for (var key in this$1.cache) {
    pruneCacheEntry$1(this$1.cache, key, this$1.keys);
  }
},

watch: {
  include: function include (val) {
    pruneCache$1(this, function (name) { return matches$1(val, name); });
  },
  exclude: function exclude (val) {
    pruneCache$1(this, function (name) { return !matches$1(val, name); });
  }
},

render: function render () {
  var slot = this.$slots.default;
  var vnode = getFirstComponentChild$1(slot);
  var componentOptions = vnode && vnode.componentOptions;
  if (componentOptions) {
    // check pattern
    var name = getComponentName$1(componentOptions);
    var ref = this;
    var include = ref.include;
    var exclude = ref.exclude;
    if (
      // not included
      (include && (!name || !matches$1(include, name))) ||
      // excluded
      (exclude && name && matches$1(exclude, name))
    ) {
      return vnode
    }

    var ref$1 = this;
    var cache = ref$1.cache;
    var keys = ref$1.keys;
```

```
      var key = vnode.key == null
        // same constructor may get registered as different local components
        // so cid alone is not enough (#3269)
        ? componentOptions.Ctor.cid + (componentOptions.tag ? ("::" + (componentOptions.tag)) :
          '')
        : vnode.key;
      if (cache[key]) {
        vnode.componentInstance = cache[key].componentInstance;
        // make current key freshest
        remove$3(keys, key);
        keys.push(key);
      } else {
        cache[key] = vnode;
        keys.push(key);
        // prune oldest entry
        if (this.max && keys.length > parseInt(this.max)) {
          pruneCacheEntry$1(cache, keys[0], keys, this._vnode);
        }
      }

      vnode.data.keepAlive = true;
    }
    return vnode || (slot && slot[0])
  }
};

var builtInComponents$1 = {
  KeepAlive: KeepAlive$1
};

/*  */

function initGlobalAPI$1 (Vue) {
  // config
  var configDef = {};
  configDef.get = function () { return config$2; };
  if (process.env.NODE_ENV !== 'production') {
    configDef.set = function () {
      warn$1(
        'Do not replace the Vue.config object, set individual fields instead.'
      );
    };
  }
  Object.defineProperty(Vue, 'config', configDef);

  // exposed util methods.
```

```
  // NOTE: these are not considered part of the public API - avoid relying on
  // them unless you are aware of the risk.
  Vue.util = {
    warn: warn$1,
    extend: extend$1,
    mergeOptions: mergeOptions$1,
    defineReactive: defineReactive$1
  };

  Vue.set = set$1;
  Vue.delete = del$1;
  Vue.nextTick = nextTick$2;

  Vue.options = Object.create(null);
  ASSET_TYPES$1.forEach(function (type) {
    Vue.options[type + 's'] = Object.create(null);
  });

  // this is used to identify the "base" constructor to extend all plain-object
  // components with in Weex's multi-instance scenarios.
  Vue.options._base = Vue;

  extend$1(Vue.options.components, builtInComponents$1);

  initUse$1(Vue);
  initMixin$1$1(Vue);
  initExtend$1(Vue);
  initAssetRegisters$1(Vue);
}

initGlobalAPI$1(Vue$3$1);

Object.defineProperty(Vue$3$1.prototype, '$isServer', {
  get: isServerRendering$1
});

Object.defineProperty(Vue$3$1.prototype, '$ssrContext', {
  get: function get () {
    /* istanbul ignore next */
    return this.$vnode && this.$vnode.ssrContext
  }
});

Vue$3$1.version = '2.5.13';

/*  */
```

```
// these are reserved for web because they are directly compiled away
// during template compilation
var isReservedAttr$1 = makeMap$1('style,class');

// attributes that should be using props for binding
var acceptValue$1 = makeMap$1('input,textarea,option,select,progress');
var mustUseProp$1 = function (tag, type, attr) {
  return (
    (attr === 'value' && acceptValue$1(tag)) && type !== 'button' ||
    (attr === 'selected' && tag === 'option') ||
    (attr === 'checked' && tag === 'input') ||
    (attr === 'muted' && tag === 'video')
  )
};

var isEnumeratedAttr$1 = makeMap$1('contenteditable,draggable,spellcheck');

var isBooleanAttr$1 = makeMap$1(
  'allowfullscreen,async,autofocus,autoplay,checked,compact,controls,declare,' +
  'default,defaultchecked,defaultmuted,defaultselected,defer,disabled,' +
  'enabled,formnovalidate,hidden,indeterminate,inert,ismap,itemscope,loop,multiple,' +
  'muted,nohref,noresize,noshade,novalidate,nowrap,open,pauseonexit,readonly,' +
  'required,reversed,scoped,seamless,selected,sortable,translate,' +
  'truespeed,typemustmatch,visible'
);

var xlinkNS$1 = 'http://www.w3.org/1999/xlink';

var isXlink$1 = function (name) {
  return name.charAt(5) === ':' && name.slice(0, 5) === 'xlink'
};

var getXlinkProp$1 = function (name) {
  return isXlink$1(name) ? name.slice(6, name.length) : ''
};

var isFalsyAttrValue$1 = function (val) {
  return val == null || val === false
};

/*  */

function genClassForVnode$1 (vnode) {
  var data = vnode.data;
  var parentNode = vnode;
```

```
  var childNode = vnode;
  while (isDef$1(childNode.componentInstance)) {
    childNode = childNode.componentInstance._vnode;
    if (childNode && childNode.data) {
      data = mergeClassData$1(childNode.data, data);
    }
  }
  while (isDef$1(parentNode = parentNode.parent)) {
    if (parentNode && parentNode.data) {
      data = mergeClassData$1(data, parentNode.data);
    }
  }
  return renderClass$1(data.staticClass, data.class)
}

function mergeClassData$1 (child, parent) {
  return {
    staticClass: concat$1(child.staticClass, parent.staticClass),
    class: isDef$1(child.class)
      ? [child.class, parent.class]
      : parent.class
  }
}

function renderClass$1 (
  staticClass,
  dynamicClass
) {
  if (isDef$1(staticClass) || isDef$1(dynamicClass)) {
    return concat$1(staticClass, stringifyClass$1(dynamicClass))
  }
  /* istanbul ignore next */
  return ''
}

function concat$1 (a, b) {
  return a ? b ? (a + ' ' + b) : a : (b || '')
}

function stringifyClass$1 (value) {
  if (Array.isArray(value)) {
    return stringifyArray$1(value)
  }
  if (isObject$1(value)) {
    return stringifyObject$1(value)
  }
```

```
  if (typeof value === 'string') {
    return value
  }
  /* istanbul ignore next */
  return ''
}

function stringifyArray$1 (value) {
  var res = '';
  var stringified;
  for (var i = 0, l = value.length; i < l; i++) {
    if (isDef$1(stringified = stringifyClass$1(value[i])) && stringified !== '') {
      if (res) { res += ' '; }
      res += stringified;
    }
  }
  return res
}

function stringifyObject$1 (value) {
  var res = '';
  for (var key in value) {
    if (value[key]) {
      if (res) { res += ' '; }
      res += key;
    }
  }
  return res
}

/*  */

var namespaceMap$1 = {
  svg: 'http://www.w3.org/2000/svg',
  math: 'http://www.w3.org/1998/Math/MathML'
};

var isHTMLTag$1 = makeMap$1(
  'html,body,base,head,link,meta,style,title,' +
  'address,article,aside,footer,header,h1,h2,h3,h4,h5,h6,hgroup,nav,section,' +
  'div,dd,dl,dt,figcaption,figure,picture,hr,img,li,main,ol,p,pre,ul,' +
  'a,b,abbr,bdi,bdo,br,cite,code,data,dfn,em,i,kbd,mark,q,rp,rt,rtc,ruby,' +
  's,samp,small,span,strong,sub,sup,time,u,var,wbr,area,audio,map,track,video,' +
  'embed,object,param,source,canvas,script,noscript,del,ins,' +
  'caption,col,colgroup,table,thead,tbody,td,th,tr,' +
  'button,datalist,fieldset,form,input,label,legend,meter,optgroup,option,' +
```

```
  'output,progress,select,textarea,' +
  'details,dialog,menu,menuitem,summary,' +
  'content,element,shadow,template,blockquote,iframe,tfoot'
);

// this map is intentionally selective, only covering SVG elements that may
// contain child elements.
var isSVG$1 = makeMap$1(
  'svg,animate,circle,clippath,cursor,defs,desc,ellipse,filter,font-face,' +
  'foreignObject,g,glyph,image,line,marker,mask,missing-glyph,path,pattern,' +
  'polygon,polyline,rect,switch,symbol,text,textpath,tspan,use,view',
  true
);



var isReservedTag$1 = function (tag) {
  return isHTMLTag$1(tag) || isSVG$1(tag)
};

function getTagNamespace$1 (tag) {
  if (isSVG$1(tag)) {
    return 'svg'
  }
  // basic support for MathML
  // note it doesn't support other MathML elements being component roots
  if (tag === 'math') {
    return 'math'
  }
}

var unknownElementCache$1 = Object.create(null);
function isUnknownElement$1 (tag) {
  /* istanbul ignore if */
  if (!inBrowser$1) {
    return true
  }
  if (isReservedTag$1(tag)) {
    return false
  }
  tag = tag.toLowerCase();
  /* istanbul ignore if */
  if (unknownElementCache$1[tag] != null) {
    return unknownElementCache$1[tag]
  }
  var el = document.createElement(tag);
```

```
  if (tag.indexOf('-') > -1) {
    // http://stackoverflow.com/a/28210364/1070244
    return (unknownElementCache$1[tag] = (
      el.constructor === window.HTMLUnknownElement ||
      el.constructor === window.HTMLElement
    ))
  } else {
    return (unknownElementCache$1[tag] = /HTMLUnknownElement/.test(el.toString()))
  }
}

var isTextInputType$1 = makeMap$1('text,number,password,search,email,tel,url');

/*  */

/**
 * Query an element selector if it's not an element already.
 */
function query$1 (el) {
  if (typeof el === 'string') {
    var selected = document.querySelector(el);
    if (!selected) {
      process.env.NODE_ENV !== 'production' && warn$1(
        'Cannot find element: ' + el
      );
      return document.createElement('div')
    }
    return selected
  } else {
    return el
  }
}

/*  */

function createElement$1$1 (tagName, vnode) {
  var elm = document.createElement(tagName);
  if (tagName !== 'select') {
    return elm
  }
  // false or null will remove the attribute but undefined will not
  if (vnode.data && vnode.data.attrs && vnode.data.attrs.multiple !== undefined) {
    elm.setAttribute('multiple', 'multiple');
  }
  return elm
}
```

```
function createElementNS$1 (namespace, tagName) {
  return document.createElementNS(namespaceMap$1[namespace], tagName)
}

function createTextNode$1 (text) {
  return document.createTextNode(text)
}

function createComment$1 (text) {
  return document.createComment(text)
}

function insertBefore$1 (parentNode, newNode, referenceNode) {
  parentNode.insertBefore(newNode, referenceNode);
}

function removeChild$1 (node, child) {
  node.removeChild(child);
}

function appendChild$1 (node, child) {
  node.appendChild(child);
}

function parentNode$1 (node) {
  return node.parentNode
}

function nextSibling$1 (node) {
  return node.nextSibling
}

function tagName$1 (node) {
  return node.tagName
}

function setTextContent$1 (node, text) {
  node.textContent = text;
}

function setAttribute$1 (node, key, val) {
  node.setAttribute(key, val);
}
```

```
var nodeOps$1 = Object.freeze({
        createElement: createElement$1$1,
        createElementNS: createElementNS$1,
        createTextNode: createTextNode$1,
        createComment: createComment$1,
        insertBefore: insertBefore$1,
        removeChild: removeChild$1,
        appendChild: appendChild$1,
        parentNode: parentNode$1,
        nextSibling: nextSibling$1,
        tagName: tagName$1,
        setTextContent: setTextContent$1,
        setAttribute: setAttribute$1
});

/*  */

var ref$1 = {
  create: function create (_, vnode) {
    registerRef$1(vnode);
  },
  update: function update (oldVnode, vnode) {
    if (oldVnode.data.ref !== vnode.data.ref) {
      registerRef$1(oldVnode, true);
      registerRef$1(vnode);
    }
  },
  destroy: function destroy (vnode) {
    registerRef$1(vnode, true);
  }
};

function registerRef$1 (vnode, isRemoval) {
  var key = vnode.data.ref;
  if (!key) { return }

  var vm = vnode.context;
  var ref = vnode.componentInstance || vnode.elm;
  var refs = vm.$refs;
  if (isRemoval) {
    if (Array.isArray(refs[key])) {
      remove$3(refs[key], ref);
    } else if (refs[key] === ref) {
      refs[key] = undefined;
    }
  } else {
```

```
    if (vnode.data.refInFor) {
      if (!Array.isArray(refs[key])) {
        refs[key] = [ref];
      } else if (refs[key].indexOf(ref) < 0) {
        // $flow-disable-line
        refs[key].push(ref);
      }
    } else {
      refs[key] = ref;
    }
  }
}

/**
 * Virtual DOM patching algorithm based on Snabbdom by
 * Simon Friis Vindum (@paldepind)
 * Licensed under the MIT License
 * https://github.com/paldepind/snabbdom/blob/master/LICENSE
 *
 * modified by Evan You (@yyx990803)
 *
 * Not type-checking this because this file is perf-critical and the cost
 * of making flow understand it is not worth it.
 */

var emptyNode$1 = new VNode$1('', {}, []);

var hooks$1 = ['create', 'activate', 'update', 'remove', 'destroy'];

function sameVnode$1 (a, b) {
  return (
    a.key === b.key && (
      (
        a.tag === b.tag &&
        a.isComment === b.isComment &&
        isDef$1(a.data) === isDef$1(b.data) &&
        sameInputType$1(a, b)
      ) || (
        isTrue$1(a.isAsyncPlaceholder) &&
        a.asyncFactory === b.asyncFactory &&
        isUndef$1(b.asyncFactory.error)
      )
    )
  )
}
```

```
function sameInputType$1 (a, b) {
  if (a.tag !== 'input') { return true }
  var i;
  var typeA = isDef$1(i = a.data) && isDef$1(i = i.attrs) && i.type;
  var typeB = isDef$1(i = b.data) && isDef$1(i = i.attrs) && i.type;
  return typeA === typeB || isTextInputType$1(typeA) && isTextInputType$1(typeB)
}

function createKeyToOldIdx$1 (children, beginIdx, endIdx) {
  var i, key;
  var map = {};
  for (i = beginIdx; i <= endIdx; ++i) {
    key = children[i].key;
    if (isDef$1(key)) { map[key] = i; }
  }
  return map
}

function createPatchFunction$1 (backend) {
  var i, j;
  var cbs = {};

  var modules = backend.modules;
  var nodeOps = backend.nodeOps;

  for (i = 0; i < hooks$1.length; ++i) {
    cbs[hooks$1[i]] = [];
    for (j = 0; j < modules.length; ++j) {
      if (isDef$1(modules[j][hooks$1[i]])) {
        cbs[hooks$1[i]].push(modules[j][hooks$1[i]]);
      }
    }
  }

  function emptyNodeAt (elm) {
    return new VNode$1(nodeOps.tagName(elm).toLowerCase(), {}, [], undefined, elm)
  }

  function createRmCb (childElm, listeners) {
    function remove () {
      if (--remove.listeners === 0) {
        removeNode(childElm);
      }
    }
    remove.listeners = listeners;
    return remove
```

```
}

function removeNode (el) {
  var parent = nodeOps.parentNode(el);
  // element may have already been removed due to v-html / v-text
  if (isDef$1(parent)) {
    nodeOps.removeChild(parent, el);
  }
}

function isUnknownElement$$1 (vnode, inVPre) {
  return (
    !inVPre &&
    !vnode.ns &&
    !(
      config$2.ignoredElements.length &&
      config$2.ignoredElements.some(function (ignore) {
        return isRegExp$1(ignore)
          ? ignore.test(vnode.tag)
          : ignore === vnode.tag
      })
    ) &&
    config$2.isUnknownElement(vnode.tag)
  )
}

var creatingElmInVPre = 0;
function createElm (vnode, insertedVnodeQueue, parentElm, refElm, nested) {
  vnode.isRootInsert = !nested; // for transition enter check
  if (createComponent(vnode, insertedVnodeQueue, parentElm, refElm)) {
    return
  }

  var data = vnode.data;
  var children = vnode.children;
  var tag = vnode.tag;
  if (isDef$1(tag)) {
    if (process.env.NODE_ENV !== 'production') {
      if (data && data.pre) {
        creatingElmInVPre++;
      }
      if (isUnknownElement$$1(vnode, creatingElmInVPre)) {
        warn$1(
          'Unknown custom element: <' + tag + '> - did you ' +
          'register the component correctly? For recursive components, ' +
          'make sure to provide the "name" option.',
```

```
          vnode.context
        );
      }
    }
    vnode.elm = vnode.ns
      ? nodeOps.createElementNS(vnode.ns, tag)
      : nodeOps.createElement(tag, vnode);
    setScope(vnode);

    /* istanbul ignore if */
    {
      createChildren(vnode, children, insertedVnodeQueue);
      if (isDef$1(data)) {
        invokeCreateHooks(vnode, insertedVnodeQueue);
      }
      insert(parentElm, vnode.elm, refElm);
    }

    if (process.env.NODE_ENV !== 'production' && data && data.pre) {
      creatingElmInVPre--;
    }
  } else if (isTrue$1(vnode.isComment)) {
    vnode.elm = nodeOps.createComment(vnode.text);
    insert(parentElm, vnode.elm, refElm);
  } else {
    vnode.elm = nodeOps.createTextNode(vnode.text);
    insert(parentElm, vnode.elm, refElm);
  }
}

function createComponent (vnode, insertedVnodeQueue, parentElm, refElm) {
  var i = vnode.data;
  if (isDef$1(i)) {
    var isReactivated = isDef$1(vnode.componentInstance) && i.keepAlive;
    if (isDef$1(i = i.hook) && isDef$1(i = i.init)) {
      i(vnode, false /* hydrating */, parentElm, refElm);
    }
    // after calling the init hook, if the vnode is a child component
    // it should've created a child instance and mounted it. the child
    // component also has set the placeholder vnode's elm.
    // in that case we can just return the element and be done.
    if (isDef$1(vnode.componentInstance)) {
      initComponent(vnode, insertedVnodeQueue);
      if (isTrue$1(isReactivated)) {
        reactivateComponent(vnode, insertedVnodeQueue, parentElm, refElm);
      }
```

```
      return true
    }
  }
}

function initComponent (vnode, insertedVnodeQueue) {
  if (isDef$1(vnode.data.pendingInsert)) {
    insertedVnodeQueue.push.apply(insertedVnodeQueue, vnode.data.pendingInsert);
    vnode.data.pendingInsert = null;
  }
  vnode.elm = vnode.componentInstance.$el;
  if (isPatchable(vnode)) {
    invokeCreateHooks(vnode, insertedVnodeQueue);
    setScope(vnode);
  } else {
    // empty component root.
    // skip all element-related modules except for ref (#3455)
    registerRef$1(vnode);
    // make sure to invoke the insert hook
    insertedVnodeQueue.push(vnode);
  }
}

function reactivateComponent (vnode, insertedVnodeQueue, parentElm, refElm) {
  var i;
  // hack for #4339: a reactivated component with inner transition
  // does not trigger because the inner node's created hooks are not called
  // again. It's not ideal to involve module-specific logic in here but
  // there doesn't seem to be a better way to do it.
  var innerNode = vnode;
  while (innerNode.componentInstance) {
    innerNode = innerNode.componentInstance._vnode;
    if (isDef$1(i = innerNode.data) && isDef$1(i = i.transition)) {
      for (i = 0; i < cbs.activate.length; ++i) {
        cbs.activate[i](emptyNode$1, innerNode);
      }
      insertedVnodeQueue.push(innerNode);
      break
    }
  }
  // unlike a newly created component,
  // a reactivated keep-alive component doesn't insert itself
  insert(parentElm, vnode.elm, refElm);
}

function insert (parent, elm, ref$$1) {
```

```
  if (isDef$1(parent)) {
    if (isDef$1(ref$$1)) {
      if (ref$$1.parentNode === parent) {
        nodeOps.insertBefore(parent, elm, ref$$1);
      }
    } else {
      nodeOps.appendChild(parent, elm);
    }
  }
}

function createChildren (vnode, children, insertedVnodeQueue) {
  if (Array.isArray(children)) {
    if (process.env.NODE_ENV !== 'production') {
      checkDuplicateKeys(children);
    }
    for (var i = 0; i < children.length; ++i) {
      createElm(children[i], insertedVnodeQueue, vnode.elm, null, true);
    }
  } else if (isPrimitive$1(vnode.text)) {
    nodeOps.appendChild(vnode.elm, nodeOps.createTextNode(String(vnode.text)));
  }
}

function isPatchable (vnode) {
  while (vnode.componentInstance) {
    vnode = vnode.componentInstance._vnode;
  }
  return isDef$1(vnode.tag)
}

function invokeCreateHooks (vnode, insertedVnodeQueue) {
  for (var i$1 = 0; i$1 < cbs.create.length; ++i$1) {
    cbs.create[i$1](emptyNode$1, vnode);
  }
  i = vnode.data.hook; // Reuse variable
  if (isDef$1(i)) {
    if (isDef$1(i.create)) { i.create(emptyNode$1, vnode); }
    if (isDef$1(i.insert)) { insertedVnodeQueue.push(vnode); }
  }
}

// set scope id attribute for scoped CSS.
// this is implemented as a special case to avoid the overhead
// of going through the normal attribute patching process.
function setScope (vnode) {
```

```
  var i;
  if (isDef$1(i = vnode.fnScopeId)) {
    nodeOps.setAttribute(vnode.elm, i, '');
  } else {
    var ancestor = vnode;
    while (ancestor) {
      if (isDef$1(i = ancestor.context) && isDef$1(i = i.$options._scopeId)) {
        nodeOps.setAttribute(vnode.elm, i, '');
      }
      ancestor = ancestor.parent;
    }
  }
  // for slot content they should also get the scopeId from the host instance.
  if (isDef$1(i = activeInstance$1) &&
    i !== vnode.context &&
    i !== vnode.fnContext &&
    isDef$1(i = i.$options._scopeId)
  ) {
    nodeOps.setAttribute(vnode.elm, i, '');
  }
}

function addVnodes (parentElm, refElm, vnodes, startIdx, endIdx, insertedVnodeQueue) {
  for (; startIdx <= endIdx; ++startIdx) {
    createElm(vnodes[startIdx], insertedVnodeQueue, parentElm, refElm);
  }
}

function invokeDestroyHook (vnode) {
  var i, j;
  var data = vnode.data;
  if (isDef$1(data)) {
    if (isDef$1(i = data.hook) && isDef$1(i = i.destroy)) { i(vnode); }
    for (i = 0; i < cbs.destroy.length; ++i) { cbs.destroy[i](vnode); }
  }
  if (isDef$1(i = vnode.children)) {
    for (j = 0; j < vnode.children.length; ++j) {
      invokeDestroyHook(vnode.children[j]);
    }
  }
}

function removeVnodes (parentElm, vnodes, startIdx, endIdx) {
  for (; startIdx <= endIdx; ++startIdx) {
    var ch = vnodes[startIdx];
    if (isDef$1(ch)) {
```

```
      if (isDef$1(ch.tag)) {
        removeAndInvokeRemoveHook(ch);
        invokeDestroyHook(ch);
      } else { // Text node
        removeNode(ch.elm);
      }
    }
  }
}

function removeAndInvokeRemoveHook (vnode, rm) {
  if (isDef$1(rm) || isDef$1(vnode.data)) {
    var i;
    var listeners = cbs.remove.length + 1;
    if (isDef$1(rm)) {
      // we have a recursively passed down rm callback
      // increase the listeners count
      rm.listeners += listeners;
    } else {
      // directly removing
      rm = createRmCb(vnode.elm, listeners);
    }
    // recursively invoke hooks on child component root node
    if (isDef$1(i = vnode.componentInstance) && isDef$1(i = i._vnode) && isDef$1(i.data)) {
      removeAndInvokeRemoveHook(i, rm);
    }
    for (i = 0; i < cbs.remove.length; ++i) {
      cbs.remove[i](vnode, rm);
    }
    if (isDef$1(i = vnode.data.hook) && isDef$1(i = i.remove)) {
      i(vnode, rm);
    } else {
      rm();
    }
  } else {
    removeNode(vnode.elm);
  }
}

function updateChildren (parentElm, oldCh, newCh, insertedVnodeQueue, removeOnly) {
  var oldStartIdx = 0;
  var newStartIdx = 0;
  var oldEndIdx = oldCh.length - 1;
  var oldStartVnode = oldCh[0];
  var oldEndVnode = oldCh[oldEndIdx];
  var newEndIdx = newCh.length - 1;
```

```
var newStartVnode = newCh[0];
var newEndVnode = newCh[newEndIdx];
var oldKeyToIdx, idxInOld, vnodeToMove, refElm;

// removeOnly is a special flag used only by <transition-group>
// to ensure removed elements stay in correct relative positions
// during leaving transitions
var canMove = !removeOnly;

if (process.env.NODE_ENV !== 'production') {
  checkDuplicateKeys(newCh);
}

while (oldStartIdx <= oldEndIdx && newStartIdx <= newEndIdx) {
  if (isUndef$1(oldStartVnode)) {
    oldStartVnode = oldCh[++oldStartIdx]; // Vnode has been moved left
  } else if (isUndef$1(oldEndVnode)) {
    oldEndVnode = oldCh[--oldEndIdx];
  } else if (sameVnode$1(oldStartVnode, newStartVnode)) {
    patchVnode(oldStartVnode, newStartVnode, insertedVnodeQueue);
    oldStartVnode = oldCh[++oldStartIdx];
    newStartVnode = newCh[++newStartIdx];
  } else if (sameVnode$1(oldEndVnode, newEndVnode)) {
    patchVnode(oldEndVnode, newEndVnode, insertedVnodeQueue);
    oldEndVnode = oldCh[--oldEndIdx];
    newEndVnode = newCh[--newEndIdx];
  } else if (sameVnode$1(oldStartVnode, newEndVnode)) { // Vnode moved right
    patchVnode(oldStartVnode, newEndVnode, insertedVnodeQueue);
    canMove && nodeOps.insertBefore(parentElm, oldStartVnode.elm,
       nodeOps.nextSibling(oldEndVnode.elm));
    oldStartVnode = oldCh[++oldStartIdx];
    newEndVnode = newCh[--newEndIdx];
  } else if (sameVnode$1(oldEndVnode, newStartVnode)) { // Vnode moved left
    patchVnode(oldEndVnode, newStartVnode, insertedVnodeQueue);
    canMove && nodeOps.insertBefore(parentElm, oldEndVnode.elm, oldStartVnode.elm);
    oldEndVnode = oldCh[--oldEndIdx];
    newStartVnode = newCh[++newStartIdx];
  } else {
    if (isUndef$1(oldKeyToIdx)) { oldKeyToIdx = createKeyToOldIdx$1(oldCh, oldStartIdx,
       oldEndIdx); }
    idxInOld = isDef$1(newStartVnode.key)
      ? oldKeyToIdx[newStartVnode.key]
      : findIdxInOld(newStartVnode, oldCh, oldStartIdx, oldEndIdx);
    if (isUndef$1(idxInOld)) { // New element
      createElm(newStartVnode, insertedVnodeQueue, parentElm, oldStartVnode.elm);
    } else {
```

```
        vnodeToMove = oldCh[idxInOld];
        if (sameVnode$1(vnodeToMove, newStartVnode)) {
          patchVnode(vnodeToMove, newStartVnode, insertedVnodeQueue);
          oldCh[idxInOld] = undefined;
          canMove && nodeOps.insertBefore(parentElm, vnodeToMove.elm, oldStartVnode.elm);
        } else {
          // same key but different element. treat as new element
          createElm(newStartVnode, insertedVnodeQueue, parentElm, oldStartVnode.elm);
        }
      }
      newStartVnode = newCh[++newStartIdx];
    }
  }
  if (oldStartIdx > oldEndIdx) {
    refElm = isUndef$1(newCh[newEndIdx + 1]) ? null : newCh[newEndIdx + 1].elm;
    addVnodes(parentElm, refElm, newCh, newStartIdx, newEndIdx, insertedVnodeQueue);
  } else if (newStartIdx > newEndIdx) {
    removeVnodes(parentElm, oldCh, oldStartIdx, oldEndIdx);
  }
}

function checkDuplicateKeys (children) {
  var seenKeys = {};
  for (var i = 0; i < children.length; i++) {
    var vnode = children[i];
    var key = vnode.key;
    if (isDef$1(key)) {
      if (seenKeys[key]) {
        warn$1(
          ("Duplicate keys detected: '" + key + "'. This may cause an update error."),
          vnode.context
        );
      } else {
        seenKeys[key] = true;
      }
    }
  }
}

function findIdxInOld (node, oldCh, start, end) {
  for (var i = start; i < end; i++) {
    var c = oldCh[i];
    if (isDef$1(c) && sameVnode$1(node, c)) { return i }
  }
}
```

```
function patchVnode (oldVnode, vnode, insertedVnodeQueue, removeOnly) {
  if (oldVnode === vnode) {
    return
  }

  var elm = vnode.elm = oldVnode.elm;

  if (isTrue$1(oldVnode.isAsyncPlaceholder)) {
    if (isDef$1(vnode.asyncFactory.resolved)) {
      hydrate(oldVnode.elm, vnode, insertedVnodeQueue);
    } else {
      vnode.isAsyncPlaceholder = true;
    }
    return
  }

  // reuse element for static trees.
  // note we only do this if the vnode is cloned -
  // if the new node is not cloned it means the render functions have been
  // reset by the hot-reload-api and we need to do a proper re-render.
  if (isTrue$1(vnode.isStatic) &&
    isTrue$1(oldVnode.isStatic) &&
    vnode.key === oldVnode.key &&
    (isTrue$1(vnode.isCloned) || isTrue$1(vnode.isOnce))
  ) {
    vnode.componentInstance = oldVnode.componentInstance;
    return
  }

  var i;
  var data = vnode.data;
  if (isDef$1(data) && isDef$1(i = data.hook) && isDef$1(i = i.prepatch)) {
    i(oldVnode, vnode);
  }

  var oldCh = oldVnode.children;
  var ch = vnode.children;
  if (isDef$1(data) && isPatchable(vnode)) {
    for (i = 0; i < cbs.update.length; ++i) { cbs.update[i](oldVnode, vnode); }
    if (isDef$1(i = data.hook) && isDef$1(i = i.update)) { i(oldVnode, vnode); }
  }
  if (isUndef$1(vnode.text)) {
    if (isDef$1(oldCh) && isDef$1(ch)) {
      if (oldCh !== ch) { updateChildren(elm, oldCh, ch, insertedVnodeQueue, removeOnly); }
    } else if (isDef$1(ch)) {
      if (isDef$1(oldVnode.text)) { nodeOps.setTextContent(elm, ''); }
```

```
      addVnodes(elm, null, ch, 0, ch.length - 1, insertedVnodeQueue);
    } else if (isDef$1(oldCh)) {
      removeVnodes(elm, oldCh, 0, oldCh.length - 1);
    } else if (isDef$1(oldVnode.text)) {
      nodeOps.setTextContent(elm, '');
    }
  } else if (oldVnode.text !== vnode.text) {
    nodeOps.setTextContent(elm, vnode.text);
  }
  if (isDef$1(data)) {
    if (isDef$1(i = data.hook) && isDef$1(i = i.postpatch)) { i(oldVnode, vnode); }
  }
}

function invokeInsertHook (vnode, queue, initial) {
  // delay insert hooks for component root nodes, invoke them after the
  // element is really inserted
  if (isTrue$1(initial) && isDef$1(vnode.parent)) {
    vnode.parent.data.pendingInsert = queue;
  } else {
    for (var i = 0; i < queue.length; ++i) {
      queue[i].data.hook.insert(queue[i]);
    }
  }
}

var hydrationBailed = false;
// list of modules that can skip create hook during hydration because they
// are already rendered on the client or has no need for initialization
// Note: style is excluded because it relies on initial clone for future
// deep updates (#7063).
var isRenderedModule = makeMap$1('attrs,class,staticClass,staticStyle,key');

// Note: this is a browser-only function so we can assume elms are DOM nodes.
function hydrate (elm, vnode, insertedVnodeQueue, inVPre) {
  var i;
  var tag = vnode.tag;
  var data = vnode.data;
  var children = vnode.children;
  inVPre = inVPre || (data && data.pre);
  vnode.elm = elm;

  if (isTrue$1(vnode.isComment) && isDef$1(vnode.asyncFactory)) {
    vnode.isAsyncPlaceholder = true;
    return true
  }
```

```
// assert node match
if (process.env.NODE_ENV !== 'production') {
  if (!assertNodeMatch(elm, vnode, inVPre)) {
    return false
  }
}
if (isDef$1(data)) {
  if (isDef$1(i = data.hook) && isDef$1(i = i.init)) { i(vnode, true /* hydrating */); }
  if (isDef$1(i = vnode.componentInstance)) {
    // child component. it should have hydrated its own tree.
    initComponent(vnode, insertedVnodeQueue);
    return true
  }
}
if (isDef$1(tag)) {
  if (isDef$1(children)) {
    // empty element, allow client to pick up and populate children
    if (!elm.hasChildNodes()) {
      createChildren(vnode, children, insertedVnodeQueue);
    } else {
      // v-html and domProps: innerHTML
      if (isDef$1(i = data) && isDef$1(i = i.domProps) && isDef$1(i = i.innerHTML)) {
        if (i !== elm.innerHTML) {
          /* istanbul ignore if */
          if (process.env.NODE_ENV !== 'production' &&
            typeof console !== 'undefined' &&
            !hydrationBailed
          ) {
            hydrationBailed = true;
            console.warn('Parent: ', elm);
            console.warn('server innerHTML: ', i);
            console.warn('client innerHTML: ', elm.innerHTML);
          }
          return false
        }
      } else {
        // iterate and compare children lists
        var childrenMatch = true;
        var childNode = elm.firstChild;
        for (var i$1 = 0; i$1 < children.length; i$1++) {
          if (!childNode || !hydrate(childNode, children[i$1], insertedVnodeQueue, inVPre)) {
            childrenMatch = false;
            break
          }
          childNode = childNode.nextSibling;
        }
```

```
        // if childNode is not null, it means the actual childNodes list is
        // longer than the virtual children list.
        if (!childrenMatch || childNode) {
          /* istanbul ignore if */
          if (process.env.NODE_ENV !== 'production' &&
            typeof console !== 'undefined' &&
            !hydrationBailed
          ) {
            hydrationBailed = true;
            console.warn('Parent: ', elm);
            console.warn('Mismatching childNodes vs. VNodes: ', elm.childNodes, children);
          }
          return false
        }
      }
    }
    if (isDef$1(data)) {
      var fullInvoke = false;
      for (var key in data) {
        if (!isRenderedModule(key)) {
          fullInvoke = true;
          invokeCreateHooks(vnode, insertedVnodeQueue);
          break
        }
      }
      if (!fullInvoke && data['class']) {
        // ensure collecting deps for deep class bindings for future updates
        traverse$1(data['class']);
      }
    }
  } else if (elm.data !== vnode.text) {
    elm.data = vnode.text;
  }
  return true
}

function assertNodeMatch (node, vnode, inVPre) {
  if (isDef$1(vnode.tag)) {
    return vnode.tag.indexOf('vue-component') === 0 || (
      !isUnknownElement$$1(vnode, inVPre) &&
      vnode.tag.toLowerCase() === (node.tagName && node.tagName.toLowerCase())
    )
  } else {
    return node.nodeType === (vnode.isComment ? 8 : 3)
  }
```

```
}

return function patch (oldVnode, vnode, hydrating, removeOnly, parentElm, refElm) {
  if (isUndef$1(vnode)) {
    if (isDef$1(oldVnode)) { invokeDestroyHook(oldVnode); }
    return
  }

  var isInitialPatch = false;
  var insertedVnodeQueue = [];

  if (isUndef$1(oldVnode)) {
    // empty mount (likely as component), create new root element
    isInitialPatch = true;
    createElm(vnode, insertedVnodeQueue, parentElm, refElm);
  } else {
    var isRealElement = isDef$1(oldVnode.nodeType);
    if (!isRealElement && sameVnode$1(oldVnode, vnode)) {
      // patch existing root node
      patchVnode(oldVnode, vnode, insertedVnodeQueue, removeOnly);
    } else {
      if (isRealElement) {
        // mounting to a real element
        // check if this is server-rendered content and if we can perform
        // a successful hydration.
        if (oldVnode.nodeType === 1 && oldVnode.hasAttribute(SSR_ATTR$1)) {
          oldVnode.removeAttribute(SSR_ATTR$1);
          hydrating = true;
        }
        if (isTrue$1(hydrating)) {
          if (hydrate(oldVnode, vnode, insertedVnodeQueue)) {
            invokeInsertHook(vnode, insertedVnodeQueue, true);
            return oldVnode
          } else if (process.env.NODE_ENV !== 'production') {
            warn$1(
              'The client-side rendered virtual DOM tree is not matching ' +
              'server-rendered content. This is likely caused by incorrect ' +
              'HTML markup, for example nesting block-level elements inside ' +
              '<p>, or missing <tbody>. Bailing hydration and performing ' +
              'full client-side render.'
            );
          }
        }
        // either not server-rendered, or hydration failed.
        // create an empty node and replace it
        oldVnode = emptyNodeAt(oldVnode);
```

```
}

// replacing existing element
var oldElm = oldVnode.elm;
var parentElm$1 = nodeOps.parentNode(oldElm);

// create new node
createElm(
  vnode,
  insertedVnodeQueue,
  // extremely rare edge case: do not insert if old element is in a
  // leaving transition. Only happens when combining transition +
  // keep-alive + HOCs. (#4590)
  oldElm._leaveCb ? null : parentElm$1,
  nodeOps.nextSibling(oldElm)
);

// update parent placeholder node element, recursively
if (isDef$1(vnode.parent)) {
  var ancestor = vnode.parent;
  var patchable = isPatchable(vnode);
  while (ancestor) {
    for (var i = 0; i < cbs.destroy.length; ++i) {
      cbs.destroy[i](ancestor);
    }
    ancestor.elm = vnode.elm;
    if (patchable) {
      for (var i$1 = 0; i$1 < cbs.create.length; ++i$1) {
        cbs.create[i$1](emptyNode$1, ancestor);
      }
      // #6513
      // invoke insert hooks that may have been merged by create hooks.
      // e.g. for directives that uses the "inserted" hook.
      var insert = ancestor.data.hook.insert;
      if (insert.merged) {
        // start at index 1 to avoid re-invoking component mounted hook
        for (var i$2 = 1; i$2 < insert.fns.length; i$2++) {
          insert.fns[i$2]();
        }
      }
    } else {
      registerRef$1(ancestor);
    }
    ancestor = ancestor.parent;
  }
}
```

```
        // destroy old node
        if (isDef$1(parentElm$1)) {
          removeVnodes(parentElm$1, [oldVnode], 0, 0);
        } else if (isDef$1(oldVnode.tag)) {
          invokeDestroyHook(oldVnode);
        }
      }
    }

    invokeInsertHook(vnode, insertedVnodeQueue, isInitialPatch);
    return vnode.elm
  }
}

/*  */

var directives$1 = {
  create: updateDirectives$1,
  update: updateDirectives$1,
  destroy: function unbindDirectives (vnode) {
    updateDirectives$1(vnode, emptyNode$1);
  }
};

function updateDirectives$1 (oldVnode, vnode) {
  if (oldVnode.data.directives || vnode.data.directives) {
    _update$1(oldVnode, vnode);
  }
}

function _update$1 (oldVnode, vnode) {
  var isCreate = oldVnode === emptyNode$1;
  var isDestroy = vnode === emptyNode$1;
  var oldDirs = normalizeDirectives$1$1(oldVnode.data.directives, oldVnode.context);
  var newDirs = normalizeDirectives$1$1(vnode.data.directives, vnode.context);

  var dirsWithInsert = [];
  var dirsWithPostpatch = [];

  var key, oldDir, dir;
  for (key in newDirs) {
    oldDir = oldDirs[key];
    dir = newDirs[key];
    if (!oldDir) {
      // new directive, bind
```

```
      callHook$1$1(dir, 'bind', vnode, oldVnode);
      if (dir.def && dir.def.inserted) {
        dirsWithInsert.push(dir);
      }
    } else {
      // existing directive, update
      dir.oldValue = oldDir.value;
      callHook$1$1(dir, 'update', vnode, oldVnode);
      if (dir.def && dir.def.componentUpdated) {
        dirsWithPostpatch.push(dir);
      }
    }
  }

  if (dirsWithInsert.length) {
    var callInsert = function () {
      for (var i = 0; i < dirsWithInsert.length; i++) {
        callHook$1$1(dirsWithInsert[i], 'inserted', vnode, oldVnode);
      }
    };
    if (isCreate) {
      mergeVNodeHook$1(vnode, 'insert', callInsert);
    } else {
      callInsert();
    }
  }

  if (dirsWithPostpatch.length) {
    mergeVNodeHook$1(vnode, 'postpatch', function () {
      for (var i = 0; i < dirsWithPostpatch.length; i++) {
        callHook$1$1(dirsWithPostpatch[i], 'componentUpdated', vnode, oldVnode);
      }
    });
  }

  if (!isCreate) {
    for (key in oldDirs) {
      if (!newDirs[key]) {
        // no longer present, unbind
        callHook$1$1(oldDirs[key], 'unbind', oldVnode, oldVnode, isDestroy);
      }
    }
  }
}

var emptyModifiers$1 = Object.create(null);
```

```
function normalizeDirectives$1$1 (
  dirs,
  vm
) {
  var res = Object.create(null);
  if (!dirs) {
    // $flow-disable-line
    return res
  }
  var i, dir;
  for (i = 0; i < dirs.length; i++) {
    dir = dirs[i];
    if (!dir.modifiers) {
      // $flow-disable-line
      dir.modifiers = emptyModifiers$1;
    }
    res[getRawDirName$1(dir)] = dir;
    dir.def = resolveAsset$1(vm.$options, 'directives', dir.name, true);
  }
  // $flow-disable-line
  return res
}

function getRawDirName$1 (dir) {
  return dir.rawName || ((dir.name) + "." + (Object.keys(dir.modifiers || {}).join('.')))
}

function callHook$1$1 (dir, hook, vnode, oldVnode, isDestroy) {
  var fn = dir.def && dir.def[hook];
  if (fn) {
    try {
      fn(vnode.elm, dir, vnode, oldVnode, isDestroy);
    } catch (e) {
      handleError$1(e, vnode.context, ("directive " + (dir.name) + " " + hook + " hook"));
    }
  }
}

var baseModules$1 = [
  ref$1,
  directives$1
];

/*  */
```

```
function updateAttrs$1 (oldVnode, vnode) {
  var opts = vnode.componentOptions;
  if (isDef$1(opts) && opts.Ctor.options.inheritAttrs === false) {
    return
  }
  if (isUndef$1(oldVnode.data.attrs) && isUndef$1(vnode.data.attrs)) {
    return
  }
  var key, cur, old;
  var elm = vnode.elm;
  var oldAttrs = oldVnode.data.attrs || {};
  var attrs = vnode.data.attrs || {};
  // clone observed objects, as the user probably wants to mutate it
  if (isDef$1(attrs.__ob__)) {
    attrs = vnode.data.attrs = extend$1({}, attrs);
  }

  for (key in attrs) {
    cur = attrs[key];
    old = oldAttrs[key];
    if (old !== cur) {
      setAttr$1(elm, key, cur);
    }
  }
  // #4391: in IE9, setting type can reset value for input[type=radio]
  // #6666: IE/Edge forces progress value down to 1 before setting a max
  /* istanbul ignore if */
  if ((isIE$1 || isEdge$1) && attrs.value !== oldAttrs.value) {
    setAttr$1(elm, 'value', attrs.value);
  }
  for (key in oldAttrs) {
    if (isUndef$1(attrs[key])) {
      if (isXlink$1(key)) {
        elm.removeAttributeNS(xlinkNS$1, getXlinkProp$1(key));
      } else if (!isEnumeratedAttr$1(key)) {
        elm.removeAttribute(key);
      }
    }
  }
}

function setAttr$1 (el, key, value) {
  if (isBooleanAttr$1(key)) {
    // set attribute for blank value
    // e.g. <option disabled>Select one</option>
    if (isFalsyAttrValue$1(value)) {
```

```
      el.removeAttribute(key);
    } else {
      // technically allowfullscreen is a boolean attribute for <iframe>,
      // but Flash expects a value of "true" when used on <embed> tag
      value = key === 'allowfullscreen' && el.tagName === 'EMBED'
        ? 'true'
        : key;
      el.setAttribute(key, value);
    }
  } else if (isEnumeratedAttr$1(key)) {
    el.setAttribute(key, isFalsyAttrValue$1(value) || value === 'false' ? 'false' : 'true');
  } else if (isXlink$1(key)) {
    if (isFalsyAttrValue$1(value)) {
      el.removeAttributeNS(xlinkNS$1, getXlinkProp$1(key));
    } else {
      el.setAttributeNS(xlinkNS$1, key, value);
    }
  } else {
    if (isFalsyAttrValue$1(value)) {
      el.removeAttribute(key);
    } else {
      // #7138: IE10 & 11 fires input event when setting placeholder on
      // <textarea>... block the first input event and remove the blocker
      // immediately.
      /* istanbul ignore if */
      if (
        isIE$1 && !isIE9$1 &&
        el.tagName === 'TEXTAREA' &&
        key === 'placeholder' && !el.__ieph
      ) {
        var blocker = function (e) {
          e.stopImmediatePropagation();
          el.removeEventListener('input', blocker);
        };
        el.addEventListener('input', blocker);
        // $flow-disable-line
        el.__ieph = true; /* IE placeholder patched */
      }
      el.setAttribute(key, value);
    }
  }
}

var attrs$1 = {
  create: updateAttrs$1,
  update: updateAttrs$1
```

```
};

/*  */

function updateClass$1 (oldVnode, vnode) {
  var el = vnode.elm;
  var data = vnode.data;
  var oldData = oldVnode.data;
  if (
    isUndef$1(data.staticClass) &&
    isUndef$1(data.class) && (
      isUndef$1(oldData) || (
        isUndef$1(oldData.staticClass) &&
        isUndef$1(oldData.class)
      )
    )
  ) {
    return
  }

  var cls = genClassForVnode$1(vnode);

  // handle transition classes
  var transitionClass = el._transitionClasses;
  if (isDef$1(transitionClass)) {
    cls = concat$1(cls, stringifyClass$1(transitionClass));
  }

  // set the class
  if (cls !== el._prevClass) {
    el.setAttribute('class', cls);
    el._prevClass = cls;
  }
}

var klass$1 = {
  create: updateClass$1,
  update: updateClass$1
};

/*  */

/*  */
```

```
// add a raw attr (use this in preTransforms)




// note: this only removes the attr from the Array (attrsList) so that it
// doesn't get processed by processAttrs.
// By default it does NOT remove it from the map (attrsMap) because the map is
// needed during codegen.

/*  */

/**
 * Cross-platform code generation for component v-model
 */


/**
 * Cross-platform codegen helper for generating v-model value assignment code.
 */

/*  */

// in some cases, the event used has to be determined at runtime
// so we used some reserved tokens during compile.
var RANGE_TOKEN$1 = '__r';
var CHECKBOX_RADIO_TOKEN$1 = '__c';

/*  */

// normalize v-model event tokens that can only be determined at runtime.
// it's important to place the event as the first in the array because
// the whole point is ensuring the v-model callback gets called before
// user-attached handlers.
function normalizeEvents$1 (on$$1) {
  /* istanbul ignore if */
```

```
  if (isDef$1(on$$1[RANGE_TOKEN$1])) {
    // IE input[type=range] only supports `change` event
    var event = isIE$1 ? 'change' : 'input';
    on$$1[event] = [].concat(on$$1[RANGE_TOKEN$1], on$$1[event] || []);
    delete on$$1[RANGE_TOKEN$1];
  }
  // This was originally intended to fix #4521 but no longer necessary
  // after 2.5. Keeping it for backwards compat with generated code from < 2.4
  /* istanbul ignore if */
  if (isDef$1(on$$1[CHECKBOX_RADIO_TOKEN$1])) {
    on$$1.change = [].concat(on$$1[CHECKBOX_RADIO_TOKEN$1], on$$1.change || []);
    delete on$$1[CHECKBOX_RADIO_TOKEN$1];
  }
}

var target$1$1;

function createOnceHandler$1 (handler, event, capture) {
  var _target = target$1$1; // save current target element in closure
  return function onceHandler () {
    var res = handler.apply(null, arguments);
    if (res !== null) {
      remove$2$1(event, onceHandler, capture, _target);
    }
  }
}

function add$1$1 (
  event,
  handler,
  once$$1,
  capture,
  passive
) {
  handler = withMacroTask$1(handler);
  if (once$$1) { handler = createOnceHandler$1(handler, event, capture); }
  target$1$1.addEventListener(
    event,
    handler,
    supportsPassive$1
      ? { capture: capture, passive: passive }
      : capture
  );
}

function remove$2$1 (
```

```
  event,
  handler,
  capture,
  _target
) {
  (_target || target$1$1).removeEventListener(
    event,
    handler._withTask || handler,
    capture
  );
}

function updateDOMListeners$1 (oldVnode, vnode) {
  if (isUndef$1(oldVnode.data.on) && isUndef$1(vnode.data.on)) {
    return
  }
  var on$$1 = vnode.data.on || {};
  var oldOn = oldVnode.data.on || {};
  target$1$1 = vnode.elm;
  normalizeEvents$1(on$$1);
  updateListeners$1(on$$1, oldOn, add$1$1, remove$2$1, vnode.context);
  target$1$1 = undefined;
}

var events$1 = {
  create: updateDOMListeners$1,
  update: updateDOMListeners$1
};

/*  */

function updateDOMProps$1 (oldVnode, vnode) {
  if (isUndef$1(oldVnode.data.domProps) && isUndef$1(vnode.data.domProps)) {
    return
  }
  var key, cur;
  var elm = vnode.elm;
  var oldProps = oldVnode.data.domProps || {};
  var props = vnode.data.domProps || {};
  // clone observed objects, as the user probably wants to mutate it
  if (isDef$1(props.__ob__)) {
    props = vnode.data.domProps = extend$1({}, props);
  }

  for (key in oldProps) {
    if (isUndef$1(props[key])) {
```

```
      elm[key] = '';
    }
  }
  for (key in props) {
    cur = props[key];
    // ignore children if the node has textContent or innerHTML,
    // as these will throw away existing DOM nodes and cause removal errors
    // on subsequent patches (#3360)
    if (key === 'textContent' || key === 'innerHTML') {
      if (vnode.children) { vnode.children.length = 0; }
      if (cur === oldProps[key]) { continue }
      // #6601 work around Chrome version <= 55 bug where single textNode
      // replaced by innerHTML/textContent retains its parentNode property
      if (elm.childNodes.length === 1) {
        elm.removeChild(elm.childNodes[0]);
      }
    }

    if (key === 'value') {
      // store value as _value as well since
      // non-string values will be stringified
      elm._value = cur;
      // avoid resetting cursor position when value is the same
      var strCur = isUndef$1(cur) ? '' : String(cur);
      if (shouldUpdateValue$1(elm, strCur)) {
        elm.value = strCur;
      }
    } else {
      elm[key] = cur;
    }
  }
}

// check platforms/web/util/attrs.js acceptValue


function shouldUpdateValue$1 (elm, checkVal) {
  return (!elm.composing && (
    elm.tagName === 'OPTION' ||
    isNotInFocusAndDirty$1(elm, checkVal) ||
    isDirtyWithModifiers$1(elm, checkVal)
  ))
}

function isNotInFocusAndDirty$1 (elm, checkVal) {
  // return true when textbox (.number and .trim) loses focus and its value is
```

```
  // not equal to the updated value
  var notInFocus = true;
  // #6157
  // work around IE bug when accessing document.activeElement in an iframe
  try { notInFocus = document.activeElement !== elm; } catch (e) {}
  return notInFocus && elm.value !== checkVal
}

function isDirtyWithModifiers$1 (elm, newVal) {
  var value = elm.value;
  var modifiers = elm._vModifiers; // injected by v-model runtime
  if (isDef$1(modifiers)) {
    if (modifiers.lazy) {
      // inputs with lazy should only be updated when not in focus
      return false
    }
    if (modifiers.number) {
      return toNumber$1(value) !== toNumber$1(newVal)
    }
    if (modifiers.trim) {
      return value.trim() !== newVal.trim()
    }
  }
  return value !== newVal
}

var domProps$1 = {
  create: updateDOMProps$1,
  update: updateDOMProps$1
};

/*  */

var parseStyleText$1 = cached$1(function (cssText) {
  var res = {};
  var listDelimiter = /;(?![^(]*\))/g;
  var propertyDelimiter = /:(.+)/;
  cssText.split(listDelimiter).forEach(function (item) {
    if (item) {
      var tmp = item.split(propertyDelimiter);
      tmp.length > 1 && (res[tmp[0].trim()] = tmp[1].trim());
    }
  });
  return res
});
```

```
// merge static and dynamic style data on the same vnode
function normalizeStyleData$1 (data) {
  var style = normalizeStyleBinding$1(data.style);
  // static style is pre-processed into an object during compilation
  // and is always a fresh object, so it's safe to merge into it
  return data.staticStyle
    ? extend$1(data.staticStyle, style)
    : style
}

// normalize possible array / string values into Object
function normalizeStyleBinding$1 (bindingStyle) {
  if (Array.isArray(bindingStyle)) {
    return toObject$1(bindingStyle)
  }
  if (typeof bindingStyle === 'string') {
    return parseStyleText$1(bindingStyle)
  }
  return bindingStyle
}

/**
 * parent component style should be after child's
 * so that parent component's style could override it
 */
function getStyle$1 (vnode, checkChild) {
  var res = {};
  var styleData;

  if (checkChild) {
    var childNode = vnode;
    while (childNode.componentInstance) {
      childNode = childNode.componentInstance._vnode;
      if (
        childNode && childNode.data &&
        (styleData = normalizeStyleData$1(childNode.data))
      ) {
        extend$1(res, styleData);
      }
    }
  }

  if ((styleData = normalizeStyleData$1(vnode.data))) {
    extend$1(res, styleData);
  }
```

```
  var parentNode = vnode;
  while ((parentNode = parentNode.parent)) {
    if (parentNode.data && (styleData = normalizeStyleData$1(parentNode.data))) {
      extend$1(res, styleData);
    }
  }
  return res
}

/*  */

var cssVarRE$1 = /^--/;
var importantRE$1 = /\s*!important$/;
var setProp$1 = function (el, name, val) {
  /* istanbul ignore if */
  if (cssVarRE$1.test(name)) {
    el.style.setProperty(name, val);
  } else if (importantRE$1.test(val)) {
    el.style.setProperty(name, val.replace(importantRE$1, ''), 'important');
  } else {
    var normalizedName = normalize$1(name);
    if (Array.isArray(val)) {
      // Support values array created by autoprefixer, e.g.
      // {display: ["-webkit-box", "-ms-flexbox", "flex"]}
      // Set them one by one, and the browser will only set those it can recognize
      for (var i = 0, len = val.length; i < len; i++) {
        el.style[normalizedName] = val[i];
      }
    } else {
      el.style[normalizedName] = val;
    }
  }
};

var vendorNames$1 = ['Webkit', 'Moz', 'ms'];

var emptyStyle$1;
var normalize$1 = cached$1(function (prop) {
  emptyStyle$1 = emptyStyle$1 || document.createElement('div').style;
  prop = camelize$1(prop);
  if (prop !== 'filter' && (prop in emptyStyle$1)) {
    return prop
  }
  var capName = prop.charAt(0).toUpperCase() + prop.slice(1);
  for (var i = 0; i < vendorNames$1.length; i++) {
    var name = vendorNames$1[i] + capName;
```

```
    if (name in emptyStyle$1) {
      return name
    }
  }
});

function updateStyle$1 (oldVnode, vnode) {
  var data = vnode.data;
  var oldData = oldVnode.data;

  if (isUndef$1(data.staticStyle) && isUndef$1(data.style) &&
    isUndef$1(oldData.staticStyle) && isUndef$1(oldData.style)
  ) {
    return
  }

  var cur, name;
  var el = vnode.elm;
  var oldStaticStyle = oldData.staticStyle;
  var oldStyleBinding = oldData.normalizedStyle || oldData.style || {};

  // if static style exists, stylebinding already merged into it when doing normalizeStyleData
  var oldStyle = oldStaticStyle || oldStyleBinding;

  var style = normalizeStyleBinding$1(vnode.data.style) || {};

  // store normalized style under a different key for next diff
  // make sure to clone it if it's reactive, since the user likely wants
  // to mutate it.
  vnode.data.normalizedStyle = isDef$1(style.__ob__)
    ? extend$1({}, style)
    : style;

  var newStyle = getStyle$1(vnode, true);

  for (name in oldStyle) {
    if (isUndef$1(newStyle[name])) {
      setProp$1(el, name, '');
    }
  }
  for (name in newStyle) {
    cur = newStyle[name];
    if (cur !== oldStyle[name]) {
      // ie9 setting to null has no effect, must use empty string
      setProp$1(el, name, cur == null ? '' : cur);
    }
```

```
  }
}

var style$1 = {
  create: updateStyle$1,
  update: updateStyle$1
};

/*  */

/**
 * Add class with compatibility for SVG since classList is not supported on
 * SVG elements in IE
 */
function addClass$1 (el, cls) {
  /* istanbul ignore if */
  if (!cls || !(cls = cls.trim())) {
    return
  }

  /* istanbul ignore else */
  if (el.classList) {
    if (cls.indexOf(' ') > -1) {
      cls.split(/\s+/).forEach(function (c) { return el.classList.add(c); });
    } else {
      el.classList.add(cls);
    }
  } else {
    var cur = " " + (el.getAttribute('class') || '') + " ";
    if (cur.indexOf(' ' + cls + ' ') < 0) {
      el.setAttribute('class', (cur + cls).trim());
    }
  }
}

/**
 * Remove class with compatibility for SVG since classList is not supported on
 * SVG elements in IE
 */
function removeClass$1 (el, cls) {
  /* istanbul ignore if */
  if (!cls || !(cls = cls.trim())) {
    return
  }

  /* istanbul ignore else */
```

```
  if (el.classList) {
    if (cls.indexOf(' ') > -1) {
      cls.split(/\s+/).forEach(function (c) { return el.classList.remove(c); });
    } else {
      el.classList.remove(cls);
    }
    if (!el.classList.length) {
      el.removeAttribute('class');
    }
  } else {
    var cur = " " + (el.getAttribute('class') || '') + " ";
    var tar = ' ' + cls + ' ';
    while (cur.indexOf(tar) >= 0) {
      cur = cur.replace(tar, ' ');
    }
    cur = cur.trim();
    if (cur) {
      el.setAttribute('class', cur);
    } else {
      el.removeAttribute('class');
    }
  }
}

/*  */

function resolveTransition$1 (def) {
  if (!def) {
    return
  }
  /* istanbul ignore else */
  if (typeof def === 'object') {
    var res = {};
    if (def.css !== false) {
      extend$1(res, autoCssTransition$1(def.name || 'v'));
    }
    extend$1(res, def);
    return res
  } else if (typeof def === 'string') {
    return autoCssTransition$1(def)
  }
}

var autoCssTransition$1 = cached$1(function (name) {
  return {
    enterClass: (name + "-enter"),
```

```
    enterToClass: (name + "-enter-to"),
    enterActiveClass: (name + "-enter-active"),
    leaveClass: (name + "-leave"),
    leaveToClass: (name + "-leave-to"),
    leaveActiveClass: (name + "-leave-active")
  }
});

var hasTransition$1 = inBrowser$1 && !isIE9$1;
var TRANSITION$1 = 'transition';
var ANIMATION$1 = 'animation';

// Transition property/event sniffing
var transitionProp$1 = 'transition';
var transitionEndEvent$1 = 'transitionend';
var animationProp$1 = 'animation';
var animationEndEvent$1 = 'animationend';
if (hasTransition$1) {
  /* istanbul ignore if */
  if (window.ontransitionend === undefined &&
    window.onwebkittransitionend !== undefined
  ) {
    transitionProp$1 = 'WebkitTransition';
    transitionEndEvent$1 = 'webkitTransitionEnd';
  }
  if (window.onanimationend === undefined &&
    window.onwebkitanimationend !== undefined
  ) {
    animationProp$1 = 'WebkitAnimation';
    animationEndEvent$1 = 'webkitAnimationEnd';
  }
}

// binding to window is necessary to make hot reload work in IE in strict mode
var raf$1 = inBrowser$1
  ? window.requestAnimationFrame
    ? window.requestAnimationFrame.bind(window)
    : setTimeout
  : /* istanbul ignore next */ function (fn) { return fn(); };

function nextFrame$1 (fn) {
  raf$1(function () {
    raf$1(fn);
  });
}
```

```
function addTransitionClass$1 (el, cls) {
  var transitionClasses = el._transitionClasses || (el._transitionClasses = []);
  if (transitionClasses.indexOf(cls) < 0) {
    transitionClasses.push(cls);
    addClass$1(el, cls);
  }
}

function removeTransitionClass$1 (el, cls) {
  if (el._transitionClasses) {
    remove$3(el._transitionClasses, cls);
  }
  removeClass$1(el, cls);
}

function whenTransitionEnds$1 (
  el,
  expectedType,
  cb
) {
  var ref = getTransitionInfo$1(el, expectedType);
  var type = ref.type;
  var timeout = ref.timeout;
  var propCount = ref.propCount;
  if (!type) { return cb() }
  var event = type === TRANSITION$1 ? transitionEndEvent$1 : animationEndEvent$1;
  var ended = 0;
  var end = function () {
    el.removeEventListener(event, onEnd);
    cb();
  };
  var onEnd = function (e) {
    if (e.target === el) {
      if (++ended >= propCount) {
        end();
      }
    }
  };
  setTimeout(function () {
    if (ended < propCount) {
      end();
    }
  }, timeout + 1);
  el.addEventListener(event, onEnd);
}
```

```
var transformRE$1 = /\b(transform|all)(,|$)/;

function getTransitionInfo$1 (el, expectedType) {
  var styles = window.getComputedStyle(el);
  var transitionDelays = styles[transitionProp$1 + 'Delay'].split(', ');
  var transitionDurations = styles[transitionProp$1 + 'Duration'].split(', ');
  var transitionTimeout = getTimeout$1(transitionDelays, transitionDurations);
  var animationDelays = styles[animationProp$1 + 'Delay'].split(', ');
  var animationDurations = styles[animationProp$1 + 'Duration'].split(', ');
  var animationTimeout = getTimeout$1(animationDelays, animationDurations);

  var type;
  var timeout = 0;
  var propCount = 0;
  /* istanbul ignore if */
  if (expectedType === TRANSITION$1) {
    if (transitionTimeout > 0) {
      type = TRANSITION$1;
      timeout = transitionTimeout;
      propCount = transitionDurations.length;
    }
  } else if (expectedType === ANIMATION$1) {
    if (animationTimeout > 0) {
      type = ANIMATION$1;
      timeout = animationTimeout;
      propCount = animationDurations.length;
    }
  } else {
    timeout = Math.max(transitionTimeout, animationTimeout);
    type = timeout > 0
      ? transitionTimeout > animationTimeout
        ? TRANSITION$1
        : ANIMATION$1
      : null;
    propCount = type
      ? type === TRANSITION$1
        ? transitionDurations.length
        : animationDurations.length
      : 0;
  }
  var hasTransform =
    type === TRANSITION$1 &&
    transformRE$1.test(styles[transitionProp$1 + 'Property']);
  return {
    type: type,
    timeout: timeout,
```

```
    propCount: propCount,
    hasTransform: hasTransform
  }
}

function getTimeout$1 (delays, durations) {
  /* istanbul ignore next */
  while (delays.length < durations.length) {
    delays = delays.concat(delays);
  }

  return Math.max.apply(null, durations.map(function (d, i) {
    return toMs$1(d) + toMs$1(delays[i])
  }))
}

function toMs$1 (s) {
  return Number(s.slice(0, -1)) * 1000
}

/*  */

function enter$1 (vnode, toggleDisplay) {
  var el = vnode.elm;

  // call leave callback now
  if (isDef$1(el._leaveCb)) {
    el._leaveCb.cancelled = true;
    el._leaveCb();
  }

  var data = resolveTransition$1(vnode.data.transition);
  if (isUndef$1(data)) {
    return
  }

  /* istanbul ignore if */
  if (isDef$1(el._enterCb) || el.nodeType !== 1) {
    return
  }

  var css = data.css;
  var type = data.type;
  var enterClass = data.enterClass;
  var enterToClass = data.enterToClass;
  var enterActiveClass = data.enterActiveClass;
```

```
var appearClass = data.appearClass;
var appearToClass = data.appearToClass;
var appearActiveClass = data.appearActiveClass;
var beforeEnter = data.beforeEnter;
var enter = data.enter;
var afterEnter = data.afterEnter;
var enterCancelled = data.enterCancelled;
var beforeAppear = data.beforeAppear;
var appear = data.appear;
var afterAppear = data.afterAppear;
var appearCancelled = data.appearCancelled;
var duration = data.duration;

// activeInstance will always be the <transition> component managing this
// transition. One edge case to check is when the <transition> is placed
// as the root node of a child component. In that case we need to check
// <transition>'s parent for appear check.
var context = activeInstance$1;
var transitionNode = activeInstance$1.$vnode;
while (transitionNode && transitionNode.parent) {
  transitionNode = transitionNode.parent;
  context = transitionNode.context;
}

var isAppear = !context._isMounted || !vnode.isRootInsert;

if (isAppear && !appear && appear !== '') {
  return
}

var startClass = isAppear && appearClass
  ? appearClass
  : enterClass;
var activeClass = isAppear && appearActiveClass
  ? appearActiveClass
  : enterActiveClass;
var toClass = isAppear && appearToClass
  ? appearToClass
  : enterToClass;

var beforeEnterHook = isAppear
  ? (beforeAppear || beforeEnter)
  : beforeEnter;
var enterHook = isAppear
  ? (typeof appear === 'function' ? appear : enter)
  : enter;
```

```
var afterEnterHook = isAppear
  ? (afterAppear || afterEnter)
  : afterEnter;
var enterCancelledHook = isAppear
  ? (appearCancelled || enterCancelled)
  : enterCancelled;

var explicitEnterDuration = toNumber$1(
  isObject$1(duration)
    ? duration.enter
    : duration
);

if (process.env.NODE_ENV !== 'production' && explicitEnterDuration != null) {
  checkDuration$1(explicitEnterDuration, 'enter', vnode);
}

var expectsCSS = css !== false && !isIE9$1;
var userWantsControl = getHookArgumentsLength$1(enterHook);

var cb = el._enterCb = once$2(function () {
  if (expectsCSS) {
    removeTransitionClass$1(el, toClass);
    removeTransitionClass$1(el, activeClass);
  }
  if (cb.cancelled) {
    if (expectsCSS) {
      removeTransitionClass$1(el, startClass);
    }
    enterCancelledHook && enterCancelledHook(el);
  } else {
    afterEnterHook && afterEnterHook(el);
  }
  el._enterCb = null;
});

if (!vnode.data.show) {
  // remove pending leave element on enter by injecting an insert hook
  mergeVNodeHook$1(vnode, 'insert', function () {
    var parent = el.parentNode;
    var pendingNode = parent && parent._pending && parent._pending[vnode.key];
    if (pendingNode &&
      pendingNode.tag === vnode.tag &&
      pendingNode.elm._leaveCb
    ) {
      pendingNode.elm._leaveCb();
```

```
      }
      enterHook && enterHook(el, cb);
    });
  }

  // start enter transition
  beforeEnterHook && beforeEnterHook(el);
  if (expectsCSS) {
    addTransitionClass$1(el, startClass);
    addTransitionClass$1(el, activeClass);
    nextFrame$1(function () {
      addTransitionClass$1(el, toClass);
      removeTransitionClass$1(el, startClass);
      if (!cb.cancelled && !userWantsControl) {
        if (isValidDuration$1(explicitEnterDuration)) {
          setTimeout(cb, explicitEnterDuration);
        } else {
          whenTransitionEnds$1(el, type, cb);
        }
      }
    });
  }

  if (vnode.data.show) {
    toggleDisplay && toggleDisplay();
    enterHook && enterHook(el, cb);
  }

  if (!expectsCSS && !userWantsControl) {
    cb();
  }
}

function leave$1 (vnode, rm) {
  var el = vnode.elm;

  // call enter callback now
  if (isDef$1(el._enterCb)) {
    el._enterCb.cancelled = true;
    el._enterCb();
  }

  var data = resolveTransition$1(vnode.data.transition);
  if (isUndef$1(data) || el.nodeType !== 1) {
    return rm()
  }
```

```
/* istanbul ignore if */
if (isDef$1(el._leaveCb)) {
  return
}

var css = data.css;
var type = data.type;
var leaveClass = data.leaveClass;
var leaveToClass = data.leaveToClass;
var leaveActiveClass = data.leaveActiveClass;
var beforeLeave = data.beforeLeave;
var leave = data.leave;
var afterLeave = data.afterLeave;
var leaveCancelled = data.leaveCancelled;
var delayLeave = data.delayLeave;
var duration = data.duration;

var expectsCSS = css !== false && !isIE9$1;
var userWantsControl = getHookArgumentsLength$1(leave);

var explicitLeaveDuration = toNumber$1(
  isObject$1(duration)
    ? duration.leave
    : duration
);

if (process.env.NODE_ENV !== 'production' && isDef$1(explicitLeaveDuration)) {
  checkDuration$1(explicitLeaveDuration, 'leave', vnode);
}

var cb = el._leaveCb = once$2(function () {
  if (el.parentNode && el.parentNode._pending) {
    el.parentNode._pending[vnode.key] = null;
  }
  if (expectsCSS) {
    removeTransitionClass$1(el, leaveToClass);
    removeTransitionClass$1(el, leaveActiveClass);
  }
  if (cb.cancelled) {
    if (expectsCSS) {
      removeTransitionClass$1(el, leaveClass);
    }
    leaveCancelled && leaveCancelled(el);
  } else {
    rm();
```

```
      afterLeave && afterLeave(el);
    }
    el._leaveCb = null;
  });

  if (delayLeave) {
    delayLeave(performLeave);
  } else {
    performLeave();
  }

  function performLeave () {
    // the delayed leave may have already been cancelled
    if (cb.cancelled) {
      return
    }
    // record leaving element
    if (!vnode.data.show) {
      (el.parentNode._pending || (el.parentNode._pending = {}))[(vnode.key)] = vnode;
    }
    beforeLeave && beforeLeave(el);
    if (expectsCSS) {
      addTransitionClass$1(el, leaveClass);
      addTransitionClass$1(el, leaveActiveClass);
      nextFrame$1(function () {
        addTransitionClass$1(el, leaveToClass);
        removeTransitionClass$1(el, leaveClass);
        if (!cb.cancelled && !userWantsControl) {
          if (isValidDuration$1(explicitLeaveDuration)) {
            setTimeout(cb, explicitLeaveDuration);
          } else {
            whenTransitionEnds$1(el, type, cb);
          }
        }
      });
    }
    leave && leave(el, cb);
    if (!expectsCSS && !userWantsControl) {
      cb();
    }
  }
}

// only used in dev mode
function checkDuration$1 (val, name, vnode) {
  if (typeof val !== 'number') {
```

```
    warn$1(
      "<transition> explicit " + name + " duration is not a valid number - " +
      "got " + (JSON.stringify(val)) + ".",
      vnode.context
    );
  } else if (isNaN(val)) {
    warn$1(
      "<transition> explicit " + name + " duration is NaN - " +
      'the duration expression might be incorrect.',
      vnode.context
    );
  }
}

function isValidDuration$1 (val) {
  return typeof val === 'number' && !isNaN(val)
}

/**
 * Normalize a transition hook's argument length. The hook may be:
 * - a merged hook (invoker) with the original in .fns
 * - a wrapped component method (check ._length)
 * - a plain function (.length)
 */
function getHookArgumentsLength$1 (fn) {
  if (isUndef$1(fn)) {
    return false
  }
  var invokerFns = fn.fns;
  if (isDef$1(invokerFns)) {
    // invoker
    return getHookArgumentsLength$1(
      Array.isArray(invokerFns)
        ? invokerFns[0]
        : invokerFns
    )
  } else {
    return (fn._length || fn.length) > 1
  }
}

function _enter$1 (_, vnode) {
  if (vnode.data.show !== true) {
    enter$1(vnode);
  }
}
```

```
var transition$1 = inBrowser$1 ? {
  create: _enter$1,
  activate: _enter$1,
  remove: function remove$$1 (vnode, rm) {
    /* istanbul ignore else */
    if (vnode.data.show !== true) {
      leave$1(vnode, rm);
    } else {
      rm();
    }
  }
} : {};

var platformModules$1 = [
  attrs$1,
  klass$1,
  events$1,
  domProps$1,
  style$1,
  transition$1
];

/*  */

// the directive module should be applied last, after all
// built-in modules have been applied.
var modules$2 = platformModules$1.concat(baseModules$1);

var patch$1 = createPatchFunction$1({ nodeOps: nodeOps$1, modules: modules$2 });

/**
 * Not type checking this file because flow doesn't like attaching
 * properties to Elements.
 */

/* istanbul ignore if */
if (isIE9$1) {
  // http://www.matts411.com/post/internet-explorer-9-oninput/
  document.addEventListener('selectionchange', function () {
    var el = document.activeElement;
    if (el && el.vmodel) {
      trigger$1(el, 'input');
    }
  });
}
```

```
var directive$1 = {
  inserted: function inserted (el, binding$$1, vnode, oldVnode) {
    if (vnode.tag === 'select') {
      // #6903
      if (oldVnode.elm && !oldVnode.elm._vOptions) {
        mergeVNodeHook$1(vnode, 'postpatch', function () {
          directive$1.componentUpdated(el, binding$$1, vnode);
        });
      } else {
        setSelected$1(el, binding$$1, vnode.context);
      }
      el._vOptions = [].map.call(el.options, getValue$1);
    } else if (vnode.tag === 'textarea' || isTextInputType$1(el.type)) {
      el._vModifiers = binding$$1.modifiers;
      if (!binding$$1.modifiers.lazy) {
        // Safari < 10.2 & UIWebView doesn't fire compositionend when
        // switching focus before confirming composition choice
        // this also fixes the issue where some browsers e.g. iOS Chrome
        // fires "change" instead of "input" on autocomplete.
        el.addEventListener('change', onCompositionEnd$1);
        if (!isAndroid$1) {
          el.addEventListener('compositionstart', onCompositionStart$1);
          el.addEventListener('compositionend', onCompositionEnd$1);
        }
        /* istanbul ignore if */
        if (isIE9$1) {
          el.vmodel = true;
        }
      }
    }
  },

  componentUpdated: function componentUpdated (el, binding$$1, vnode) {
    if (vnode.tag === 'select') {
      setSelected$1(el, binding$$1, vnode.context);
      // in case the options rendered by v-for have changed,
      // it's possible that the value is out-of-sync with the rendered options.
      // detect such cases and filter out values that no longer has a matching
      // option in the DOM.
      var prevOptions = el._vOptions;
      var curOptions = el._vOptions = [].map.call(el.options, getValue$1);
      if (curOptions.some(function (o, i) { return !looseEqual$1(o, prevOptions[i]); })) {
        // trigger change event if
        // no matching option found for at least one value
        var needReset = el.multiple
```

```
        ? binding$$1.value.some(function (v) { return hasNoMatchingOption$1(v, curOptions); })
        : binding$$1.value !== binding$$1.oldValue &&
          hasNoMatchingOption$1(binding$$1.value, curOptions);
      if (needReset) {
        trigger$1(el, 'change');
      }
    }
  }
};

function setSelected$1 (el, binding$$1, vm) {
  actuallySetSelected$1(el, binding$$1, vm);
  /* istanbul ignore if */
  if (isIE$1 || isEdge$1) {
    setTimeout(function () {
      actuallySetSelected$1(el, binding$$1, vm);
    }, 0);
  }
}

function actuallySetSelected$1 (el, binding$$1, vm) {
  var value = binding$$1.value;
  var isMultiple = el.multiple;
  if (isMultiple && !Array.isArray(value)) {
    process.env.NODE_ENV !== 'production' && warn$1(
      "<select multiple v-model=\"" + (binding$$1.expression) + "\"> " +
      "expects an Array value for its binding, but got " +
          (Object.prototype.toString.call(value).slice(8, -1)),
      vm
    );
    return
  }
  var selected, option;
  for (var i = 0, l = el.options.length; i < l; i++) {
    option = el.options[i];
    if (isMultiple) {
      selected = looseIndexOf$1(value, getValue$1(option)) > -1;
      if (option.selected !== selected) {
        option.selected = selected;
      }
    } else {
      if (looseEqual$1(getValue$1(option), value)) {
        if (el.selectedIndex !== i) {
          el.selectedIndex = i;
        }
```

```
        return
      }
    }
  }
  if (!isMultiple) {
    el.selectedIndex = -1;
  }
}

function hasNoMatchingOption$1 (value, options) {
  return options.every(function (o) { return !looseEqual$1(o, value); })
}

function getValue$1 (option) {
  return '_value' in option
    ? option._value
    : option.value
}

function onCompositionStart$1 (e) {
  e.target.composing = true;
}

function onCompositionEnd$1 (e) {
  // prevent triggering an input event for no reason
  if (!e.target.composing) { return }
  e.target.composing = false;
  trigger$1(e.target, 'input');
}

function trigger$1 (el, type) {
  var e = document.createEvent('HTMLEvents');
  e.initEvent(type, true, true);
  el.dispatchEvent(e);
}

/*  */

// recursively search for possible transition defined inside the component root
function locateNode$1 (vnode) {
  return vnode.componentInstance && (!vnode.data || !vnode.data.transition)
    ? locateNode$1(vnode.componentInstance._vnode)
    : vnode
}

var show$1 = {
```

```
bind: function bind (el, ref, vnode) {
  var value = ref.value;

  vnode = locateNode$1(vnode);
  var transition$$1 = vnode.data && vnode.data.transition;
  var originalDisplay = el.__vOriginalDisplay =
    el.style.display === 'none' ? '' : el.style.display;
  if (value && transition$$1) {
    vnode.data.show = true;
    enter$1(vnode, function () {
      el.style.display = originalDisplay;
    });
  } else {
    el.style.display = value ? originalDisplay : 'none';
  }
},

update: function update (el, ref, vnode) {
  var value = ref.value;
  var oldValue = ref.oldValue;

  /* istanbul ignore if */
  if (value === oldValue) { return }
  vnode = locateNode$1(vnode);
  var transition$$1 = vnode.data && vnode.data.transition;
  if (transition$$1) {
    vnode.data.show = true;
    if (value) {
      enter$1(vnode, function () {
        el.style.display = el.__vOriginalDisplay;
      });
    } else {
      leave$1(vnode, function () {
        el.style.display = 'none';
      });
    }
  } else {
    el.style.display = value ? el.__vOriginalDisplay : 'none';
  }
},

unbind: function unbind (
  el,
  binding$$1,
  vnode,
  oldVnode,
```

```
    isDestroy
  ) {
    if (!isDestroy) {
      el.style.display = el.__vOriginalDisplay;
    }
  }
};

var platformDirectives$1 = {
  model: directive$1,
  show: show$1
};

/*  */

// Provides transition support for a single element/component.
// supports transition mode (out-in / in-out)

var transitionProps$1 = {
  name: String,
  appear: Boolean,
  css: Boolean,
  mode: String,
  type: String,
  enterClass: String,
  leaveClass: String,
  enterToClass: String,
  leaveToClass: String,
  enterActiveClass: String,
  leaveActiveClass: String,
  appearClass: String,
  appearActiveClass: String,
  appearToClass: String,
  duration: [Number, String, Object]
};

// in case the child is also an abstract component, e.g. <keep-alive>
// we want to recursively retrieve the real component to be rendered
function getRealChild$1 (vnode) {
  var compOptions = vnode && vnode.componentOptions;
  if (compOptions && compOptions.Ctor.options.abstract) {
    return getRealChild$1(getFirstComponentChild$1(compOptions.children))
  } else {
    return vnode
  }
}
```

```
function extractTransitionData$1 (comp) {
  var data = {};
  var options = comp.$options;
  // props
  for (var key in options.propsData) {
    data[key] = comp[key];
  }
  // events.
  // extract listeners and pass them directly to the transition methods
  var listeners = options._parentListeners;
  for (var key$1 in listeners) {
    data[camelize$1(key$1)] = listeners[key$1];
  }
  return data
}

function placeholder$1 (h, rawChild) {
  if (/\d-keep-alive$/.test(rawChild.tag)) {
    return h('keep-alive', {
      props: rawChild.componentOptions.propsData
    })
  }
}

function hasParentTransition$1 (vnode) {
  while ((vnode = vnode.parent)) {
    if (vnode.data.transition) {
      return true
    }
  }
}

function isSameChild$1 (child, oldChild) {
  return oldChild.key === child.key && oldChild.tag === child.tag
}

var Transition$1 = {
  name: 'transition',
  props: transitionProps$1,
  abstract: true,

  render: function render (h) {
    var this$1 = this;

    var children = this.$slots.default;
```

```
if (!children) {
  return
}

// filter out text nodes (possible whitespaces)
children = children.filter(function (c) { return c.tag || isAsyncPlaceholder$1(c); });
/* istanbul ignore if */
if (!children.length) {
  return
}

// warn multiple elements
if (process.env.NODE_ENV !== 'production' && children.length > 1) {
  warn$1(
    '<transition> can only be used on a single element. Use ' +
    '<transition-group> for lists.',
    this.$parent
  );
}

var mode = this.mode;

// warn invalid mode
if (process.env.NODE_ENV !== 'production' &&
  mode && mode !== 'in-out' && mode !== 'out-in'
) {
  warn$1(
    'invalid <transition> mode: ' + mode,
    this.$parent
  );
}

var rawChild = children[0];

// if this is a component root node and the component's
// parent container node also has transition, skip.
if (hasParentTransition$1(this.$vnode)) {
  return rawChild
}

// apply transition data to child
// use getRealChild() to ignore abstract components e.g. keep-alive
var child = getRealChild$1(rawChild);
/* istanbul ignore if */
if (!child) {
  return rawChild
```

```
}

if (this._leaving) {
  return placeholder$1(h, rawChild)
}

// ensure a key that is unique to the vnode type and to this transition
// component instance. This key will be used to remove pending leaving nodes
// during entering.
var id = "__transition-" + (this._uid) + "-";
child.key = child.key == null
  ? child.isComment
    ? id + 'comment'
    : id + child.tag
  : isPrimitive$1(child.key)
    ? (String(child.key).indexOf(id) === 0 ? child.key : id + child.key)
    : child.key;

var data = (child.data || (child.data = {})).transition = extractTransitionData$1(this);
var oldRawChild = this._vnode;
var oldChild = getRealChild$1(oldRawChild);

// mark v-show
// so that the transition module can hand over the control to the directive
if (child.data.directives && child.data.directives.some(function (d) { return d.name ===
       'show'; })) {
  child.data.show = true;
}

if (
  oldChild &&
  oldChild.data &&
  !isSameChild$1(child, oldChild) &&
  !isAsyncPlaceholder$1(oldChild) &&
  // #6687 component root is a comment node
  !(oldChild.componentInstance && oldChild.componentInstance._vnode.isComment)
) {
  // replace old child transition data with fresh one
  // important for dynamic transitions!
  var oldData = oldChild.data.transition = extend$1({}, data);
  // handle transition mode
  if (mode === 'out-in') {
    // return placeholder node and queue update when leave finishes
    this._leaving = true;
    mergeVNodeHook$1(oldData, 'afterLeave', function () {
      this$1._leaving = false;
```

```
        this$1.$forceUpdate();
       });
       return placeholder$1(h, rawChild)
     } else if (mode === 'in-out') {
       if (isAsyncPlaceholder$1(child)) {
         return oldRawChild
       }
       var delayedLeave;
       var performLeave = function () { delayedLeave(); };
       mergeVNodeHook$1(data, 'afterEnter', performLeave);
       mergeVNodeHook$1(data, 'enterCancelled', performLeave);
       mergeVNodeHook$1(oldData, 'delayLeave', function (leave) { delayedLeave = leave; });
     }
   }

   return rawChild
 }
};

/*  */

// Provides transition support for list items.
// supports move transitions using the FLIP technique.

// Because the vdom's children update algorithm is "unstable" - i.e.
// it doesn't guarantee the relative positioning of removed elements,
// we force transition-group to update its children into two passes:
// in the first pass, we remove all nodes that need to be removed,
// triggering their leaving transition; in the second pass, we insert/move
// into the final desired state. This way in the second pass removed
// nodes will remain where they should be.

var props$1 = extend$1({
  tag: String,
  moveClass: String
}, transitionProps$1);

delete props$1.mode;

var TransitionGroup$1 = {
  props: props$1,

  render: function render (h) {
    var tag = this.tag || this.$vnode.data.tag || 'span';
    var map = Object.create(null);
    var prevChildren = this.prevChildren = this.children;
```

```
  var rawChildren = this.$slots.default || [];
  var children = this.children = [];
  var transitionData = extractTransitionData$1(this);

  for (var i = 0; i < rawChildren.length; i++) {
    var c = rawChildren[i];
    if (c.tag) {
      if (c.key != null && String(c.key).indexOf('__vlist') !== 0) {
        children.push(c);
        map[c.key] = c
        ;(c.data || (c.data = {})).transition = transitionData;
      } else if (process.env.NODE_ENV !== 'production') {
        var opts = c.componentOptions;
        var name = opts ? (opts.Ctor.options.name || opts.tag || '') : c.tag;
        warn$1(("<transition-group> children must be keyed: <" + name + ">"));
      }
    }
  }

  if (prevChildren) {
    var kept = [];
    var removed = [];
    for (var i$1 = 0; i$1 < prevChildren.length; i$1++) {
      var c$1 = prevChildren[i$1];
      c$1.data.transition = transitionData;
      c$1.data.pos = c$1.elm.getBoundingClientRect();
      if (map[c$1.key]) {
        kept.push(c$1);
      } else {
        removed.push(c$1);
      }
    }
    this.kept = h(tag, null, kept);
    this.removed = removed;
  }

  return h(tag, null, children)
},

beforeUpdate: function beforeUpdate () {
  // force removing pass
  this.__patch__(
    this._vnode,
    this.kept,
    false, // hydrating
    true // removeOnly (!important avoids unnecessary moves)
```

```
  );
  this._vnode = this.kept;
},

updated: function updated () {
  var children = this.prevChildren;
  var moveClass = this.moveClass || ((this.name || 'v') + '-move');
  if (!children.length || !this.hasMove(children[0].elm, moveClass)) {
    return
  }

  // we divide the work into three loops to avoid mixing DOM reads and writes
  // in each iteration - which helps prevent layout thrashing.
  children.forEach(callPendingCbs$1);
  children.forEach(recordPosition$1);
  children.forEach(applyTranslation$1);

  // force reflow to put everything in position
  // assign to this to avoid being removed in tree-shaking
  // $flow-disable-line
  this._reflow = document.body.offsetHeight;

  children.forEach(function (c) {
    if (c.data.moved) {
      var el = c.elm;
      var s = el.style;
      addTransitionClass$1(el, moveClass);
      s.transform = s.WebkitTransform = s.transitionDuration = '';
      el.addEventListener(transitionEndEvent$1, el._moveCb = function cb (e) {
        if (!e || /transform$/.test(e.propertyName)) {
          el.removeEventListener(transitionEndEvent$1, cb);
          el._moveCb = null;
          removeTransitionClass$1(el, moveClass);
        }
      });
    }
  });
},

methods: {
  hasMove: function hasMove (el, moveClass) {
    /* istanbul ignore if */
    if (!hasTransition$1) {
      return false
    }
    /* istanbul ignore if */
```

```
      if (this._hasMove) {
        return this._hasMove
      }
      // Detect whether an element with the move class applied has
      // CSS transitions. Since the element may be inside an entering
      // transition at this very moment, we make a clone of it and remove
      // all other transition classes applied to ensure only the move class
      // is applied.
      var clone = el.cloneNode();
      if (el._transitionClasses) {
        el._transitionClasses.forEach(function (cls) { removeClass$1(clone, cls); });
      }
      addClass$1(clone, moveClass);
      clone.style.display = 'none';
      this.$el.appendChild(clone);
      var info = getTransitionInfo$1(clone);
      this.$el.removeChild(clone);
      return (this._hasMove = info.hasTransform)
    }
  }
};

function callPendingCbs$1 (c) {
  /* istanbul ignore if */
  if (c.elm._moveCb) {
    c.elm._moveCb();
  }
  /* istanbul ignore if */
  if (c.elm._enterCb) {
    c.elm._enterCb();
  }
}

function recordPosition$1 (c) {
  c.data.newPos = c.elm.getBoundingClientRect();
}

function applyTranslation$1 (c) {
  var oldPos = c.data.pos;
  var newPos = c.data.newPos;
  var dx = oldPos.left - newPos.left;
  var dy = oldPos.top - newPos.top;
  if (dx || dy) {
    c.data.moved = true;
    var s = c.elm.style;
    s.transform = s.WebkitTransform = "translate(" + dx + "px," + dy + "px)";
```

```
    s.transitionDuration = '0s';
  }
}

var platformComponents$1 = {
  Transition: Transition$1,
  TransitionGroup: TransitionGroup$1
};

/*  */

// install platform specific utils
Vue$3$1.config.mustUseProp = mustUseProp$1;
Vue$3$1.config.isReservedTag = isReservedTag$1;
Vue$3$1.config.isReservedAttr = isReservedAttr$1;
Vue$3$1.config.getTagNamespace = getTagNamespace$1;
Vue$3$1.config.isUnknownElement = isUnknownElement$1;

// install platform runtime directives & components
extend$1(Vue$3$1.options.directives, platformDirectives$1);
extend$1(Vue$3$1.options.components, platformComponents$1);

// install platform patch function
Vue$3$1.prototype.__patch__ = inBrowser$1 ? patch$1 : noop$2;

// public mount method
Vue$3$1.prototype.$mount = function (
  el,
  hydrating
) {
  el = el && inBrowser$1 ? query$1(el) : undefined;
  return mountComponent$1(this, el, hydrating)
};

// devtools global hook
/* istanbul ignore next */
Vue$3$1.nextTick(function () {
  if (config$2.devtools) {
    if (devtools$1) {
      devtools$1.emit('init', Vue$3$1);
    } else if (process.env.NODE_ENV !== 'production' && isChrome$1) {
      console[console.info ? 'info' : 'log'](
        'Download the Vue Devtools extension for a better development experience:\n' +
        'https://github.com/vuejs/vue-devtools'
      );
    }
```

```
  }
  if (process.env.NODE_ENV !== 'production' &&
    config$2.productionTip !== false &&
    inBrowser$1 && typeof console !== 'undefined'
  ) {
    console[console.info ? 'info' : 'log'](
      "You are running Vue in development mode.\n" +
      "Make sure to turn on production mode when deploying for production.\n" +
      "See more tips at https://vuejs.org/guide/deployment.html"
    );
  }
}, 0);

var dataGenesis = [ { Place:"Tigris",
    Latitude:"38.433333",
    Longitude:"39.772778",
    Weight:"2",
    Team:"Good",
    Comments:"One of the four rivers of Eden",
    Related:"1" },
  { Place:"Euphrates",
    Latitude:"31.005",
    Longitude:"47.441944",
    Weight:"3",
    Team:"Good",
    Comments:"One of the four rivers of Eden; the river whose neighboring land God gave to
          Abram's sons; ",
    Related:"1" },
  { Place:"Ararat",
    Latitude:"39.701883",
    Longitude:"44.298317",
    Weight:"",
    Team:"",
    Comments:"",
    Related:"" },
  { Place:"Babylon",
    Latitude:"32.536389",
    Longitude:"44.420833",
    Weight:"",
    Team:"Neutral",
    Comments:"One of Cush's kingdom",
    Related:"" },
  { Place:"Uruk",
    Latitude:"31.322222",
    Longitude:"45.636111",
    Weight:"",
```

Team:"",
Comments:"",
Related:"" },
{ Place:"Nineveh",
Latitude:"36.359444",
Longitude:"43.152778",
Weight:"",
Team:"",
Comments:"",
Related:"" },
{ Place:"Sidon",
Latitude:"33.560556",
Longitude:"35.398056",
Weight:"3",
Team:"Neutral",
Comments:"Place of Canaanite clans",
Related:"" },
{ Place:"Gaza",
Latitude:"31.516667",
Longitude:"34.45",
Weight:"1",
Team:"Neutral",
Comments:"Place of Canaanite clans",
Related:"" },
{ Place:"Babel",
Latitude:"32.536389",
Longitude:"44.420833",
Weight:"",
Team:"",
Comments:"",
Related:"" },
{ Place:"Ur",
Latitude:"30.9625",
Longitude:"46.103056",
Weight:"3",
Team:"Neutral",
Comments:"",
Related:"" },
{ Place:"Harran",
Latitude:"36.8775",
Longitude:"39.033889",
Weight:"7",
Team:"Neutral",
Comments:"",
Related:"" },
{ Place:"Shechem",

Latitude:"32.203056",
Longitude:"35.311111",
Weight:"4",
Team:"Neutral",
Comments:"",
Related:"" },
{ Place:"Bethel",
Latitude:"31.942",
Longitude:"35.222",
Weight:"",
Team:"Neutral",
Comments:"",
Related:"" },
{ Place:"Ai",
Latitude:"31.916944",
Longitude:"35.261111",
Weight:"",
Team:"",
Comments:"",
Related:"" },
{ Place:"Negev",
Latitude:"30.5",
Longitude:"34.917",
Weight:"",
Team:"",
Comments:"",
Related:"" },
{ Place:"Egypt",
Latitude:"26",
Longitude:"30",
Weight:"84",
Team:"",
Comments:"",
Related:"" },
{ Place:"Jordan",
Latitude:"31.95",
Longitude:"35.933333",
Weight:"5",
Team:"",
Comments:"",
Related:"" },
{ Place:"Zoar",
Latitude:"31.046944",
Longitude:"35.5025",
Weight:"",
Team:"",

Comments:"",
Related:"" },
{ Place:"Hebron",
Latitude:"31.533333",
Longitude:"35.095",
Weight:"",
Team:"",
Comments:"",
Related:"" },
{ Place:"Elam",
Latitude:"29.9",
Longitude:"52.4",
Weight:"",
Team:"",
Comments:"",
Related:"" },
{ Place:"Valley of Siddim (Dead Sea Valley)",
Latitude:"31.5",
Longitude:"35.5",
Weight:"",
Team:"",
Comments:"",
Related:"" },
{ Place:"Kadesh",
Latitude:"30.648333",
Longitude:"34.422222",
Weight:"",
Team:"",
Comments:"",
Related:"" },
{ Place:"Damascus",
Latitude:"33.513056",
Longitude:"36.291944",
Weight:"2",
Team:"Neutral",
Comments:"",
Related:"" },
{ Place:"Shaveh",
Latitude:"35.172222",
Longitude:"48.684167",
Weight:"",
Team:"",
Comments:"",
Related:"" },
{ Place:"Desert of Beersheba",
Latitude:"31.249772",

Longitude:"34.799708",
Weight:"12",
Team:"Good",
Comments:"Place where Abraham talked to God and sacrifices were made",
Related:"" },
{ Place:"Deser of Paran",
Latitude:"30.363097",
Longitude:"35.153597",
Weight:"",
Team:"",
Comments:"",
Related:"" },
{ Place:"Hebron",
Latitude:"31.533333",
Longitude:"35.095",
Weight:"",
Team:"",
Comments:"",
Related:"" },
{ Place:"Mamre",
Latitude:"31.556536",
Longitude:"35.105336",
Weight:"",
Team:"",
Comments:"",
Related:"" },
{ Place:"Machpelah",
Latitude:"31.524744",
Longitude:"35.110726",
Weight:"",
Team:"",
Comments:"",
Related:"" },
{ Place:"Israel",
Latitude:"31",
Longitude:"35",
Weight:"4",
Team:"",
Comments:"",
Related:"" },
{ Place:"Bethlehem",
Latitude:"31.703056",
Longitude:"35.195556",
Weight:"",
Team:"",
Comments:"",

```
    Related:"" },
  { Place:"Moab",
    Latitude:"31.9",
    Longitude:"35.75",
    Weight:"",
    Team:"",
    Comments:"",
    Related:"" },
  { Place:"Dothan",
    Latitude:"32.413528",
    Longitude:"35.239861",
    Weight:"2",
    Team:"",
    Comments:"",
    Related:"" },
  { Place:"Nile",
    Latitude:"30.166667",
    Longitude:"31.1",
    Weight:"3",
    Team:"",
    Comments:"",
    Related:"" } ];

var placeData = [ { Place:"Norway",
    Latitude:"61.000000",
    Longitude:"8.000000",
    Weight:"2",
    Team:"Negative",
    Content:"\"Thus Satan talking to his nearest mate\r\nWith head up-lift above the wave, and
        eyes\r\nThat sparkling blazed, his other parts besides\r\nProne on the flood, extended
        long and large\r\nLay floating many a rood, in bulk as huge\r\nAs whom the fables name
        of monstrous size,\r\nTitanian, or Earth-born, that war's on Jove,\r\nBriareos or Typhon,
        whom the Den\r\nBy ancient Tarsus held, or that sea-beast\r\nLeviathan, which God of
        all his works\r\nCreated hugest that swim the Ocean stream:\r\nHim haply slumbering on
        the Norway foam\r\nThe Pilot of some small night-foundered skiff,\r\nDeeming some
        island, oft, as sea-men tell,\r\nWith fixed anchor in his scaly rind\r\nMoors by his side
        under the lee, while night\r\nInvests the sea, and wished morn delays:\r\nSo stretched out
        huge in length the Arch-fiend lay\r\nChained on the burning lake\" (1.192-210)
        [negative]/ \"His Spear, to equal which the tallest pine\r\nHewn on Norwegian hills, to be
        the mast\r\nOf some great admiral, were but a wand,\r\nHe walked with to support
        uneasy steps\r\nOver the burning marle\" (1.292-296) [negative]",
    Comments:"Associated through simile with the burning lake to which Satan was chained. /
        Habitat of pines connected by simile to Satan's spear.",
    Related:"three",
    Type:"",
    Negative:"2",
```

Postive:"0",
Neutral:"0",
"Topographical features":"water; hill",
"Topographical features (general)":"water; hill" },
{ Place:"Etna",
Latitude:"37.755000",
Longitude:"14.995000",
Weight:"1",
Team:"Negative",
Content:"\"Then with expanded wings he [Satan] steers his flight\r\nAloft, incumbent on the dusky air\r\nThat felt unusual weight, till on dry Land\r\nHe lights, if it were land that ever burned\r\nWith solid, as the lake with liquid fire;\r\nAnd such appeared in hue, as when the force\r\nOf subterranean wind transports a hill\r\nTorn from Pelorus, or the shattered side\r\nOf thundering Aetna, whose combustible\r\nAnd fueled entrails thence conceiving fire,\r\nSublimed with mineral fury, aid the winds,\r\nAnd leave a singed bottom all involved\r\nWith stench and smoke: Such resting found the sole\r\nOf unblest feet.\" (1.225-238) [negative]",
Comments:"Mount Etna, an active stratovolcano. Assosiated with ground on which fallen angels stand on in Hell.",
Related:"four",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"mountain",
"Topographical features (general)":"mountain" },
{ Place:"Vallombrosa",
Latitude:"43.731944",
Longitude:"11.557778",
Weight:"1",
Team:"Negative",
Content:"\"Nathless he [Satan] so endured, till on the beach\r\nOf that inflamed sea, he stood and called\r\nHis Legions, angel forms, who lay entranced\r\nThick as autumnal leaves that strew the brooks\r\nIn Vallombrosa, where the Etrurian shades\r\nHigh overarched embower\" (1.299-304) [negative]",
Comments:"Tuscan valley. \"Shades\" connects foliage and the inhabitants of Hell (Satan's followers).",
Related:"six",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"valley",
"Topographical features (general)":"region" },
{ Place:"Nile",
Latitude:"30.166667",

Longitude:"31.100000",
Weight:"4",
Team:"Neutral",
Content:"\"They heard, and were abashed, and up they sprung\r\nUpon the wing, as when men wont to watch\r\nOn duty, sleeping found by whom they dread,\r\nRouse and bestir themselves ere well awake.\r\nNor did they not perceive the evil plight\r\nIn which they were, or the fierce pains not feel;\r\nYet to their general's voice they soon obeyed\r\nInnumerable. As when the potent rod\r\nOf Amrams son in Egypt's evil day\r\nWaved round the coast, up called a pitchy cloud\r\nOf locusts, warping on the eastern wind,\r\nThat ore the realm of impious Pharaoh hung\r\nLike night, and darkened all the land of Nile:\r\nSo numberless were those bad angels seen\r\nHovering on wing under the cope of Hell\r\nedwixt upper, nether, and surrounding fires\" (1.331-346) [negative]; \"Peor his other name, when he enticed\r\nIsrael in Sittim on their march from Nile\r\nTo do him wanton rites, which cost them woe.\" (1.412-414) [neutral]; \"In a dark age, against example good,\r\nAgainst allurement, custom, and a world\r\nOffended: fearless of reproach and scorn,\r\nThe grand-child, with twelve sons increased, departs\r\nFrom Canaan, to a land hereafter called\r\nEgypt, divided by the river Nile;\r\nSee where it flows, disgorging at seven mouths\r\nInto the sea\" (11.809-11.816) [neutral]; \" This patriarch blest,\r\nWhom faithful Abraham due time shall call,\r\nA son, and of his son a grand-child, leaves;\r\nLike him in faith, in wisdom, and renown:\r\nThe grandchild, with twelve sons increased, departs\r\nFrom Canaan to a land hereafter called\r\nEgypt, divided by the river Nile\r\nSee where it flows, disgorging at seven mouths\r\nInto the sea.\" (12.151-159) [neutral]",
Comments:"Site of locusts sent by Moses to afflict Egypt. / Part of Michael's account of Biblical generations",
Related:"nine",
Type:"B",
Negative:"1",
Postive:"0",
Neutral:"3",
"Topographical features":"region; region; river; river",
"Topographical features (general)":"river" },
{ Place:"Rhene",
Latitude:"51.981667",
Longitude:"4.080556",
Weight:"1",
Team:"Negative",
Content:"\"Waved round the coast, up called a pitchy cloud\r\nOf locusts, warping on the eastern wind,\r\nThat ore the realm of impious Pharaoh hung\r\nLike night, and darkened all the land of Nile:\r\nSo numberless were those bad angels seen\r\nHovering on wing under the cope of Hell\r\nedwixt upper, nether, and surrounding fires;\r\nTill, as a signal given, the uplifted spear\r\nOf their great sultan waving to direct\r\nTheir course, in even balance down they light\r\nOn the firm brimstone, and fill all the plain;\r\nA multitude, like which the populous north\r\nPoured never from her frozen loins, to pass\r\nRhene or the Danaw, when her barbarous sons\r\nCame like a deluge on the south, and spread\r\nBeneath Gibraltar to the Libyan sands.\" (1.340-355) [negative]",

Comments:"River invoked in simile comparing fallen angels to tribes (Goths, Huns, Vandals) that attacked the Roman Empire from the third to fifth centuries, which they uncountably outnumber.",
Related:"ten",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Danaw",
Latitude:"45.217500",
Longitude:"29.761389",
Weight:"1",
Team:"Negative",
Content:"\"Waved round the coast, up called a pitchy cloud\r\nOf locusts, warping on the eastern wind,\r\nThat ore the realm of impious Pharaoh hung\r\nLike night, and darkened all the land of Nile:\r\nSo numberless were those bad angels seen\r\nHovering on wing under the cope of Hell\r\nedwixt upper, nether, and surrounding fires;\r\nTill, as a signal given, the uplifted spear\r\nOf their great sultan waving to direct\r\nTheir course, in even balance down they light\r\nOn the firm brimstone, and fill all the plain;\r\nA multitude, like which the populous north\r\nPoured never from her frozen loins, to pass\r\nRhene or the Danaw, when her barbarous sons\r\nCame like a deluge on the south, and spread\r\nBeneath Gibraltar to the Libyan sands.\" (1.340-355) [negative]",
Comments:"River invoked in simile comparing fallen angels to tribes (Goths, Huns, Vandals) that attacked the Roman Empire from the third to fifth centuries, which they uncountably outnumber.",
Related:"ten",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Rabba",
Latitude:"31.266667",
Longitude:"35.733333",
Weight:"1",
Team:"Negative",
Content:"\"First Moloch, horrid king besmeared with blood\r\nOf human sacrifice, and parents tears,\r\nThough for the noise of drums and timbrels loud\r\nTheir children’s cries unheard, that past through fire\r\nTo his grim idol. Him the Ammonite\r\nWorshipped in Rabba and her watery plain,\r\nIn Argob and in Basan, to the stream\r\nOf utmost Arnon. Nor content with such\r\nAudacious neighborhood, the wisest heart\r\nOf Solomon he led by fraud to build\r\nHis temple right against the temple of God\r\nOn that opprobrious

hill, and made his grove\r\nThe pleasant Valley of Hinnom, Tophet thence\r\nAnd black Gehenna called, the type of Hell.\" (1.392-405) [negative]",
Comments:"Associated with idol worship, as of Moloch, \"besmeared with blood / Of human sacrifice.\"",
Related:"eleven",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Argob",
Latitude:"32.969500",
Longitude:"36.455383",
Weight:"1",
Team:"Negative",
Content:"\"First Moloch, horrid king besmeared with blood\r\nOf human sacrifice, and parents tears,\r\nThough for the noise of drums and timbrels loud\r\nTheir children’s cries unheard, that past through fire\r\nTo his grim idol. Him the Ammonite\r\nWorshipped in Rabba and her watery plain,\r\nIn Argob and in Basan, to the stream\r\nOf utmost Arnon. Nor content with such\r\nAudacious neighborhood, the wisest heart\r\nOf Solomon he led by fraud to build\r\nHis temple right against the temple of God\r\nOn that opprobrious hill, and made his grove\r\nThe pleasant Valley of Hinnom, Tophet thence\r\nAnd black Gehenna called, the type of Hell.\" (1.392-405) [negative]",
Comments:"Associated with idol worship, as of Moloch, \"besmeared with blood / Of human sacrifice.\"",
Related:"eleven",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Basan",
Latitude:"32.500000",
Longitude:"35.500000",
Weight:"1",
Team:"Negative",
Content:"\"First Moloch, horrid king besmeared with blood\r\nOf human sacrifice, and parents tears,\r\nThough for the noise of drums and timbrels loud\r\nTheir children’s cries unheard, that past through fire\r\nTo his grim idol. Him the Ammonite\r\nWorshipped in Rabba and her watery plain,\r\nIn Argob and in Basan, to the stream\r\nOf utmost Arnon. Nor content with such\r\nAudacious neighborhood, the wisest heart\r\nOf Solomon he led by fraud to build\r\nHis temple right against the temple of God\r\nOn that opprobrious hill, and made his grove\r\nThe pleasant Valley of Hinnom, Tophet thence\r\nAnd black Gehenna called, the type of Hell.\" (1.392-405) [negative]",

Comments:"Associated with idol worship, as of Moloch, \"besmeared with blood / Of human sacrifice.\"",
Related:"eleven",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Arnon",
Latitude:"31.465833",
Longitude:"35.573333",
Weight:"1",
Team:"Negative",
Content:"\"First Moloch, horrid king besmeared with blood\r\nOf human sacrifice, and parents tears,\r\nThough for the noise of drums and timbrels loud\r\nTheir children's cries unheard, that past through fire\r\nTo his grim idol. Him the Ammonite\r\nWorshipped in Rabba and her watery plain,\r\nIn Argob and in Basan, to the stream\r\nOf utmost Arnon. Nor content with such\r\nAudacious neighborhood, the wisest heart\r\nOf Solomon he led by fraud to build\r\nHis temple right against the temple of God\r\nOn that opprobrious hill, and made his grove\r\nThe pleasant Valley of Hinnom, Tophet thence\r\nAnd black Gehenna called, the type of Hell.\" (1.392-405) [negative]",
Comments:"Associated with idol worship, as of Moloch, \"besmeared with blood / Of human sacrifice.\"",
Related:"eleven",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Nebo",
Latitude:"31.766667",
Longitude:"35.725000",
Weight:"1",
Team:"Negative",
Content:"\"Next Chemos, the obscene dread of Moab's sons,\r\nFrom Aroar to Nebo, and the wild\r\nOf Southmost Abarim; in Hesebon\r\nAnd Horonaim, Seon's realm, beyond\r\nThe flowery dale of Sibma clad with vines,\r\nAnd Eleale to the Asphaltic pool.\r\nPeor his other name, when he enticed\r\nIsrael in Sittim on their march from Nile\r\nTo do him wanton rites, which cost them woe.\r\nYet thence his lustful orgies he enlarged\r\nEven to that hill of scandal, by the grove\r\nOf Moloch homicide, lust hard by hate;\r\nTill good Josiah drove them thence to Hell.\" (1.406-418) [negative]",
Comments:"Associated with idol worship, as of Chemos.",
Related:"eleven",
Type:"",

Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"mountain",
"Topographical features (general)":"mountain" },
{ Place:"Hesebon",
Latitude:"31.818611",
Longitude:"35.798889",
Weight:"1",
Team:"Negative",
Content:"\"Next Chemos, the obscene dread of Moab's sons,\r\nFrom Aroar to Nebo, and the wild\r\nOf Southmost Abarim; in Hesebon\r\nAnd Horonaim, Seon's realm, beyond\r\nThe flowery dale of Sibma clad with vines,\r\nAnd Eleale to the Asphaltic pool.\r\nPeor his other name, when he enticed\r\nIsrael in Sittim on their march from Nile\r\nTo do him wanton rites, which cost them woe.\r\nYet thence his lustful orgies he enlarged\r\nEven to that hill of scandal, by the grove\r\nOf Moloch homicide, lust hard by hate;\r\nTill good Josiah drove them thence to Hell.\" (1.406-418) [negative]",
Comments:"Associated with idol worship, as of Chemos.",
Related:"eleven",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Abarim",
Latitude:"31.753900",
Longitude:"35.715200",
Weight:"1",
Team:"Negative",
Content:"\"Next Chemos, the obscene dread of Moab's sons,\r\nFrom Aroar to Nebo, and the wild\r\nOf Southmost Abarim; in Hesebon\r\nAnd Horonaim, Seon's realm, beyond\r\nThe flowery dale of Sibma clad with vines,\r\nAnd Eleale to the Asphaltic pool.\r\nPeor his other name, when he enticed\r\nIsrael in Sittim on their march from Nile\r\nTo do him wanton rites, which cost them woe.\r\nYet thence his lustful orgies he enlarged\r\nEven to that hill of scandal, by the grove\r\nOf Moloch homicide, lust hard by hate;\r\nTill good Josiah drove them thence to Hell.\" (1.406-418) [negative]",
Comments:"Associated with idol worship, as of Chemos.",
Related:"eleven",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"mountain",
"Topographical features (general)":"mountain" },
{ Place:"Asphaltic Pool",

Latitude:"31.500000",
Longitude:"35.500000",
Weight:"1",
Team:"Negative",
Content:"\"Next Chemos, the obscene dread of Moab's sons,\r\nFrom Aroar to Nebo, and the wild\r\nOf Southmost Abarim; in Hesebon\r\nAnd Horonaim, Seon's realm, beyond\r\nThe flowery dale of Sibma clad with vines,\r\nAnd Eleale to the Asphaltic pool.\r\nPeor his other name, when he enticed\r\nIsrael in Sittim on their march from Nile\r\nTo do him wanton rites, which cost them woe.\r\nYet thence his lustful orgies he enlarged\r\nEven to that hill of scandal, by the grove\r\nOf Moloch homicide, lust hard by hate;\r\nTill good Josiah drove them thence to Hell.\" (1.406-418) [negative]",
Comments:"Associated with idol worship, as of Chemos.",
Related:"eleven",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"sea",
"Topographical features (general)":"water" },
{ Place:"Euphrates",
Latitude:"31.005000",
Longitude:"47.441944",
Weight:"2",
Team:"Negative",
Content:"\"With these came they, who from the bordering flood\r\nOf old Euphrates to the brook that parts\r\nEgypt from Syrian ground, had general names\r\nOf Baalim and Ashtaroth, those male,\r\nThese feminine.\" (1.419-423) [negative]/ \"Witness the irreverent son\r\nOf him who built the ark; who, for the shame\r\nDone to his father, heard this heavy curse,\r\nServant of servants, on his vicious race.\r\nThus will this latter, as the former world,\r\nStill tend from bad to worse; till God at last,\r\nWearied with their iniquities, withdraw\r\nHis presence from among them, and avert\r\nHis holy eyes; resolving from thenceforth\r\nTo leave them to their own polluted ways;\r\nAnd one peculiar nation to select\r\nFrom all the rest, of whom to be invoked,\r\nA nation from one faithful man to spring:\r\nHim on this side Euphrates yet residing,\r\nBred up in idol-worship: Oh, that men\r\n(Canst thou believe?) should be so stupid grown,\r\nWhile yet the patriarch lived, who 'scaped the flood,\r\nAs to forsake the living God, and fall\r\nTo worship their own work in wood and stone\r\nFor Gods!\" (12.101-120) [negative]",
Comments:"Associated with pagan cults, as of Baal and Ashtaroth.",
Related:"eleven",
Type:"",
Negative:"2",
Postive:"0",
Neutral:"0",
"Topographical features":"river",
"Topographical features (general)":"water" },
{ Place:"Syria",

Latitude:"33.500000",
Longitude:"36.300000",
Weight:"2",
Team:"Negative",
Content:"\"With these came they, who from the bordering flood\r\nOf old Euphrates to the brook that parts\r\nEgypt from Syrian ground, had general names\r\nOf Baalim and Ashtaroth, those male,\r\nThese feminine.\" (1.419-423) [negative]; \"Thammuz came next behind,\r\nWhose annual wound in Lebanon allured\r\nThe Syrian damsels to lament his fate\r\nIn amorous ditties all a summer's day,\r\nWhile smooth Adonis from his native rock\r\nRan purple to the sea, supposed with blood\r\nOf Thammuz yearly wounded: the love-tale\r\nInfected Sion's daughters with like heat,\r\nWhose wanton passions in the sacred porch\r\nEzekiel saw, when by the vision led\r\nHis eye surveyed the dark idolatries\r\nOf alienated Judah.\" (1.446-457) [negative];",
Comments:"Assosiated with pagan cults, including wordship of Thammuz, the Phoenician original of Adonis, whose death signified the change of season and for whom is named a river (in modern Lebanon) that turns red after the summer solace (supposedly with the blood of Adonis's wound).",
Related:"thirteen",
Type:"",
Negative:"2",
Postive:"0",
Neutral:"0",
"Topographical features":"regio",
"Topographical features (general)":"region" },
{ Place:"Israel",
Latitude:"31.000000",
Longitude:"35.000000",
Weight:"4",
Team:"Negative",
Content:"\"Next Chemos, the obscene dread of Moab's sons,\r\nFrom Aroar to Nebo, and the wild\r\nOf Southmost Abarim; in Hesebon\r\nAnd Horonaim, Seon's realm, beyond\r\nThe flowery dale of Sibma clad with vines,\r\nAnd Eleale to the Asphaltic pool.\r\nPeor his other name, when he enticed\r\nIsrael in Sittim on their march from Nile\r\nTo do him wanton rites, which cost them woe.\r\nYet thence his lustful orgies he enlarged\r\nEven to that hill of scandal, by the grove\r\nOf Moloch homicide, lust hard by hate;\r\nTill good Josiah drove them thence to Hell.\" (1.406-418) [negative] / \"For those the race of Israel oft forsook \r\nTheir living strength, and unfrequented left \r\nHis righteous altar, bowing lowly down \r\nTo bestial gods; for which their heads as low \r\nBowed down in battle, sunk before the spear \r\nOf despicable foes.\" (1.432-437) [negative] / \"Nor did Israel escape\r\nThe infection [of idol worship] when their borrowed gold composed\r\nThe calf in Oreb: and the rebel king\r\nDoubled that sin in Bethel and in Dan,\r\nLikening his Maker to the grazed ox,\r\nJehovah, who in one night when he passed\r\nFrom Egypt marching, equaled with one stroke\r\nBoth her first born and all her bleating gods.\" (1.482-489) [negative] / \"The rest \r\nWere long to tell; how many battles fought \r\nHow many kings destroyed; and kingdoms won; \r\nOr how the sun shall in mid Heaven stand still \r\nA day entire, and night's due course adjourn,

\r\nMan's voice commanding, 'Sun, in Gibeon stand, \r\n'And thou moon in the vale of Aialon, \r\n'Till Israel overcome, so call the third \r\nFrom Abraham, son of Isaac; and from him \r\nHis whole descent, who thus shall Canaan win.\" (12.260-269) [neutral]",
Comments:"Associated with pagan cults, as of Baal and Ashtaroth. / Chosen nation derived from Abraham; vanquisher of rival nations.",
Related:"eleven /phthree",
Type:"B",
Negative:"4",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Azotus",
Latitude:"31.800000",
Longitude:"34.650000",
Weight:"1",
Team:"Negative",
Content:"\"Next came one\r\nWho mourned in earnest, when the captive Ark\r\nMaimed his brute image, head and hands lopped off\r\nIn his own temple, on the grunsel edge,\r\nWhere he fell flat, and shamed his worshipers:\r\nDagon his name, sea monster, upward man\r\nAnd downward fish: yet had his temple high\r\nReared in Azotus, dreaded through the coast\r\nOf Palestine, in Gath and Ascalon\r\nAnd Accaron and Gaza's frontier bounds.\" (1.457-466) [negative]",
Comments:"Site of temple of the Dagon, pagan god worshipped by the Philistines.",
Related:"fourteen",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Damascus",
Latitude:"33.500000",
Longitude:"36.300000",
Weight:"1",
Team:"Negative",
Content:"\"Him followed Rimmon, whose delightful seat\r\nWas fair Damascus, on the fertile banks\r\nOf Abbana and Pharphar, lucid streams.\r\nHe also against the house of God was bold:\r\nA leper once he lost and gained a king,\r\nAhaz his sottish conqueror, whom he drew\r\nGods altar to disparage and displace\r\nFor one of Syrian mode, whereon to burn\r\nHis odious offerings, and adore the gods\r\nWhom he had vanquished.\" (1.467-476) [negative]",
Comments:"Damascus, located between the rivers Abbana and Pharphar, the seat of the pagan cult of Rimmon.",
Related:"fifteen",
Type:"",

Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Bethel",
Latitude:"31.942000",
Longitude:"35.222000",
Weight:"1",
Team:"Negative",
Content:"\"Nor did Israel escape\r\nThe infection [of idol worship] when their borrowed gold composed\r\nThe calf in Oreb: and the rebel king\r\nDoubled that sin in Bethel and in Dan,\r\nLikening his Maker to the grazed ox,\r\nJehovah, who in one night when he passed\r\nFrom Egypt marching, equaled with one stroke\r\nBoth her first born and all her bleating gods.\" (1.482-489) [negative]",
Comments:"Associated with idol worship, as of the Hebrews' worship of the golden calf.",
Related:"eleven",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Dan",
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Longitude:"35.652000",
Weight:"1",
Team:"Negative",
Content:"\"Nor did Israel escape\r\nThe infection [of idol worship] when their borrowed gold composed\r\nThe calf in Oreb: and the rebel king\r\nDoubled that sin in Bethel and in Dan,\r\nLikening his Maker to the grazed ox,\r\nJehovah, who in one night when he passed\r\nFrom Egypt marching, equaled with one stroke\r\nBoth her first born and all her bleating gods.\" (1.482-489) [negative]",
Comments:"Associated with idol worship, as of the Hebrews' worship of the golden calf.",
Related:"eleven",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Abbana",
Latitude:"33.513542",
Longitude:"36.305000",
Weight:"1",
Team:"Negative",

Content:"\"Him followed Rimmon, whose delightful seat\r\nWas fair Damascus, on the fertile banks\r\nOf Abbana and Pharphar, lucid streams.\r\nHe also against the house of God was bold:\r\nA leper once he lost and gained a king,\r\nAhaz his sottish conqueror, whom he drew\r\nGods altar to disparage and displace\r\nFor one of Syrian mode, whereon to burn\r\nHis odious offerings, and adore the gods\r\nWhom he had vanquished.\" (1.467-476) [negative]",
Comments:"Damascus, located between the rivers Abbana and Pharphar, the seat of the pagan cult of Rimmon.",
Related:"fifteen",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"river",
"Topographical features (general)":"water" },
{ Place:"Pharphar",
Latitude:"33.416667",
Longitude:"36.133333",
Weight:"1",
Team:"Negative",
Content:"\"Him followed Rimmon, whose delightful seat\r\nWas fair Damascus, on the fertile banks\r\nOf Abbana and Pharphar, lucid streams.\r\nHe also against the house of God was bold:\r\nA leper once he lost and gained a king,\r\nAhaz his sottish conqueror, whom he drew\r\nGods altar to disparage and displace\r\nFor one of Syrian mode, whereon to burn\r\nHis odious offerings, and adore the gods\r\nWhom he had vanquished.\" (1.467-476) [negative]",
Comments:"Damascus, located between the rivers Abbana and Pharphar, the seat of the pagan cult of Rimmon.",
Related:"fifteen",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"river",
"Topographical features (general)":"water" },
{ Place:"Gibeah",
Latitude:"31.823372",
Longitude:"35.231150",
Weight:"1",
Team:"Negative",
Content:"\"Belial came last, then whom a spirit more lewd\r\nFell not from Heaven, or more gross to love\r\nVice for itself: To him no temple stood\r\nOr altar smoked; yet who more oft then he\r\nIn temples and at altars, when the priest\r\nTurns atheist, as did Ely's sons, who filled\r\nWith lust and violence the house of God.\r\nIn courts and palaces he also reigns\r\nAnd in luxurious cities, where the noise\r\nOf riot ascends above their loftiest towers,\r\nAnd injury and outrage: And when night\r\nDarkens the streets, then wander

forth the sons\r\nOf Belial, flown with insolence and wine.\r\nWitness the streets of Sodom, and that night\r\nIn Gibeah, when the hospitable door\r\nExposed a matron to avoid worse rape.\" (1.490-505) [negative]",
Comments:"Site of the rape of the Levite's concubine (Judges 19). Associated with Sodom and comparable story of Lot's daughters (Genesis 19).",
Related:"sixteen",
Type:"B",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"hill",
"Topographical features (general)":"hill" },
{ Place:"Crete",
Latitude:"35.210000",
Longitude:"24.910000",
Weight:"1",
Team:"Negative",
Content:"\"Titan, Heaven’s first born,\r\nWith his enormous brood, and birthright seized\r\nBy younger Saturn, he from mightier Jove\r\nHis own and Rhea's son like measure found;\r\nSo Jove usurping reigned: these first in Crete\r\nAnd Ida known, thence on the snowy top\r\nOf cold Olympus ruled the middle air\r\nTheir highest Heaven; or on the Delphian cliff,\r\nOr in Dodona, and through all the bounds\r\nOf Doric land; or who with Saturn old\r\nFled over Adria to the Hesperian fields,\r\nAnd ore the Celtic roamed the utmost isles.\" (1.510-521) [negative]",
Comments:"Seat of Greek gods and their succeessive usurpations.",
Related:"seventeen",
Type:"M",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"island",
"Topographical features (general)":"island" },
{ Place:"Ida",
Latitude:"35.227347",
Longitude:"24.770894",
Weight:"1",
Team:"Negative",
Content:"\"Titan, Heaven’s first born,\r\nWith his enormous brood, and birthright seized\r\nBy younger Saturn, he from mightier Jove\r\nHis own and Rhea's son like measure found;\r\nSo Jove usurping reigned: these first in Crete\r\nAnd Ida known, thence on the snowy top\r\nOf cold Olympus ruled the middle air\r\nTheir highest Heaven; or on the Delphian cliff,\r\nOr in Dodona, and through all the bounds\r\nOf Doric land; or who with Saturn old\r\nFled over Adria to the Hesperian fields,\r\nAnd ore the Celtic roamed the utmost isles.\" (1.510-521) [negative]",
Comments:"Jupiter/Jove born on this mountain, associated with Greek gods and their successive usurpations.",

Related:"seventeen",
Type:"M",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"mountain",
"Topographical features (general)":"mountain" },
{ Place:"Delphian cliff",
Latitude:"38.483333",
Longitude:"22.500000",
Weight:"1",
Team:"Negative",
Content:"\"Titan, Heaven’s first born,\r\nWith his enormous brood, and birthright seized\r\nBy younger Saturn, he from mightier Jove\r\nHis own and Rhea's son like measure found;\r\nSo Jove usurping reigned: these first in Crete\r\nAnd Ida known, thence on the snowy top\r\nOf cold Olympus ruled the middle air\r\nTheir highest Heaven; or on the Delphian cliff,\r\nOr in Dodona, and through all the bounds\r\nOf Doric land; or who with Saturn old\r\nFled over Adria to the Hesperian fields,\r\nAnd ore the Celtic roamed the utmost isles.\" (1.510-521) [negative]",
Comments:"Seat of the oracle of Apollo, on southern slope of Parnassus, associated with Greek gods and their successive usurpations.",
Related:"seventeen",
Type:"M",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"mountain",
"Topographical features (general)":"mountain" },
{ Place:"Dodona",
Latitude:"39.546389",
Longitude:"20.787778",
Weight:"1",
Team:"Negative",
Content:"\"Titan, Heaven’s first born,\r\nWith his enormous brood, and birthright seized\r\nBy younger Saturn, he from mightier Jove\r\nHis own and Rhea's son like measure found;\r\nSo Jove usurping reigned: these first in Crete\r\nAnd Ida known, thence on the snowy top\r\nOf cold Olympus ruled the middle air\r\nTheir highest Heaven; or on the Delphian cliff,\r\nOr in Dodona, and through all the bounds\r\nOf Doric land; or who with Saturn old\r\nFled over Adria to the Hesperian fields,\r\nAnd ore the Celtic roamed the utmost isles.\" (1.510-521) [negative]",
Comments:"Seat of the oracle of Zeus, associated with Greek gods and their successive usurpations.",
Related:"seventeen",
Type:"M",
Negative:"1",
Postive:"0",

Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Doric land",
Latitude:"38.683333",
Longitude:"22.433333",
Weight:"1",
Team:"Negative",
Content:"\"Titan, Heaven’s first born,\r\nWith his enormous brood, and birthright seized\r\nBy younger Saturn, he from mightier Jove\r\nHis own and Rhea's son like measure found;\r\nSo Jove usurping reigned: these first in Crete\r\nAnd Ida known, thence on the snowy top\r\nOf cold Olympus ruled the middle air\r\nTheir highest Heaven; or on the Delphian cliff,\r\nOr in Dodona, and through all the bounds\r\nOf Doric land; or who with Saturn old\r\nFled over Adria to the Hesperian fields,\r\nAnd ore the Celtic roamed the utmost isles.\" (1.510-521) [negative]",
Comments:"Alternative designation for Greece, associated with Greek gods and their successive usurpations. ",
Related:"seventeen",
Type:"M",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Hesperian fields",
Latitude:"41.900000",
Longitude:"12.483333",
Weight:"2",
Team:"Negative",
Content:"\"Titan, Heaven’s first born,\r\nWith his enormous brood, and birthright seized\r\nBy younger Saturn, he from mightier Jove\r\nHis own and Rhea's son like measure found;\r\nSo Jove usurping reigned: these first in Crete\r\nAnd Ida known, thence on the snowy top\r\nOf cold Olympus ruled the middle air\r\nTheir highest Heaven; or on the Delphian cliff,\r\nOr in Dodona, and through all the bounds\r\nOf Doric land; or who with Saturn old\r\nFled over Adria to the Hesperian fields,\r\nAnd ore the Celtic roamed the utmost isles.\" (1.510-521) [negative]",
Comments:"Italy, here associated with Greek gods and their successive usurpations.",
Related:"seventeen",
Type:"M",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Celtic",
Latitude:"48.856667",

Longitude:"2.350833",
Weight:"1",
Team:"Negative",
Content:"\"Titan, Heaven’s first born,\r\nWith his enormous brood, and birthright seized\r\nBy younger Saturn, he from mightier Jove\r\nHis own and Rhea's son like measure found;\r\nSo Jove usurping reigned: these first in Crete\r\nAnd Ida known, thence on the snowy top\r\nOf cold Olympus ruled the middle air\r\nTheir highest Heaven; or on the Delphian cliff,\r\nOr in Dodona, and through all the bounds\r\nOf Doric land; or who with Saturn old\r\nFled over Adria to the Hesperian fields,\r\nAnd ore the Celtic roamed the utmost isles.\" (1.510-521) [negative]",
Comments:"France, here associated with Greek gods and their successive usurpations.",
Related:"seventeen",
Type:"M",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Babylon",
Latitude:"32.536389",
Longitude:"44.420833",
Weight:"6",
Team:"Negative",
Content:"\"Let none admire \r\nThat riches grow in Hell; that soil may best \r\nDeserve the precious bane. And here let those \r\nWho boast in mortal things, and wondering tell \r\nOf Babel, and the works of Memphian kings \r\nLearn how their greatest monuments of fame, \r\nAnd strength and art are easily out-done \r\nBy spirits reprobate, and in an hour \r\nWhat in an age they with incessant toil \r\nAnd hands innumerable scarce perform.\" (1.690-699) [negative] / \"Not Babylon, \r\nNor great Alcairo such magnificence \r\nEqualed in all their glories, to inshrine \r\nBelus or Serapis their gods, or seat \r\nTheir kings, when Egypt with Assyria strove \r\nIn wealth and luxury\" (1.717-722) [negative] / \"Hither of ill-joined sons and daughters born \r\nFirst from the ancient world those giants came \r\nWith many a vain exploit, though then renowned: \r\nThe builders next of Babel on the plain \r\nOf Sennaar, and still with vain design, \r\nNew Babels, had they wherewithal, would build\" (3.463-468) [negative] / \"The clouded ark of God, till then in tents \r\nWandering, shall in a glorious temple enshrine. \r\nSuch follow him, as shall be registered \r\nPart good, part bad; of bad the longer scroll; \r\nWhose foul idolatries, and other faults \r\nHeaped to the popular sum, will so incense \r\nGod, as to leave them, and expose their land, \r\nTheir city, his temple, and his holy ark, \r\nWith all his sacred things, a scorn and prey \r\nTo that proud city, whose high walls thou sawest \r\nLeft in confusion; Babylon thence called. There in captivity he lets them dwell \r\nThe space of seventy years; then brings them back, \r\nRemembering mercy, and his covenant sworn \r\nTo David, stablished as the days of Heaven. \r\nReturned from Babylon by leave of kings \r\nTheir lords, whom God disposed, the house of God \r\nThey first re-edify; and for a while \r\nIn mean estate live moderate; till, grown \r\nIn wealth and multitude, factious they grow; \r\nBut first among the priests

dissention springs, \r\nMen who attend the altar, and should most \r\nEndeavor peace: their strife pollution brings \r\nUpon the temple itself: at last they seize \r\nThe scepter, and regard not David's sons; \r\nThen lose it to a stranger\" (12.333-358) [neutral]",
Comments:"Associated with riches and praise of *unworthy*, *mortal* things.",
Related:"eighteen /nine/ tnine (?)",
Type:"B",
Negative:"5",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Ormus",
Latitude:"27.100000",
Longitude:"56.450000",
Weight:"1",
Team:"Negative",
Content:"\"High on a throne of royal state, which far\r\nOutshone the wealth or Ormus and of Ind,\r\nOr where the gorgeous east with richest hand\r\nShowers on her kings barbaric pearl and gold,\r\nSatan exalted sat, by merit raised\r\nTo that bad eminence; and, from despair\r\nThus high uplifted beyond hope, aspires\r\nBeyond thus high, insatiate to pursue\r\nVain war with Heaven; and, by success untaught,\r\nHis proud imaginations thus displayed\" (2.1-10) [negative]",
Comments:"Site of wealth associated with Satans seat in Hell.",
Related:"twenty",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"island",
"Topographical features (general)":"island" },
{ Place:"Ind",
Latitude:"21.000000",
Longitude:"78.000000",
Weight:"1",
Team:"Negative",
Content:"\"High on a throne of royal state, which far\r\nOutshone the wealth or Ormus and of Ind,\r\nOr where the gorgeous east with richest hand\r\nShowers on her kings barbaric pearl and gold,\r\nSatan exalted sat, by merit raised\r\nTo that bad eminence; and, from despair\r\nThus high uplifted beyond hope, aspires\r\nBeyond thus high, insatiate to pursue\r\nVain war with Heaven; and, by success untaught,\r\nHis proud imaginations thus displayed\" (2.1-10) [negative]",
Comments:"Site of wealth associated with Satans seat in Hell.",
Related:"twenty",
Type:"",
Negative:"1",
Postive:"0",

Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Thessaly",
Latitude:"38.828611",
Longitude:"22.288611",
Weight:"1",
Team:"Negative",
Content:"\"Hell scarce holds the wild uproar:\r\nAs when Alcides, from Oechalia crowned\r\nWith conquest, felt the envenomed robe, and tore\r\nThrough pain up by the roots Thessalian pines,\r\nAnd Lichas from the top of Oeta threw\r\nInto the Euboic sea.\" (2.541-546) [negative]",
Comments:"Site of Hercules' rage under the influence of the poisoned robe, evoked in association with the fallen angels' epic games.",
Related:"tone",
Type:"M",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Oeta",
Latitude:"38.828611",
Longitude:"22.288611",
Weight:"1",
Team:"Negative",
Content:"\"Hell scarce holds the wild uproar:\r\nAs when Alcides, from Oechalia crowned\r\nWith conquest, felt the envenomed robe, and tore\r\nThrough pain up by the roots Thessalian pines,\r\nAnd Lichas from the top of Oeta threw\r\nInto the Euboic sea.\" (2.541-546) [negative]",
Comments:"Site of Hercules' rage under the influence of the poisoned robe, evoked in association with the fallen angels' epic games. ",
Related:"tone",
Type:"M",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"mountain",
"Topographical features (general)":"mountain" },
{ Place:"Euboic Sea",
Latitude:"38.550000",
Longitude:"23.500000",
Weight:"1",
Team:"Negative",
Content:"\"Hell scarce holds the wild uproar:\r\nAs when Alcides, from Oechalia crowned\r\nWith conquest, felt the envenomed robe, and tore\r\nThrough pain up by the

roots Thessalian pines,\r\nAnd Lichas from the top of Oeta threw\r\nInto the Euboic sea.\" (2.541-546) [negative]",
Comments:"Site of Hercules' rage under the influence of the poisoned robe, evoked in association with the fallen angels' epic games. ",
Related:"tone",
Type:"M",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"sea",
"Topographical features (general)":"water" },
{ Place:"Damiata",
Latitude:"31.416667",
Longitude:"31.816667",
Weight:"1",
Team:"Negative",
Content:"\"Beyond this flood a frozen continent\r\nLies dark and wild, beat with perpetual storms\r\nOf whirlwind and dire hail, which on firm land\r\nThaws not, but gathers heap, and ruin seems\r\nOf ancient pile; all else deep snow and ice,\r\nA gulf profound as that Serbonian bog\r\nBetwixt Damiata and Mount Casius old,\r\nWhere armies whole have sunk: the parching air\r\nBurns frore, and cold performs the effect of fire.\" (2.587-595) [negative]",
Comments:"City near the mouth of the Nile, proximate to Lake Serbonis, used here in evoking the frozen wastes of Hell.",
Related:"tthree",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Mount Casius",
Latitude:"31.190483",
Longitude:"33.162231",
Weight:"1",
Team:"Negative",
Content:"\"Beyond this flood a frozen continent\r\nLies dark and wild, beat with perpetual storms\r\nOf whirlwind and dire hail, which on firm land\r\nThaws not, but gathers heap, and ruin seems\r\nOf ancient pile; all else deep snow and ice,\r\nA gulf profound as that Serbonian bog\r\nBetwixt Damiata and Mount Casius old,\r\nWhere armies whole have sunk: the parching air\r\nBurns frore, and cold performs the effect of fire.\" (2.587-595) [negative]",
Comments:"Mountain on the opposite site of Lake Serbonis from the city of Damiata, used here in evoking the frozen wastes of Hell.",
Related:"tthree",
Type:"",

Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"mountain",
"Topographical features (general)":"mountain" },
{ Place:"Cyrene",
Latitude:"32.825000",
Longitude:"21.858056",
Weight:"1",
Team:"Neutral",
Content:"\"For hot, cold, moist, and dry, four champions fierce,\r\nStrive here for mastery, and to battle bring\r\nTheir embryon atoms: they around the flag\r\nOf each his faction, in their several clans,\r\nLight-armed or heavy, sharp, smooth, swift, or slow,\r\nSwarm populous, unnumbered as the sands\r\nOf Barca or Cyrene's torrid soil,\r\nLevied to side with warring winds, and poise\r\nTheir lighter wings.\" (2.898-906) [neutral]",
Comments:"An ancient desert city whose setting among \"unnumbered\" sands evokes the profusion of atoms in chaos.",
Related:"tfour",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"desert",
"Topographical features (general)":"region" },
{ Place:"Syrtis",
Latitude:"31.500000",
Longitude:"18.000000",
Weight:"1",
Team:"Neutral",
Content:"\"...All unawares,\r\nFluttering his pennons vain, plumb-down he drops\r\nTen thousand fathom deep, and to this hour\r\nDown had been falling, had not, by ill chance,\r\nThe strong rebuff of some tumultuous cloud,\r\nInstinct with fire and nitre, hurried him\r\nAs many miles aloft. That fury stayed,\r\nQuenched in a boggy Syrtis, neither sea,\r\nNor good dry land, nigh foundered, on he fares,\r\nTreading the crude consistence, half on foot,\r\nHalf flying; behooves him now both oar and sail.\" (2.932-942) [neutral]",
Comments:"Zone off the coast of Libya notorious for quicksand, associated with the medium through which Satan proceeds after his fall through chaos.",
Related:"tfour",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"desert",
"Topographical features (general)":"region" },
{ Place:"Bosporus",

Latitude:"41.119444",
Longitude:"29.075278",
Weight:"1",
Team:"Neutral",
Content:"\"But, glad that now his [Satan] sea should find a shore, \r\nWith fresh alacrity and force renewed \r\nSprings upward, like a pyramid of fire, \r\nInto the wild expanse, and through the shock \r\nOf fighting elements, on all sides round \r\nEnvironed, wins his way; harder beset \r\nAnd more endangered than when Argo passed \r\nThrough Bosporus betwixt the jostling rocks, \r\nOr when Ulysses on the larboard shunned \r\nCharybdis, and by the other whirlpool steered.\" (2.101-120) [negative] ",
Comments:"Satan's way out of chaos associated with the labor of the Argonauts passing through the clashing rocks by Bosporus.",
Related:"tsix",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"water",
"Topographical features (general)":"water" },
{ Place:"Rhodope",
Latitude:"41.083333",
Longitude:"25.416667",
Weight:"1",
Team:"Negative",
Content:"\"But drive far off the barbarous dissonance \r\nOf Bacchus and his revelers, the race \r\nOf that wild rout that tore the Thracian bard \r\nIn Rhodope, where woods and rocks had ears \r\nTo rapture, till the savage clamor drowned \r\nBoth harp and voice; nor could the Muse defend \r\nHer son.\" (7.32-38) [negative]",
Comments:"Thracian mountain where the poet Orpheus was torn into pieces by the Maenads (followers of Bacchus).",
Related:"seight",
Type:"M",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"mountain",
"Topographical features (general)":"mountain" },
{ Place:"Troy",
Latitude:"39.957500",
Longitude:"26.238889",
Weight:"1",
Team:"Negative",
Content:"\"I now must change \r\nThose notes to tragic; foul distrust, and breach \r\nDisloyal on the part of Man, revolt, \r\nAnd disobedience: on the part of Heaven \r\nNow alienated, distance and distaste, \r\nAnger and just rebuke, and judgment given, \r\nThat brought into this world a world of woe, \r\nSin and her shadow Death, and Misery

\r\nDeath's harbinger: Sad talk, yet argument \r\nNot less but more heroic than the wrath \r\nOf stern Achilles on his foe pursued \r\nThrice fugitive about Troy wall; or rage \r\nOf Turnus for Lavinia disespoused; \r\nOr Neptune's ire, or Juno's, that so long \r\nPerplexed the Greek, and Cytherea's son:\r\nIf answerable style I can obtain \r\nOf my celestial patroness, who deigns \r\nHer nightly visitation unimplored, \r\nAnd dictates to me slumbering; or inspires \r\nEasy my unpremeditated verse: \r\nSince first this subject for heroic song \r\nPleased me long choosing, and beginning late; \r\nNot sedulous by nature to indite \r\nWars, hitherto the only argument \r\nHeroic deemed chief mastery to dissect \r\nWith long and tedious havoc fabled knights \r\nIn battles feigned; the better fortitude \r\nOf patience and heroic martyrdom \r\nUnsung; or to describe races and games, \r\nOr tilting furniture, imblazoned shields, \r\nImpresses quaint, caparisons and steeds, \r\nBases and tinsel trappings, gorgeous knights \r\nAt joust and tournament; then marshaled feast \r\nServed up in hall with sewers and seneschals; \r\nThe skill of artifice or office mean, \r\nNot that which justly gives heroic name \r\nTo person, or to poem.\" (9.5-41) [negative]",
Comments:"Achilles' pursuit of Hector around the walls of Troy stands by synecdoche for the Iliad of Homer, whose argument is compared with disadvantage to Milton's Christian theme. ",
Related:"snine",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Cronian Sea",
Latitude:"90.000000",
Longitude:"0.000000",
Weight:"1",
Team:"Neutral",
Content:"\"Then both from out Hell-gates, into the waste \r\nWide anarchy of Chaos, damp and dark, \r\nFlew diverse; and with power (their power was great) \r\nHovering upon the waters, what they [Death and Sin] met \r\nSolid or slimy, as in raging sea \r\nTossed up and down, together crowded drove, \r\nFrom each side shoaling towards the mouth of Hell; \r\nAs when two polar winds, blowing adverse \r\nUpon the Cronian sea, together drive \r\nMountains of ice, that stop the imagined way \r\nBeyond Petsora eastward, to the rich \r\nCathaian coast.\" (10.282-293) [negative]",
Comments:"The Arctic Ocean: connected to the fabled northeast passage to Siberia. Associated with the formation by Sin and Death of a way from Hell's gate to Earth. ",
Related:"fthree",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"ocean",
"Topographical features (general)":"water" },

{ Place:"Petsora",
Latitude:"65.700000",
Longitude:"52.466667",
Weight:"1",
Team:"Neutral",
Content:"\"Then both from out Hell-gates, into the waste \r\nWide anarchy of Chaos, damp and dark, \r\nFlew diverse; and with power (their power was great) \r\nHovering upon the waters, what they [Death and Sin] met \r\nSolid or slimy, as in raging sea \r\nTossed up and down, together crowded drove, \r\nFrom each side shoaling towards the mouth of Hell; \r\nAs when two polar winds, blowing adverse \r\nUpon the Cronian sea, together drive \r\nMountains of ice, that stop the imagined way \r\nBeyond Petsora eastward, to the rich \r\nCathaian coast.\" (10.282-293) [negative]",
Comments:"River in Northern Russia connected to the fabled northeast passage to Siberia. Associated with the formation by Sin and Death of a way from Hell's gate to Earth.",
Related:"fthree",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"river",
"Topographical features (general)":"water" },
{ Place:"Cathay",
Latitude:"35.000000",
Longitude:"103.000000",
Weight:"2",
Team:"Neutral",
Content:"\"Then both from out Hell-gates, into the waste \r\nWide anarchy of Chaos, damp and dark, \r\nFlew diverse; and with power (their power was great) \r\nHovering upon the waters, what they [Death and Sin] met \r\nSolid or slimy, as in raging sea \r\nTossed up and down, together crowded drove, \r\nFrom each side shoaling towards the mouth of Hell; \r\nAs when two polar winds, blowing adverse \r\nUpon the Cronian sea, together drive \r\nMountains of ice, that stop the imagined way \r\nBeyond Petsora eastward, to the rich \r\nCathaian coast.\" (10.282-293) [negative] / \"To whom thus Adam gratefully replied. \r\nAscend, I follow thee, safe Guide, the path \r\nThou leadest me; and to the hand of Heaven submit, \r\nHowever chastening; to the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance,

\r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
Comments:"Cathay, an empire in Northern China and the goal of the northeast passage. Evoked here in assocation with the formation by Sin and Death of a way from Hell's gate to Earth.",
Related:"fthree",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"2",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Delos",
Latitude:"37.393333",
Longitude:"25.271111",
Weight:"2",
Team:"Negative",
Content:"\"The aggregated soil \r\nDeath with his mace petrific, cold and dry, \r\nAs with a trident, smote; and fixed as firm \r\nAs Delos, floating once; the rest his look \r\nBound with Gorgonian rigor not to move; \r\nAnd with asphaltic slime, broad as the gate, \r\nDeep to the roots of Hell the gathered beach \r\nThey fastened, and the mole immense wrought on \r\nOver the foaming deep high-arched, a bridge \r\nOf length prodigious, joining to the wall \r\nImmoveable of this now fenceless world, \r\nForfeit to Death; from hence a passage broad, \r\nSmooth, easy, inoffensive, down to Hell.\" (10.293-305) [negative] / \"As when by night the glass \r\nOf Galileo, less assured, observes \r\nImagined lands and regions in the moon: \r\nOr pilot, from amidst the Cyclades \r\nDelos or Samos first appearing, kens \r\nA cloudy spot. Down thither prone in flight \r\nHe [Raphael] speeds, and through the vast ethereal sky \r\nSails between worlds and worlds, with steady wing \r\nNow on the polar winds, then with quick fan \r\nWinnows the buxom air; till, within soar \r\nOf towering eagles, to all the fowls he seems \r\nA phoenix, gazed by all as that sole bird, \r\nWhen, to enshrine his relics in the sun's \r\nBright temple, to Egyptian Thebes he flies.\" (5.261-274) [neutral]",
Comments:"Floating Mediterranean island of Greek mythology, center of Cyclades and birthplace of Apollo and Artemis, but later anchored by Zeus, as Death's mace fixed the bridge to Hell. / Greek island; home of Pythagoras (perhaps relevant in context of stellar observation and navigation).",
Related:"fthfour / sfive",
Type:"",
Negative:"1",
Postive:"0",

Neutral:"1",
"Topographical features":"island",
"Topographical features (general)":"island" },
{ Place:"Susa",
Latitude:"32.190556",
Longitude:"48.257778",
Weight:"1",
Team:"Neutral",
Content:"\"So, if great things to small may be compared, \r\nXerxes, the liberty of Greece to yoke, \r\nFrom Susa, his Memnonian palace high, \r\nCame to the sea: and, over Hellespont \r\nBridging his way, Europe with Asia joined, \r\nAnd scourged with many a stroke the indignant waves.\" (10.306-311) [neutral]",
Comments:"Winter seat of Persian kings.",
Related:"ffour",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Astracan",
Latitude:"46.323611",
Longitude:"48.036667",
Weight:"1",
Team:"Neutral",
Content:"\"There kept their watch the legions, while the Grand \r\nIn council sat, solicitous what chance \r\nMight intercept their emperor sent; so he \r\nDeparting gave command, and they observed. \r\nAs when the Tartar from his Russian foe, \r\nBy Astracan, over the snowy plains, \r\nRetires; or Bactrin Sophi, from the horns \r\nOf Turkish crescent, leaves all waste beyond \r\nThe realm of Aladule, in his retreat \r\nTo Taurus or Casbeen: So these, the late \r\nHeaven-banished host, left desert utmost Hell \r\nMany a dark league, reduced in careful watch \r\nRound their metropolis; and now expecting \r\nEach hour their great adventurer, from the search \r\nOf foreign worlds\" (10.427-441) [neutral]",
Comments:"\"Tartar khanate and capital near the mouth of the Volga, often mentioned in Milton's Muscovia\" (Fowler). Site of imperial military retreats evoked in association with Satan's legions.",
Related:"ffive",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Tauris",
Latitude:"38.066667",

Longitude:"46.300000",
Weight:"1",
Team:"Neutral",
Content:"\"There kept their watch the legions, while the Grand \r\nIn council sat, solicitous what chance \r\nMight intercept their emperor sent; so he \r\nDeparting gave command, and they observed. \r\nAs when the Tartar from his Russian foe, \r\nBy Astracan, over the snowy plains, \r\nRetires; or Bactrin Sophi, from the horns \r\nOf Turkish crescent, leaves all waste beyond \r\nThe realm of Aladule, in his retreat \r\nTo Taurus or Casbeen: So these, the late \r\nHeaven-banished host, left desert utmost Hell \r\nMany a dark league, reduced in careful watch \r\nRound their metropolis; and now expecting \r\nEach hour their great adventurer, from the search \r\nOf foreign worlds\" (10.427-441) [neutral]",
Comments:"Former Persian capital of Tabriz. Site of imperial military retreats evoked in association with Satan's legions.",
Related:"ffive",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Casbeen",
Latitude:"36.266667",
Longitude:"50.000000",
Weight:"1",
Team:"Neutral",
Content:"\"There kept their watch the legions, while the Grand \r\nIn council sat, solicitous what chance \r\nMight intercept their emperor sent; so he \r\nDeparting gave command, and they observed. \r\nAs when the Tartar from his Russian foe, \r\nBy Astracan, over the snowy plains, \r\nRetires; or Bactrin Sophi, from the horns \r\nOf Turkish crescent, leaves all waste beyond \r\nThe realm of Aladule, in his retreat \r\nTo Taurus or Casbeen: So these, the late \r\nHeaven-banished host, left desert utmost Hell \r\nMany a dark league, reduced in careful watch \r\nRound their metropolis; and now expecting \r\nEach hour their great adventurer, from the search \r\nOf foreign worlds\" (10.427-441) [neutral]",
Comments:"Former Persian capital Kasvin. Site of imperial military retreats evoked in association with Satan's legions.",
Related:"ffive",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Pythian vale",
Latitude:"38.483333",

Longitude:"22.500000",
Weight:"1",
Team:"Negative",
Content:"\" Dreadful was the din \r\nOf hissing through the hall, thick swarming now \r\nWith complicated monsters head and tail, \r\nScorpion, and Asp, and Amphisbaena dire, \r\nCerastes horned, Hydrus, and Elops drear, \r\nAnd Dipsas; (not so thick swarmed once the soil \r\nBedropt with blood of Gorgon, or the isle \r\nOphiusa,) but still greatest he the midst, \r\nNow Dragon grown, larger than whom the sun \r\nIngendered in the Pythian vale or slime, \r\nHuge Python, and his power no less he seemed \r\nAbove the rest still to retain\" (10.521-532) [neutral]",
Comments:"Delphi, where Apollo slew the great serpent Python. Evoked in connection with the fallen angels' abasing transformation into snakes.",
Related:"fsix",
Type:"M",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Butiminous Lake",
Latitude:"31.500000",
Longitude:"35.500000",
Weight:"1",
Team:"Negative",
Content:"\"Their [Satan and his army] penance, laden with fair fruit, like that \r\nWhich grew in Paradise, the bait of Eve \r\nUsed by the tempter: on that prospect strange \r\nTheir earnest eyes they fixed, imagining \r\nFor one forbidden tree a multitude \r\nNow risen, to work them further woe or shame; \r\nYet, parched with scalding thirst and hunger fierce, \r\nThough to delude them sent, could not abstain; \r\nBut on they rolled in heaps, and, up the trees \r\nClimbing, sat thicker than the snaky locks \r\nThat curled Megaera: greedily they plucked \r\nThe fruitage fair to sight, like that which grew \r\nNear that bituminous lake where Sodom flamed; \r\nThis more delusive, not the touch, but taste \r\nDeceived; they, fondly thinking to allay \r\nTheir appetite with gust, instead of fruit \r\nChewed bitter ashes, which the offended taste \r\nWith spattering noise rejected: oft they assayed, \r\nHunger and thirst constraining; drugged as oft, \r\nWith hatefullest disrelish writhed their jaws, \r\nWith soot and cinders filled; so oft they fell \r\nInto the same illusion, not as man \r\nWhom they triumphed once lapsed.\" (10.550-572) [negative]",
Comments:"The Dead Sea; site of the ancient city of Sodom, whose fruit trees when harvested yielded ashes and smoke.",
Related:"fseven",
Type:"M",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"sea",

"Topographical features (general)":"water" },
{ Place:"Barca",
Latitude:"32.498333",
Longitude:"20.892778",
Weight:"1",
Team:"Neutral",
Content:"\"For hot, cold, moist, and dry, four champions fierce,\r\n\r\nStrive here for mastery, and to battle bring\r\n\r\nTheir embryon atoms: they around the flag\r\n\r\nOf each his faction, in their several clans,\r\n\r\nLight-armed or heavy, sharp, smooth, swift, or slow,\r\n\r\nSwarm populous, unnumbered as the sands\r\n\r\nOf Barca or Cyrene's torrid soil,\r\n\r\nLevied to side with warring winds, and poise\r\n\r\nTheir lighter wings.\" (2.898-906) [neutral]",
Comments:"An ancient desert city whose setting among \"unnumbered\" sands evokes the profusion of atoms in chaos.",
Related:"tfour",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Egypt",
Latitude:"26.000000",
Longitude:"30.000000",
Weight:"12",
Team:"Negative",
Content:"\"A passage down to the Earth, a passage wide, \r\nWider by far than that of after-times \r\nOver mount Sion, and, though that were large, \r\nOver the Promised Land to God so dear; \r\nBy which, to visit oft those happy tribes, \r\nOn high behests his angels to and fro \r\nPassed frequent, and his eye with choice regard \r\nFrom Paneas, the fount of Jordan's flood, \r\nTo Beersaba, where the Holy Land \r\nBorders on Egypt and the Arabian shore\" (3.528-537) [positive] / \"Not Babylon, \r\nNor great Alcairo such magnificence \r\nEqualed in all their glories, to inshrine \r\nBelus or Serapis their gods, or seat \r\nTheir kings, when Egypt with Assyria strove \r\nIn wealth and luxury.\" (1.717-722) [negative] / \"With these came they, who from the bordering flood\r\nOf old Euphrates to the brook that parts\r\nEgypt from Syrian ground, had general names\r\nOf Baalim and Ashtaroth, those male,\r\nThese feminine.\" (1.419-423) [negative] / \"After these appeared \r\nA crew who under names of old renown, \r\nOsiris, Isis, Orus and their train \r\nWith monstrous shapes and sorceries abused \r\nFanatic Egypt and her priests, to seek \r\nTheir wandering gods disguised in brutish forms \r\nRather then human.\" (1.476-482) [negative] / \"Nor did Israel escape\r\nThe infection [of idol worship] when their borrowed gold composed\r\nThe calf in Oreb: and the rebel king\r\nDoubled that sin in Bethel and in Dan,\r\nLikening his Maker to the grazed ox,\r\nJehovah, who in one night when he passed\r\nFrom Egypt marching, equaled with one stroke\r\nBoth her first born and all her bleating gods.\" (1.482-489) [negative] /\"Not Babylon, \r\nNor great Alcairo such magnificence \r\nEqualed in all their glories, to inshrine \r\nBelus or Serapis

their gods, or seat \r\nTheir kings, when Egypt with Assyria strove \r\nIn wealth and luxury\" (1.717-722) [negative] /\"A passage down to the Earth, a passage wide, \r\nWider by far than that of after-times \r\nOver mount Sion, and, though that were large, \r\nOver the Promised Land to God so dear; \r\nBy which, to visit oft those happy tribes, \r\nOn high behests his angels to and fro \r\nPassed frequent, and his eye with choice regard \r\nFrom Paneas, the fount of Jordan's flood, \r\nTo Beersaba, where the Holy Land \r\nBorders on Egypt and the Arabian shore\" (5.) [positive] / \" Now gentle gales, \r\nFanning their odoriferous wings, dispense \r\nNative perfumes, and whisper whence they stole \r\nThose balmy spoils. As when to them who fail \r\nBeyond the Cape of Hope, and now are past \r\nMozambique, off at sea north-east winds blow \r\nSabean odors from the spicy shore \r\nOf Araby the blest; with such delay \r\nWell pleased they slack their course, and many a league \r\nCheered with the grateful smell old Ocean smiles: \r\nSo entertained those odorous sweets the Fiend, \r\nWho came their bane; though with them better pleased \r\nThan Asmodeus with the fishy fume \r\nThat drove him, though enamored, from the spouse \r\nOf Tobit's son, and with a vengeance sent \r\nFrom Media post to Egypt, there fast bound.\" (4.154-169) [neutral] / \"As when by night the glass \r\nOf Galileo, less assured, observes \r\nImagined lands and regions in the moon: \r\nOr pilot, from amidst the Cyclades \r\nDelos or Samos first appearing, kens \r\nA cloudy spot. Down thither prone in flight \r\nHe [Raphael] speeds, and through the vast ethereal sky \r\nSails between worlds and worlds, with steady wing \r\nNow on the polar winds, then with quick fan \r\nWinnows the buxom air; till, within soar \r\nOf towering eagles, to all the fowls he seems \r\nA phoenix, gazed by all as that sole bird, \r\nWhen, to enshrine his relics in the sun's \r\nBright temple, to Egyptian Thebes he flies.\" (5.261-274) [neutral] / \"In a dark age, against example good,\r\nAgainst allurement, custom, and a world\r\nOffended: fearless of reproach and scorn,\r\nThe grand-child, with twelve sons increased, departs\r\nFrom Canaan, to a land hereafter called\r\nEgypt, divided by the river Nile;\r\nSee where it flows, disgorging at seven mouths\r\nInto the sea\" (11.809-11.816) [neutral] / \"...the lawless tyrant, who denies \r\nTo know their God, or message to regard, \r\nMust be compelled by signs and judgments dire; \r\nTo blood unshed the rivers must be turned; \r\nFrogs, lice, and flies, must all his palace fill \r\nWith loathed intrusion, and fill all the land; \r\nHis cattle must of rot and murren die; \r\nBotches and blains must all his flesh emboss, \r\nAnd all his people; thunder mixed with hail, \r\nHail mixed with fire, must rend the Egyptians sky, \r\nAnd wheel on the earth, devouring where it rolls; \r\nWhat it devours not, herb, or fruit, or grain, \r\nA darksome cloud of locusts swarming down \r\nMust eat, and on the ground leave nothing green; \r\nDarkness must overshadow all his bounds, \r\nPalpable darkness, and blot out three days; \r\nLast, with one midnight stroke, all the first-born \r\nOf Egypt must lie dead.\" (12.173-190) [negative] / \"The race elect \r\nSafe toward Canaan from the shore advance \r\nThrough the wild Desert, not the readiest way; \r\nLest, entering on the Canaanite alarmed, \r\nWar terrify them inexpert, and fear \r\nReturn them back to Egypt, choosing rather \r\nInglorious life with servitude; for life \r\nTo noble and ignoble is more sweet \r\nUntrained in arms, where rashness leads not on.\" (12.214-222) [negative]",

Comments:"Associated with impious Pharaoh. / Associated with the worship of pagan zoomorphic gods. / Associated with corrupting luxury and wealth. / Associated with the wrath of Jehovah killing all the first-borns. / Demarcates border of the Holy Land.",

Related:"nine/ tnine",
Type:"B",
Negative:"7",
Postive:"1",
Neutral:"4",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Sion (hill)",
Latitude:"28.539722",
Longitude:"33.973333",
Weight:"4",
Team:"Positive",
Content:"\"Of man’s first disobedience, and the fruit \r\nOf that forbidden tree, whose mortal taste \r\nBrought death into the world, and all our woe, \r\nWith loss of Eden, till one greater man \r\nRestore us, and regain the blissful seat, \r\nSing heavenly muse, that on the secret top \r\nOf Oreb, or of Sinai, didst inspire \r\nThat shepherd, who first taught the chosen seed, \r\nIn the beginning how the heavens and earth \r\nRose out of chaos: Or if Sion hill \r\nDelight thee more, and Siloa's brook that flowed \r\nFast by the oracle of God\" (1.1-12) [positive]/ \"Say, Muse, their names then known, who first, who last, \r\nRoused from the slumber, on that fiery couch, \r\nAt their great emperor’s call, as next in worth \r\nCame singly where he stood on the bare strand, \r\nWhile the promiscuous crowd stood yet aloof? \r\nThe chief were those who from the pit of Hell \r\nRoaming to seek their prey on Earth, durst fix \r\nTheir seats long after next the seat of God, \r\nTheir altars by his altar, gods adored \r\nAmong the nations round, and durst abide \r\nJehovah thundering out of Sion, throned \r\nBetween the cherubim; yea, often placed \r\nWithin his sanctuary it self their shrines, \r\nAbominations; and with cursed things \r\nHis holy rites, and solemn feasts profaned,] \r\nAnd with their darkness durst affront his light.\" (1.376-391) [positive] / \"Yet not the more \r\nCease I to wander, where the Muses haunt, \r\nClear spring, or shady grove, or sunny hill, \r\nSmit with the love of sacred song; but chief \r\nThee, Sion, and the flowery brooks beneath, \r\nThat wash thy hallowed feet, and warbling flow, \r\nNightly I visit: nor sometimes forget \r\nSo were I equaled with them in renown, \r\nThy sovereign command, that man should find grace; \r\nBlind Thamyris, and blind Maeonides, \r\nAnd Tiresias, and Phineus, prophets old: \r\nThen feed on thoughts, that voluntary move \r\nHarmonious numbers; as the wakeful bird \r\nSings darkling, and in shadiest covert hid \r\nTunes her nocturnal note.\" (3.26-40) [positive] / \"The stairs were then let down, whether to dare \r\nThe Fiend by easy ascent, or aggravate \r\nHis sad exclusion from the doors of bliss: \r\nDirect against which opened from beneath, \r\nJust o'er the blissful seat of Paradise, \r\nA passage down to the Earth, a passage wide, \r\nWider by far than that of after-times \r\nOver mount Sion, and, though that were large, \r\nOver the Promised Land to God so dear; \r\nBy which, to visit oft those happy tribes, \r\nOn high behests his angels to and fro \r\nPassed frequent, and his eye with choice regard \r\nFrom Paneas, the fount of Jordan's flood, \r\nTo Beersaba, where the Holy Land \r\nBorders on Egypt and the Arabian shore; \r\nSo wide the opening seemed, where bounds were set \r\nTo darkness, such as bound the ocean wave.\" (3.523-539) [positive]",
Comments:"Mount Zion, site of God's appearance to Moses.",

Related:"one/ tnine",
Type:"B",
Negative:"0",
Postive:"4",
Neutral:"0",
"Topographical features":"hill",
"Topographical features (general)":"mountain" },
{ Place:"Sion",
Latitude:"31.771667",
Longitude:"35.229167",
Weight:"2",
Team:"Negative",
Content:"\"With these in troop \r\nCame Astoreth, whom the Phoenicians called \r\nAstarte, queen of Heaven, with crescent horns; \r\nTo whose bright image nightly by the moon \r\nSidonian virgins paid their vows and songs, \r\nIn Sion also not unsung, where stood \r\nHer temple on the offensive mountain, built \r\nBy that uxorious king, whose heart though large, \r\nBeguiled by fair idolatresses, fell \r\nTo Idols foul.\" (1.438-446) [negative] /\"Thammuz came next behind,\r\nWhose annual wound in Lebanon allured\r\nThe Syrian damsels to lament his fate\r\nIn amorous ditties all a summer's day,\r\nWhile smooth Adonis from his native rock\r\nRan purple to the sea, supposed with blood\r\nOf Thammuz yearly wounded: the love-tale\r\nInfected Sion's daughters with like heat,\r\nWhose wanton passions in the sacred porch\r\nEzekiel saw, when by the vision led\r\nHis eye surveyed the dark idolatries\r\nOf alienated Judah.\" (1.446-457) [negative]",
Comments:"Associated in catalogue of fallen angels with worship of false idols.",
Related:"twelve",
Type:"B",
Negative:"2",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Aonian mount",
Latitude:"38.416667",
Longitude:"23.083333",
Weight:"1",
Team:"Positive",
Content:"\"I thence \r\nInvoke thy aid to my adventurous song, \r\nThat with no middle flight intends to soar \r\nAbove the Aonian mount, while it pursues \r\nThings unattempted yet in prose or rhyme.\" (1.12-16) [positive]",
Comments:"Mountain in Greece, a haunt of the Muses.",
Related:"one",
Type:"M",
Negative:"0",
Postive:"1",
Neutral:"0",

"Topographical features":"mountain",
"Topographical features (general)":"mountain" },
{ Place:"Red Sea (coast)",
Latitude:"22.000000",
Longitude:"38.000000",
Weight:"1",
Team:"Negative",
Content:"\"...or scattered sedge \r\nAfloat, when with fierce winds Orion armed \r\nHath vexed the Red Sea coast, whose waves overthrew \r\nBusiris and his Memphian chivalry, \r\nWhile with perfidious hatred they pursued \r\nThe sojourners of Goshen, who beheld \r\nFrom the safe shore their floating carcasses \r\nAnd broken chariot wheels, so thick bestrown \r\nAbject and lost lay these, covering the flood, \r\nUnder amazement of their hideous change\" (1.304-313) [negative]",
Comments:"Site of ruin of Pharaoh's army (with which the fallen angels are associated), engufled as they attempt to follow the Hebrews through its parted waters. ",
Related:"seven",
Type:"B",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Gath",
Latitude:"31.700000",
Longitude:"34.847000",
Weight:"1",
Team:"Negative",
Content:"\"Next came one\r\nWho mourned in earnest, when the captive Ark\r\nMaimed his brute image, head and hands lopped off\r\nIn his own temple, on the grunsel edge,\r\nWhere he fell flat, and shamed his worshipers:\r\nDagon his name, sea monster, upward man\r\nAnd downward fish: yet had his temple high\r\nReared in Azotus, dreaded through the coast\r\nOf Palestine, in Gath and Ascalon\r\nAnd Accaron and Gaza's frontier bounds.\" (1.457-466)",
Comments:"Associated with pagan worship, as of Dagon.",
Related:"fourteen",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Ascalon",
Latitude:"31.666667",
Longitude:"34.566667",
Weight:"1",
Team:"Negative",

Content:"\"Next came one\r\nWho mourned in earnest, when the captive Ark\r\nMaimed his brute image, head and hands lopped off\r\nIn his own temple, on the grunsel edge,\r\nWhere he fell flat, and shamed his worshipers:\r\nDagon his name, sea monster, upward man\r\nAnd downward fish: yet had his temple high\r\nReared in Azotus, dreaded through the coast\r\nOf Palestine, in Gath and Ascalon\r\nAnd Accaron and Gaza's frontier bounds.\" (1.457-466) [positive]",
Comments:"Associated with pagan worship, as of Dagon.",
Related:"fourteen",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Accaron",
Latitude:"31.778890",
Longitude:"34.849920",
Weight:"1",
Team:"Negative",
Content:"\"Next came one\r\nWho mourned in earnest, when the captive Ark\r\nMaimed his brute image, head and hands lopped off\r\nIn his own temple, on the grunsel edge,\r\nWhere he fell flat, and shamed his worshipers:\r\nDagon his name, sea monster, upward man\r\nAnd downward fish: yet had his temple high\r\nReared in Azotus, dreaded through the coast\r\nOf Palestine, in Gath and Ascalon\r\nAnd Accaron and Gaza's frontier bounds.\" (1.457-466) [positive]",
Comments:"Associated with pagan worship, as of Dagon.",
Related:"fourteen",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Gaza",
Latitude:"31.516667",
Longitude:"34.450000",
Weight:"1",
Team:"Negative",
Content:"\"Next came one\r\nWho mourned in earnest, when the captive Ark\r\nMaimed his brute image, head and hands lopped off\r\nIn his own temple, on the grunsel edge,\r\nWhere he fell flat, and shamed his worshipers:\r\nDagon his name, sea monster, upward man\r\nAnd downward fish: yet had his temple high\r\nReared in Azotus, dreaded through the coast\r\nOf Palestine, in Gath and Ascalon\r\nAnd Accaron and Gaza's frontier bounds.\" (1.457-466) [positive]",
Comments:"Associated with pagan worship, as of Dagon.",
Related:"fourteen",

Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Golgotha",
Latitude:"31.778611",
Longitude:"35.229444",
Weight:"1",
Team:"Positive",
Content:"\"Here pilgrims roam, that strayed so far to seek \r\nIn Golgotha him dead, who lives in Heaven; \r\nAnd they, who to be sure of Paradise, \r\nDying, put on the weeds of Dominick, \r\nOr in Franciscan think to pass disguised\" (3.476-480) [positive]",
Comments:"Place where Jesus was crucified. Mount Golgotha a site of pilgrimage.",
Related:"teight",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Paneas",
Latitude:"33.248611",
Longitude:"35.694444",
Weight:"1",
Team:"Positive",
Content:"\"A passage down to the Earth, a passage wide, \r\nWider by far than that of after-times \r\nOver mount Sion, and, though that were large, \r\nOver the Promised Land to God so dear; \r\nBy which, to visit oft those happy tribes, \r\nOn high behests his angels to and fro \r\nPassed frequent, and his eye with choice regard \r\nFrom Paneas, the fount of Jordan's flood, \r\nTo Beersaba, where the Holy Land \r\nBorders on Egypt and the Arabian shore\" (3.528-537) [positive]",
Comments:"The northernmost point of the Holy Land (Greek designation of Dan).",
Related:"tnine",
Type:"B",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Jordan (river)",
Latitude:"31.950000",
Longitude:"35.933333",
Weight:"2",
Team:"Positive",

Content:"\"A passage down to the Earth, a passage wide, \r\nWider by far than that of after-times \r\nOver mount Sion, and, though that were large, \r\nOver the Promised Land to God so dear; \r\nBy which, to visit oft those happy tribes, \r\nOn high behests his angels to and fro \r\nPassed frequent, and his eye with choice regard \r\nFrom Paneas, the fount of Jordan's flood, \r\nTo Beersaba, where the Holy Land \r\nBorders on Egypt and the Arabian shore\" (3.528-537) [positive] /\"Yet him God the Most High vouchsafes \r\nTo call by vision, from his father's house, \r\nHis kindred, and false Gods, into a land \r\nWhich he will show him; and from him will raise \r\nA mighty nation; and upon him shower \r\nHis benediction so, that in his seed \r\nAll nations shall be blest: he straight obeys; \r\nNot knowing to what land, yet firm believes: \r\nI see him, but thou canst not, with what faith \r\nHe leaves his Gods, his friends, and native soil, \r\nUr of Chaldaea, passing now the ford \r\nTo Haran; after him a cumbrous train \r\nOf herds and flocks, and numerous servitude; \r\nNot wandering poor, but trusting all his wealth \r\nWith God, who called him, in a land unknown. \r\nCanaan he now attains; I see his tents \r\nPitched about Sechem, and the neighboring plain \r\nOf Moreh; there by promise he receives \r\nGift to his progeny of all that land, \r\nFrom Hameth northward to the Desert south; \r\n(Things by their names I call, though yet unnamed;) \r\nFrom Hermon east to the great western Sea; \r\nMount Hermon, yonder sea; each place behold \r\nIn prospect, as I point them; on the shore \r\nMount Carmel; here, the double-founted stream, \r\nJordan, true limit eastward; but his sons \r\nShall dwell to Senir, that long ridge of hills. \r\nThis ponder, that all nations of the earth \r\nShall in his seed be blessed\" (12.120-148) [neutral]",
Comments:"River of the Holy Land, defining its eastward limit.",
Related:"tnine /phtwo",
Type:"B",
Negative:"1",
Postive:"0",
Neutral:"1",
"Topographical features":"river",
"Topographical features (general)":"river" },
{ Place:"Beersaba",
Latitude:"31.249772",
Longitude:"34.799708",
Weight:"1",
Team:"Positive",
Content:"\"A passage down to the Earth, a passage wide, \r\nWider by far than that of after-times \r\nOver mount Sion, and, though that were large, \r\nOver the Promised Land to God so dear; \r\nBy which, to visit oft those happy tribes, \r\nOn high behests his angels to and fro \r\nPassed frequent, and his eye with choice regard \r\nFrom Paneas, the fount of Jordan's flood, \r\nTo Beersaba, where the Holy Land \r\nBorders on Egypt and the Arabian shore\" (3.528-537) [positive]",
Comments:"The southernmost point of the Holy Land.",
Related:"tnine",
Type:"B",
Negative:"0",
Postive:"0",

Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Seleucia",
Latitude:"33.094444",
Longitude:"44.522222",
Weight:"1",
Team:"Positive",
Content:"\"To all delight of human sense exposed, \r\nIn narrow room, Nature's whole wealth, yea more, \r\nA Heaven on Earth: For blissful Paradise \r\nOf God the garden was, by him in the east \r\nOf Eden planted; Eden stretched her line \r\nFrom Auran eastward to the royal towers \r\nOf great Seleucia, built by Grecian kings, \r\nOf where the sons of Eden long before \r\nDwelt in Telassar\" (4.204-212) [positive]",
Comments:"City near Baghdad on Tigris river. Here referred to as eastern part of Eden with royal towers",
Related:"stwo",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Daphne",
Latitude:"36.200000",
Longitude:"36.150000",
Weight:"1",
Team:"Positive",
Content:"\"Not that fair field \r\nOf Enna, where Proserpine gathering flowers, \r\nHerself a fairer flower by gloomy Dis \r\nWas gathered, which cost Ceres all that pain \r\nTo seek her through the world; nor that sweet grove \r\nOf Daphne by Orontes, and the inspired \r\nCastalian spring, might with this Paradise \r\nOf Eden strive\" (4.266-273) [positive]",
Comments:"A grove by the river Orontes whose spring was dedicated to Apollo.",
Related:"sthree",
Type:"M",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Orontes",
Latitude:"35.250000",
Longitude:"36.583333",
Weight:"1",
Team:"Positive",
Content:"\"Not that fair field \r\nOf Enna, where Proserpine gathering flowers, \r\nHerself a fairer flower by gloomy Dis \r\nWas gathered, which cost Ceres all that pain \r\nTo seek

her through the world; nor that sweet grove \r\nOf Daphne by Orontes, and the inspired \r\nCastalian spring, might with this Paradise \r\nOf Eden strive\" (4.266-273) [positive]",
Comments:"River whose spring was dedicated to Apollo.",
Related:"sthree",
Type:"M",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"river",
"Topographical features (general)":"river" },
{ Place:"Enna",
Latitude:"37.563333",
Longitude:"14.276111",
Weight:"1",
Team:"Positive",
Content:"\"Not that fair field \r\nOf Enna, where Proserpine gathering flowers, \r\nHerself a fairer flower by gloomy Dis \r\nWas gathered, which cost Ceres all that pain \r\nTo seek her through the world; nor that sweet grove \r\nOf Daphne by Orontes, and the inspired \r\nCastalian spring, might with this Paradise \r\nOf Eden strive\" (4.266-273) [positive]",
Comments:"Site of rape of Proserpina, associated here with Paradise.",
Related:"sthree",
Type:"M",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Mount Amara",
Latitude:"11.500000",
Longitude:"39.316667",
Weight:"1",
Team:"Positive",
Content:"\"Nor where Abassin kings their issue guard, \r\nMount Amara, though this by some supposed \r\nTrue Paradise under the Ethiop line \r\nBy Nilus' head, enclosed with shining rock, \r\nA whole day's journey high\" (4.278-282) [positive]",
Comments:"A candidate (rejected by Milton) for the terrestrial location of Paradise.",
Related:"sfour",
Type:"",
Negative:"0",
Postive:"1",
Neutral:"0",
"Topographical features":"mountian",
"Topographical features (general)":"mountian" },
{ Place:"Ethiop Line",
Latitude:"9.030000",
Longitude:"38.740000",

Weight:"1",
Team:"Positive",
Content:"\"Nor where Abassin kings their issue guard, \r\nMount Amara, though this by some supposed \r\nTrue Paradise under the Ethiop line \r\nBy Nilus' head, enclosed with shining rock, \r\nA whole day's journey high\" (4.278-282) [positive]",
Comments:"\"Ethiop Line\" denotes the equator.",
Related:"sfour",
Type:"",
Negative:"0",
Postive:"1",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"India",
Latitude:"28.613333",
Longitude:"77.208333",
Weight:"5",
Team:"Neutral",
Content:"\"So thick the aerie crowd \r\nSwarmed and were straitened; till the signal given. \r\nBehold a wonder! they but now who seemed \r\nIn bigness to surpass Earth’s giant sons \r\nNow less then smallest dwarfs, in narrow room \r\nThrong numberless, like that Pigmean race \r\nBeyond the Indian mount, or fairy elves, \r\nWhose midnight revels, by a forest side \r\nOr fountain some belated peasant sees, \r\nOr dreams he sees, while overhead the moon \r\nSits arbitress, and nearer to the Earth \r\nWheels her pale course, they on their mirth and dance \r\nIntent, with jocund music charm his ear; \r\nAt once with joy and fear his heart rebounds.\" (1.775-788) [neutral] / \"Bestirs her then, and from each tender stalk \r\nWhatever Earth, all-bearing mother, yields \r\nIn India East or West, or middle shore \r\nIn Pontus or the Punick coast, or where \r\nAlcinous reigned, fruit of all kinds, in coat \r\nRough, or smooth rind, or bearded husk, or shell, \r\nShe [Eve] gathers, tribute large, and on the board \r\nHeaps with unsparing hand\" (4.337-344) [postive] / \"Here walked the Fiend at large in spacious field. \r\nAs when a vulture on Imaus bred, \r\nWhose snowy ridge the roving Tartar bounds, \r\nDislodging from a region scarce of prey \r\nTo gorge the flesh of lambs or yeanling kids, \r\nOn hills where flocks are fed, flies toward the springs \r\nOf Ganges or Hydaspes, Indian streams; \r\nBut in his way lights on the barren plains \r\nOf Sericana, where Chineses drive \r\nWith sails and wind their cany wagons light: \r\nSo, on this windy sea of land, the Fiend \r\nWalked up and down alone, bent on his prey\" (3.430-441) [neutral] / \"So counseled he [Adam], and both [with Eve] together went \r\nInto the thickest wood; there soon they chose \r\nThe fig-tree; not that kind for fruit renowned, \r\nBut such as at this day, to Indians known, \r\nIn Malabar or Decan spreads her arms \r\nBranching so broad and long, that in the ground \r\nThe bended twigs take root, and daughters grow \r\nAbout the mother tree, a pillared shade \r\nHigh over-arched, and echoing walks between: \r\nThere oft the Indian herdsman, shunning heat, \r\nShelters in cool, and tends his pasturing herds \r\nAt loop-holes cut through thickest shade: Those leaves \r\nThey gathered, broad as Amazonian targe; \r\nAnd, with what skill they had, together sewed,

\r\nTo gird their waist; vain covering, if to hide \r\nTheir guilt and dreaded shame.\" (9.1099-1114) [neutral]",
Comments:"Fertile land associated with fruitfulness of Paradise. / River with a source in the Himalayas, passed by Satan en route to Eden. / Habitat of fig-tree, whose leaves Adam and Eve used to cover their nakedness after the eating the fruit.",
Related:"sseven / tseven/ ftwo",
Type:"",
Negative:"0",
Postive:"1",
Neutral:"4",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Tigris",
Latitude:"38.433333",
Longitude:"39.772778",
Weight:"1",
Team:"Neutral",
Content:"\"There was a place, \r\nNow not, though sin, not time, first wrought the change, \r\nWhere Tigris, at the foot of Paradise, \r\nInto a gulf shot under ground, till part \r\nRose up a fountain by the tree of life: \r\nIn with the river sunk, and with it rose \r\nSatan, involved in rising mist; then sought \r\nWhere to lie hid; sea he had searched, and land, \r\nFrom Eden over Pontus and the pool \r\nMaeotis, up beyond the river Ob; \r\nDownward as far Antarctic; and in length, \r\nWest from Orontes to the ocean barred \r\nAt Darien ; thence to the land where flows \r\nGanges and Indus: Thus the orb he roamed \r\nWith narrow search; and with inspection deep \r\nConsidered every creature, which of all \r\nMost opportune might serve his wiles; and found \r\nThe Serpent subtlest beast of all the field.\" (9.69-86) [neutral]",
Comments:"One of the great rivers of Mesopotamia",
Related:"forty",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"river",
"Topographical features (general)":"river" },
{ Place:"Pontus",
Latitude:"40.500000",
Longitude:"40.500000",
Weight:"1",
Team:"Positive",
Content:"\"Bestirs her then, and from each tender stalk \r\nWhatever Earth, all-bearing mother, yields \r\nIn India East or West, or middle shore \r\nIn Pontus or the Punick coast, or where \r\nAlcinous reigned, fruit of all kinds, in coat \r\nRough, or smooth rind, or bearded husk, or shell, \r\nShe [Eve] gathers, tribute large, and on the board \r\nHeaps with unsparing hand\" (4.337-344) [postive] / \"There was a place, \r\nNow not, though sin, not time, first wrought the change, \r\nWhere Tigris, at the foot of Paradise, \r\nInto a

gulf shot under ground, till part \r\nRose up a fountain by the tree of life: \r\nIn with the river sunk, and with it rose \r\nSatan, involved in rising mist; then sought \r\nWhere to lie hid; sea he had searched, and land, \r\nFrom Eden over Pontus and the pool \r\nMaeotis, up beyond the river Ob; \r\nDownward as far Antarctic; and in length, \r\nWest from Orontes to the ocean barred \r\nAt Darien ; thence to the land where flows \r\nGanges and Indus: Thus the orb he roamed \r\nWith narrow search; and with inspection deep \r\nConsidered every creature, which of all \r\nMost opportune might serve his wiles; and found \r\nThe Serpent subtlest beast of all the field.\" (9.69-86) [neutral]",
Comments:"The Black Sea. Fertile land associated with fruitfulness of Paradise. ",
Related:"sseven / forty",
Type:"",
Negative:"0",
Postive:"1",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Punic Coast",
Latitude:"36.858056",
Longitude:"10.330833",
Weight:"1",
Team:"Positive",
Content:"\"Bestirs her then, and from each tender stalk \r\nWhatever Earth, all-bearing mother, yields \r\nIn India East or West, or middle shore \r\nIn Pontus or the Punick coast, or where \r\nAlcinous reigned, fruit of all kinds, in coat \r\nRough, or smooth rind, or bearded husk, or shell, \r\nShe [Eve] gathers, tribute large, and on the board \r\nHeaps with unsparing hand\" (4.337-344) [postive]",
Comments:"North African coast, delimiting Carthaginian empire. Fertile land associated with fruitfulness of Paradise. ",
Related:"sseven",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Epidaurus",
Latitude:"37.633333",
Longitude:"23.133333",
Weight:"1",
Team:"Neutral",
Content:"\"So spake the enemy of mankind, enclosed \r\nIn serpent, inmate bad, and toward Eve \r\nAddressed his way: not with indented wave, \r\nProne on the ground, as since; but on his rear, \r\nCircular base of rising folds, that towered \r\nFold above fold, a surging maze, his head \r\nCrested aloft, and carbuncle his eyes; \r\nWith burnished neck of verdant gold, erect \r\nAmidst his circling spires, that on the grass \r\nFloated redundant: pleasing was his shape \r\nAnd lovely; never since of serpent-kind

\r\nLovelier, not those that in Illyria changed, \r\nHermione and Cadmus, or the god \r\nIn Epidaurus; nor to which transformed \r\nAmmonian Jove, or Capitoline, was seen; \r\nHe with Olympias; this with her who bore \r\nScipio, the heighth of Rome.\" (9.494-510) [neutral]",
Comments:"Greek city to which a Roman embassy came seeking the aid of Aesclepius, god of healing, who was metamorphosed into a snake.",
Related:"fone",
Type:"",
Negative:"0",
Postive:"1",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Rome",
Latitude:"41.900000",
Longitude:"12.500000",
Weight:"3",
Team:"Negative",
Content:"\"So spake the enemy of mankind, enclosed \r\nIn serpent, inmate bad, and toward Eve \r\nAddressed his way: not with indented wave, \r\nProne on the ground, as since; but on his rear, \r\nCircular base of rising folds, that towered \r\nFold above fold, a surging maze, his head \r\nCrested aloft, and carbuncle his eyes; \r\nWith burnished neck of verdant gold, erect \r\nAmidst his circling spires, that on the grass \r\nFloated redundant: pleasing was his shape \r\nAnd lovely; never since of serpent-kind \r\nLovelier, not those that in Illyria changed, \r\nHermione and Cadmus, or the god \r\nIn Epidaurus; nor to which transformed \r\nAmmonian Jove, or Capitoline, was seen; \r\nHe with Olympias; this with her who bore \r\nScipio, the heighth of Rome.\" (9.494-510) [neutral] / \"She scarce had said, though brief, when now more bold \r\nThe Tempter, but with show of zeal and love \r\nTo Man, and indignation at his wrong, \r\nNew part puts on; and, as to passion moved, \r\nFluctuates disturbed, yet comely and in act \r\nRaised, as of some great matter to begin. \r\nAs when of old some orator renowned, \r\nIn Athens or free Rome, where eloquence \r\nFlourished, since mute, to some great cause addressed, \r\nStood in himself collected; while each part, \r\nMotion, each act, won audience ere the tongue; \r\nSometimes in heighth began, as no delay \r\nOf preface brooking, through his zeal of right: \r\nSo standing, moving, or to heighth up grown, \r\nThe Tempter, all impassioned, thus began.\" (9.664-678) [negative]/ \"To whom thus Adam gratefully replied. \r\nAscend, I follow thee, safe Guide, the path \r\nThou leadest me; and to the hand of Heaven submit, \r\nHowever chastening; to the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd

Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [negative]",
Comments:"Capital of Roman Empire, metropolis of Scipio. / Center of classical rhetorical culture (here subject to implicit opprobrium). / Center of future empire revealed to Adam.",
Related:"fone/ mint/ seventy",
Type:"",
Negative:"2",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Dothan",
Latitude:"32.143060",
Longitude:"35.260620",
Weight:"1",
Team:"Neutral",
Content:"\"Nor that, which on the flaming mount appeared \r\nIn Dothan, covered with a camp of fire, \r\nAgainst the Syrian king, who to surprise \r\nOne man, assassin-like, had levied war, \r\nWar unproclaimed.\" (11.216-220) [negative]",
Comments:"City whose siege by Syrian king occasioned the prophet Elisha's vision of an angelic army (2 Kings 6).",
Related:"fnine",
Type:"B",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Ur",
Latitude:"30.962500",
Longitude:"46.103056",
Weight:"1",
Team:"Positive",
Content:"\"Yet him God the Most High vouchsafes \r\nTo call by vision, from his father's house, \r\nHis kindred, and false Gods, into a land \r\nWhich he will show him; and from

him will raise \r\nA mighty nation; and upon him shower \r\nHis benediction so, that in his seed \r\nAll nations shall be blest: he straight obeys; \r\nNot knowing to what land, yet firm believes: \r\nI see him, but thou canst not, with what faith \r\nHe leaves his Gods, his friends, and native soil, \r\nUr of Chaldaea, passing now the ford \r\nTo Haran; after him a cumbrous train \r\nOf herds and flocks, and numerous servitude; \r\nNot wandering poor, but trusting all his wealth \r\nWith God, who called him, in a land unknown. \r\nCanaan he now attains; I see his tents \r\nPitched about Sechem, and the neighboring plain \r\nOf Moreh; there by promise he receives \r\nGift to his progeny of all that land, \r\nFrom Hameth northward to the Desert south; \r\n(Things by their names I call, though yet unnamed;) \r\nFrom Hermon east to the great western Sea; \r\nMount Hermon, yonder sea; each place behold \r\nIn prospect, as I point them; on the shore \r\nMount Carmel; here, the double-founted stream, \r\nJordan, true limit eastward; but his sons \r\nShall dwell to Senir, that long ridge of hills. \r\nThis ponder, that all nations of the earth \r\nShall in his seed be blessed\" (12.120-148) [positive]",
Comments:"Ancient Babylonian city. Abraham travelled from his home in Ur to Canaan, the Promised Land.",
Related:"phtwo",
Type:"B",
Negative:"0",
Postive:"1",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Haran",
Latitude:"36.877500",
Longitude:"39.033889",
Weight:"1",
Team:"Positive",
Content:"\"Yet him God the Most High vouchsafes \r\nTo call by vision, from his father's house, \r\nHis kindred, and false Gods, into a land \r\nWhich he will show him; and from him will raise \r\nA mighty nation; and upon him shower \r\nHis benediction so, that in his seed \r\nAll nations shall be blest: he straight obeys; \r\nNot knowing to what land, yet firm believes: \r\nI see him, but thou canst not, with what faith \r\nHe leaves his Gods, his friends, and native soil, \r\nUr of Chaldaea, passing now the ford \r\nTo Haran; after him a cumbrous train \r\nOf herds and flocks, and numerous servitude; \r\nNot wandering poor, but trusting all his wealth \r\nWith God, who called him, in a land unknown. \r\nCanaan he now attains; I see his tents \r\nPitched about Sechem, and the neighboring plain \r\nOf Moreh; there by promise he receives \r\nGift to his progeny of all that land, \r\nFrom Hameth northward to the Desert south; \r\n(Things by their names I call, though yet unnamed;) \r\nFrom Hermon east to the great western Sea; \r\nMount Hermon, yonder sea; each place behold \r\nIn prospect, as I point them; on the shore \r\nMount Carmel; here, the double-founted stream, \r\nJordan, true limit eastward; but his sons \r\nShall dwell to Senir, that long ridge of hills. \r\nThis ponder, that all nations of the earth \r\nShall in his seed be blessed\" (12.120-148) [neutral]",
Comments:"City on the border of Canaan. Abraham travelled from his home in Ur to Canaan, the Promised Land.",

Related:"phtwo",
Type:"B",
Negative:"0",
Postive:"1",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Sechem",
Latitude:"32.203056",
Longitude:"35.311111",
Weight:"1",
Team:"Positive",
Content:"\"Yet him God the Most High vouchsafes \r\nTo call by vision, from his father's house, \r\nHis kindred, and false Gods, into a land \r\nWhich he will show him; and from him will raise \r\nA mighty nation; and upon him shower \r\nHis benediction so, that in his seed \r\nAll nations shall be blest: he straight obeys; \r\nNot knowing to what land, yet firm believes: \r\nI see him, but thou canst not, with what faith \r\nHe leaves his Gods, his friends, and native soil, \r\nUr of Chaldaea, passing now the ford \r\nTo Haran; after him a cumbrous train \r\nOf herds and flocks, and numerous servitude; \r\nNot wandering poor, but trusting all his wealth \r\nWith God, who called him, in a land unknown. \r\nCanaan he now attains; I see his tents \r\nPitched about Sechem, and the neighboring plain \r\nOf Moreh; there by promise he receives \r\nGift to his progeny of all that land, \r\nFrom Hameth northward to the Desert south; \r\n(Things by their names I call, though yet unnamed;) \r\nFrom Hermon east to the great western Sea; \r\nMount Hermon, yonder sea; each place behold \r\nIn prospect, as I point them; on the shore \r\nMount Carmel; here, the double-founted stream, \r\nJordan, true limit eastward; but his sons \r\nShall dwell to Senir, that long ridge of hills. \r\nThis ponder, that all nations of the earth \r\nShall in his seed be blessed\" (12.120-148) [neutral]",
Comments:"Commercial center of Canaan; site of Joshua's covenant with Israel. Abraham travelled from his home in Ur to Canaan, the Promised Land.",
Related:"phtwo",
Type:"B",
Negative:"0",
Postive:"1",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Hamath",
Latitude:"35.133333",
Longitude:"36.750000",
Weight:"1",
Team:"Positive",
Content:"\"Yet him God the Most High vouchsafes \r\nTo call by vision, from his father's house, \r\nHis kindred, and false Gods, into a land \r\nWhich he will show him; and from him will raise \r\nA mighty nation; and upon him shower \r\nHis benediction so, that in his seed \r\nAll nations shall be blest: he straight obeys; \r\nNot knowing to what land,

yet firm believes: \r\nI see him, but thou canst not, with what faith \r\nHe leaves his Gods, his friends, and native soil, \r\nUr of Chaldaea, passing now the ford \r\nTo Haran; after him a cumbrous train \r\nOf herds and flocks, and numerous servitude; \r\nNot wandering poor, but trusting all his wealth \r\nWith God, who called him, in a land unknown. \r\nCanaan he now attains; I see his tents \r\nPitched about Sechem, and the neighboring plain \r\nOf Moreh; there by promise he receives \r\nGift to his progeny of all that land, \r\nFrom Hameth northward to the Desert south; \r\n(Things by their names I call, though yet unnamed;) \r\nFrom Hermon east to the great western Sea; \r\nMount Hermon, yonder sea; each place behold \r\nIn prospect, as I point them; on the shore \r\nMount Carmel; here, the double-founted stream, \r\nJordan, true limit eastward; but his sons \r\nShall dwell to Senir, that long ridge of hills. \r\nThis ponder, that all nations of the earth \r\nShall in his seed be blessed\" (12.120-148) [neutral]",
Comments:"City marking the northern limit of the Holy Land.",
Related:"phtwo",
Type:"B",
Negative:"0",
Postive:"1",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Hermon",
Latitude:"33.416111",
Longitude:"35.857500",
Weight:"2",
Team:"Positive",
Content:"\"Yet him God the Most High vouchsafes \r\nTo call by vision, from his father's house, \r\nHis kindred, and false Gods, into a land \r\nWhich he will show him; and from him will raise \r\nA mighty nation; and upon him shower \r\nHis benediction so, that in his seed \r\nAll nations shall be blest: he straight obeys; \r\nNot knowing to what land, yet firm believes: \r\nI see him, but thou canst not, with what faith \r\nHe leaves his Gods, his friends, and native soil, \r\nUr of Chaldaea, passing now the ford \r\nTo Haran; after him a cumbrous train \r\nOf herds and flocks, and numerous servitude; \r\nNot wandering poor, but trusting all his wealth \r\nWith God, who called him, in a land unknown. \r\nCanaan he now attains; I see his tents \r\nPitched about Sechem, and the neighboring plain \r\nOf Moreh; there by promise he receives \r\nGift to his progeny of all that land, \r\nFrom Hameth northward to the Desert south; \r\n(Things by their names I call, though yet unnamed;) \r\nFrom Hermon east to the great western Sea; \r\nMount Hermon, yonder sea; each place behold \r\nIn prospect, as I point them; on the shore \r\nMount Carmel; here, the double-founted stream, \r\nJordan, true limit eastward; but his sons \r\nShall dwell to Senir, that long ridge of hills. \r\nThis ponder, that all nations of the earth \r\nShall in his seed be blessed\" (12.120-148) [neutral]",
Comments:"High mountain marking boundary between Syria and Lebanon.",
Related:"phtwo",
Type:"B",
Negative:"0",
Postive:"2",

Neutral:"0",
"Topographical features":"mountain",
"Topographical features (general)":"mountain" },
{ Place:"Mount Carmel",
Latitude:"32.730000",
Longitude:"35.050000",
Weight:"1",
Team:"Positive",
Content:"\"Yet him God the Most High vouchsafes \r\nTo call by vision, from his father's house, \r\nHis kindred, and false Gods, into a land \r\nWhich he will show him; and from him will raise \r\nA mighty nation; and upon him shower \r\nHis benediction so, that in his seed \r\nAll nations shall be blest: he straight obeys; \r\nNot knowing to what land, yet firm believes: \r\nI see him, but thou canst not, with what faith \r\nHe leaves his Gods, his friends, and native soil, \r\nUr of Chaldaea, passing now the ford \r\nTo Haran; after him a cumbrous train \r\nOf herds and flocks, and numerous servitude; \r\nNot wandering poor, but trusting all his wealth \r\nWith God, who called him, in a land unknown. \r\nCanaan he now attains; I see his tents \r\nPitched about Sechem, and the neighboring plain \r\nOf Moreh; there by promise he receives \r\nGift to his progeny of all that land, \r\nFrom Hameth northward to the Desert south; \r\n(Things by their names I call, though yet unnamed;) \r\nFrom Hermon east to the great western Sea; \r\nMount Hermon, yonder sea; each place behold \r\nIn prospect, as I point them; on the shore \r\nMount Carmel; here, the double-founted stream, \r\nJordan, true limit eastward; but his sons \r\nShall dwell to Senir, that long ridge of hills. \r\nThis ponder, that all nations of the earth \r\nShall in his seed be blessed\" (12.120-148) [neutral]",
Comments:"Mountain in Palestine.",
Related:"phtwo",
Type:"B",
Negative:"0",
Postive:"1",
Neutral:"0",
"Topographical features":"mountain",
"Topographical features (general)":"mountian" },
{ Place:"Jordan",
Latitude:"31.950000",
Longitude:"35.933333",
Weight:"1",
Team:"Positive",
Content:"\"Yet him God the Most High vouchsafes \r\nTo call by vision, from his father's house, \r\nHis kindred, and false Gods, into a land \r\nWhich he will show him; and from him will raise \r\nA mighty nation; and upon him shower \r\nHis benediction so, that in his seed \r\nAll nations shall be blest: he straight obeys; \r\nNot knowing to what land, yet firm believes: \r\nI see him, but thou canst not, with what faith \r\nHe leaves his Gods, his friends, and native soil, \r\nUr of Chaldaea, passing now the ford \r\nTo Haran; after him a cumbrous train \r\nOf herds and flocks, and numerous servitude; \r\nNot wandering poor, but trusting all his wealth \r\nWith God, who called him, in a land unknown. \r\nCanaan he now attains; I see his tents \r\nPitched about Sechem, and the

neighboring plain \r\nOf Moreh; there by promise he receives \r\nGift to his progeny of all that land, \r\nFrom Hameth northward to the Desert south; \r\n(Things by their names I call, though yet unnamed;) \r\nFrom Hermon east to the great western Sea; \r\nMount Hermon, yonder sea; each place behold \r\nIn prospect, as I point them; on the shore \r\nMount Carmel; here, the double-founted stream, \r\nJordan, true limit eastward; but his sons \r\nShall dwell to Senir, that long ridge of hills. \r\nThis ponder, that all nations of the earth \r\nShall in his seed be blessed\" (12.120-148) [neutral]",
Comments:"River of the Holy Land, defining its eastward limit.",
Related:"phtwo",
Type:"B",
Negative:"0",
Postive:"1",
Neutral:"0",
"Topographical features":"river",
"Topographical features (general)":"river" },
{ Place:"Gibeon",
Latitude:"31.847451",
Longitude:"35.183351",
Weight:"1",
Team:"Positive",
Content:"\"The rest \r\nWere long to tell; how many battles fought \r\nHow many kings destroyed; and kingdoms won; \r\nOr how the sun shall in mid Heaven stand still \r\nA day entire, and night's due course adjourn, \r\nMan's voice commanding, 'Sun, in Gibeon stand, \r\n'And thou moon in the vale of Aialon, \r\n'Till Israel overcome, so call the third \r\nFrom Abraham, son of Isaac; and from him \r\nHis whole descent, who thus shall Canaan win.\" (12.260-269) [neutral]",
Comments:"Site of Joshua's rout of Amorite kings; invoked in his speech arresting the motion of sun and moon (Josh. 10).",
Related:"phthree",
Type:"B",
Negative:"0",
Postive:"1",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Aialon",
Latitude:"31.867500",
Longitude:"34.959444",
Weight:"1",
Team:"Positive",
Content:"\"The rest \r\nWere long to tell; how many battles fought \r\nHow many kings destroyed; and kingdoms won; \r\nOr how the sun shall in mid Heaven stand still \r\nA day entire, and night's due course adjourn, \r\nMan's voice commanding, 'Sun, in Gibeon stand, \r\n'And thou moon in the vale of Aialon, \r\n'Till Israel overcome, so call the third \r\nFrom Abraham, son of Isaac; and from him \r\nHis whole descent, who thus shall Canaan win.\" (12.260-269) [neutral]",

Comments:"Valley invoked in Joshua's speech arresting the motion of sun and moon (Josh. 10).",
Related:"phthree",
Type:"B",
Negative:"0",
Postive:"1",
Neutral:"0",
"Topographical features":"valley",
"Topographical features (general)":"valley" },
{ Place:"Athens",
Latitude:"37.983972",
Longitude:"23.727806",
Weight:"1",
Team:"Negative",
Content:"\"She scarce had said, though brief, when now more bold \r\n\r\nThe Tempter, but with show of zeal and love \r\n\r\nTo Man, and indignation at his wrong, \r\n\r\nNew part puts on; and, as to passion moved, \r\n\r\nFluctuates disturbed, yet comely and in act \r\n\r\nRaised, as of some great matter to begin. \r\n\r\nAs when of old some orator renowned, \r\n\r\nIn Athens or free Rome, where eloquence \r\n\r\nFlourished, since mute, to some great cause addressed, \r\n\r\nStood in himself collected; while each part, \r\n\r\nMotion, each act, won audience ere the tongue; \r\n\r\nSometimes in heighth began, as no delay \r\n\r\nOf preface brooking, through his zeal of right: \r\n\r\nSo standing, moving, or to heighth up grown, \r\n\r\nThe Tempter, all impassioned, thus began.\" (9.664-678) [negative]",
Comments:"Center of classical rhetorical culture (here subject to implicit opprobrium).",
Related:"mint",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Palestine",
Latitude:"31.900000",
Longitude:"35.200000",
Weight:"2",
Team:"Negative",
Content:"\"Oh how unlike the place from whence they [angels] fell! \r\nThere the companions of his fall, overwhelmed \r\nWith floods and whirlwinds of tempestuous fire, \r\nHe soon discerns, and weltering by his side \r\nOne next himself in power, and next in crime, \r\nLong after known in Palestine, and named \r\nBeelzebub.\" (1.75-81) [negative] / \"Next came one \r\nWho mourned in earnest, when the captive Ark \r\nMaimed his brute image, head and hands lopped off \r\nIn his own temple, on the grunsel edge, \r\nWhere he fell flat, and shamed his worshipers: \r\nDagon his name, sea monster, upward man \r\nAnd downward fish: yet had his temple high \r\nReared in Azotus, dreaded through

the coast \r\nOf Palestine, in Gath and Ascalon \r\nAnd Accaron and Gaza's frontier bounds.\" (1.457-466) [neutral]",
Comments:"Biblical Holy Land and Roman Province. Associated with pagan worship, as of Dagon.",
Related:"two/ fourteen",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Fesole",
Latitude:"43.807222",
Longitude:"11.291944",
Weight:"1",
Team:"Neutral",
Content:"\"He [Beelzebub] scarce had ceased when the superior Fiend \r\nWas moving toward the shore; his ponderous shield \r\nEthereal temper, massy, large and round, \r\nBehind him cast; the broad circumference \r\nHung on his shoulders like the moon, whose orb \r\nThrough optic glass the Tuscan artist views \r\nAt evening from the top of Fesole, \r\nOr in Valdarno, to descry new lands, \r\nRivers or mountains in her spotty globe.\" (1.283-291) [neutral]",
Comments:"Site of Galileo's lunar observations, evoked in connection with simile describing Satan's shield.",
Related:"five",
Type:"S",
Negative:"0",
Postive:"1",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Valdarno",
Latitude:"43.566667",
Longitude:"11.533333",
Weight:"1",
Team:"Neutral",
Content:"\"He scarce had ceased when the superior Fiend \r\nWas moving toward the shore; his ponderous shield \r\nEthereal temper, massy, large and round, \r\nBehind him cast; the broad circumference \r\nHung on his shoulders like the moon, whose orb \r\nThrough optic glass the Tuscan artist views \r\nAt evening from the top of Fesole, \r\nOr in Valdarno, to descry new lands, \r\nRivers or mountains in her spotty globe.\" (1.283-291) [neutral]",
Comments:"Site of Galileo's lunar observations, evoked in connection with simile describing Satan's shield.",
Related:"five",
Type:"S",

Negative:"",
Postive:"",
Neutral:"",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Gibraltar",
Latitude:"36.143000",
Longitude:"-5.353000",
Weight:"1",
Team:"Negative",
Content:"\"Waved round the coast, up called a pitchy cloud\r\nOf locusts, warping on the eastern wind,\r\nThat ore the realm of impious Pharaoh hung\r\n\"Like night, and darkened all the land of Nile:\r\nSo numberless were those bad angels seen\r\nHovering on wing under the cope of Hell\r\nedwixt upper, nether, and surrounding fires;\r\nTill, as a signal given, the uplifted spear\r\nOf their great sultan waving to direct\r\nTheir course, in even balance down they light\r\nOn the firm brimstone, and fill all the plain;\r\nA multitude, like which the populous north\r\nPoured never from her frozen loins, to pass\r\nRhene or the Danaw, when her barbarous sons\r\nCame like a deluge on the south, and spread\r\nBeneath Gibraltar to the Libyan sands.\" (1.340-355) [negative]",
Comments:"Southern tip of the Iberian peninsula, invoked in simile comparing fallen angels to tribes (Goths, Huns, Vandals) that attacked the Roman Empire from the third to fifth centuries, which they uncountably outnumber.",
Related:"ten",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Libya",
Latitude:"27.000000",
Longitude:"17.000000",
Weight:"3",
Team:"Neutral",
Content:"\"Waved round the coast, up called a pitchy cloud\r\nOf locusts, warping on the eastern wind,\r\nThat ore the realm of impious Pharaoh hung\r\n\"Like night, and darkened all the land of Nile:\r\nSo numberless were those bad angels seen\r\nHovering on wing under the cope of Hell\r\nedwixt upper, nether, and surrounding fires;\r\nTill, as a signal given, the uplifted spear\r\nOf their great sultan waving to direct\r\nTheir course, in even balance down they light\r\nOn the firm brimstone, and fill all the plain;\r\nA multitude, like which the populous north\r\nPoured never from her frozen loins, to pass\r\nRhene or the Danaw, when her barbarous sons\r\nCame like a deluge on the south, and spread\r\nBeneath Gibraltar to the Libyan sands.\" (1.340-355) [negative]/ \"nor that Nyseian isle \r\nGirt with the river Triton, where old Cham, \r\nWhom Gentiles Ammon call and Libyan Jove, \r\nHid Amalthea, and her florid son \r\nYoung Bacchus, from his stepdame Rhea's eye\" (4.273-277) [neutral]/ \"High in front advanced, \r\nThe

brandished sword of God before them blazed, \r\nFierce as a comet; which with torrid heat, \r\nAnd vapor as the Libyan air adust, \r\nBegan to parch that temperate clime; whereat \r\nIn either hand the hastening angel caught \r\nOur lingering parents, and to the eastern gate \r\nLed them direct, and down the cliff as fast \r\nTo the subjected plain; then disappeared.\" (12.632-640) [neutral]",
Comments:"North African kingdom, invoked in simile comparing fallen angels to tribes (Goths, Huns, Vandals) that attacked the Roman Empire from the third to fifth centuries, which they uncountably outnumber.",
Related:"ten",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"2",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Lebanon",
Latitude:"33.900000",
Longitude:"35.533333",
Weight:"1",
Team:"Neutral",
Content:"\"Thammuz came next behind,\r\nWhose annual wound in Lebanon allured\r\nThe Syrian damsels to lament his fate\r\nIn amorous ditties all a summer’s day,\r\nWhile smooth Adonis from his native rock\r\nRan purple to the sea, supposed with blood\r\nOf Thammuz yearly wounded: the love-tale\r\nInfected Sion’s daughters with like heat,\r\nWhose wanton passions in the sacred porch\r\nEzekiel saw, when by the vision led\r\nHis eye surveyed the dark idolatries\r\nOf alienated Judah.\" (1.446-457) [negative]",
Comments:"Associated with wordship of Thammuz, the Phoenician original of Adonis, whose death signified the change of season and for whom is named a river (in modern Lebanon) that turns red after the summer solace (supposedly with the blood of Adonis's wound).",
Related:"twelve",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"",
"Topographical features (general)":"" },
{ Place:"Ausonian Land",
Latitude:"41.350000",
Longitude:"13.750000",
Weight:"1",
Team:"Negative",
Content:"\"Nor was his name unheard or unadored \r\nIn ancient Greece; and in Ausonian land \r\nMen called him Mulciber; and how he fell \r\nFrom Heaven, they fabled, thrown by angry Jove \r\nSheer over the crystal battlements: from morn \r\nTo noon he fell, from noon to dewy eve, \r\nA summer’s day; and with the setting sun \r\nDropt from the zenith

like a falling star, \r\nOn Lemnos the Aegean isle: thus they relate, \r\nErring\" (1.738-747) [neutral]",
Comments:"Italy, where artificer god is called \"Mulciber\".",
Related:"eighteen",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Lemnos",
Latitude:"39.916667",
Longitude:"25.250000",
Weight:"1",
Team:"Neutral",
Content:"\"In Heaven by many a towered structure high, \r\nWhere sceptered angels held their residence, \r\nAnd sat as princes, whom the supreme King \r\nExalted to such power, and gave to rule, \r\nEach in his hierarchy, the orders bright. \r\nNor was his name unheard or unadored \r\nIn ancient Greece; and in Ausonian land \r\nMen called him Mulciber; and how he fell \r\nFrom Heaven, they fabled, thrown by angry Jove \r\nSheer over the crystal battlements: from morn \r\nTo noon he fell, from noon to dewy eve, \r\nA summer's day; and with the setting sun \r\nDropt from the zenith like a falling star, \r\nOn Lemnos the Aegean isle: thus they relate, \r\nErring; for he with this rebellious rout \r\nFell long before; nor aught availed him now \r\nTo have built in Heaven high towers; nor did he escape \r\nBy all his engines, but was headlong sent \r\nWith his industrious crew to build in hell.\" (1.722-751) [negative]",
Comments:"Greek island where fallen Mulciber landed.",
Related:"eighteen",
Type:"",
Negative:"1",
Postive:"0",
Neutral:"0",
"Topographical features":"island",
"Topographical features (general)":"island" },
{ Place:"Hydaspes",
Latitude:"31.200000",
Longitude:"72.133333",
Weight:"1",
Team:"Neutral",
Content:"\"Here walked the Fiend at large in spacious field. \r\nAs when a vulture on Imaus bred, \r\nWhose snowy ridge the roving Tartar bounds, \r\nDislodging from a region scarce of prey \r\nTo gorge the flesh of lambs or yeanling kids, \r\nOn hills where flocks are fed, flies toward the springs \r\nOf Ganges or Hydaspes, Indian streams; \r\nBut in his way lights on the barren plains \r\nOf Sericana, where Chineses drive \r\nWith sails and wind their cany wagons light: \r\nSo, on this windy sea of land, the Fiend \r\nWalked up and down alone, bent on his prey\" (3.430-441) [neutral]",

Comments:"River with a source in the Himalayas: \"the Chelum or Jhelum River in the Punjab, Eastern limit of Alexander's conquests\" (Fowlere); passed by Satan en route to Eden.",
Related:"tseven",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"river",
"Topographical features (general)":"river" },
{ Place:"Sericana",
Latitude:"35.000000",
Longitude:"103.000000",
Weight:"1",
Team:"Neutral",
Content:"\"Here walked the Fiend at large in spacious field. \r\nAs when a vulture on Imaus bred, \r\nWhose snowy ridge the roving Tartar bounds, \r\nDislodging from a region scarce of prey \r\nTo gorge the flesh of lambs or yeanling kids, \r\nOn hills where flocks are fed, flies toward the springs \r\nOf Ganges or Hydaspes, Indian streams; \r\nBut in his way lights on the barren plains \r\nOf Sericana, where Chineses drive \r\nWith sails and wind their cany wagons light: \r\nSo, on this windy sea of land, the Fiend \r\nWalked up and down alone, bent on his prey\" (3.430-441) [neutral]",
Comments:"China; passed by Satan en route to Eden.",
Related:"tseven",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Cape of Hope",
Latitude:"-34.358056",
Longitude:"18.471944",
Weight:"1",
Team:"Positive",
Content:"\"Now gentle gales, \r\nFanning their odoriferous wings, dispense \r\nNative perfumes, and whisper whence they stole \r\nThose balmy spoils. As when to them who fail \r\nBeyond the Cape of Hope, and now are past \r\nMozambique, off at sea north-east winds blow \r\nSabean odors from the spicy shore \r\nOf Araby the blest; with such delay \r\nWell pleased they slack their course, and many a league \r\nCheered with the grateful smell old Ocean smiles\" (4.154-163) [positive]",
Comments:"The southern tip of the African continent, here connected to the spice trade in the context of the perfumes of Paradise.",
Related:"sone",
Type:"",
Negative:"0",

Postive:"1",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Mozambique",
Latitude:"-25.950000",
Longitude:"32.583333",
Weight:"1",
Team:"Postive",
Content:"\"Now gentle gales, \r\nFanning their odoriferous wings, dispense \r\nNative perfumes, and whisper whence they stole \r\nThose balmy spoils. As when to them who fail \r\nBeyond the Cape of Hope, and now are past \r\nMozambique, off at sea north-east winds blow \r\nSabean odors from the spicy shore \r\nOf Araby the blest; with such delay \r\nWell pleased they slack their course, and many a league \r\nCheered with the grateful smell old Ocean smiles\" (4.154-163) [neutral]",
Comments:"African island, here connected to the spice trade in the context of the perfumes of Paradise.",
Related:"sone",
Type:"",
Negative:"0",
Postive:"1",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Araby the Blest",
Latitude:"15.000000",
Longitude:"48.000000",
Weight:"1",
Team:"Postive",
Content:"\"Now gentle gales, \r\nFanning their odoriferous wings, dispense \r\nNative perfumes, and whisper whence they stole \r\nThose balmy spoils. As when to them who fail \r\nBeyond the Cape of Hope, and now are past \r\nMozambique, off at sea north-east winds blow \r\nSabean odors from the spicy shore \r\nOf Araby the blest; with such delay \r\nWell pleased they slack their course, and many a league \r\nCheered with the grateful smell old Ocean smiles\" (4.154-163) [neutral]",
Comments:"\"Arabia Felix,\" here connected to the spice trade in the context of the perfumes of Paradise.",
Related:"sone",
Type:"",
Negative:"0",
Postive:"1",
Neutral:"0",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Cyclades",
Latitude:"37.000000",

Longitude:"25.166667",
Weight:"1",
Team:"Neutral",
Content:"\"As when by night the glass \r\nOf Galileo, less assured, observes \r\nImagined lands and regions in the moon: \r\nOr pilot, from amidst the Cyclades \r\nDelos or Samos first appearing, kens \r\nA cloudy spot. Down thither prone in flight \r\nHe [Raphael] speeds, and through the vast ethereal sky \r\nSails between worlds and worlds, with steady wing \r\nNow on the polar winds, then with quick fan \r\nWinnows the buxom air; till, within soar \r\nOf towering eagles, to all the fowls he seems \r\nA phoenix, gazed by all as that sole bird, \r\nWhen, to enshrine his relics in the sun's \r\nBright temple, to Egyptian Thebes he flies.\" (5.261-274) [neutral]",
Comments:"Archipelago of 220 Greek islands. ",
Related:"sfive",
Type:"S",
Negative:"",
Postive:"",
Neutral:"",
"Topographical features":"",
"Topographical features (general)":"" },
{ Place:"Samos",
Latitude:"37.750000",
Longitude:"26.833333",
Weight:"1",
Team:"Neutral",
Content:"\"As when by night the glass \r\nOf Galileo, less assured, observes \r\nImagined lands and regions in the moon: \r\nOr pilot, from amidst the Cyclades \r\nDelos or Samos first appearing, kens \r\nA cloudy spot. Down thither prone in flight \r\nHe [Raphael] speeds, and through the vast ethereal sky \r\nSails between worlds and worlds, with steady wing \r\nNow on the polar winds, then with quick fan \r\nWinnows the buxom air; till, within soar \r\nOf towering eagles, to all the fowls he seems \r\nA phoenix, gazed by all as that sole bird, \r\nWhen, to enshrine his relics in the sun's \r\nBright temple, to Egyptian Thebes he flies.\" (5.261-274) [neutral]",
Comments:"Greek island; home of Pythagoras (perhaps relevant in context of stellar observation and navigation).",
Related:"sfive",
Type:"S",
Negative:"",
Postive:"",
Neutral:"",
"Topographical features":"",
"Topographical features (general)":"" },
{ Place:"Thebes",
Latitude:"25.720556",
Longitude:"32.610278",
Weight:"2",
Team:"Neutral",

Content:"\"As when by night the glass \r\nOf Galileo, less assured, observes \r\nImagined lands and regions in the moon: \r\nOr pilot, from amidst the Cyclades \r\nDelos or Samos first appearing, kens \r\nA cloudy spot. Down thither prone in flight \r\nHe [Raphael] speeds, and through the vast ethereal sky \r\nSails between worlds and worlds, with steady wing \r\nNow on the polar winds, then with quick fan \r\nWinnows the buxom air; till, within soar \r\nOf towering eagles, to all the fowls he seems \r\nA phoenix, gazed by all as that sole bird, \r\nWhen, to enshrine his relics in the sun's \r\nBright temple, to Egyptian Thebes he flies.\" (5.261-274) [neutral]/ \"He through the armed files \r\nDarts his experienced eye, and soon traverse \r\nThe whole battalion views, their order due, \r\nTheir visages and stature as of gods, \r\nTheir number last he sums. And now his heart \r\nDistends with pride, and hardening in his strength \r\nGlories: For never since created man, \r\nMet such embodied force, as named with these \r\nCould merit more then that small infantry \r\nWarred on by cranes: though all the giant brood \r\nOf Phlegra with the heroic race were joined \r\nThat fought at Thebes and Ilium, on each side \r\nMixed with auxiliar gods\" (1.567-579) [neutral]",
Comments:"Place where phoenix deposits its ashes after its regular immolations. / Site of battle whose combatants are compared to Satan's forces.",
Related:"sfive/ ssix",
Type:"M",
Negative:"0",
Postive:"0",
Neutral:"2",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Maeotis",
Latitude:"46.000000",
Longitude:"37.000000",
Weight:"1",
Team:"Neutral",
Content:"\"There was a place, \r\nNow not, though sin, not time, first wrought the change, \r\nWhere Tigris, at the foot of Paradise, \r\nInto a gulf shot under ground, till part \r\nRose up a fountain by the tree of life: \r\nIn with the river sunk, and with it rose \r\nSatan, involved in rising mist; then sought \r\nWhere to lie hid; sea he had searched, and land, \r\nFrom Eden over Pontus and the pool \r\nMaeotis, up beyond the river Ob; \r\nDownward as far Antarctic; and in length, \r\nWest from Orontes to the ocean barred \r\nAt Darien ; thence to the land where flows \r\nGanges and Indus: Thus the orb he roamed \r\nWith narrow search; and with inspection deep \r\nConsidered every creature, which of all \r\nMost opportune might serve his wiles; and found \r\nThe Serpent subtlest beast of all the field.\" (9.69-86) [neutral]",
Comments:"The Sea of Azov.",
Related:"forty",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"sea",

"Topographical features (general)":"water" },
{ Place:"Ob",
Latitude:"66.533889",
Longitude:"71.394722",
Weight:"1",
Team:"Neutral",
Content:"\"There was a place, \r\nNow not, though sin, not time, first wrought the change, \r\nWhere Tigris, at the foot of Paradise, \r\nInto a gulf shot under ground, till part \r\nRose up a fountain by the tree of life: \r\nIn with the river sunk, and with it rose \r\nSatan, involved in rising mist; then sought \r\nWhere to lie hid; sea he had searched, and land, \r\nFrom Eden over Pontus and the pool \r\nMaeotis, up beyond the river Ob; \r\nDownward as far Antarctic; and in length, \r\nWest from Orontes to the ocean barred \r\nAt Darien ; thence to the land where flows \r\nGanges and Indus: Thus the orb he roamed \r\nWith narrow search; and with inspection deep \r\nConsidered every creature, which of all \r\nMost opportune might serve his wiles; and found \r\nThe Serpent subtlest beast of all the field.\" (9.69-86) [neutral]",
Comments:"River in Siberia.",
Related:"forty",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"river",
"Topographical features (general)":"river" },
{ Place:"Antarctic",
Latitude:"-90.000000",
Longitude:"0.000000",
Weight:"1",
Team:"Neutral",
Content:"\"There was a place, \r\nNow not, though sin, not time, first wrought the change, \r\nWhere Tigris, at the foot of Paradise, \r\nInto a gulf shot under ground, till part \r\nRose up a fountain by the tree of life: \r\nIn with the river sunk, and with it rose \r\nSatan, involved in rising mist; then sought \r\nWhere to lie hid; sea he had searched, and land, \r\nFrom Eden over Pontus and the pool \r\nMaeotis, up beyond the river Ob; \r\nDownward as far Antarctic; and in length, \r\nWest from Orontes to the ocean barred \r\nAt Darien ; thence to the land where flows \r\nGanges and Indus: Thus the orb he roamed \r\nWith narrow search; and with inspection deep \r\nConsidered every creature, which of all \r\nMost opportune might serve his wiles; and found \r\nThe Serpent subtlest beast of all the field.\" (9.69-86) [neutral]",
Comments:"Places Satan was inspecting to find an animal to possess",
Related:"forty",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",

"Topographical features (general)":"region" },
{ Place:"Orontes",
Latitude:"35.250000",
Longitude:"36.583333",
Weight:"1",
Team:"Neutral",
Content:"\"There was a place, \r\nNow not, though sin, not time, first wrought the change, \r\nWhere Tigris, at the foot of Paradise, \r\nInto a gulf shot under ground, till part \r\nRose up a fountain by the tree of life: \r\nIn with the river sunk, and with it rose \r\nSatan, involved in rising mist; then sought \r\nWhere to lie hid; sea he had searched, and land, \r\nFrom Eden over Pontus and the pool \r\nMaeotis, up beyond the river Ob; \r\nDownward as far Antarctic; and in length, \r\nWest from Orontes to the ocean barred \r\nAt Darien ; thence to the land where flows \r\nGanges and Indus: Thus the orb he roamed \r\nWith narrow search; and with inspection deep \r\nConsidered every creature, which of all \r\nMost opportune might serve his wiles; and found \r\nThe Serpent subtlest beast of all the field.\" (9.69-86) [neutral]",
Comments:"River in Syria.",
Related:"forty",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"river",
"Topographical features (general)":"river" },
{ Place:"Darien",
Latitude:"7.900000",
Longitude:"-77.460000",
Weight:"1",
Team:"Neutral",
Content:"\"There was a place, \r\nNow not, though sin, not time, first wrought the change, \r\nWhere Tigris, at the foot of Paradise, \r\nInto a gulf shot under ground, till part \r\nRose up a fountain by the tree of life: \r\nIn with the river sunk, and with it rose \r\nSatan, involved in rising mist; then sought \r\nWhere to lie hid; sea he had searched, and land, \r\nFrom Eden over Pontus and the pool \r\nMaeotis, up beyond the river Ob; \r\nDownward as far Antarctic; and in length, \r\nWest from Orontes to the ocean barred \r\nAt Darien ; thence to the land where flows \r\nGanges and Indus: Thus the orb he roamed \r\nWith narrow search; and with inspection deep \r\nConsidered every creature, which of all \r\nMost opportune might serve his wiles; and found \r\nThe Serpent subtlest beast of all the field.\" (9.69-86) [neutral]",
Comments:"Alternative name for Panama.",
Related:"forty",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",

"Topographical features (general)":"region" },
{ Place:"Ganges",
Latitude:"22.083333",
Longitude:"90.833333",
Weight:"2",
Team:"Neutral",
Content:"\"There was a place, \r\nNow not, though sin, not time, first wrought the change, \r\nWhere Tigris, at the foot of Paradise, \r\nInto a gulf shot under ground, till part \r\nRose up a fountain by the tree of life: \r\nIn with the river sunk, and with it rose \r\nSatan, involved in rising mist; then sought \r\nWhere to lie hid; sea he had searched, and land, \r\nFrom Eden over Pontus and the pool \r\nMaeotis, up beyond the river Ob; \r\nDownward as far Antarctic; and in length, \r\nWest from Orontes to the ocean barred \r\nAt Darien ; thence to the land where flows \r\nGanges and Indus: Thus the orb he roamed \r\nWith narrow search; and with inspection deep \r\nConsidered every creature, which of all \r\nMost opportune might serve his wiles; and found \r\nThe Serpent subtlest beast of all the field.\" (9.69-86) [neutral] / \r\n\"Here walked the Fiend at large in spacious field. \r\nAs when a vulture on Imaus bred, \r\nWhose snowy ridge the roving Tartar bounds, \r\nDislodging from a region scarce of prey \r\nTo gorge the flesh of lambs or yeanling kids, \r\nOn hills where flocks are fed, flies toward the springs \r\nOf Ganges or Hydaspes, Indian streams; \r\nBut in his way lights on the barren plains \r\nOf Sericana, where Chineses drive \r\nWith sails and wind their cany wagons light: \r\nSo, on this windy sea of land, the Fiend \r\nWalked up and down alone, bent on his prey\" (3.430-441) [neutral]",
Comments:"River with a source in the Himalayas, inspected by Satan seeking an animal to possess. / Passed by Satan en route to Eden.",
Related:"forty / tseven",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"2",
"Topographical features":"river",
"Topographical features (general)":"river" },
{ Place:"Malabar",
Latitude:"11.250000",
Longitude:"75.770000",
Weight:"1",
Team:"Neutral",
Content:"\"So counseled he [Adam], and both [with Eve] together went \r\nInto the thickest wood; there soon they chose \r\nThe fig-tree; not that kind for fruit renowned, \r\nBut such as at this day, to Indians known, \r\nIn Malabar or Decan spreads her arms \r\nBranching so broad and long, that in the ground \r\nThe bended twigs take root, and daughters grow \r\nAbout the mother tree, a pillared shade \r\nHigh over-arched, and echoing walks between: \r\nThere oft the Indian herdsman, shunning heat, \r\nShelters in cool, and tends his pasturing herds \r\nAt loop-holes cut through thickest shade: Those leaves \r\nThey gathered, broad as Amazonian targe; \r\nAnd, with what skill they had,

together sewed, \r\nTo gird their waist; vain covering, if to hide \r\nTheir guilt and dreaded shame.\" (9.1099-1114) [neutral]",
Comments:"Habitat of fig-tree, whose leaves Adam and Eve used to cover their nakedness after the eating the fruit.",
Related:"ftwo",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"",
"Topographical features (general)":"" },
{ Place:"Decan",
Latitude:"17.000000",
Longitude:"77.000000",
Weight:"1",
Team:"Neutral",
Content:"\"So counseled he [Adam], and both [with Eve] together went \r\nInto the thickest wood; there soon they chose \r\nThe fig-tree; not that kind for fruit renowned, \r\nBut such as at this day, to Indians known, \r\nIn Malabar or Decan spreads her arms \r\nBranching so broad and long, that in the ground \r\nThe bended twigs take root, and daughters grow \r\nAbout the mother tree, a pillared shade \r\nHigh over-arched, and echoing walks between: \r\nThere oft the Indian herdsman, shunning heat, \r\nShelters in cool, and tends his pasturing herds \r\nAt loop-holes cut through thickest shade: Those leaves \r\nThey gathered, broad as Amazonian targe; \r\nAnd, with what skill they had, together sewed, \r\nTo gird their waist; vain covering, if to hide \r\nTheir guilt and dreaded shame.\" (9.1099-1114) [neutral]",
Comments:"Habitat of fig-tree, whose leaves Adam and Eve used to cover their nakedness after the eating the fruit.",
Related:"ftwo",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Hellespont",
Latitude:"40.200000",
Longitude:"26.400000",
Weight:"1",
Team:"Neutral",
Content:"\"Deep to the roots of Hell the gathered beach \r\nThey fastened, and the mole immense wrought on \r\nOver the foaming deep high-arched, a bridge \r\nOf length prodigious, joining to the wall \r\nImmoveable of this now fenceless world, \r\nForfeit to Death; from hence a passage broad, \r\nSmooth, easy, inoffensive, down to Hell. \r\nSo, if great things to small may be compared, \r\nXerxes, the liberty of Greece to yoke, \r\nFrom Susa, his Memnonian palace high, \r\nCame to the sea: and, over Hellespont

\r\nBridging his way, Europe with Asia joined, \r\nAnd scourged with many a stroke the indignant waves.\" (10.299-311) [neutral]",
Comments:"The narrow strait running between the Black Sea and the Aegean Sea, dividing Europe and Asia; bridged by Xerxes' ships during Persian invasion of Greece.",
Related:"ffour",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Magellan",
Latitude:"-53.480833",
Longitude:"-70.783333",
Weight:"1",
Team:"Neutral",
Content:"\"Some say, the sun \r\nWas bid turn reins from the equinoctial road \r\nLike distant breadth to Taurus with the seven \r\nAtlantic Sisters, and the Spartan Twins, \r\nUp to the Tropic Crab: thence down amain \r\nBy Leo, and the Virgin, and the Scales, \r\nAs deep as Capricorn; to bring in change \r\nOf seasons to each clime; else had the spring \r\nPerpetual smiled on earth with vernant flowers, \r\nEqual in days and nights, except to those \r\nBeyond the polar circles; to them day \r\nHad unbenighted shone, while the low sun, \r\nTo recompense his distance, in their sight \r\nHad rounded still the horizon, and not known \r\nOr east or west; which had forbid the snow \r\nFrom cold Estotiland, and south as far \r\nBeneath Magellan.\" (10.671-687) [neutral]",
Comments:"Strait of Magellan.",
Related:"feight",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"water",
"Topographical features (general)":"water" },
{ Place:"Meliboea",
Latitude:"39.600000",
Longitude:"22.200000",
Weight:"1",
Team:"Neutral",
Content:"\"He [Michael] ended: and the archangel soon drew nigh, \r\nNot in his shape celestial, but as man \r\nClad to meet man; over his lucid arms \r\nA military vest of purple flowed, \r\nLivelier than Meliboean, or the grain \r\nOf Sarra, worn by kings and heroes old \r\nIn time of truce; Iris had dipped the woof; \r\nHis starry helm unbuckled showed him prime \r\nIn manhood where youth ended; by his side, \r\nAs in a glistering zodiac, hung the sword, \r\nSatan's dire dread; and in his hand the spear.\" (11.238-248) [neutral]",
Comments:"City famous for dyes.",

Related:"fifty",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Sarra",
Latitude:"33.270833",
Longitude:"35.196111",
Weight:"1",
Team:"Neutral",
Content:"\"He [Michael] ended: and the archangel soon drew nigh, \r\nNot in his shape celestial, but as man \r\nClad to meet man; over his lucid arms \r\nA military vest of purple flowed, \r\nLivelier than Meliboean, or the grain \r\nOf Sarra, worn by kings and heroes old \r\nIn time of truce; Iris had dipped the woof; \r\nHis starry helm unbuckled showed him prime \r\nIn manhood where youth ended; by his side, \r\nAs in a glistering zodiac, hung the sword, \r\nSatan's dire dread; and in his hand the spear.\" (11.238-248) [neutral]",
Comments:"Alternative name of Tyre, city famous for dyes.",
Related:"fifty",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Samarkand",
Latitude:"39.700000",
Longitude:"66.983333",
Weight:"1",
Team:"Neutral",
Content:"\"To whom thus Adam gratefully replied. \r\nAscend, I follow thee, safe Guide, the path \r\nThou leadest me; and to the hand of Heaven submit, \r\nHowever chastening; to the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe

empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
Comments:"Uzbek city on the river Oxus; part of Michael's imperial panorama.",
Related:"seventy",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Paquin",
Latitude:"39.913889",
Longitude:"116.391667",
Weight:"1",
Team:"Neutral",
Content:"\"To whom thus Adam gratefully replied. \r\nAscend, I follow thee, safe Guide, the path \r\nThou leadest me; and to the hand of Heaven submit, \r\nHowever chastening; to the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
Comments:"Beijing, seat of Chinese emperors; part of Michael's imperial panorama.",
Related:"seventy",
Type:"",

Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Agra",
Latitude:"27.180000",
Longitude:"78.020000",
Weight:"1",
Team:"Neutral",
Content:"\"To whom thus Adam gratefully replied. \r\nAscend, I follow thee, safe Guide, the path \r\nThou leadest me; and to the hand of Heaven submit, \r\nHowever chastening; to the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
Comments:"Mogul capital, where Akbar built Taj Mahal; part of Michael's imperial panorama.",
Related:"seventy",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Lahore ",
Latitude:"31.549722",
Longitude:"74.343611",
Weight:"1",
Team:"Neutral",

Content:"\"To whom thus Adam gratefully replied. \r\nAscend, I follow thee, safe Guide, the path \r\nThou leadest me; and to the hand of Heaven submit, \r\nHowever chastening; to the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
Comments:"Pakistani city where Mogul emperors occasionally resided; part of Michael's imperial panorama.",
Related:"seventy",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Golden Chersonese",
Latitude:"7.000000",
Longitude:"100.000000",
Weight:"1",
Team:"Neutral",
Content:"\"To whom thus Adam gratefully replied. \r\nAscend, I follow thee, safe Guide, the path \r\nThou leadest me; and to the hand of Heaven submit, \r\nHowever chastening; to the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd

Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
Comments:"Indian realm reowned for its wealth; part of Michael's imperial panorama.",
Related:"seventy",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Ectaban",
Latitude:"34.800000",
Longitude:"48.516667",
Weight:"1",
Team:"Neutral",
Content:"\"To whom thus Adam gratefully replied. \r\nAscend, I follow thee, safe Guide, the path \r\nThou leadest me; and to the hand of Heaven submit, \r\nHowever chastening; to the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf

Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
Comments:"Ancient summer residence of Persian kings; part of Michael's imperial panorama.",
Related:"seventy",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",
"Topographical features (general)":"region" },
{ Place:"Hispahan",
Latitude:"32.633333",
Longitude:"51.650000",
Weight:"1",
Team:"Neutral",
Content:"\"To whom thus Adam gratefully replied. \r\nAscend, I follow thee, safe Guide, the path \r\nThou leadest me; and to the hand of Heaven submit, \r\nHowever chastening; to the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
Comments:"Isfahan, sixteenth-century Persian capital; Michael showing Adam great empires and kingdoms on Earth",
Related:"seventy",
Type:"",
Negative:"0",
Postive:"0",
Neutral:"1",
"Topographical features":"region",

"Topographical features (general)":"region" },
{ Place:"Moscow",
Latitude:"55.750000",
Longitude:"37.616667",
Weight:"1",
Team:"Neutral",
Content:"\"To whom thus Adam gratefully replied. \r\nAscend, I follow thee, safe Guide, the path \r\nThou leadest me; and to the hand of Heaven submit, \r\nHowever chastening; to the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
Comments:"Seat of Russian czars; part of Michael's imperial panorama.",
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Longitude:"28.955000",
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ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
Comments:"Byzantium, conquered by Ottoman Empire in the fifteenth century; part of Michael's imperial panorama.",
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Content:"\"To whom thus Adam gratefully replied. \r\nAscend, I follow thee, safe Guide, the path \r\nThou leadest me; and to the hand of Heaven submit, \r\nHowever chastening; to the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza,

and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
Comments:"Ethiopian city; part of Michael's imperial panorama.",
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Longitude:"39.512778",
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the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
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Longitude:"34.716667",
Weight:"1",
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Content:"\"To whom thus Adam gratefully replied. \r\nAscend, I follow thee, safe Guide, the path \r\nThou leadest me; and to the hand of Heaven submit, \r\nHowever chastening; to the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn

Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
Comments:"Port city Mozambique; candidate location for the biblical Ophir, whence Solomon's gold; part of Michael's imperial panorama.",
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Weight:"1",
Team:"Neutral",
Content:"\"To whom thus Adam gratefully replied. \r\nAscend, I follow thee, safe Guide, the path \r\nThou leadest me; and to the hand of Heaven submit, \r\nHowever chastening; to the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
Comments:"Part of Michael's imperial panorama.",

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Longitude:"13.333333",
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Team:"Neutral",
Content:"\"To whom thus Adam gratefully replied. \r\nAscend, I follow thee, safe Guide, the path \r\nThou leadest me; and to the hand of Heaven submit, \r\nHowever chastening; to the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
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Content:"\"To whom thus Adam gratefully replied. \r\nAscend, I follow thee, safe Guide, the path \r\nThou leadest me; and to the hand of Heaven submit, \r\nHowever chastening; to the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd

Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
Comments:"Mountains of westernmost Africa; part of Michael's imperial panorama.",
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Content:"\"To whom thus Adam gratefully replied. \r\nAscend, I follow thee, safe Guide, the path \r\nThou leadest me; and to the hand of Heaven submit, \r\nHowever chastening; to the evil turn \r\nMy obvious breast; arming to overcome \r\nBy suffering, and earn rest from labor won, \r\nIf so I may attain. So both ascend \r\nIn the visions of God. It was a hill, \r\nOf Paradise the highest; from whose top \r\nThe hemisphere of earth, in clearest ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf

Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
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Team:"Neutral",
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Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza, and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
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thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El Dorado.\" (11.370-411) [neutral]",
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"Topographical features (general)":"region" },
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Team:"Neutral",
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        ken, \r\nStretched out to the amplest reach of prospect lay. \r\nNot higher that hill, nor
        wider looking round, \r\nWhereon, for different cause, the Tempter set \r\nOur second
        Adam, in the wilderness; \r\nTo show him all Earth's kingdoms, and their glory. \r\nHis
        eye might there command wherever stood \r\nCity of old or modern fame, the seat \r\nOf
        mightiest empire, from the destined walls \r\nOf Cambalu, seat of Cathaian Can, \r\nAnd
        Samarchand by Oxus, Temir's throne, \r\nTo Paquin of Sinaean kings; and thence \r\nTo
        Agra and Lahor of great Mogul, \r\nDown to the golden Chersonese; or where \r\nThe
        Persian in Ecbatan sat, or since \r\nIn Hispahan; or where the Russian Czar \r\nIn
        Moscow; or the Sultan in Bizance, \r\nTurkestan-born; nor could his eye not ken \r\nThe
        empire of Negus to his utmost port \r\nErcoco, and the less maritime kings \r\nMombaza,
        and Quiloa, and Melind, \r\nAnd Sofala, thought Ophir, to the realm \r\nOf Congo, and
        Angola farthest south; \r\nOr thence from Niger flood to Atlas mount \r\nThe kingdoms
        of Almansor, Fez and Sus, \r\nMorocco, and Algiers, and Tremisen; \r\nOn Europe
        thence, and where Rome was to sway \r\nThe world: in spirit perhaps he also saw
        \r\nRich Mexico, the seat of Montezuma, \r\nAnd Cusco in Peru, the richer seat \r\nOf
        Atabalipa; and yet unspoiled \r\nGuiana, whose great city Geryon's sons \r\nCall El
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    Type:"",
    Negative:"0",
    Postive:"0",
    Neutral:"1",
    "Topographical features":"region",
    "Topographical features (general)":"region" } ];

function ascending(a, b) {
  return a < b ? -1 : a > b ? 1 : a >= b ? 0 : NaN;
}

function bisector(compare) {
  if (compare.length === 1) { compare = ascendingComparator(compare); }
  return {
    left: function(a, x, lo, hi) {
      if (lo == null) { lo = 0; }
      if (hi == null) { hi = a.length; }
      while (lo < hi) {
        var mid = lo + hi >>> 1;
        if (compare(a[mid], x) < 0) { lo = mid + 1; }
        else { hi = mid; }
      }
      return lo;
    },
    right: function(a, x, lo, hi) {
      if (lo == null) { lo = 0; }
      if (hi == null) { hi = a.length; }
```

```
      while (lo < hi) {
        var mid = lo + hi >>> 1;
        if (compare(a[mid], x) > 0) { hi = mid; }
        else { lo = mid + 1; }
      }
      return lo;
    }
  };
}

function ascendingComparator(f) {
  return function(d, x) {
    return ascending(f(d), x);
  };
}

var ascendingBisect = bisector(ascending);

var noop$3 = {value: function() {}};

function dispatch() {
  var arguments$1 = arguments;

  for (var i = 0, n = arguments.length, _ = {}, t; i < n; ++i) {
    if (!(t = arguments$1[i] + "") || (t in _)) { throw new Error("illegal type: " + t); }
    _[t] = [];
  }
  return new Dispatch(_);
}

function Dispatch(_) {
  this._ = _;
}

function parseTypenames(typenames, types) {
  return typenames.trim().split(/^|\s+/).map(function(t) {
    var name = "", i = t.indexOf(".");
    if (i >= 0) { name = t.slice(i + 1), t = t.slice(0, i); }
    if (t && !types.hasOwnProperty(t)) { throw new Error("unknown type: " + t); }
    return {type: t, name: name};
  });
}

Dispatch.prototype = dispatch.prototype = {
  constructor: Dispatch,
  on: function(typename, callback) {
```

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    var _ = this._,
        T = parseTypenames(typename + "", _),
        t,
        i = -1,
        n = T.length;

    // If no callback was specified, return the callback of the given type and name.
    if (arguments.length < 2) {
      while (++i < n) { if ((t = (typename = T[i]).type) && (t = get(_[t], typename.name))) { return
          t; } }
      return;
    }

    // If a type was specified, set the callback for the given type and name.
    // Otherwise, if a null callback was specified, remove callbacks of the given name.
    if (callback != null && typeof callback !== "function") { throw new Error("invalid callback: "
        + callback); }
    while (++i < n) {
      if (t = (typename = T[i]).type) { _[t] = set$2(_[t], typename.name, callback); }
      else if (callback == null) { for (t in _) { _[t] = set$2(_[t], typename.name, null); } }
    }

    return this;
  },
  copy: function() {
    var copy = {}, _ = this._;
    for (var t in _) { copy[t] = _[t].slice(); }
    return new Dispatch(copy);
  },
  call: function(type, that) {
    var arguments$1 = arguments;

    if ((n = arguments.length - 2) > 0) { for (var args = new Array(n), i = 0, n, t; i < n; ++i)
        { args[i] = arguments$1[i + 2]; } }
    if (!this._.hasOwnProperty(type)) { throw new Error("unknown type: " + type); }
    for (t = this._[type], i = 0, n = t.length; i < n; ++i) { t[i].value.apply(that, args); }
  },
  apply: function(type, that, args) {
    if (!this._.hasOwnProperty(type)) { throw new Error("unknown type: " + type); }
    for (var t = this._[type], i = 0, n = t.length; i < n; ++i) { t[i].value.apply(that, args); }
  }
};

function get(type, name) {
  for (var i = 0, n = type.length, c; i < n; ++i) {
    if ((c = type[i]).name === name) {
```

```
      return c.value;
    }
  }
}

function set$2(type, name, callback) {
  for (var i = 0, n = type.length; i < n; ++i) {
    if (type[i].name === name) {
      type[i] = noop$3, type = type.slice(0, i).concat(type.slice(i + 1));
      break;
    }
  }
  if (callback != null) { type.push({name: name, value: callback}); }
  return type;
}

var xhtml = "http://www.w3.org/1999/xhtml";

var namespaces = {
  svg: "http://www.w3.org/2000/svg",
  xhtml: xhtml,
  xlink: "http://www.w3.org/1999/xlink",
  xml: "http://www.w3.org/XML/1998/namespace",
  xmlns: "http://www.w3.org/2000/xmlns/"
};

function namespace(name) {
  var prefix = name += "", i = prefix.indexOf(":");
  if (i >= 0 && (prefix = name.slice(0, i)) !== "xmlns") { name = name.slice(i + 1); }
  return namespaces.hasOwnProperty(prefix) ? {space: namespaces[prefix], local: name} : name;
}

function creatorInherit(name) {
  return function() {
    var document = this.ownerDocument,
        uri = this.namespaceURI;
    return uri === xhtml && document.documentElement.namespaceURI === xhtml
        ? document.createElement(name)
        : document.createElementNS(uri, name);
  };
}

function creatorFixed(fullname) {
  return function() {
    return this.ownerDocument.createElementNS(fullname.space, fullname.local);
  };
```

```
}

function creator(name) {
  var fullname = namespace(name);
  return (fullname.local
      ? creatorFixed
      : creatorInherit)(fullname);
}

function none() {}

function selector(selector) {
  return selector == null ? none : function() {
    return this.querySelector(selector);
  };
}

function selection_select(select) {
  if (typeof select !== "function") { select = selector(select); }

  for (var groups = this._groups, m = groups.length, subgroups = new Array(m), j = 0; j < m; ++j)
          {
    for (var group = groups[j], n = group.length, subgroup = subgroups[j] = new Array(n), node,
          subnode, i = 0; i < n; ++i) {
      if ((node = group[i]) && (subnode = select.call(node, node.__data__, i, group))) {
        if ("__data__" in node) { subnode.__data__ = node.__data__; }
        subgroup[i] = subnode;
      }
    }
  }

  return new Selection(subgroups, this._parents);
}

function empty() {
  return [];
}

function selectorAll(selector) {
  return selector == null ? empty : function() {
    return this.querySelectorAll(selector);
  };
}

function selection_selectAll(select) {
  if (typeof select !== "function") { select = selectorAll(select); }
```

```
  for (var groups = this._groups, m = groups.length, subgroups = [], parents = [], j = 0; j < m;
          ++j) {
    for (var group = groups[j], n = group.length, node, i = 0; i < n; ++i) {
      if (node = group[i]) {
        subgroups.push(select.call(node, node.__data__, i, group));
        parents.push(node);
      }
    }
  }

  return new Selection(subgroups, parents);
}

var matcher = function(selector) {
  return function() {
    return this.matches(selector);
  };
};

if (typeof document !== "undefined") {
  var element = document.documentElement;
  if (!element.matches) {
    var vendorMatches = element.webkitMatchesSelector
        || element.msMatchesSelector
        || element.mozMatchesSelector
        || element.oMatchesSelector;
    matcher = function(selector) {
      return function() {
        return vendorMatches.call(this, selector);
      };
    };
  }
}

var matcher$1 = matcher;

function selection_filter(match) {
  if (typeof match !== "function") { match = matcher$1(match); }

  for (var groups = this._groups, m = groups.length, subgroups = new Array(m), j = 0; j < m; ++j)
          {
    for (var group = groups[j], n = group.length, subgroup = subgroups[j] = [], node, i = 0; i < n;
          ++i) {
      if ((node = group[i]) && match.call(node, node.__data__, i, group)) {
        subgroup.push(node);
```

```
      }
    }
  }

  return new Selection(subgroups, this._parents);
}

function sparse(update) {
  return new Array(update.length);
}

function selection_enter() {
  return new Selection(this._enter || this._groups.map(sparse), this._parents);
}

function EnterNode(parent, datum) {
  this.ownerDocument = parent.ownerDocument;
  this.namespaceURI = parent.namespaceURI;
  this._next = null;
  this._parent = parent;
  this.__data__ = datum;
}

EnterNode.prototype = {
  constructor: EnterNode,
  appendChild: function(child) { return this._parent.insertBefore(child, this._next); },
  insertBefore: function(child, next) { return this._parent.insertBefore(child, next); },
  querySelector: function(selector) { return this._parent.querySelector(selector); },
  querySelectorAll: function(selector) { return this._parent.querySelectorAll(selector); }
};

function constant$1(x) {
  return function() {
    return x;
  };
}

var keyPrefix = "$"; // Protect against keys like “__proto__”.

function bindIndex(parent, group, enter, update, exit, data) {
  var i = 0,
      node,
      groupLength = group.length,
      dataLength = data.length;

  // Put any non-null nodes that fit into update.
```

```
  // Put any null nodes into enter.
  // Put any remaining data into enter.
  for (; i < dataLength; ++i) {
    if (node = group[i]) {
      node.__data__ = data[i];
      update[i] = node;
    } else {
      enter[i] = new EnterNode(parent, data[i]);
    }
  }

  // Put any non-null nodes that don't fit into exit.
  for (; i < groupLength; ++i) {
    if (node = group[i]) {
      exit[i] = node;
    }
  }
}

function bindKey(parent, group, enter, update, exit, data, key) {
  var i,
      node,
      nodeByKeyValue = {},
      groupLength = group.length,
      dataLength = data.length,
      keyValues = new Array(groupLength),
      keyValue;

  // Compute the key for each node.
  // If multiple nodes have the same key, the duplicates are added to exit.
  for (i = 0; i < groupLength; ++i) {
    if (node = group[i]) {
      keyValues[i] = keyValue = keyPrefix + key.call(node, node.__data__, i, group);
      if (keyValue in nodeByKeyValue) {
        exit[i] = node;
      } else {
        nodeByKeyValue[keyValue] = node;
      }
    }
  }

  // Compute the key for each datum.
  // If there a node associated with this key, join and add it to update.
  // If there is not (or the key is a duplicate), add it to enter.
  for (i = 0; i < dataLength; ++i) {
    keyValue = keyPrefix + key.call(parent, data[i], i, data);
```

```
    if (node = nodeByKeyValue[keyValue]) {
      update[i] = node;
      node.__data__ = data[i];
      nodeByKeyValue[keyValue] = null;
    } else {
      enter[i] = new EnterNode(parent, data[i]);
    }
  }

  // Add any remaining nodes that were not bound to data to exit.
  for (i = 0; i < groupLength; ++i) {
    if ((node = group[i]) && (nodeByKeyValue[keyValues[i]] === node)) {
      exit[i] = node;
    }
  }
}

function selection_data(value, key) {
  if (!value) {
    data = new Array(this.size()), j = -1;
    this.each(function(d) { data[++j] = d; });
    return data;
  }

  var bind = key ? bindKey : bindIndex,
      parents = this._parents,
      groups = this._groups;

  if (typeof value !== "function") { value = constant$1(value); }

  for (var m = groups.length, update = new Array(m), enter = new Array(m), exit = new
          Array(m), j = 0; j < m; ++j) {
    var parent = parents[j],
        group = groups[j],
        groupLength = group.length,
        data = value.call(parent, parent && parent.__data__, j, parents),
        dataLength = data.length,
        enterGroup = enter[j] = new Array(dataLength),
        updateGroup = update[j] = new Array(dataLength),
        exitGroup = exit[j] = new Array(groupLength);

    bind(parent, group, enterGroup, updateGroup, exitGroup, data, key);

    // Now connect the enter nodes to their following update node, such that
    // appendChild can insert the materialized enter node before this node,
    // rather than at the end of the parent node.
```

```
    for (var i0 = 0, i1 = 0, previous, next; i0 < dataLength; ++i0) {
      if (previous = enterGroup[i0]) {
        if (i0 >= i1) { i1 = i0 + 1; }
        while (!(next = updateGroup[i1]) && ++i1 < dataLength){ }
        previous._next = next || null;
      }
    }
  }

  update = new Selection(update, parents);
  update._enter = enter;
  update._exit = exit;
  return update;
}

function selection_exit() {
  return new Selection(this._exit || this._groups.map(sparse), this._parents);
}

function selection_merge(selection$$1) {

  for (var groups0 = this._groups, groups1 = selection$$1._groups, m0 = groups0.length, m1 =
          groups1.length, m = Math.min(m0, m1), merges = new Array(m0), j = 0; j < m; ++j) {
    for (var group0 = groups0[j], group1 = groups1[j], n = group0.length, merge = merges[j] =
          new Array(n), node, i = 0; i < n; ++i) {
      if (node = group0[i] || group1[i]) {
        merge[i] = node;
      }
    }
  }

  for (; j < m0; ++j) {
    merges[j] = groups0[j];
  }

  return new Selection(merges, this._parents);
}

function selection_order() {

  for (var groups = this._groups, j = -1, m = groups.length; ++j < m;) {
    for (var group = groups[j], i = group.length - 1, next = group[i], node; --i >= 0;) {
      if (node = group[i]) {
        if (next && next !== node.nextSibling) { next.parentNode.insertBefore(node, next); }
        next = node;
      }
```

```
    }
  }

  return this;
}

function selection_sort(compare) {
  if (!compare) { compare = ascending$1; }

  function compareNode(a, b) {
    return a && b ? compare(a.__data__, b.__data__) : !a - !b;
  }

  for (var groups = this._groups, m = groups.length, sortgroups = new Array(m), j = 0; j < m;
          ++j) {
    for (var group = groups[j], n = group.length, sortgroup = sortgroups[j] = new Array(n), node, i
          = 0; i < n; ++i) {
      if (node = group[i]) {
        sortgroup[i] = node;
      }
    }
    sortgroup.sort(compareNode);
  }

  return new Selection(sortgroups, this._parents).order();
}

function ascending$1(a, b) {
  return a < b ? -1 : a > b ? 1 : a >= b ? 0 : NaN;
}

function selection_call() {
  var callback = arguments[0];
  arguments[0] = this;
  callback.apply(null, arguments);
  return this;
}

function selection_nodes() {
  var nodes = new Array(this.size()), i = -1;
  this.each(function() { nodes[++i] = this; });
  return nodes;
}

function selection_node() {
```

```
  for (var groups = this._groups, j = 0, m = groups.length; j < m; ++j) {
    for (var group = groups[j], i = 0, n = group.length; i < n; ++i) {
      var node = group[i];
      if (node) { return node; }
    }
  }

  return null;
}

function selection_size() {
  var size = 0;
  this.each(function() { ++size; });
  return size;
}

function selection_empty() {
  return !this.node();
}

function selection_each(callback) {

  for (var groups = this._groups, j = 0, m = groups.length; j < m; ++j) {
    for (var group = groups[j], i = 0, n = group.length, node; i < n; ++i) {
      if (node = group[i]) { callback.call(node, node.__data__, i, group); }
    }
  }

  return this;
}

function attrRemove(name) {
  return function() {
    this.removeAttribute(name);
  };
}

function attrRemoveNS(fullname) {
  return function() {
    this.removeAttributeNS(fullname.space, fullname.local);
  };
}

function attrConstant(name, value) {
  return function() {
    this.setAttribute(name, value);
```

```
  };
}

function attrConstantNS(fullname, value) {
  return function() {
    this.setAttributeNS(fullname.space, fullname.local, value);
  };
}

function attrFunction(name, value) {
  return function() {
    var v = value.apply(this, arguments);
    if (v == null) { this.removeAttribute(name); }
    else { this.setAttribute(name, v); }
  };
}

function attrFunctionNS(fullname, value) {
  return function() {
    var v = value.apply(this, arguments);
    if (v == null) { this.removeAttributeNS(fullname.space, fullname.local); }
    else { this.setAttributeNS(fullname.space, fullname.local, v); }
  };
}

function selection_attr(name, value) {
  var fullname = namespace(name);

  if (arguments.length < 2) {
    var node = this.node();
    return fullname.local
        ? node.getAttributeNS(fullname.space, fullname.local)
        : node.getAttribute(fullname);
  }

  return this.each((value == null
      ? (fullname.local ? attrRemoveNS : attrRemove) : (typeof value === "function"
      ? (fullname.local ? attrFunctionNS : attrFunction)
      : (fullname.local ? attrConstantNS : attrConstant)))(fullname, value));
}

function defaultView(node) {
  return (node.ownerDocument && node.ownerDocument.defaultView) // node is a Node
      || (node.document && node) // node is a Window
      || node.defaultView; // node is a Document
}
```

```
function styleRemove(name) {
  return function() {
    this.style.removeProperty(name);
  };
}

function styleConstant(name, value, priority) {
  return function() {
    this.style.setProperty(name, value, priority);
  };
}

function styleFunction(name, value, priority) {
  return function() {
    var v = value.apply(this, arguments);
    if (v == null) { this.style.removeProperty(name); }
    else { this.style.setProperty(name, v, priority); }
  };
}

function selection_style(name, value, priority) {
  return arguments.length > 1
      ? this.each((value == null
            ? styleRemove : typeof value === "function"
            ? styleFunction
            : styleConstant)(name, value, priority == null ? "" : priority))
      : styleValue(this.node(), name);
}

function styleValue(node, name) {
  return node.style.getPropertyValue(name)
      || defaultView(node).getComputedStyle(node, null).getPropertyValue(name);
}

function propertyRemove(name) {
  return function() {
    delete this[name];
  };
}

function propertyConstant(name, value) {
  return function() {
    this[name] = value;
  };
}
```

```
function propertyFunction(name, value) {
  return function() {
    var v = value.apply(this, arguments);
    if (v == null) { delete this[name]; }
    else { this[name] = v; }
  };
}

function selection_property(name, value) {
  return arguments.length > 1
      ? this.each((value == null
          ? propertyRemove : typeof value === "function"
          ? propertyFunction
          : propertyConstant)(name, value))
      : this.node()[name];
}

function classArray(string) {
  return string.trim().split(/^|\s+/);
}

function classList(node) {
  return node.classList || new ClassList(node);
}

function ClassList(node) {
  this._node = node;
  this._names = classArray(node.getAttribute("class") || "");
}

ClassList.prototype = {
  add: function(name) {
    var i = this._names.indexOf(name);
    if (i < 0) {
      this._names.push(name);
      this._node.setAttribute("class", this._names.join(" "));
    }
  },
  remove: function(name) {
    var i = this._names.indexOf(name);
    if (i >= 0) {
      this._names.splice(i, 1);
      this._node.setAttribute("class", this._names.join(" "));
    }
  },
```

```
  contains: function(name) {
    return this._names.indexOf(name) >= 0;
  }
};

function classedAdd(node, names) {
  var list = classList(node), i = -1, n = names.length;
  while (++i < n) { list.add(names[i]); }
}

function classedRemove(node, names) {
  var list = classList(node), i = -1, n = names.length;
  while (++i < n) { list.remove(names[i]); }
}

function classedTrue(names) {
  return function() {
    classedAdd(this, names);
  };
}

function classedFalse(names) {
  return function() {
    classedRemove(this, names);
  };
}

function classedFunction(names, value) {
  return function() {
    (value.apply(this, arguments) ? classedAdd : classedRemove)(this, names);
  };
}

function selection_classed(name, value) {
  var names = classArray(name + "");

  if (arguments.length < 2) {
    var list = classList(this.node()), i = -1, n = names.length;
    while (++i < n) { if (!list.contains(names[i])) { return false; } }
    return true;
  }

  return this.each((typeof value === "function"
      ? classedFunction : value
      ? classedTrue
      : classedFalse)(names, value));
```

```
}

function textRemove() {
  this.textContent = "";
}

function textConstant(value) {
  return function() {
    this.textContent = value;
  };
}

function textFunction(value) {
  return function() {
    var v = value.apply(this, arguments);
    this.textContent = v == null ? "" : v;
  };
}

function selection_text(value) {
  return arguments.length
      ? this.each(value == null
          ? textRemove : (typeof value === "function"
          ? textFunction
          : textConstant)(value))
      : this.node().textContent;
}

function htmlRemove() {
  this.innerHTML = "";
}

function htmlConstant(value) {
  return function() {
    this.innerHTML = value;
  };
}

function htmlFunction(value) {
  return function() {
    var v = value.apply(this, arguments);
    this.innerHTML = v == null ? "" : v;
  };
}

function selection_html(value) {
```

```
  return arguments.length
      ? this.each(value == null
          ? htmlRemove : (typeof value === "function"
          ? htmlFunction
          : htmlConstant)(value))
      : this.node().innerHTML;
}

function raise() {
  if (this.nextSibling) { this.parentNode.appendChild(this); }
}

function selection_raise() {
  return this.each(raise);
}

function lower() {
  if (this.previousSibling) { this.parentNode.insertBefore(this, this.parentNode.firstChild); }
}

function selection_lower() {
  return this.each(lower);
}

function selection_append(name) {
  var create = typeof name === "function" ? name : creator(name);
  return this.select(function() {
    return this.appendChild(create.apply(this, arguments));
  });
}

function constantNull() {
  return null;
}

function selection_insert(name, before) {
  var create = typeof name === "function" ? name : creator(name),
      select = before == null ? constantNull : typeof before === "function" ? before :
          selector(before);
  return this.select(function() {
    return this.insertBefore(create.apply(this, arguments), select.apply(this, arguments) || null);
  });
}

function remove$4() {
  var parent = this.parentNode;
```

```
  if (parent) { parent.removeChild(this); }
}

function selection_remove() {
  return this.each(remove$4);
}

function selection_cloneShallow() {
  return this.parentNode.insertBefore(this.cloneNode(false), this.nextSibling);
}

function selection_cloneDeep() {
  return this.parentNode.insertBefore(this.cloneNode(true), this.nextSibling);
}

function selection_clone(deep) {
  return this.select(deep ? selection_cloneDeep : selection_cloneShallow);
}

function selection_datum(value) {
  return arguments.length
      ? this.property("__data__", value)
      : this.node().__data__;
}

var filterEvents = {};

if (typeof document !== "undefined") {
  var element$1 = document.documentElement;
  if (!("onmouseenter" in element$1)) {
    filterEvents = {mouseenter: "mouseover", mouseleave: "mouseout"};
  }
}

function filterContextListener(listener, index, group) {
  listener = contextListener(listener, index, group);
  return function(event) {
    var related = event.relatedTarget;
    if (!related || (related !== this && !(related.compareDocumentPosition(this) & 8))) {
      listener.call(this, event);
    }
  };
}

function contextListener(listener, index, group) {
  return function(event1) {
```

```
    try {
      listener.call(this, this.__data__, index, group);
    } finally {
    }
  };
}

function parseTypenames$1(typenames) {
  return typenames.trim().split(/^|\s+/).map(function(t) {
    var name = "", i = t.indexOf(".");
    if (i >= 0) { name = t.slice(i + 1), t = t.slice(0, i); }
    return {type: t, name: name};
  });
}

function onRemove(typename) {
  return function() {
    var this$1 = this;

    var on = this.__on;
    if (!on) { return; }
    for (var j = 0, i = -1, m = on.length, o; j < m; ++j) {
      if (o = on[j], (!typename.type || o.type === typename.type) && o.name === typename.name)
          {
        this$1.removeEventListener(o.type, o.listener, o.capture);
      } else {
        on[++i] = o;
      }
    }
    if (++i) { on.length = i; }
    else { delete this.__on; }
  };
}

function onAdd(typename, value, capture) {
  var wrap = filterEvents.hasOwnProperty(typename.type) ? filterContextListener :
          contextListener;
  return function(d, i, group) {
    var this$1 = this;

    var on = this.__on, o, listener = wrap(value, i, group);
    if (on) { for (var j = 0, m = on.length; j < m; ++j) {
      if ((o = on[j]).type === typename.type && o.name === typename.name) {
        this$1.removeEventListener(o.type, o.listener, o.capture);
        this$1.addEventListener(o.type, o.listener = listener, o.capture = capture);
        o.value = value;
```

```
      return;
    }
   } }
   this.addEventListener(typename.type, listener, capture);
   o = {type: typename.type, name: typename.name, value: value, listener: listener, capture:
        capture};
   if (!on) { this.__on = [o]; }
   else { on.push(o); }
  };
}

function selection_on(typename, value, capture) {
  var this$1 = this;

  var typenames = parseTypenames$1(typename + ""), i, n = typenames.length, t;

  if (arguments.length < 2) {
   var on = this.node().__on;
   if (on) { for (var j = 0, m = on.length, o; j < m; ++j) {
    for (i = 0, o = on[j]; i < n; ++i) {
     if ((t = typenames[i]).type === o.type && t.name === o.name) {
      return o.value;
     }
    }
   } }
   return;
  }

  on = value ? onAdd : onRemove;
  if (capture == null) { capture = false; }
  for (i = 0; i < n; ++i) { this$1.each(on(typenames[i], value, capture)); }
  return this;
}

function dispatchEvent(node, type, params) {
  var window = defaultView(node),
      event = window.CustomEvent;

  if (typeof event === "function") {
   event = new event(type, params);
  } else {
   event = window.document.createEvent("Event");
   if (params) { event.initEvent(type, params.bubbles, params.cancelable), event.detail =
         params.detail; }
   else { event.initEvent(type, false, false); }
  }
```

```
  node.dispatchEvent(event);
}

function dispatchConstant(type, params) {
  return function() {
    return dispatchEvent(this, type, params);
  };
}

function dispatchFunction(type, params) {
  return function() {
    return dispatchEvent(this, type, params.apply(this, arguments));
  };
}

function selection_dispatch(type, params) {
  return this.each((typeof params === "function"
      ? dispatchFunction
      : dispatchConstant)(type, params));
}

var root = [null];

function Selection(groups, parents) {
  this._groups = groups;
  this._parents = parents;
}

function selection() {
  return new Selection([[document.documentElement]], root);
}

Selection.prototype = selection.prototype = {
  constructor: Selection,
  select: selection_select,
  selectAll: selection_selectAll,
  filter: selection_filter,
  data: selection_data,
  enter: selection_enter,
  exit: selection_exit,
  merge: selection_merge,
  order: selection_order,
  sort: selection_sort,
  call: selection_call,
  nodes: selection_nodes,
```

```
  node: selection_node,
  size: selection_size,
  empty: selection_empty,
  each: selection_each,
  attr: selection_attr,
  style: selection_style,
  property: selection_property,
  classed: selection_classed,
  text: selection_text,
  html: selection_html,
  raise: selection_raise,
  lower: selection_lower,
  append: selection_append,
  insert: selection_insert,
  remove: selection_remove,
  clone: selection_clone,
  datum: selection_datum,
  on: selection_on,
  dispatch: selection_dispatch
};

function select(selector) {
  return typeof selector === "string"
      ? new Selection([[document.querySelector(selector)]], [document.documentElement])
      : new Selection([[selector]], root);
}

function define(constructor, factory, prototype) {
  constructor.prototype = factory.prototype = prototype;
  prototype.constructor = constructor;
}

function extend$2(parent, definition) {
  var prototype = Object.create(parent.prototype);
  for (var key in definition) { prototype[key] = definition[key]; }
  return prototype;
}

function Color() {}

var darker = 0.7;
var brighter = 1 / darker;

var reI = "\\s*([+-]?\\d+)\\s*",
    reN = "\\s*([+-]?\\d*\\.?\\d+(?:[eE][+-]?\\d+)?)\\s*",
    reP = "\\s*([+-]?\\d*\\.?\\d+(?:[eE][+-]?\\d+)?)%\\s*",
```

```
    reHex3 = /^#([0-9a-f]{3})$/,
    reHex6 = /^#([0-9a-f]{6})$/,
    reRgbInteger = new RegExp("^rgb\\(" + [reI, reI, reI] + "\\)$"),
    reRgbPercent = new RegExp("^rgb\\(" + [reP, reP, reP] + "\\)$"),
    reRgbaInteger = new RegExp("^rgba\\(" + [reI, reI, reI, reN] + "\\)$"),
    reRgbaPercent = new RegExp("^rgba\\(" + [reP, reP, reP, reN] + "\\)$"),
    reHslPercent = new RegExp("^hsl\\(" + [reN, reP, reP] + "\\)$"),
    reHslaPercent = new RegExp("^hsla\\(" + [reN, reP, reP, reN] + "\\)$");

var named = {
  aliceblue: 0xf0f8ff,
  antiquewhite: 0xfaebd7,
  aqua: 0x00ffff,
  aquamarine: 0x7fffd4,
  azure: 0xf0ffff,
  beige: 0xf5f5dc,
  bisque: 0xffe4c4,
  black: 0x000000,
  blanchedalmond: 0xffebcd,
  blue: 0x0000ff,
  blueviolet: 0x8a2be2,
  brown: 0xa52a2a,
  burlywood: 0xdeb887,
  cadetblue: 0x5f9ea0,
  chartreuse: 0x7fff00,
  chocolate: 0xd2691e,
  coral: 0xff7f50,
  cornflowerblue: 0x6495ed,
  cornsilk: 0xfff8dc,
  crimson: 0xdc143c,
  cyan: 0x00ffff,
  darkblue: 0x00008b,
  darkcyan: 0x008b8b,
  darkgoldenrod: 0xb8860b,
  darkgray: 0xa9a9a9,
  darkgreen: 0x006400,
  darkgrey: 0xa9a9a9,
  darkkhaki: 0xbdb76b,
  darkmagenta: 0x8b008b,
  darkolivegreen: 0x556b2f,
  darkorange: 0xff8c00,
  darkorchid: 0x9932cc,
  darkred: 0x8b0000,
  darksalmon: 0xe9967a,
  darkseagreen: 0x8fbc8f,
  darkslateblue: 0x483d8b,
```

```
darkslategray: 0x2f4f4f,
darkslategrey: 0x2f4f4f,
darkturquoise: 0x00ced1,
darkviolet: 0x9400d3,
deeppink: 0xff1493,
deepskyblue: 0x00bfff,
dimgray: 0x696969,
dimgrey: 0x696969,
dodgerblue: 0x1e90ff,
firebrick: 0xb22222,
floralwhite: 0xfffaf0,
forestgreen: 0x228b22,
fuchsia: 0xff00ff,
gainsboro: 0xdcdcdc,
ghostwhite: 0xf8f8ff,
gold: 0xffd700,
goldenrod: 0xdaa520,
gray: 0x808080,
green: 0x008000,
greenyellow: 0xadff2f,
grey: 0x808080,
honeydew: 0xf0fff0,
hotpink: 0xff69b4,
indianred: 0xcd5c5c,
indigo: 0x4b0082,
ivory: 0xfffff0,
khaki: 0xf0e68c,
lavender: 0xe6e6fa,
lavenderblush: 0xfff0f5,
lawngreen: 0x7cfc00,
lemonchiffon: 0xfffacd,
lightblue: 0xadd8e6,
lightcoral: 0xf08080,
lightcyan: 0xe0ffff,
lightgoldenrodyellow: 0xfafad2,
lightgray: 0xd3d3d3,
lightgreen: 0x90ee90,
lightgrey: 0xd3d3d3,
lightpink: 0xffb6c1,
lightsalmon: 0xffa07a,
lightseagreen: 0x20b2aa,
lightskyblue: 0x87cefa,
lightslategray: 0x778899,
lightslategrey: 0x778899,
lightsteelblue: 0xb0c4de,
lightyellow: 0xffffe0,
```

```
lime: 0x00ff00,
limegreen: 0x32cd32,
linen: 0xfaf0e6,
magenta: 0xff00ff,
maroon: 0x800000,
mediumaquamarine: 0x66cdaa,
mediumblue: 0x0000cd,
mediumorchid: 0xba55d3,
mediumpurple: 0x9370db,
mediumseagreen: 0x3cb371,
mediumslateblue: 0x7b68ee,
mediumspringgreen: 0x00fa9a,
mediumturquoise: 0x48d1cc,
mediumvioletred: 0xc71585,
midnightblue: 0x191970,
mintcream: 0xf5fffa,
mistyrose: 0xffe4e1,
moccasin: 0xffe4b5,
navajowhite: 0xffdead,
navy: 0x000080,
oldlace: 0xfdf5e6,
olive: 0x808000,
olivedrab: 0x6b8e23,
orange: 0xffa500,
orangered: 0xff4500,
orchid: 0xda70d6,
palegoldenrod: 0xeee8aa,
palegreen: 0x98fb98,
paleturquoise: 0xafeeee,
palevioletred: 0xdb7093,
papayawhip: 0xffefd5,
peachpuff: 0xffdab9,
peru: 0xcd853f,
pink: 0xffc0cb,
plum: 0xdda0dd,
powderblue: 0xb0e0e6,
purple: 0x800080,
rebeccapurple: 0x663399,
red: 0xff0000,
rosybrown: 0xbc8f8f,
royalblue: 0x4169e1,
saddlebrown: 0x8b4513,
salmon: 0xfa8072,
sandybrown: 0xf4a460,
seagreen: 0x2e8b57,
seashell: 0xfff5ee,
```

```
  sienna: 0xa0522d,
  silver: 0xc0c0c0,
  skyblue: 0x87ceeb,
  slateblue: 0x6a5acd,
  slategray: 0x708090,
  slategrey: 0x708090,
  snow: 0xfffafa,
  springgreen: 0x00ff7f,
  steelblue: 0x4682b4,
  tan: 0xd2b48c,
  teal: 0x008080,
  thistle: 0xd8bfd8,
  tomato: 0xff6347,
  turquoise: 0x40e0d0,
  violet: 0xee82ee,
  wheat: 0xf5deb3,
  white: 0xffffff,
  whitesmoke: 0xf5f5f5,
  yellow: 0xffff00,
  yellowgreen: 0x9acd32
};

define(Color, color, {
  displayable: function() {
    return this.rgb().displayable();
  },
  toString: function() {
    return this.rgb() + "";
  }
});

function color(format) {
  var m;
  format = (format + "").trim().toLowerCase();
  return (m = reHex3.exec(format)) ? (m = parseInt(m[1], 16), new Rgb((m >> 8 & 0xf) | (m >> 4
          & 0x0f0), (m >> 4 & 0xf) | (m & 0xf0), ((m & 0xf) << 4) | (m & 0xf), 1)) // #f00
      : (m = reHex6.exec(format)) ? rgbn(parseInt(m[1], 16)) // #ff0000
      : (m = reRgbInteger.exec(format)) ? new Rgb(m[1], m[2], m[3], 1) // rgb(255, 0, 0)
      : (m = reRgbPercent.exec(format)) ? new Rgb(m[1] * 255 / 100, m[2] * 255 / 100, m[3] *
          255 / 100, 1) // rgb(100%, 0%, 0%)
      : (m = reRgbaInteger.exec(format)) ? rgba(m[1], m[2], m[3], m[4]) // rgba(255, 0, 0, 1)
      : (m = reRgbaPercent.exec(format)) ? rgba(m[1] * 255 / 100, m[2] * 255 / 100, m[3] * 255 /
          100, m[4]) // rgb(100%, 0%, 0%, 1)
      : (m = reHslPercent.exec(format)) ? hsla(m[1], m[2] / 100, m[3] / 100, 1) // hsl(120, 50%,
          50%)
```

```
      : (m = reHslaPercent.exec(format)) ? hsla(m[1], m[2] / 100, m[3] / 100, m[4]) // hsla(120,
          50%, 50%, 1)
      : named.hasOwnProperty(format) ? rgbn(named[format])
      : format === "transparent" ? new Rgb(NaN, NaN, NaN, 0)
      : null;
}

function rgbn(n) {
  return new Rgb(n >> 16 & 0xff, n >> 8 & 0xff, n & 0xff, 1);
}

function rgba(r, g, b, a) {
  if (a <= 0) { r = g = b = NaN; }
  return new Rgb(r, g, b, a);
}

function rgbConvert(o) {
  if (!(o instanceof Color)) { o = color(o); }
  if (!o) { return new Rgb; }
  o = o.rgb();
  return new Rgb(o.r, o.g, o.b, o.opacity);
}

function rgb(r, g, b, opacity) {
  return arguments.length === 1 ? rgbConvert(r) : new Rgb(r, g, b, opacity == null ? 1 : opacity);
}

function Rgb(r, g, b, opacity) {
  this.r = +r;
  this.g = +g;
  this.b = +b;
  this.opacity = +opacity;
}

define(Rgb, rgb, extend$2(Color, {
  brighter: function(k) {
    k = k == null ? brighter : Math.pow(brighter, k);
    return new Rgb(this.r * k, this.g * k, this.b * k, this.opacity);
  },
  darker: function(k) {
    k = k == null ? darker : Math.pow(darker, k);
    return new Rgb(this.r * k, this.g * k, this.b * k, this.opacity);
  },
  rgb: function() {
    return this;
  },
```

```
  displayable: function() {
    return (0 <= this.r && this.r <= 255)
        && (0 <= this.g && this.g <= 255)
        && (0 <= this.b && this.b <= 255)
        && (0 <= this.opacity && this.opacity <= 1);
  },
  toString: function() {
    var a = this.opacity; a = isNaN(a) ? 1 : Math.max(0, Math.min(1, a));
    return (a === 1 ? "rgb(" : "rgba(")
        + Math.max(0, Math.min(255, Math.round(this.r) || 0)) + ", "
        + Math.max(0, Math.min(255, Math.round(this.g) || 0)) + ", "
        + Math.max(0, Math.min(255, Math.round(this.b) || 0))
        + (a === 1 ? ")" : ", " + a + ")");
  }
}));

function hsla(h, s, l, a) {
  if (a <= 0) { h = s = l = NaN; }
  else if (l <= 0 || l >= 1) { h = s = NaN; }
  else if (s <= 0) { h = NaN; }
  return new Hsl(h, s, l, a);
}

function hslConvert(o) {
  if (o instanceof Hsl) { return new Hsl(o.h, o.s, o.l, o.opacity); }
  if (!(o instanceof Color)) { o = color(o); }
  if (!o) { return new Hsl; }
  if (o instanceof Hsl) { return o; }
  o = o.rgb();
  var r = o.r / 255,
      g = o.g / 255,
      b = o.b / 255,
      min = Math.min(r, g, b),
      max = Math.max(r, g, b),
      h = NaN,
      s = max - min,
      l = (max + min) / 2;
  if (s) {
    if (r === max) { h = (g - b) / s + (g < b) * 6; }
    else if (g === max) { h = (b - r) / s + 2; }
    else { h = (r - g) / s + 4; }
    s /= l < 0.5 ? max + min : 2 - max - min;
    h *= 60;
  } else {
    s = l > 0 && l < 1 ? 0 : h;
  }
```

```
  return new Hsl(h, s, l, o.opacity);
}

function hsl(h, s, l, opacity) {
  return arguments.length === 1 ? hslConvert(h) : new Hsl(h, s, l, opacity == null ? 1 : opacity);
}

function Hsl(h, s, l, opacity) {
  this.h = +h;
  this.s = +s;
  this.l = +l;
  this.opacity = +opacity;
}

define(Hsl, hsl, extend$2(Color, {
  brighter: function(k) {
    k = k == null ? brighter : Math.pow(brighter, k);
    return new Hsl(this.h, this.s, this.l * k, this.opacity);
  },
  darker: function(k) {
    k = k == null ? darker : Math.pow(darker, k);
    return new Hsl(this.h, this.s, this.l * k, this.opacity);
  },
  rgb: function() {
    var h = this.h % 360 + (this.h < 0) * 360,
        s = isNaN(h) || isNaN(this.s) ? 0 : this.s,
        l = this.l,
        m2 = l + (l < 0.5 ? l : 1 - l) * s,
        m1 = 2 * l - m2;
    return new Rgb(
      hsl2rgb(h >= 240 ? h - 240 : h + 120, m1, m2),
      hsl2rgb(h, m1, m2),
      hsl2rgb(h < 120 ? h + 240 : h - 120, m1, m2),
      this.opacity
    );
  },
  displayable: function() {
    return (0 <= this.s && this.s <= 1 || isNaN(this.s))
        && (0 <= this.l && this.l <= 1)
        && (0 <= this.opacity && this.opacity <= 1);
  }
}));

/* From FvD 13.37, CSS Color Module Level 3 */
function hsl2rgb(h, m1, m2) {
  return (h < 60 ? m1 + (m2 - m1) * h / 60
```

```
      : h < 180 ? m2
      : h < 240 ? m1 + (m2 - m1) * (240 - h) / 60
      : m1) * 255;
}

var deg2rad = Math.PI / 180;
var rad2deg = 180 / Math.PI;

var Kn = 18,
    Xn = 0.950470, // D65 standard referent
    Yn = 1,
    Zn = 1.088830,
    t0 = 4 / 29,
    t1 = 6 / 29,
    t2 = 3 * t1 * t1,
    t3 = t1 * t1 * t1;

function labConvert(o) {
  if (o instanceof Lab) { return new Lab(o.l, o.a, o.b, o.opacity); }
  if (o instanceof Hcl) {
    var h = o.h * deg2rad;
    return new Lab(o.l, Math.cos(h) * o.c, Math.sin(h) * o.c, o.opacity);
  }
  if (!(o instanceof Rgb)) { o = rgbConvert(o); }
  var b = rgb2xyz(o.r),
      a = rgb2xyz(o.g),
      l = rgb2xyz(o.b),
      x = xyz2lab((0.4124564 * b + 0.3575761 * a + 0.1804375 * l) / Xn),
      y = xyz2lab((0.2126729 * b + 0.7151522 * a + 0.0721750 * l) / Yn),
      z = xyz2lab((0.0193339 * b + 0.1191920 * a + 0.9503041 * l) / Zn);
  return new Lab(116 * y - 16, 500 * (x - y), 200 * (y - z), o.opacity);
}

function lab(l, a, b, opacity) {
  return arguments.length === 1 ? labConvert(l) : new Lab(l, a, b, opacity == null ? 1 : opacity);
}

function Lab(l, a, b, opacity) {
  this.l = +l;
  this.a = +a;
  this.b = +b;
  this.opacity = +opacity;
}

define(Lab, lab, extend$2(Color, {
  brighter: function(k) {
```

```
    return new Lab(this.l + Kn * (k == null ? 1 : k), this.a, this.b, this.opacity);
  },
  darker: function(k) {
    return new Lab(this.l - Kn * (k == null ? 1 : k), this.a, this.b, this.opacity);
  },
  rgb: function() {
    var y = (this.l + 16) / 116,
        x = isNaN(this.a) ? y : y + this.a / 500,
        z = isNaN(this.b) ? y : y - this.b / 200;
    y = Yn * lab2xyz(y);
    x = Xn * lab2xyz(x);
    z = Zn * lab2xyz(z);
    return new Rgb(
      xyz2rgb( 3.2404542 * x - 1.5371385 * y - 0.4985314 * z), // D65 -> sRGB
      xyz2rgb(-0.9692660 * x + 1.8760108 * y + 0.0415560 * z),
      xyz2rgb( 0.0556434 * x - 0.2040259 * y + 1.0572252 * z),
      this.opacity
    );
  }
}));

function xyz2lab(t) {
  return t > t3 ? Math.pow(t, 1 / 3) : t / t2 + t0;
}

function lab2xyz(t) {
  return t > t1 ? t * t * t : t2 * (t - t0);
}

function xyz2rgb(x) {
  return 255 * (x <= 0.0031308 ? 12.92 * x : 1.055 * Math.pow(x, 1 / 2.4) - 0.055);
}

function rgb2xyz(x) {
  return (x /= 255) <= 0.04045 ? x / 12.92 : Math.pow((x + 0.055) / 1.055, 2.4);
}

function hclConvert(o) {
  if (o instanceof Hcl) { return new Hcl(o.h, o.c, o.l, o.opacity); }
  if (!(o instanceof Lab)) { o = labConvert(o); }
  var h = Math.atan2(o.b, o.a) * rad2deg;
  return new Hcl(h < 0 ? h + 360 : h, Math.sqrt(o.a * o.a + o.b * o.b), o.l, o.opacity);
}

function hcl(h, c, l, opacity) {
  return arguments.length === 1 ? hclConvert(h) : new Hcl(h, c, l, opacity == null ? 1 : opacity);
```

```
}

function Hcl(h, c, l, opacity) {
  this.h = +h;
  this.c = +c;
  this.l = +l;
  this.opacity = +opacity;
}

define(Hcl, hcl, extend$2(Color, {
  brighter: function(k) {
    return new Hcl(this.h, this.c, this.l + Kn * (k == null ? 1 : k), this.opacity);
  },
  darker: function(k) {
    return new Hcl(this.h, this.c, this.l - Kn * (k == null ? 1 : k), this.opacity);
  },
  rgb: function() {
    return labConvert(this).rgb();
  }
}));

var A = -0.14861,
    B = +1.78277,
    C = -0.29227,
    D = -0.90649,
    E = +1.97294,
    ED = E * D,
    EB = E * B,
    BC_DA = B * C - D * A;

function cubehelixConvert(o) {
  if (o instanceof Cubehelix) { return new Cubehelix(o.h, o.s, o.l, o.opacity); }
  if (!(o instanceof Rgb)) { o = rgbConvert(o); }
  var r = o.r / 255,
      g = o.g / 255,
      b = o.b / 255,
      l = (BC_DA * b + ED * r - EB * g) / (BC_DA + ED - EB),
      bl = b - l,
      k = (E * (g - l) - C * bl) / D,
      s = Math.sqrt(k * k + bl * bl) / (E * l * (1 - l)), // NaN if l=0 or l=1
      h = s ? Math.atan2(k, bl) * rad2deg - 120 : NaN;
  return new Cubehelix(h < 0 ? h + 360 : h, s, l, o.opacity);
}

function cubehelix(h, s, l, opacity) {
```

```
  return arguments.length === 1 ? cubehelixConvert(h) : new Cubehelix(h, s, l, opacity == null ?
          1 : opacity);
}

function Cubehelix(h, s, l, opacity) {
  this.h = +h;
  this.s = +s;
  this.l = +l;
  this.opacity = +opacity;
}

define(Cubehelix, cubehelix, extend$2(Color, {
  brighter: function(k) {
    k = k == null ? brighter : Math.pow(brighter, k);
    return new Cubehelix(this.h, this.s, this.l * k, this.opacity);
  },
  darker: function(k) {
    k = k == null ? darker : Math.pow(darker, k);
    return new Cubehelix(this.h, this.s, this.l * k, this.opacity);
  },
  rgb: function() {
    var h = isNaN(this.h) ? 0 : (this.h + 120) * deg2rad,
        l = +this.l,
        a = isNaN(this.s) ? 0 : this.s * l * (1 - l),
        cosh = Math.cos(h),
        sinh = Math.sin(h);
    return new Rgb(
      255 * (l + a * (A * cosh + B * sinh)),
      255 * (l + a * (C * cosh + D * sinh)),
      255 * (l + a * (E * cosh)),
      this.opacity
    );
  }
}));

function constant$3(x) {
  return function() {
    return x;
  };
}

function linear(a, d) {
  return function(t) {
    return a + t * d;
  };
}
```

```
function exponential(a, b, y) {
  return a = Math.pow(a, y), b = Math.pow(b, y) - a, y = 1 / y, function(t) {
    return Math.pow(a + t * b, y);
  };
}

function hue(a, b) {
  var d = b - a;
  return d ? linear(a, d > 180 || d < -180 ? d - 360 * Math.round(d / 360) : d) :
          constant$3(isNaN(a) ? b : a);
}

function gamma(y) {
  return (y = +y) === 1 ? nogamma : function(a, b) {
    return b - a ? exponential(a, b, y) : constant$3(isNaN(a) ? b : a);
  };
}

function nogamma(a, b) {
  var d = b - a;
  return d ? linear(a, d) : constant$3(isNaN(a) ? b : a);
}

var interpolateRgb = (function rgbGamma(y) {
  var color$$1 = gamma(y);

  function rgb$$1(start, end) {
    var r = color$$1((start = rgb(start)).r, (end = rgb(end)).r),
        g = color$$1(start.g, end.g),
        b = color$$1(start.b, end.b),
        opacity = nogamma(start.opacity, end.opacity);
    return function(t) {
      start.r = r(t);
      start.g = g(t);
      start.b = b(t);
      start.opacity = opacity(t);
      return start + "";
    };
  }

  rgb$$1.gamma = rgbGamma;

  return rgb$$1;
})(1);
```

```
function reinterpolate(a, b) {
  return a = +a, b -= a, function(t) {
    return a + b * t;
  };
}

var reA = /[-+]?(?:\d+\.?\d*|\.?\d+)(?:[eE][-+]?\d+)?/g,
    reB = new RegExp(reA.source, "g");

function zero(b) {
  return function() {
    return b;
  };
}

function one(b) {
  return function(t) {
    return b(t) + "";
  };
}

function interpolateString(a, b) {
  var bi = reA.lastIndex = reB.lastIndex = 0, // scan index for next number in b
      am, // current match in a
      bm, // current match in b
      bs, // string preceding current number in b, if any
      i = -1, // index in s
      s = [], // string constants and placeholders
      q = []; // number interpolators

  // Coerce inputs to strings.
  a = a + "", b = b + "";

  // Interpolate pairs of numbers in a & b.
  while ((am = reA.exec(a))
      && (bm = reB.exec(b))) {
    if ((bs = bm.index) > bi) { // a string precedes the next number in b
      bs = b.slice(bi, bs);
      if (s[i]) { s[i] += bs; } // coalesce with previous string
      else { s[++i] = bs; }
    }
    if ((am = am[0]) === (bm = bm[0])) { // numbers in a & b match
      if (s[i]) { s[i] += bm; } // coalesce with previous string
      else { s[++i] = bm; }
    } else { // interpolate non-matching numbers
      s[++i] = null;
```

```
      q.push({i: i, x: reinterpolate(am, bm)});
    }
    bi = reB.lastIndex;
  }

  // Add remains of b.
  if (bi < b.length) {
    bs = b.slice(bi);
    if (s[i]) { s[i] += bs; } // coalesce with previous string
    else { s[++i] = bs; }
  }

  // Special optimization for only a single match.
  // Otherwise, interpolate each of the numbers and rejoin the string.
  return s.length < 2 ? (q[0]
      ? one(q[0].x)
      : zero(b))
      : (b = q.length, function(t) {
          for (var i = 0, o; i < b; ++i) { s[(o = q[i]).i] = o.x(t); }
          return s.join("");
        });
}

var degrees = 180 / Math.PI;

var identity$4 = {
  translateX: 0,
  translateY: 0,
  rotate: 0,
  skewX: 0,
  scaleX: 1,
  scaleY: 1
};

function decompose(a, b, c, d, e, f) {
  var scaleX, scaleY, skewX;
  if (scaleX = Math.sqrt(a * a + b * b)) { a /= scaleX, b /= scaleX; }
  if (skewX = a * c + b * d) { c -= a * skewX, d -= b * skewX; }
  if (scaleY = Math.sqrt(c * c + d * d)) { c /= scaleY, d /= scaleY, skewX /= scaleY; }
  if (a * d < b * c) { a = -a, b = -b, skewX = -skewX, scaleX = -scaleX; }
  return {
    translateX: e,
    translateY: f,
    rotate: Math.atan2(b, a) * degrees,
    skewX: Math.atan(skewX) * degrees,
    scaleX: scaleX,
```

```
    scaleY: scaleY
  };
}

var cssNode,
    cssRoot,
    cssView,
    svgNode;

function parseCss(value) {
  if (value === "none") { return identity$4; }
  if (!cssNode) { cssNode = document.createElement("DIV"), cssRoot =
          document.documentElement, cssView = document.defaultView; }
  cssNode.style.transform = value;
  value = cssView.getComputedStyle(cssRoot.appendChild(cssNode),
          null).getPropertyValue("transform");
  cssRoot.removeChild(cssNode);
  value = value.slice(7, -1).split(",");
  return decompose(+value[0], +value[1], +value[2], +value[3], +value[4], +value[5]);
}

function parseSvg(value) {
  if (value == null) { return identity$4; }
  if (!svgNode) { svgNode = document.createElementNS("http://www.w3.org/2000/svg", "g"); }
  svgNode.setAttribute("transform", value);
  if (!(value = svgNode.transform.baseVal.consolidate())) { return identity$4; }
  value = value.matrix;
  return decompose(value.a, value.b, value.c, value.d, value.e, value.f);
}

function interpolateTransform(parse, pxComma, pxParen, degParen) {

  function pop(s) {
    return s.length ? s.pop() + " " : "";
  }

  function translate(xa, ya, xb, yb, s, q) {
    if (xa !== xb || ya !== yb) {
      var i = s.push("translate(", null, pxComma, null, pxParen);
      q.push({i: i - 4, x: reinterpolate(xa, xb)}, {i: i - 2, x: reinterpolate(ya, yb)});
    } else if (xb || yb) {
      s.push("translate(" + xb + pxComma + yb + pxParen);
    }
  }

  function rotate(a, b, s, q) {
```

```
    if (a !== b) {
      if (a - b > 180) { b += 360; } else if (b - a > 180) { a += 360; } // shortest path
      q.push({i: s.push(pop(s) + "rotate(", null, degParen) - 2, x: reinterpolate(a, b)});
    } else if (b) {
      s.push(pop(s) + "rotate(" + b + degParen);
    }
  }

  function skewX(a, b, s, q) {
    if (a !== b) {
      q.push({i: s.push(pop(s) + "skewX(", null, degParen) - 2, x: reinterpolate(a, b)});
    } else if (b) {
      s.push(pop(s) + "skewX(" + b + degParen);
    }
  }

  function scale(xa, ya, xb, yb, s, q) {
    if (xa !== xb || ya !== yb) {
      var i = s.push(pop(s) + "scale(", null, ",", null, ")");
      q.push({i: i - 4, x: reinterpolate(xa, xb)}, {i: i - 2, x: reinterpolate(ya, yb)});
    } else if (xb !== 1 || yb !== 1) {
      s.push(pop(s) + "scale(" + xb + "," + yb + ")");
    }
  }

  return function(a, b) {
    var s = [], // string constants and placeholders
        q = []; // number interpolators
    a = parse(a), b = parse(b);
    translate(a.translateX, a.translateY, b.translateX, b.translateY, s, q);
    rotate(a.rotate, b.rotate, s, q);
    skewX(a.skewX, b.skewX, s, q);
    scale(a.scaleX, a.scaleY, b.scaleX, b.scaleY, s, q);
    a = b = null; // gc
    return function(t) {
      var i = -1, n = q.length, o;
      while (++i < n) { s[(o = q[i]).i] = o.x(t); }
      return s.join("");
    };
  };
}

var interpolateTransformCss = interpolateTransform(parseCss, "px, ", "px)", "deg)");
var interpolateTransformSvg = interpolateTransform(parseSvg, ", ", ")", ")");

var rho = Math.SQRT2;
```

```
function cubehelix$1(hue$$1) {
  return (function cubehelixGamma(y) {
    y = +y;

    function cubehelix$$1(start, end) {
      var h = hue$$1((start = cubehelix(start)).h, (end = cubehelix(end)).h),
          s = nogamma(start.s, end.s),
          l = nogamma(start.l, end.l),
          opacity = nogamma(start.opacity, end.opacity);
      return function(t) {
        start.h = h(t);
        start.s = s(t);
        start.l = l(Math.pow(t, y));
        start.opacity = opacity(t);
        return start + "";
      };
    }

    cubehelix$$1.gamma = cubehelixGamma;

    return cubehelix$$1;
  })(1);
}

cubehelix$1(hue);
var cubehelixLong = cubehelix$1(nogamma);

var frame = 0, // is an animation frame pending?
    timeout = 0, // is a timeout pending?
    interval = 0, // are any timers active?
    pokeDelay = 1000, // how frequently we check for clock skew
    taskHead,
    taskTail,
    clockLast = 0,
    clockNow = 0,
    clockSkew = 0,
    clock = typeof performance === "object" && performance.now ? performance : Date,
    setFrame = typeof window === "object" && window.requestAnimationFrame ?
          window.requestAnimationFrame.bind(window) : function(f) { setTimeout(f, 17); };

function now() {
  return clockNow || (setFrame(clearNow), clockNow = clock.now() + clockSkew);
}

function clearNow() {
```

```
  clockNow = 0;
}

function Timer() {
  this._call =
  this._time =
  this._next = null;
}

Timer.prototype = timer.prototype = {
  constructor: Timer,
  restart: function(callback, delay, time) {
    if (typeof callback !== "function") { throw new TypeError("callback is not a function"); }
    time = (time == null ? now() : +time) + (delay == null ? 0 : +delay);
    if (!this._next && taskTail !== this) {
      if (taskTail) { taskTail._next = this; }
      else { taskHead = this; }
      taskTail = this;
    }
    this._call = callback;
    this._time = time;
    sleep();
  },
  stop: function() {
    if (this._call) {
      this._call = null;
      this._time = Infinity;
      sleep();
    }
  }
};

function timer(callback, delay, time) {
  var t = new Timer;
  t.restart(callback, delay, time);
  return t;
}

function timerFlush() {
  now(); // Get the current time, if not already set.
  ++frame; // Pretend we've set an alarm, if we haven't already.
  var t = taskHead, e;
  while (t) {
    if ((e = clockNow - t._time) >= 0) { t._call.call(null, e); }
    t = t._next;
  }
```

```
  --frame;
}

function wake() {
  clockNow = (clockLast = clock.now()) + clockSkew;
  frame = timeout = 0;
  try {
    timerFlush();
  } finally {
    frame = 0;
    nap();
    clockNow = 0;
  }
}

function poke() {
  var now = clock.now(), delay = now - clockLast;
  if (delay > pokeDelay) { clockSkew -= delay, clockLast = now; }
}

function nap() {
  var t0, t1 = taskHead, t2, time = Infinity;
  while (t1) {
    if (t1._call) {
      if (time > t1._time) { time = t1._time; }
      t0 = t1, t1 = t1._next;
    } else {
      t2 = t1._next, t1._next = null;
      t1 = t0 ? t0._next = t2 : taskHead = t2;
    }
  }
  taskTail = t0;
  sleep(time);
}

function sleep(time) {
  if (frame) { return; } // Soonest alarm already set, or will be.
  if (timeout) { timeout = clearTimeout(timeout); }
  var delay = time - clockNow; // Strictly less than if we recomputed clockNow.
  if (delay > 24) {
    if (time < Infinity) { timeout = setTimeout(wake, time - clock.now() - clockSkew); }
    if (interval) { interval = clearInterval(interval); }
  } else {
    if (!interval) { clockLast = clock.now(), interval = setInterval(poke, pokeDelay); }
    frame = 1, setFrame(wake);
  }
```

```
}

function timeout$1(callback, delay, time) {
  var t = new Timer;
  delay = delay == null ? 0 : +delay;
  t.restart(function(elapsed) {
    t.stop();
    callback(elapsed + delay);
  }, delay, time);
  return t;
}

var emptyOn = dispatch("start", "end", "interrupt");
var emptyTween = [];

var CREATED = 0;
var SCHEDULED = 1;
var STARTING = 2;
var STARTED = 3;
var RUNNING = 4;
var ENDING = 5;
var ENDED = 6;

function schedule(node, name, id, index, group, timing) {
  var schedules = node.__transition;
  if (!schedules) { node.__transition = {}; }
  else if (id in schedules) { return; }
  create$1(node, id, {
    name: name,
    index: index, // For context during callback.
    group: group, // For context during callback.
    on: emptyOn,
    tween: emptyTween,
    time: timing.time,
    delay: timing.delay,
    duration: timing.duration,
    ease: timing.ease,
    timer: null,
    state: CREATED
  });
}

function init(node, id) {
  var schedule = get$1(node, id);
  if (schedule.state > CREATED) { throw new Error("too late; already scheduled"); }
  return schedule;
```

```
}

function set$3(node, id) {
  var schedule = get$1(node, id);
  if (schedule.state > STARTING) { throw new Error("too late; already started"); }
  return schedule;
}

function get$1(node, id) {
  var schedule = node.__transition;
  if (!schedule || !(schedule = schedule[id])) { throw new Error("transition not found"); }
  return schedule;
}

function create$1(node, id, self) {
  var schedules = node.__transition,
      tween;

  // Initialize the self timer when the transition is created.
  // Note the actual delay is not known until the first callback!
  schedules[id] = self;
  self.timer = timer(schedule, 0, self.time);

  function schedule(elapsed) {
    self.state = SCHEDULED;
    self.timer.restart(start, self.delay, self.time);

    // If the elapsed delay is less than our first sleep, start immediately.
    if (self.delay <= elapsed) { start(elapsed - self.delay); }
  }

  function start(elapsed) {
    var i, j, n, o;

    // If the state is not SCHEDULED, then we previously errored on start.
    if (self.state !== SCHEDULED) { return stop(); }

    for (i in schedules) {
      o = schedules[i];
      if (o.name !== self.name) { continue; }

      // While this element already has a starting transition during this frame,
      // defer starting an interrupting transition until that transition has a
      // chance to tick (and possibly end); see d3/d3-transition#54!
      if (o.state === STARTED) { return timeout$1(start); }
```

```
  // Interrupt the active transition, if any.
  // Dispatch the interrupt event.
  if (o.state === RUNNING) {
    o.state = ENDED;
    o.timer.stop();
    o.on.call("interrupt", node, node.__data__, o.index, o.group);
    delete schedules[i];
  }

  // Cancel any pre-empted transitions. No interrupt event is dispatched
  // because the cancelled transitions never started. Note that this also
  // removes this transition from the pending list!
  else if (+i < id) {
    o.state = ENDED;
    o.timer.stop();
    delete schedules[i];
  }
}

// Defer the first tick to end of the current frame; see d3/d3#1576.
// Note the transition may be canceled after start and before the first tick!
// Note this must be scheduled before the start event; see d3/d3-transition#16!
// Assuming this is successful, subsequent callbacks go straight to tick.
timeout$1(function() {
  if (self.state === STARTED) {
    self.state = RUNNING;
    self.timer.restart(tick, self.delay, self.time);
    tick(elapsed);
  }
});

// Dispatch the start event.
// Note this must be done before the tween are initialized.
self.state = STARTING;
self.on.call("start", node, node.__data__, self.index, self.group);
if (self.state !== STARTING) { return; } // interrupted
self.state = STARTED;

// Initialize the tween, deleting null tween.
tween = new Array(n = self.tween.length);
for (i = 0, j = -1; i < n; ++i) {
  if (o = self.tween[i].value.call(node, node.__data__, self.index, self.group)) {
    tween[++j] = o;
  }
}
tween.length = j + 1;
```

```
  }

  function tick(elapsed) {
    var t = elapsed < self.duration ? self.ease.call(null, elapsed / self.duration) :
          (self.timer.restart(stop), self.state = ENDING, 1),
        i = -1,
        n = tween.length;

    while (++i < n) {
      tween[i].call(null, t);
    }

    // Dispatch the end event.
    if (self.state === ENDING) {
      self.on.call("end", node, node.__data__, self.index, self.group);
      stop();
    }
  }

  function stop() {
    self.state = ENDED;
    self.timer.stop();
    delete schedules[id];
    for (var i in schedules) { return; } // eslint-disable-line no-unused-vars
    delete node.__transition;
  }
}

function interrupt(node, name) {
  var schedules = node.__transition,
      schedule$$1,
      active,
      empty = true,
      i;

  if (!schedules) { return; }

  name = name == null ? null : name + "";

  for (i in schedules) {
    if ((schedule$$1 = schedules[i]).name !== name) { empty = false; continue; }
    active = schedule$$1.state > STARTING && schedule$$1.state < ENDING;
    schedule$$1.state = ENDED;
    schedule$$1.timer.stop();
    if (active) { schedule$$1.on.call("interrupt", node, node.__data__, schedule$$1.index,
          schedule$$1.group); }
```

```
    delete schedules[i];
  }

  if (empty) { delete node.__transition; }
}

function selection_interrupt(name) {
  return this.each(function() {
    interrupt(this, name);
  });
}

function tweenRemove(id, name) {
  var tween0, tween1;
  return function() {
    var schedule$$1 = set$3(this, id),
        tween = schedule$$1.tween;

    // If this node shared tween with the previous node,
    // just assign the updated shared tween and we're done!
    // Otherwise, copy-on-write.
    if (tween !== tween0) {
      tween1 = tween0 = tween;
      for (var i = 0, n = tween1.length; i < n; ++i) {
        if (tween1[i].name === name) {
          tween1 = tween1.slice();
          tween1.splice(i, 1);
          break;
        }
      }
    }

    schedule$$1.tween = tween1;
  };
}

function tweenFunction(id, name, value) {
  var tween0, tween1;
  if (typeof value !== "function") { throw new Error; }
  return function() {
    var schedule$$1 = set$3(this, id),
        tween = schedule$$1.tween;

    // If this node shared tween with the previous node,
    // just assign the updated shared tween and we're done!
    // Otherwise, copy-on-write.
```

```
    if (tween !== tween0) {
      tween1 = (tween0 = tween).slice();
      for (var t = {name: name, value: value}, i = 0, n = tween1.length; i < n; ++i) {
        if (tween1[i].name === name) {
          tween1[i] = t;
          break;
        }
      }
      if (i === n) { tween1.push(t); }
    }

    schedule$$1.tween = tween1;
  };
}

function transition_tween(name, value) {
  var id = this._id;

  name += "";

  if (arguments.length < 2) {
    var tween = get$1(this.node(), id).tween;
    for (var i = 0, n = tween.length, t; i < n; ++i) {
      if ((t = tween[i]).name === name) {
        return t.value;
      }
    }
    return null;
  }

  return this.each((value == null ? tweenRemove : tweenFunction)(id, name, value));
}

function tweenValue(transition, name, value) {
  var id = transition._id;

  transition.each(function() {
    var schedule$$1 = set$3(this, id);
    (schedule$$1.value || (schedule$$1.value = {}))[name] = value.apply(this, arguments);
  });

  return function(node) {
    return get$1(node, id).value[name];
  };
}
```

```
function interpolate(a, b) {
  var c;
  return (typeof b === "number" ? reinterpolate
      : b instanceof color ? interpolateRgb
      : (c = color(b)) ? (b = c, interpolateRgb)
      : interpolateString)(a, b);
}

function attrRemove$1(name) {
  return function() {
    this.removeAttribute(name);
  };
}

function attrRemoveNS$1(fullname) {
  return function() {
    this.removeAttributeNS(fullname.space, fullname.local);
  };
}

function attrConstant$1(name, interpolate$$1, value1) {
  var value00,
      interpolate0;
  return function() {
    var value0 = this.getAttribute(name);
    return value0 === value1 ? null
        : value0 === value00 ? interpolate0
        : interpolate0 = interpolate$$1(value00 = value0, value1);
  };
}

function attrConstantNS$1(fullname, interpolate$$1, value1) {
  var value00,
      interpolate0;
  return function() {
    var value0 = this.getAttributeNS(fullname.space, fullname.local);
    return value0 === value1 ? null
        : value0 === value00 ? interpolate0
        : interpolate0 = interpolate$$1(value00 = value0, value1);
  };
}

function attrFunction$1(name, interpolate$$1, value) {
  var value00,
      value10,
      interpolate0;
```

```
  return function() {
    var value0, value1 = value(this);
    if (value1 == null) { return void this.removeAttribute(name); }
    value0 = this.getAttribute(name);
    return value0 === value1 ? null
        : value0 === value00 && value1 === value10 ? interpolate0
        : interpolate0 = interpolate$$1(value00 = value0, value10 = value1);
  };
}

function attrFunctionNS$1(fullname, interpolate$$1, value) {
  var value00,
      value10,
      interpolate0;
  return function() {
    var value0, value1 = value(this);
    if (value1 == null) { return void this.removeAttributeNS(fullname.space, fullname.local); }
    value0 = this.getAttributeNS(fullname.space, fullname.local);
    return value0 === value1 ? null
        : value0 === value00 && value1 === value10 ? interpolate0
        : interpolate0 = interpolate$$1(value00 = value0, value10 = value1);
  };
}

function transition_attr(name, value) {
  var fullname = namespace(name), i = fullname === "transform" ? interpolateTransformSvg :
          interpolate;
  return this.attrTween(name, typeof value === "function"
      ? (fullname.local ? attrFunctionNS$1 : attrFunction$1)(fullname, i, tweenValue(this, "attr." +
          name, value))
      : value == null ? (fullname.local ? attrRemoveNS$1 : attrRemove$1)(fullname)
      : (fullname.local ? attrConstantNS$1 : attrConstant$1)(fullname, i, value + ""));
}

function attrTweenNS(fullname, value) {
  function tween() {
    var node = this, i = value.apply(node, arguments);
    return i && function(t) {
      node.setAttributeNS(fullname.space, fullname.local, i(t));
    };
  }
  tween._value = value;
  return tween;
}

function attrTween(name, value) {
```

```
  function tween() {
    var node = this, i = value.apply(node, arguments);
    return i && function(t) {
      node.setAttribute(name, i(t));
    };
  }
  tween._value = value;
  return tween;
}

function transition_attrTween(name, value) {
  var key = "attr." + name;
  if (arguments.length < 2) { return (key = this.tween(key)) && key._value; }
  if (value == null) { return this.tween(key, null); }
  if (typeof value !== "function") { throw new Error; }
  var fullname = namespace(name);
  return this.tween(key, (fullname.local ? attrTweenNS : attrTween)(fullname, value));
}

function delayFunction(id, value) {
  return function() {
    init(this, id).delay = +value.apply(this, arguments);
  };
}

function delayConstant(id, value) {
  return value = +value, function() {
    init(this, id).delay = value;
  };
}

function transition_delay(value) {
  var id = this._id;

  return arguments.length
      ? this.each((typeof value === "function"
          ? delayFunction
          : delayConstant)(id, value))
      : get$1(this.node(), id).delay;
}

function durationFunction(id, value) {
  return function() {
    set$3(this, id).duration = +value.apply(this, arguments);
  };
}
```

```
function durationConstant(id, value) {
  return value = +value, function() {
    set$3(this, id).duration = value;
  };
}

function transition_duration(value) {
  var id = this._id;

  return arguments.length
      ? this.each((typeof value === "function"
          ? durationFunction
          : durationConstant)(id, value))
      : get$1(this.node(), id).duration;
}

function easeConstant(id, value) {
  if (typeof value !== "function") { throw new Error; }
  return function() {
    set$3(this, id).ease = value;
  };
}

function transition_ease(value) {
  var id = this._id;

  return arguments.length
      ? this.each(easeConstant(id, value))
      : get$1(this.node(), id).ease;
}

function transition_filter(match) {
  if (typeof match !== "function") { match = matcher$1(match); }

  for (var groups = this._groups, m = groups.length, subgroups = new Array(m), j = 0; j < m; ++j)
          {
    for (var group = groups[j], n = group.length, subgroup = subgroups[j] = [], node, i = 0; i < n;
          ++i) {
      if ((node = group[i]) && match.call(node, node.__data__, i, group)) {
        subgroup.push(node);
      }
    }
  }

  return new Transition$2(subgroups, this._parents, this._name, this._id);
```

```
}

function transition_merge(transition) {
  if (transition._id !== this._id) { throw new Error; }

  for (var groups0 = this._groups, groups1 = transition._groups, m0 = groups0.length, m1 =
          groups1.length, m = Math.min(m0, m1), merges = new Array(m0), j = 0; j < m; ++j) {
    for (var group0 = groups0[j], group1 = groups1[j], n = group0.length, merge = merges[j] =
          new Array(n), node, i = 0; i < n; ++i) {
      if (node = group0[i] || group1[i]) {
        merge[i] = node;
      }
    }
  }

  for (; j < m0; ++j) {
    merges[j] = groups0[j];
  }

  return new Transition$2(merges, this._parents, this._name, this._id);
}

function start(name) {
  return (name + "").trim().split(/^|\s+/).every(function(t) {
    var i = t.indexOf(".");
    if (i >= 0) { t = t.slice(0, i); }
    return !t || t === "start";
  });
}

function onFunction(id, name, listener) {
  var on0, on1, sit = start(name) ? init : set$3;
  return function() {
    var schedule$$1 = sit(this, id),
        on = schedule$$1.on;

    // If this node shared a dispatch with the previous node,
    // just assign the updated shared dispatch and we're done!
    // Otherwise, copy-on-write.
    if (on !== on0) { (on1 = (on0 = on).copy()).on(name, listener); }

    schedule$$1.on = on1;
  };
}

function transition_on(name, listener) {
```

```
  var id = this._id;

  return arguments.length < 2
      ? get$1(this.node(), id).on.on(name)
      : this.each(onFunction(id, name, listener));
}

function removeFunction(id) {
  return function() {
    var this$1 = this;

    var parent = this.parentNode;
    for (var i in this$1.__transition) { if (+i !== id) { return; } }
    if (parent) { parent.removeChild(this); }
  };
}

function transition_remove() {
  return this.on("end.remove", removeFunction(this._id));
}

function transition_select(select$$1) {
  var name = this._name,
      id = this._id;

  if (typeof select$$1 !== "function") { select$$1 = selector(select$$1); }

  for (var groups = this._groups, m = groups.length, subgroups = new Array(m), j = 0; j < m; ++j)
          {
    for (var group = groups[j], n = group.length, subgroup = subgroups[j] = new Array(n), node,
          subnode, i = 0; i < n; ++i) {
      if ((node = group[i]) && (subnode = select$$1.call(node, node.__data__, i, group))) {
        if ("__data__" in node) { subnode.__data__ = node.__data__; }
        subgroup[i] = subnode;
        schedule(subgroup[i], name, id, i, subgroup, get$1(node, id));
      }
    }
  }

  return new Transition$2(subgroups, this._parents, name, id);
}

function transition_selectAll(select$$1) {
  var name = this._name,
      id = this._id;
```

```
  if (typeof select$$1 !== "function") { select$$1 = selectorAll(select$$1); }

  for (var groups = this._groups, m = groups.length, subgroups = [], parents = [], j = 0; j < m;
          ++j) {
    for (var group = groups[j], n = group.length, node, i = 0; i < n; ++i) {
      if (node = group[i]) {
        for (var children = select$$1.call(node, node.__data__, i, group), child, inherit =
            get$1(node, id), k = 0, l = children.length; k < l; ++k) {
          if (child = children[k]) {
            schedule(child, name, id, k, children, inherit);
          }
        }
        subgroups.push(children);
        parents.push(node);
      }
    }
  }

  return new Transition$2(subgroups, parents, name, id);
}

var Selection$1 = selection.prototype.constructor;

function transition_selection() {
  return new Selection$1(this._groups, this._parents);
}

function styleRemove$1(name, interpolate$$1) {
  var value00,
      value10,
      interpolate0;
  return function() {
    var value0 = styleValue(this, name),
        value1 = (this.style.removeProperty(name), styleValue(this, name));
    return value0 === value1 ? null
        : value0 === value00 && value1 === value10 ? interpolate0
        : interpolate0 = interpolate$$1(value00 = value0, value10 = value1);
  };
}

function styleRemoveEnd(name) {
  return function() {
    this.style.removeProperty(name);
  };
}
```

```
function styleConstant$1(name, interpolate$$1, value1) {
  var value00,
      interpolate0;
  return function() {
    var value0 = styleValue(this, name);
    return value0 === value1 ? null
        : value0 === value00 ? interpolate0
        : interpolate0 = interpolate$$1(value00 = value0, value1);
  };
}

function styleFunction$1(name, interpolate$$1, value) {
  var value00,
      value10,
      interpolate0;
  return function() {
    var value0 = styleValue(this, name),
        value1 = value(this);
    if (value1 == null) { value1 = (this.style.removeProperty(name), styleValue(this, name)); }
    return value0 === value1 ? null
        : value0 === value00 && value1 === value10 ? interpolate0
        : interpolate0 = interpolate$$1(value00 = value0, value10 = value1);
  };
}

function transition_style(name, value, priority) {
  var i = (name += "") === "transform" ? interpolateTransformCss : interpolate;
  return value == null ? this
          .styleTween(name, styleRemove$1(name, i))
          .on("end.style." + name, styleRemoveEnd(name))
      : this.styleTween(name, typeof value === "function"
          ? styleFunction$1(name, i, tweenValue(this, "style." + name, value))
          : styleConstant$1(name, i, value + ""), priority);
}

function styleTween(name, value, priority) {
  function tween() {
    var node = this, i = value.apply(node, arguments);
    return i && function(t) {
      node.style.setProperty(name, i(t), priority);
    };
  }
  tween._value = value;
  return tween;
}
```

```
function transition_styleTween(name, value, priority) {
  var key = "style." + (name += "");
  if (arguments.length < 2) { return (key = this.tween(key)) && key._value; }
  if (value == null) { return this.tween(key, null); }
  if (typeof value !== "function") { throw new Error; }
  return this.tween(key, styleTween(name, value, priority == null ? "" : priority));
}

function textConstant$1(value) {
  return function() {
    this.textContent = value;
  };
}

function textFunction$1(value) {
  return function() {
    var value1 = value(this);
    this.textContent = value1 == null ? "" : value1;
  };
}

function transition_text(value) {
  return this.tween("text", typeof value === "function"
      ? textFunction$1(tweenValue(this, "text", value))
      : textConstant$1(value == null ? "" : value + ""));
}

function transition_transition() {
  var name = this._name,
      id0 = this._id,
      id1 = newId();

  for (var groups = this._groups, m = groups.length, j = 0; j < m; ++j) {
    for (var group = groups[j], n = group.length, node, i = 0; i < n; ++i) {
      if (node = group[i]) {
        var inherit = get$1(node, id0);
        schedule(node, name, id1, i, group, {
          time: inherit.time + inherit.delay + inherit.duration,
          delay: 0,
          duration: inherit.duration,
          ease: inherit.ease
        });
      }
    }
  }
```

```
  return new Transition$2(groups, this._parents, name, id1);
}

var id = 0;

function Transition$2(groups, parents, name, id) {
  this._groups = groups;
  this._parents = parents;
  this._name = name;
  this._id = id;
}

function transition$2(name) {
  return selection().transition(name);
}

function newId() {
  return ++id;
}

var selection_prototype = selection.prototype;

Transition$2.prototype = transition$2.prototype = {
  constructor: Transition$2,
  select: transition_select,
  selectAll: transition_selectAll,
  filter: transition_filter,
  merge: transition_merge,
  selection: transition_selection,
  transition: transition_transition,
  call: selection_prototype.call,
  nodes: selection_prototype.nodes,
  node: selection_prototype.node,
  size: selection_prototype.size,
  empty: selection_prototype.empty,
  each: selection_prototype.each,
  on: transition_on,
  attr: transition_attr,
  attrTween: transition_attrTween,
  style: transition_style,
  styleTween: transition_styleTween,
  text: transition_text,
  remove: transition_remove,
  tween: transition_tween,
  delay: transition_delay,
  duration: transition_duration,
```

```
  ease: transition_ease
};

function cubicInOut(t) {
  return ((t *= 2) <= 1 ? t * t * t : (t -= 2) * t * t + 2) / 2;
}

var pi = Math.PI;

var tau = 2 * Math.PI;

var defaultTiming = {
  time: null, // Set on use.
  delay: 0,
  duration: 250,
  ease: cubicInOut
};

function inherit(node, id) {
  var timing;
  while (!(timing = node.__transition) || !(timing = timing[id])) {
    if (!(node = node.parentNode)) {
      return defaultTiming.time = now(), defaultTiming;
    }
  }
  return timing;
}

function selection_transition(name) {
  var id,
      timing;

  if (name instanceof Transition$2) {
    id = name._id, name = name._name;
  } else {
    id = newId(), (timing = defaultTiming).time = now(), name = name == null ? null : name + "";
  }

  for (var groups = this._groups, m = groups.length, j = 0; j < m; ++j) {
    for (var group = groups[j], n = group.length, node, i = 0; i < n; ++i) {
      if (node = group[i]) {
        schedule(node, name, id, i, group, timing || inherit(node, id));
      }
    }
  }
```

```
  return new Transition$2(groups, this._parents, name, id);
}

selection.prototype.interrupt = selection_interrupt;
selection.prototype.transition = selection_transition;

var pi$1 = Math.PI;

var pi$2 = Math.PI,
    tau$2 = 2 * pi$2,
    epsilon$1 = 1e-6,
    tauEpsilon = tau$2 - epsilon$1;

function Path() {
  this._x0 = this._y0 = // start of current subpath
  this._x1 = this._y1 = null; // end of current subpath
  this._ = "";
}

function path() {
  return new Path;
}

Path.prototype = path.prototype = {
  constructor: Path,
  moveTo: function(x, y) {
    this._ += "M" + (this._x0 = this._x1 = +x) + "," + (this._y0 = this._y1 = +y);
  },
  closePath: function() {
    if (this._x1 !== null) {
      this._x1 = this._x0, this._y1 = this._y0;
      this._ += "Z";
    }
  },
  lineTo: function(x, y) {
    this._ += "L" + (this._x1 = +x) + "," + (this._y1 = +y);
  },
  quadraticCurveTo: function(x1, y1, x, y) {
    this._ += "Q" + (+x1) + "," + (+y1) + "," + (this._x1 = +x) + "," + (this._y1 = +y);
  },
  bezierCurveTo: function(x1, y1, x2, y2, x, y) {
    this._ += "C" + (+x1) + "," + (+y1) + "," + (+x2) + "," + (+y2) + "," + (this._x1 = +x) + "," +
        (this._y1 = +y);
  },
  arcTo: function(x1, y1, x2, y2, r) {
    x1 = +x1, y1 = +y1, x2 = +x2, y2 = +y2, r = +r;
```

```
var x0 = this._x1,
    y0 = this._y1,
    x21 = x2 - x1,
    y21 = y2 - y1,
    x01 = x0 - x1,
    y01 = y0 - y1,
    l01_2 = x01 * x01 + y01 * y01;

// Is the radius negative? Error.
if (r < 0) { throw new Error("negative radius: " + r); }

// Is this path empty? Move to (x1,y1).
if (this._x1 === null) {
  this._ += "M" + (this._x1 = x1) + "," + (this._y1 = y1);
}

// Or, is (x1,y1) coincident with (x0,y0)? Do nothing.
else if (!(l01_2 > epsilon$1)) {}

// Or, are (x0,y0), (x1,y1) and (x2,y2) collinear?
// Equivalently, is (x1,y1) coincident with (x2,y2)?
// Or, is the radius zero? Line to (x1,y1).
else if (!(Math.abs(y01 * x21 - y21 * x01) > epsilon$1) || !r) {
  this._ += "L" + (this._x1 = x1) + "," + (this._y1 = y1);
}

// Otherwise, draw an arc!
else {
  var x20 = x2 - x0,
      y20 = y2 - y0,
      l21_2 = x21 * x21 + y21 * y21,
      l20_2 = x20 * x20 + y20 * y20,
      l21 = Math.sqrt(l21_2),
      l01 = Math.sqrt(l01_2),
      l = r * Math.tan((pi$2 - Math.acos((l21_2 + l01_2 - l20_2) / (2 * l21 * l01))) / 2),
      t01 = l / l01,
      t21 = l / l21;

  // If the start tangent is not coincident with (x0,y0), line to.
  if (Math.abs(t01 - 1) > epsilon$1) {
    this._ += "L" + (x1 + t01 * x01) + "," + (y1 + t01 * y01);
  }

  this._ += "A" + r + "," + r + ",0,0," + (+(y01 * x20 > x01 * y20)) + "," + (this._x1 = x1 + t21
       * x21) + "," + (this._y1 = y1 + t21 * y21);
}
```

```
},
arc: function(x, y, r, a0, a1, ccw) {
  x = +x, y = +y, r = +r;
  var dx = r * Math.cos(a0),
      dy = r * Math.sin(a0),
      x0 = x + dx,
      y0 = y + dy,
      cw = 1 ^ ccw,
      da = ccw ? a0 - a1 : a1 - a0;

  // Is the radius negative? Error.
  if (r < 0) { throw new Error("negative radius: " + r); }

  // Is this path empty? Move to (x0,y0).
  if (this._x1 === null) {
    this._ += "M" + x0 + "," + y0;
  }

  // Or, is (x0,y0) not coincident with the previous point? Line to (x0,y0).
  else if (Math.abs(this._x1 - x0) > epsilon$1 || Math.abs(this._y1 - y0) > epsilon$1) {
    this._ += "L" + x0 + "," + y0;
  }

  // Is this arc empty? We're done.
  if (!r) { return; }

  // Does the angle go the wrong way? Flip the direction.
  if (da < 0) { da = da % tau$2 + tau$2; }

  // Is this a complete circle? Draw two arcs to complete the circle.
  if (da > tauEpsilon) {
    this._ += "A" + r + "," + r + ",0,1," + cw + "," + (x - dx) + "," + (y - dy) + "A" + r + "," + r +
        ",0,1," + cw + "," + (this._x1 = x0) + "," + (this._y1 = y0);
  }

  // Is this arc non-empty? Draw an arc!
  else if (da > epsilon$1) {
    this._ += "A" + r + "," + r + ",0," + (+(da >= pi$2)) + "," + cw + "," + (this._x1 = x + r *
        Math.cos(a1)) + "," + (this._y1 = y + r * Math.sin(a1));
  }
},
rect: function(x, y, w, h) {
  this._ += "M" + (this._x0 = this._x1 = +x) + "," + (this._y0 = this._y1 = +y) + "h" + (+w) +
        "v" + (+h) + "h" + (-w) + "Z";
},
toString: function() {
```

```
    return this._;
  }
};

var prefix = "$";

function Map() {}

Map.prototype = map$1.prototype = {
  constructor: Map,
  has: function(key) {
    return (prefix + key) in this;
  },
  get: function(key) {
    return this[prefix + key];
  },
  set: function(key, value) {
    this[prefix + key] = value;
    return this;
  },
  remove: function(key) {
    var property = prefix + key;
    return property in this && delete this[property];
  },
  clear: function() {
    var this$1 = this;

    for (var property in this$1) { if (property[0] === prefix) { delete this$1[property]; } }
  },
  keys: function() {
    var this$1 = this;

    var keys = [];
    for (var property in this$1) { if (property[0] === prefix) { keys.push(property.slice(1)); } }
    return keys;
  },
  values: function() {
    var this$1 = this;

    var values = [];
    for (var property in this$1) { if (property[0] === prefix) { values.push(this$1[property]); } }
    return values;
  },
  entries: function() {
    var this$1 = this;
```

```
    var entries = [];
    for (var property in this$1) { if (property[0] === prefix) { entries.push({key: property.slice(1),
          value: this$1[property]}); } }
    return entries;
  },
  size: function() {
    var this$1 = this;

    var size = 0;
    for (var property in this$1) { if (property[0] === prefix) { ++size; } }
    return size;
  },
  empty: function() {
    var this$1 = this;

    for (var property in this$1) { if (property[0] === prefix) { return false; } }
    return true;
  },
  each: function(f) {
    var this$1 = this;

    for (var property in this$1) { if (property[0] === prefix) { f(this$1[property], property.slice(1),
          this$1); } }
  }
};

function map$1(object, f) {
  var map = new Map;

  // Copy constructor.
  if (object instanceof Map) { object.each(function(value, key) { map.set(key, value); }); }

  // Index array by numeric index or specified key function.
  else if (Array.isArray(object)) {
    var i = -1,
        n = object.length,
        o;

    if (f == null) { while (++i < n) { map.set(i, object[i]); } }
    else { while (++i < n) { map.set(f(o = object[i], i, object), o); } }
  }

  // Convert object to map.
  else if (object) { for (var key in object) { map.set(key, object[key]); } }

  return map;
```

```
}

function Set$1() {}

var proto = map$1.prototype;

Set$1.prototype = set$4.prototype = {
  constructor: Set$1,
  has: proto.has,
  add: function(value) {
    value += "";
    this[prefix + value] = value;
    return this;
  },
  remove: proto.remove,
  clear: proto.clear,
  values: proto.keys,
  size: proto.size,
  empty: proto.empty,
  each: proto.each
};

function set$4(object, f) {
  var set = new Set$1;

  // Copy constructor.
  if (object instanceof Set$1) { object.each(function(value) { set.add(value); }); }

  // Otherwise, assume it's an array.
  else if (object) {
    var i = -1, n = object.length;
    if (f == null) { while (++i < n) { set.add(object[i]); } }
    else { while (++i < n) { set.add(f(object[i], i, object)); } }
  }

  return set;
}

var EOL = {},
    EOF = {},
    QUOTE = 34,
    NEWLINE = 10,
    RETURN = 13;

function objectConverter(columns) {
  return new Function("d", "return {" + columns.map(function(name, i) {
```

```
    return JSON.stringify(name) + ": d[" + i + "]";
  }).join(",") + "}");
}

function customConverter(columns, f) {
  var object = objectConverter(columns);
  return function(row, i) {
    return f(object(row), i, columns);
  };
}

// Compute unique columns in order of discovery.
function inferColumns(rows) {
  var columnSet = Object.create(null),
      columns = [];

  rows.forEach(function(row) {
    for (var column in row) {
      if (!(column in columnSet)) {
        columns.push(columnSet[column] = column);
      }
    }
  });

  return columns;
}

function dsv(delimiter) {
  var reFormat = new RegExp("[\"" + delimiter + "\n\r]"),
      DELIMITER = delimiter.charCodeAt(0);

  function parse(text, f) {
    var convert, columns, rows = parseRows(text, function(row, i) {
      if (convert) { return convert(row, i - 1); }
      columns = row, convert = f ? customConverter(row, f) : objectConverter(row);
    });
    rows.columns = columns || [];
    return rows;
  }

  function parseRows(text, f) {
    var rows = [], // output rows
        N = text.length,
        I = 0, // current character index
        n = 0, // current line number
        t, // current token
```

```
    eof = N <= 0, // current token followed by EOF?
    eol = false; // current token followed by EOL?

  // Strip the trailing newline.
  if (text.charCodeAt(N - 1) === NEWLINE) { --N; }
  if (text.charCodeAt(N - 1) === RETURN) { --N; }

  function token() {
    if (eof) { return EOF; }
    if (eol) { return eol = false, EOL; }

    // Unescape quotes.
    var i, j = I, c;
    if (text.charCodeAt(j) === QUOTE) {
      while (I++ < N && text.charCodeAt(I) !== QUOTE || text.charCodeAt(++I) ===
          QUOTE){ }
      if ((i = I) >= N) { eof = true; }
      else if ((c = text.charCodeAt(I++)) === NEWLINE) { eol = true; }
      else if (c === RETURN) { eol = true; if (text.charCodeAt(I) === NEWLINE) { ++I; } }
      return text.slice(j + 1, i - 1).replace(/""/g, "\"");
    }

    // Find next delimiter or newline.
    while (I < N) {
      if ((c = text.charCodeAt(i = I++)) === NEWLINE) { eol = true; }
      else if (c === RETURN) { eol = true; if (text.charCodeAt(I) === NEWLINE) { ++I; } }
      else if (c !== DELIMITER) { continue; }
      return text.slice(j, i);
    }

    // Return last token before EOF.
    return eof = true, text.slice(j, N);
  }

  while ((t = token()) !== EOF) {
    var row = [];
    while (t !== EOL && t !== EOF) { row.push(t), t = token(); }
    if (f && (row = f(row, n++)) == null) { continue; }
    rows.push(row);
  }

  return rows;
}

function format(rows, columns) {
  if (columns == null) { columns = inferColumns(rows); }
```

```
    return [columns.map(formatValue).join(delimiter)].concat(rows.map(function(row) {
      return columns.map(function(column) {
        return formatValue(row[column]);
      }).join(delimiter);
    })).join("\n");
  }

  function formatRows(rows) {
    return rows.map(formatRow).join("\n");
  }

  function formatRow(row) {
    return row.map(formatValue).join(delimiter);
  }

  function formatValue(text) {
    return text == null ? ""
        : reFormat.test(text += "") ? "\"" + text.replace(/"/g, "\"\"") + "\""
        : text;
  }

  return {
    parse: parse,
    parseRows: parseRows,
    format: format,
    formatRows: formatRows
  };
}

var csv = dsv(",");

var tsv = dsv("\t");

function tree_add(d) {
  var x = +this._x.call(null, d),
      y = +this._y.call(null, d);
  return add$3(this.cover(x, y), x, y, d);
}

function add$3(tree, x, y, d) {
  if (isNaN(x) || isNaN(y)) { return tree; } // ignore invalid points

  var parent,
      node = tree._root,
      leaf = {data: d},
      x0 = tree._x0,
```

```
    y0 = tree._y0,
    x1 = tree._x1,
    y1 = tree._y1,
    xm,
    ym,
    xp,
    yp,
    right,
    bottom,
    i,
    j;

  // If the tree is empty, initialize the root as a leaf.
  if (!node) { return tree._root = leaf, tree; }

  // Find the existing leaf for the new point, or add it.
  while (node.length) {
    if (right = x >= (xm = (x0 + x1) / 2)) { x0 = xm; } else { x1 = xm; }
    if (bottom = y >= (ym = (y0 + y1) / 2)) { y0 = ym; } else { y1 = ym; }
    if (parent = node, !(node = node[i = bottom << 1 | right])) { return parent[i] = leaf, tree; }
  }

  // Is the new point is exactly coincident with the existing point?
  xp = +tree._x.call(null, node.data);
  yp = +tree._y.call(null, node.data);
  if (x === xp && y === yp) { return leaf.next = node, parent ? parent[i] = leaf : tree._root = leaf,
          tree; }

  // Otherwise, split the leaf node until the old and new point are separated.
  do {
    parent = parent ? parent[i] = new Array(4) : tree._root = new Array(4);
    if (right = x >= (xm = (x0 + x1) / 2)) { x0 = xm; } else { x1 = xm; }
    if (bottom = y >= (ym = (y0 + y1) / 2)) { y0 = ym; } else { y1 = ym; }
  } while ((i = bottom << 1 | right) === (j = (yp >= ym) << 1 | (xp >= xm)));
  return parent[j] = node, parent[i] = leaf, tree;
}

function addAll(data) {
  var this$1 = this;

  var d, i, n = data.length,
      x,
      y,
      xz = new Array(n),
      yz = new Array(n),
      x0 = Infinity,
```

```
    y0 = Infinity,
    x1 = -Infinity,
    y1 = -Infinity;

  // Compute the points and their extent.
  for (i = 0; i < n; ++i) {
    if (isNaN(x = +this$1._x.call(null, d = data[i])) || isNaN(y = +this$1._y.call(null, d)))
        { continue; }
    xz[i] = x;
    yz[i] = y;
    if (x < x0) { x0 = x; }
    if (x > x1) { x1 = x; }
    if (y < y0) { y0 = y; }
    if (y > y1) { y1 = y; }
  }

  // If there were no (valid) points, inherit the existing extent.
  if (x1 < x0) { x0 = this._x0, x1 = this._x1; }
  if (y1 < y0) { y0 = this._y0, y1 = this._y1; }

  // Expand the tree to cover the new points.
  this.cover(x0, y0).cover(x1, y1);

  // Add the new points.
  for (i = 0; i < n; ++i) {
    add$3(this$1, xz[i], yz[i], data[i]);
  }

  return this;
}

function tree_cover(x, y) {
  if (isNaN(x = +x) || isNaN(y = +y)) { return this; } // ignore invalid points

  var x0 = this._x0,
      y0 = this._y0,
      x1 = this._x1,
      y1 = this._y1;

  // If the quadtree has no extent, initialize them.
  // Integer extent are necessary so that if we later double the extent,
  // the existing quadrant boundaries don't change due to floating point error!
  if (isNaN(x0)) {
    x1 = (x0 = Math.floor(x)) + 1;
    y1 = (y0 = Math.floor(y)) + 1;
  }
```

```
  // Otherwise, double repeatedly to cover.
  else if (x0 > x || x > x1 || y0 > y || y > y1) {
    var z = x1 - x0,
        node = this._root,
        parent,
        i;

    switch (i = (y < (y0 + y1) / 2) << 1 | (x < (x0 + x1) / 2)) {
      case 0: {
        do { parent = new Array(4), parent[i] = node, node = parent; }
        while (z *= 2, x1 = x0 + z, y1 = y0 + z, x > x1 || y > y1);
        break;
      }
      case 1: {
        do { parent = new Array(4), parent[i] = node, node = parent; }
        while (z *= 2, x0 = x1 - z, y1 = y0 + z, x0 > x || y > y1);
        break;
      }
      case 2: {
        do { parent = new Array(4), parent[i] = node, node = parent; }
        while (z *= 2, x1 = x0 + z, y0 = y1 - z, x > x1 || y0 > y);
        break;
      }
      case 3: {
        do { parent = new Array(4), parent[i] = node, node = parent; }
        while (z *= 2, x0 = x1 - z, y0 = y1 - z, x0 > x || y0 > y);
        break;
      }
    }

    if (this._root && this._root.length) { this._root = node; }
  }

  // If the quadtree covers the point already, just return.
  else { return this; }

  this._x0 = x0;
  this._y0 = y0;
  this._x1 = x1;
  this._y1 = y1;
  return this;
}

function tree_data() {
  var data = [];
```

```
  this.visit(function(node) {
    if (!node.length) { do { data.push(node.data); } while (node = node.next) }
  });
  return data;
}

function tree_extent(_) {
  return arguments.length
      ? this.cover(+_[0][0], +_[0][1]).cover(+_[1][0], +_[1][1])
      : isNaN(this._x0) ? undefined : [[this._x0, this._y0], [this._x1, this._y1]];
}

function Quad(node, x0, y0, x1, y1) {
  this.node = node;
  this.x0 = x0;
  this.y0 = y0;
  this.x1 = x1;
  this.y1 = y1;
}

function tree_find(x, y, radius) {
  var this$1 = this;

  var data,
      x0 = this._x0,
      y0 = this._y0,
      x1,
      y1,
      x2,
      y2,
      x3 = this._x1,
      y3 = this._y1,
      quads = [],
      node = this._root,
      q,
      i;

  if (node) { quads.push(new Quad(node, x0, y0, x3, y3)); }
  if (radius == null) { radius = Infinity; }
  else {
    x0 = x - radius, y0 = y - radius;
    x3 = x + radius, y3 = y + radius;
    radius *= radius;
  }

  while (q = quads.pop()) {
```

```
    // Stop searching if this quadrant can't contain a closer node.
    if (!(node = q.node)
        || (x1 = q.x0) > x3
        || (y1 = q.y0) > y3
        || (x2 = q.x1) < x0
        || (y2 = q.y1) < y0) { continue; }

    // Bisect the current quadrant.
    if (node.length) {
      var xm = (x1 + x2) / 2,
          ym = (y1 + y2) / 2;

      quads.push(
        new Quad(node[3], xm, ym, x2, y2),
        new Quad(node[2], x1, ym, xm, y2),
        new Quad(node[1], xm, y1, x2, ym),
        new Quad(node[0], x1, y1, xm, ym)
      );

      // Visit the closest quadrant first.
      if (i = (y >= ym) << 1 | (x >= xm)) {
        q = quads[quads.length - 1];
        quads[quads.length - 1] = quads[quads.length - 1 - i];
        quads[quads.length - 1 - i] = q;
      }
    }

    // Visit this point. (Visiting coincident points isn't necessary!)
    else {
      var dx = x - +this$1._x.call(null, node.data),
          dy = y - +this$1._y.call(null, node.data),
          d2 = dx * dx + dy * dy;
      if (d2 < radius) {
        var d = Math.sqrt(radius = d2);
        x0 = x - d, y0 = y - d;
        x3 = x + d, y3 = y + d;
        data = node.data;
      }
    }
  }

  return data;
}

function tree_remove(d) {
```

```
var this$1 = this;

if (isNaN(x = +this._x.call(null, d)) || isNaN(y = +this._y.call(null, d))) { return this; } // ignore
      invalid points

var parent,
    node = this._root,
    retainer,
    previous,
    next,
    x0 = this._x0,
    y0 = this._y0,
    x1 = this._x1,
    y1 = this._y1,
    x,
    y,
    xm,
    ym,
    right,
    bottom,
    i,
    j;

// If the tree is empty, initialize the root as a leaf.
if (!node) { return this; }

// Find the leaf node for the point.
// While descending, also retain the deepest parent with a non-removed sibling.
if (node.length) { while (true) {
  if (right = x >= (xm = (x0 + x1) / 2)) { x0 = xm; } else { x1 = xm; }
  if (bottom = y >= (ym = (y0 + y1) / 2)) { y0 = ym; } else { y1 = ym; }
  if (!(parent = node, node = node[i = bottom << 1 | right])) { return this$1; }
  if (!node.length) { break; }
  if (parent[(i + 1) & 3] || parent[(i + 2) & 3] || parent[(i + 3) & 3]) { retainer = parent, j = i; }
} }

// Find the point to remove.
while (node.data !== d) { if (!(previous = node, node = node.next)) { return this$1; } }
if (next = node.next) { delete node.next; }

// If there are multiple coincident points, remove just the point.
if (previous) { return next ? previous.next = next : delete previous.next, this; }

// If this is the root point, remove it.
if (!parent) { return this._root = next, this; }
```

```
  // Remove this leaf.
  next ? parent[i] = next : delete parent[i];

  // If the parent now contains exactly one leaf, collapse superfluous parents.
  if ((node = parent[0] || parent[1] || parent[2] || parent[3])
      && node === (parent[3] || parent[2] || parent[1] || parent[0])
      && !node.length) {
    if (retainer) { retainer[j] = node; }
    else { this._root = node; }
  }

  return this;
}

function removeAll(data) {
  var this$1 = this;

  for (var i = 0, n = data.length; i < n; ++i) { this$1.remove(data[i]); }
  return this;
}

function tree_root() {
  return this._root;
}

function tree_size() {
  var size = 0;
  this.visit(function(node) {
    if (!node.length) { do { ++size; } while (node = node.next) }
  });
  return size;
}

function tree_visit(callback) {
  var quads = [], q, node = this._root, child, x0, y0, x1, y1;
  if (node) { quads.push(new Quad(node, this._x0, this._y0, this._x1, this._y1)); }
  while (q = quads.pop()) {
    if (!callback(node = q.node, x0 = q.x0, y0 = q.y0, x1 = q.x1, y1 = q.y1) && node.length) {
      var xm = (x0 + x1) / 2, ym = (y0 + y1) / 2;
      if (child = node[3]) { quads.push(new Quad(child, xm, ym, x1, y1)); }
      if (child = node[2]) { quads.push(new Quad(child, x0, ym, xm, y1)); }
      if (child = node[1]) { quads.push(new Quad(child, xm, y0, x1, ym)); }
      if (child = node[0]) { quads.push(new Quad(child, x0, y0, xm, ym)); }
    }
  }
  return this;
```

```
}

function tree_visitAfter(callback) {
  var quads = [], next = [], q;
  if (this._root) { quads.push(new Quad(this._root, this._x0, this._y0, this._x1, this._y1)); }
  while (q = quads.pop()) {
    var node = q.node;
    if (node.length) {
      var child, x0 = q.x0, y0 = q.y0, x1 = q.x1, y1 = q.y1, xm = (x0 + x1) / 2, ym = (y0 + y1) / 2;
      if (child = node[0]) { quads.push(new Quad(child, x0, y0, xm, ym)); }
      if (child = node[1]) { quads.push(new Quad(child, xm, y0, x1, ym)); }
      if (child = node[2]) { quads.push(new Quad(child, x0, ym, xm, y1)); }
      if (child = node[3]) { quads.push(new Quad(child, xm, ym, x1, y1)); }
    }
    next.push(q);
  }
  while (q = next.pop()) {
    callback(q.node, q.x0, q.y0, q.x1, q.y1);
  }
  return this;
}

function defaultX(d) {
  return d[0];
}

function tree_x(_) {
  return arguments.length ? (this._x = _, this) : this._x;
}

function defaultY(d) {
  return d[1];
}

function tree_y(_) {
  return arguments.length ? (this._y = _, this) : this._y;
}

function quadtree(nodes, x, y) {
  var tree = new Quadtree(x == null ? defaultX : x, y == null ? defaultY : y, NaN, NaN, NaN,
          NaN);
  return nodes == null ? tree : tree.addAll(nodes);
}

function Quadtree(x, y, x0, y0, x1, y1) {
  this._x = x;
```

```
  this._y = y;
  this._x0 = x0;
  this._y0 = y0;
  this._x1 = x1;
  this._y1 = y1;
  this._root = undefined;
}

function leaf_copy(leaf) {
  var copy = {data: leaf.data}, next = copy;
  while (leaf = leaf.next) { next = next.next = {data: leaf.data}; }
  return copy;
}

var treeProto = quadtree.prototype = Quadtree.prototype;

treeProto.copy = function() {
  var copy = new Quadtree(this._x, this._y, this._x0, this._y0, this._x1, this._y1),
      node = this._root,
      nodes,
      child;

  if (!node) { return copy; }

  if (!node.length) { return copy._root = leaf_copy(node), copy; }

  nodes = [{source: node, target: copy._root = new Array(4)}];
  while (node = nodes.pop()) {
    for (var i = 0; i < 4; ++i) {
      if (child = node.source[i]) {
        if (child.length) { nodes.push({source: child, target: node.target[i] = new Array(4)}); }
        else { node.target[i] = leaf_copy(child); }
      }
    }
  }

  return copy;
};

treeProto.add = tree_add;
treeProto.addAll = addAll;
treeProto.cover = tree_cover;
treeProto.data = tree_data;
treeProto.extent = tree_extent;
treeProto.find = tree_find;
treeProto.remove = tree_remove;
```

```
treeProto.removeAll = removeAll;
treeProto.root = tree_root;
treeProto.size = tree_size;
treeProto.visit = tree_visit;
treeProto.visitAfter = tree_visitAfter;
treeProto.x = tree_x;
treeProto.y = tree_y;

var initialAngle = Math.PI * (3 - Math.sqrt(5));

// Computes the decimal coefficient and exponent of the specified number x with
// significant digits p, where x is positive and p is in [1, 21] or undefined.
// For example, formatDecimal(1.23) returns ["123", 0].
function formatDecimal(x, p) {
  if ((i = (x = p ? x.toExponential(p - 1) : x.toExponential()).indexOf("e")) < 0) { return null; } //
          NaN, ±Infinity
  var i, coefficient = x.slice(0, i);

  // The string returned by toExponential either has the form \d\.\d+e[-+]\d+
  // (e.g., 1.2e+3) or the form \de[-+]\d+ (e.g., 1e+3).
  return [
    coefficient.length > 1 ? coefficient[0] + coefficient.slice(2) : coefficient,
    +x.slice(i + 1)
  ];
}

function exponent$1(x) {
  return x = formatDecimal(Math.abs(x)), x ? x[1] : NaN;
}

function formatGroup(grouping, thousands) {
  return function(value, width) {
    var i = value.length,
        t = [],
        j = 0,
        g = grouping[0],
        length = 0;

    while (i > 0 && g > 0) {
      if (length + g + 1 > width) { g = Math.max(1, width - length); }
      t.push(value.substring(i -= g, i + g));
      if ((length += g + 1) > width) { break; }
      g = grouping[j = (j + 1) % grouping.length];
    }

    return t.reverse().join(thousands);
```

```
  };
}

function formatNumerals(numerals) {
  return function(value) {
    return value.replace(/[0-9]/g, function(i) {
      return numerals[+i];
    });
  };
}

function formatDefault(x, p) {
  x = x.toPrecision(p);

  out: for (var n = x.length, i = 1, i0 = -1, i1; i < n; ++i) {
    switch (x[i]) {
      case ".": i0 = i1 = i; break;
      case "0": if (i0 === 0) { i0 = i; } i1 = i; break;
      case "e": break out;
      default: if (i0 > 0) { i0 = 0; } break;
    }
  }

  return i0 > 0 ? x.slice(0, i0) + x.slice(i1 + 1) : x;
}

var prefixExponent;

function formatPrefixAuto(x, p) {
  var d = formatDecimal(x, p);
  if (!d) { return x + ""; }
  var coefficient = d[0],
      exponent = d[1],
      i = exponent - (prefixExponent = Math.max(-8, Math.min(8, Math.floor(exponent / 3))) * 3)
          + 1,
      n = coefficient.length;
  return i === n ? coefficient
      : i > n ? coefficient + new Array(i - n + 1).join("0")
      : i > 0 ? coefficient.slice(0, i) + "." + coefficient.slice(i)
      : "0." + new Array(1 - i).join("0") + formatDecimal(x, Math.max(0, p + i - 1))[0]; // less than
          1y!
}

function formatRounded(x, p) {
  var d = formatDecimal(x, p);
  if (!d) { return x + ""; }
```

```
  var coefficient = d[0],
      exponent = d[1];
  return exponent < 0 ? "0." + new Array(-exponent).join("0") + coefficient
      : coefficient.length > exponent + 1 ? coefficient.slice(0, exponent + 1) + "." +
          coefficient.slice(exponent + 1)
      : coefficient + new Array(exponent - coefficient.length + 2).join("0");
}

var formatTypes = {
  "": formatDefault,
  "%": function(x, p) { return (x * 100).toFixed(p); },
  "b": function(x) { return Math.round(x).toString(2); },
  "c": function(x) { return x + ""; },
  "d": function(x) { return Math.round(x).toString(10); },
  "e": function(x, p) { return x.toExponential(p); },
  "f": function(x, p) { return x.toFixed(p); },
  "g": function(x, p) { return x.toPrecision(p); },
  "o": function(x) { return Math.round(x).toString(8); },
  "p": function(x, p) { return formatRounded(x * 100, p); },
  "r": formatRounded,
  "s": formatPrefixAuto,
  "X": function(x) { return Math.round(x).toString(16).toUpperCase(); },
  "x": function(x) { return Math.round(x).toString(16); }
};

// [[fill]align][sign][symbol][0][width][,][.precision][type]
var re = /^(?:(.)?([<>=^]))?([+\-\( ])?([$#])?(0)?(\d+)?(,)?(\.\d+)?([a-z%])?$/i;

function formatSpecifier(specifier) {
  return new FormatSpecifier(specifier);
}

formatSpecifier.prototype = FormatSpecifier.prototype; // instanceof

function FormatSpecifier(specifier) {
  if (!(match = re.exec(specifier))) { throw new Error("invalid format: " + specifier); }

  var match,
      fill = match[1] || " ",
      align = match[2] || ">",
      sign = match[3] || "-",
      symbol = match[4] || "",
      zero = !!match[5],
      width = match[6] && +match[6],
      comma = !!match[7],
      precision = match[8] && +match[8].slice(1),
```

```
    type = match[9] || "";

  // The "n" type is an alias for ",g".
  if (type === "n") { comma = true, type = "g"; }

  // Map invalid types to the default format.
  else if (!formatTypes[type]) { type = ""; }

  // If zero fill is specified, padding goes after sign and before digits.
  if (zero || (fill === "0" && align === "=")) { zero = true, fill = "0", align = "="; }

  this.fill = fill;
  this.align = align;
  this.sign = sign;
  this.symbol = symbol;
  this.zero = zero;
  this.width = width;
  this.comma = comma;
  this.precision = precision;
  this.type = type;
}

FormatSpecifier.prototype.toString = function() {
  return this.fill
      + this.align
      + this.sign
      + this.symbol
      + (this.zero ? "0" : "")
      + (this.width == null ? "" : Math.max(1, this.width | 0))
      + (this.comma ? "," : "")
      + (this.precision == null ? "" : "." + Math.max(0, this.precision | 0))
      + this.type;
};

function identity$5(x) {
  return x;
}

var prefixes = ["y","z","a","f","p","n","µ","m","","k","M","G","T","P","E","Z","Y"];

function formatLocale(locale) {
  var group = locale.grouping && locale.thousands ? formatGroup(locale.grouping,
          locale.thousands) : identity$5,
      currency = locale.currency,
      decimal = locale.decimal,
      numerals = locale.numerals ? formatNumerals(locale.numerals) : identity$5,
```

```
    percent = locale.percent || "%";

function newFormat(specifier) {
  specifier = formatSpecifier(specifier);

  var fill = specifier.fill,
      align = specifier.align,
      sign = specifier.sign,
      symbol = specifier.symbol,
      zero = specifier.zero,
      width = specifier.width,
      comma = specifier.comma,
      precision = specifier.precision,
      type = specifier.type;

  // Compute the prefix and suffix.
  // For SI-prefix, the suffix is lazily computed.
  var prefix = symbol === "$" ? currency[0] : symbol === "#" && /[boxX]/.test(type) ? "0" +
          type.toLowerCase() : "",
      suffix = symbol === "$" ? currency[1] : /[%p]/.test(type) ? percent : "";

  // What format function should we use?
  // Is this an integer type?
  // Can this type generate exponential notation?
  var formatType = formatTypes[type],
      maybeSuffix = !type || /[defgprs%]/.test(type);

  // Set the default precision if not specified,
  // or clamp the specified precision to the supported range.
  // For significant precision, it must be in [1, 21].
  // For fixed precision, it must be in [0, 20].
  precision = precision == null ? (type ? 6 : 12)
      : /[gprs]/.test(type) ? Math.max(1, Math.min(21, precision))
      : Math.max(0, Math.min(20, precision));

  function format(value) {
    var valuePrefix = prefix,
        valueSuffix = suffix,
        i, n, c;

    if (type === "c") {
      valueSuffix = formatType(value) + valueSuffix;
      value = "";
    } else {
      value = +value;
```

```
  // Perform the initial formatting.
  var valueNegative = value < 0;
  value = formatType(Math.abs(value), precision);

  // If a negative value rounds to zero during formatting, treat as positive.
  if (valueNegative && +value === 0) { valueNegative = false; }

  // Compute the prefix and suffix.
  valuePrefix = (valueNegative ? (sign === "(" ? sign : "-") : sign === "-" || sign === "(" ? "" :
     sign) + valuePrefix;
  valueSuffix = (type === "s" ? prefixes[8 + prefixExponent / 3] : "") + valueSuffix +
     (valueNegative && sign === "(" ? ")" : "");

  // Break the formatted value into the integer “value” part that can be
  // grouped, and fractional or exponential “suffix” part that is not.
  if (maybeSuffix) {
    i = -1, n = value.length;
    while (++i < n) {
      if (c = value.charCodeAt(i), 48 > c || c > 57) {
        valueSuffix = (c === 46 ? decimal + value.slice(i + 1) : value.slice(i)) + valueSuffix;
        value = value.slice(0, i);
        break;
      }
    }
  }
}

// If the fill character is not "0", grouping is applied before padding.
if (comma && !zero) { value = group(value, Infinity); }

// Compute the padding.
var length = valuePrefix.length + value.length + valueSuffix.length,
    padding = length < width ? new Array(width - length + 1).join(fill) : "";

// If the fill character is "0", grouping is applied after padding.
if (comma && zero) { value = group(padding + value, padding.length ? width -
      valueSuffix.length : Infinity), padding = ""; }

// Reconstruct the final output based on the desired alignment.
switch (align) {
  case "<": value = valuePrefix + value + valueSuffix + padding; break;
  case "=": value = valuePrefix + padding + value + valueSuffix; break;
  case "^": value = padding.slice(0, length = padding.length >> 1) + valuePrefix + value +
     valueSuffix + padding.slice(length); break;
  default: value = padding + valuePrefix + value + valueSuffix; break;
}
```

```
      return numerals(value);
    }

    format.toString = function() {
      return specifier + "";
    };

    return format;
  }

  function formatPrefix(specifier, value) {
    var f = newFormat((specifier = formatSpecifier(specifier), specifier.type = "f", specifier)),
        e = Math.max(-8, Math.min(8, Math.floor(exponent$1(value) / 3))) * 3,
        k = Math.pow(10, -e),
        prefix = prefixes[8 + e / 3];
    return function(value) {
      return f(k * value) + prefix;
    };
  }

  return {
    format: newFormat,
    formatPrefix: formatPrefix
  };
}

var locale;
var format;
var formatPrefix;

defaultLocale({
  decimal: ".",
  thousands: ",",
  grouping: [3],
  currency: ["$", ""]
});

function defaultLocale(definition) {
  locale = formatLocale(definition);
  format = locale.format;
  formatPrefix = locale.formatPrefix;
  return locale;
}

// Adds floating point numbers with twice the normal precision.
```

```
// Reference: J. R. Shewchuk, Adaptive Precision Floating-Point Arithmetic and
// Fast Robust Geometric Predicates, Discrete & Computational Geometry 18(3)
// 305–363 (1997).
// Code adapted from GeographicLib by Charles F. F. Karney,
// http://geographiclib.sourceforge.net/

function adder() {
  return new Adder;
}

function Adder() {
  this.reset();
}

Adder.prototype = {
  constructor: Adder,
  reset: function() {
    this.s = // rounded value
    this.t = 0; // exact error
  },
  add: function(y) {
    add$4(temp, y, this.t);
    add$4(this, temp.s, this.s);
    if (this.s) { this.t += temp.t; }
    else { this.s = temp.t; }
  },
  valueOf: function() {
    return this.s;
  }
};

var temp = new Adder;

function add$4(adder, a, b) {
  var x = adder.s = a + b,
      bv = x - a,
      av = x - bv;
  adder.t = (a - av) + (b - bv);
}

var pi$3 = Math.PI;

var areaRingSum = adder();

var areaSum = adder();
```

```
var deltaSum = adder();

var sum$1 = adder();

var lengthSum = adder();

var areaSum$1 = adder(),
    areaRingSum$1 = adder();

var lengthSum$1 = adder();

// Returns the 2D cross product of AB and AC vectors, i.e., the z-component of

var EOL$1 = {},
    EOF$1 = {},
    QUOTE$1 = 34,
    NEWLINE$1 = 10,
    RETURN$1 = 13;

function objectConverter$1(columns) {
  return new Function("d", "return {" + columns.map(function(name, i) {
    return JSON.stringify(name) + ": d[" + i + "]";
  }).join(",") + "}");
}

function customConverter$1(columns, f) {
  var object = objectConverter$1(columns);
  return function(row, i) {
    return f(object(row), i, columns);
  };
}

// Compute unique columns in order of discovery.
function inferColumns$1(rows) {
  var columnSet = Object.create(null),
      columns = [];

  rows.forEach(function(row) {
    for (var column in row) {
      if (!(column in columnSet)) {
        columns.push(columnSet[column] = column);
      }
    }
  });

  return columns;
```

```
}

function dsv$1(delimiter) {
  var reFormat = new RegExp("[\"" + delimiter + "\n\r]"),
      DELIMITER = delimiter.charCodeAt(0);

  function parse(text, f) {
    var convert, columns, rows = parseRows(text, function(row, i) {
      if (convert) { return convert(row, i - 1); }
      columns = row, convert = f ? customConverter$1(row, f) : objectConverter$1(row);
    });
    rows.columns = columns || [];
    return rows;
  }

  function parseRows(text, f) {
    var rows = [], // output rows
        N = text.length,
        I = 0, // current character index
        n = 0, // current line number
        t, // current token
        eof = N <= 0, // current token followed by EOF?
        eol = false; // current token followed by EOL?

    // Strip the trailing newline.
    if (text.charCodeAt(N - 1) === NEWLINE$1) { --N; }
    if (text.charCodeAt(N - 1) === RETURN$1) { --N; }

    function token() {
      if (eof) { return EOF$1; }
      if (eol) { return eol = false, EOL$1; }

      // Unescape quotes.
      var i, j = I, c;
      if (text.charCodeAt(j) === QUOTE$1) {
        while (I++ < N && text.charCodeAt(I) !== QUOTE$1 || text.charCodeAt(++I) ===
            QUOTE$1){ }
        if ((i = I) >= N) { eof = true; }
        else if ((c = text.charCodeAt(I++)) === NEWLINE$1) { eol = true; }
        else if (c === RETURN$1) { eol = true; if (text.charCodeAt(I) === NEWLINE$1)
            { ++I; } }
        return text.slice(j + 1, i - 1).replace(/""/g, "\"");
      }

      // Find next delimiter or newline.
      while (I < N) {
```

```
      if ((c = text.charCodeAt(i = I++)) === NEWLINE$1) { eol = true; }
      else if (c === RETURN$1) { eol = true; if (text.charCodeAt(I) === NEWLINE$1)
          { ++I; } }
      else if (c !== DELIMITER) { continue; }
      return text.slice(j, i);
    }

    // Return last token before EOF.
    return eof = true, text.slice(j, N);
  }

  while ((t = token()) !== EOF$1) {
    var row = [];
    while (t !== EOL$1 && t !== EOF$1) { row.push(t), t = token(); }
    if (f && (row = f(row, n++)) == null) { continue; }
    rows.push(row);
  }

  return rows;
}

function format(rows, columns) {
  if (columns == null) { columns = inferColumns$1(rows); }
  return [columns.map(formatValue).join(delimiter)].concat(rows.map(function(row) {
    return columns.map(function(column) {
      return formatValue(row[column]);
    }).join(delimiter);
  })).join("\n");
}

function formatRows(rows) {
  return rows.map(formatRow).join("\n");
}

function formatRow(row) {
  return row.map(formatValue).join(delimiter);
}

function formatValue(text) {
  return text == null ? ""
      : reFormat.test(text += "") ? "\"" + text.replace(/"/g, "\"\"") + "\""
      : text;
}

return {
  parse: parse,
```

```
    parseRows: parseRows,
    format: format,
    formatRows: formatRows
  };
}

var csv$1 = dsv$1(",");

var tsv$1 = dsv$1("\t");

var array$2 = Array.prototype;
var slice$5 = array$2.slice;

var implicit = {name: "implicit"};

function ordinal(range) {
  var index = map$1(),
      domain = [],
      unknown = implicit;

  range = range == null ? [] : slice$5.call(range);

  function scale(d) {
    var key = d + "", i = index.get(key);
    if (!i) {
      if (unknown !== implicit) { return unknown; }
      index.set(key, i = domain.push(d));
    }
    return range[(i - 1) % range.length];
  }

  scale.domain = function(_) {
    if (!arguments.length) { return domain.slice(); }
    domain = [], index = map$1();
    var i = -1, n = _.length, d, key;
    while (++i < n) { if (!index.has(key = (d = _[i]) + "")) { index.set(key, domain.push(d)); } }
    return scale;
  };

  scale.range = function(_) {
    return arguments.length ? (range = slice$5.call(_), scale) : range.slice();
  };

  scale.unknown = function(_) {
    return arguments.length ? (unknown = _, scale) : unknown;
  };
```

```
  scale.copy = function() {
    return ordinal()
        .domain(domain)
        .range(range)
        .unknown(unknown);
  };

  return scale;
}

var t0$1 = new Date,
    t1$1 = new Date;

function newInterval(floori, offseti, count, field) {

  function interval(date) {
    return floori(date = new Date(+date)), date;
  }

  interval.floor = interval;

  interval.ceil = function(date) {
    return floori(date = new Date(date - 1)), offseti(date, 1), floori(date), date;
  };

  interval.round = function(date) {
    var d0 = interval(date),
        d1 = interval.ceil(date);
    return date - d0 < d1 - date ? d0 : d1;
  };

  interval.offset = function(date, step) {
    return offseti(date = new Date(+date), step == null ? 1 : Math.floor(step)), date;
  };

  interval.range = function(start, stop, step) {
    var range = [], previous;
    start = interval.ceil(start);
    step = step == null ? 1 : Math.floor(step);
    if (!(start < stop) || !(step > 0)) { return range; } // also handles Invalid Date
    do { range.push(previous = new Date(+start)), offseti(start, step), floori(start); }
    while (previous < start && start < stop);
    return range;
  };
```

```
  interval.filter = function(test) {
    return newInterval(function(date) {
      if (date >= date) { while (floori(date), !test(date)) { date.setTime(date - 1); } }
    }, function(date, step) {
      if (date >= date) {
        if (step < 0) { while (++step <= 0) {
          while (offseti(date, -1), !test(date)) {} // eslint-disable-line no-empty
        } } else { while (--step >= 0) {
          while (offseti(date, +1), !test(date)) {} // eslint-disable-line no-empty
        } }
      }
    });
  };

  if (count) {
    interval.count = function(start, end) {
      t0$1.setTime(+start), t1$1.setTime(+end);
      floori(t0$1), floori(t1$1);
      return Math.floor(count(t0$1, t1$1));
    };

    interval.every = function(step) {
      step = Math.floor(step);
      return !isFinite(step) || !(step > 0) ? null
          : !(step > 1) ? interval
          : interval.filter(field
              ? function(d) { return field(d) % step === 0; }
              : function(d) { return interval.count(0, d) % step === 0; });
    };
  }

  return interval;
}

var millisecond = newInterval(function() {
  // noop
}, function(date, step) {
  date.setTime(+date + step);
}, function(start, end) {
  return end - start;
});

// An optimized implementation for this simple case.
millisecond.every = function(k) {
  k = Math.floor(k);
  if (!isFinite(k) || !(k > 0)) { return null; }
```

```
  if (!(k > 1)) { return millisecond; }
  return newInterval(function(date) {
    date.setTime(Math.floor(date / k) * k);
  }, function(date, step) {
    date.setTime(+date + step * k);
  }, function(start, end) {
    return (end - start) / k;
  });
};

var durationSecond = 1e3;
var durationMinute = 6e4;
var durationHour = 36e5;
var durationDay = 864e5;
var durationWeek = 6048e5;

var second = newInterval(function(date) {
  date.setTime(Math.floor(date / durationSecond) * durationSecond);
}, function(date, step) {
  date.setTime(+date + step * durationSecond);
}, function(start, end) {
  return (end - start) / durationSecond;
}, function(date) {
  return date.getUTCSeconds();
});

var minute = newInterval(function(date) {
  date.setTime(Math.floor(date / durationMinute) * durationMinute);
}, function(date, step) {
  date.setTime(+date + step * durationMinute);
}, function(start, end) {
  return (end - start) / durationMinute;
}, function(date) {
  return date.getMinutes();
});

var hour = newInterval(function(date) {
  var offset = date.getTimezoneOffset() * durationMinute % durationHour;
  if (offset < 0) { offset += durationHour; }
  date.setTime(Math.floor((+date - offset) / durationHour) * durationHour + offset);
}, function(date, step) {
  date.setTime(+date + step * durationHour);
}, function(start, end) {
  return (end - start) / durationHour;
}, function(date) {
  return date.getHours();
```

```
});

var day = newInterval(function(date) {
  date.setHours(0, 0, 0, 0);
}, function(date, step) {
  date.setDate(date.getDate() + step);
}, function(start, end) {
  return (end - start - (end.getTimezoneOffset() - start.getTimezoneOffset()) * durationMinute) /
        durationDay;
}, function(date) {
  return date.getDate() - 1;
});

function weekday(i) {
  return newInterval(function(date) {
    date.setDate(date.getDate() - (date.getDay() + 7 - i) % 7);
    date.setHours(0, 0, 0, 0);
  }, function(date, step) {
    date.setDate(date.getDate() + step * 7);
  }, function(start, end) {
    return (end - start - (end.getTimezoneOffset() - start.getTimezoneOffset()) * durationMinute) /
        durationWeek;
  });
}

var sunday = weekday(0);
var monday = weekday(1);
var tuesday = weekday(2);
var wednesday = weekday(3);
var thursday = weekday(4);
var friday = weekday(5);
var saturday = weekday(6);

var month = newInterval(function(date) {
  date.setDate(1);
  date.setHours(0, 0, 0, 0);
}, function(date, step) {
  date.setMonth(date.getMonth() + step);
}, function(start, end) {
  return end.getMonth() - start.getMonth() + (end.getFullYear() - start.getFullYear()) * 12;
}, function(date) {
  return date.getMonth();
});

var year = newInterval(function(date) {
  date.setMonth(0, 1);
```

```
  date.setHours(0, 0, 0, 0);
}, function(date, step) {
  date.setFullYear(date.getFullYear() + step);
}, function(start, end) {
  return end.getFullYear() - start.getFullYear();
}, function(date) {
  return date.getFullYear();
});

// An optimized implementation for this simple case.
year.every = function(k) {
  return !isFinite(k = Math.floor(k)) || !(k > 0) ? null : newInterval(function(date) {
    date.setFullYear(Math.floor(date.getFullYear() / k) * k);
    date.setMonth(0, 1);
    date.setHours(0, 0, 0, 0);
  }, function(date, step) {
    date.setFullYear(date.getFullYear() + step * k);
  });
};

var utcMinute = newInterval(function(date) {
  date.setUTCSeconds(0, 0);
}, function(date, step) {
  date.setTime(+date + step * durationMinute);
}, function(start, end) {
  return (end - start) / durationMinute;
}, function(date) {
  return date.getUTCMinutes();
});

var utcHour = newInterval(function(date) {
  date.setUTCMinutes(0, 0, 0);
}, function(date, step) {
  date.setTime(+date + step * durationHour);
}, function(start, end) {
  return (end - start) / durationHour;
}, function(date) {
  return date.getUTCHours();
});

var utcDay = newInterval(function(date) {
  date.setUTCHours(0, 0, 0, 0);
}, function(date, step) {
  date.setUTCDate(date.getUTCDate() + step);
}, function(start, end) {
  return (end - start) / durationDay;
```

```
}, function(date) {
  return date.getUTCDate() - 1;
});

function utcWeekday(i) {
  return newInterval(function(date) {
    date.setUTCDate(date.getUTCDate() - (date.getUTCDay() + 7 - i) % 7);
    date.setUTCHours(0, 0, 0, 0);
  }, function(date, step) {
    date.setUTCDate(date.getUTCDate() + step * 7);
  }, function(start, end) {
    return (end - start) / durationWeek;
  });
}

var utcSunday = utcWeekday(0);
var utcMonday = utcWeekday(1);
var utcTuesday = utcWeekday(2);
var utcWednesday = utcWeekday(3);
var utcThursday = utcWeekday(4);
var utcFriday = utcWeekday(5);
var utcSaturday = utcWeekday(6);

var utcMonth = newInterval(function(date) {
  date.setUTCDate(1);
  date.setUTCHours(0, 0, 0, 0);
}, function(date, step) {
  date.setUTCMonth(date.getUTCMonth() + step);
}, function(start, end) {
  return end.getUTCMonth() - start.getUTCMonth() + (end.getUTCFullYear() -
         start.getUTCFullYear()) * 12;
}, function(date) {
  return date.getUTCMonth();
});

var utcYear = newInterval(function(date) {
  date.setUTCMonth(0, 1);
  date.setUTCHours(0, 0, 0, 0);
}, function(date, step) {
  date.setUTCFullYear(date.getUTCFullYear() + step);
}, function(start, end) {
  return end.getUTCFullYear() - start.getUTCFullYear();
}, function(date) {
  return date.getUTCFullYear();
});
```

```
// An optimized implementation for this simple case.
utcYear.every = function(k) {
  return !isFinite(k = Math.floor(k)) || !(k > 0) ? null : newInterval(function(date) {
    date.setUTCFullYear(Math.floor(date.getUTCFullYear() / k) * k);
    date.setUTCMonth(0, 1);
    date.setUTCHours(0, 0, 0, 0);
  }, function(date, step) {
    date.setUTCFullYear(date.getUTCFullYear() + step * k);
  });
};

function localDate(d) {
  if (0 <= d.y && d.y < 100) {
    var date = new Date(-1, d.m, d.d, d.H, d.M, d.S, d.L);
    date.setFullYear(d.y);
    return date;
  }
  return new Date(d.y, d.m, d.d, d.H, d.M, d.S, d.L);
}

function utcDate(d) {
  if (0 <= d.y && d.y < 100) {
    var date = new Date(Date.UTC(-1, d.m, d.d, d.H, d.M, d.S, d.L));
    date.setUTCFullYear(d.y);
    return date;
  }
  return new Date(Date.UTC(d.y, d.m, d.d, d.H, d.M, d.S, d.L));
}

function newYear(y) {
  return {y: y, m: 0, d: 1, H: 0, M: 0, S: 0, L: 0};
}

function formatLocale$1(locale) {
  var locale_dateTime = locale.dateTime,
      locale_date = locale.date,
      locale_time = locale.time,
      locale_periods = locale.periods,
      locale_weekdays = locale.days,
      locale_shortWeekdays = locale.shortDays,
      locale_months = locale.months,
      locale_shortMonths = locale.shortMonths;

  var periodRe = formatRe(locale_periods),
      periodLookup = formatLookup(locale_periods),
      weekdayRe = formatRe(locale_weekdays),
```

```
    weekdayLookup = formatLookup(locale_weekdays),
    shortWeekdayRe = formatRe(locale_shortWeekdays),
    shortWeekdayLookup = formatLookup(locale_shortWeekdays),
    monthRe = formatRe(locale_months),
    monthLookup = formatLookup(locale_months),
    shortMonthRe = formatRe(locale_shortMonths),
    shortMonthLookup = formatLookup(locale_shortMonths);

  var formats = {
    "a": formatShortWeekday,
    "A": formatWeekday,
    "b": formatShortMonth,
    "B": formatMonth,
    "c": null,
    "d": formatDayOfMonth,
    "e": formatDayOfMonth,
    "f": formatMicroseconds,
    "H": formatHour24,
    "I": formatHour12,
    "j": formatDayOfYear,
    "L": formatMilliseconds,
    "m": formatMonthNumber,
    "M": formatMinutes,
    "p": formatPeriod,
    "Q": formatUnixTimestamp,
    "s": formatUnixTimestampSeconds,
    "S": formatSeconds,
    "u": formatWeekdayNumberMonday,
    "U": formatWeekNumberSunday,
    "V": formatWeekNumberISO,
    "w": formatWeekdayNumberSunday,
    "W": formatWeekNumberMonday,
    "x": null,
    "X": null,
    "y": formatYear,
    "Y": formatFullYear,
    "Z": formatZone,
    "%": formatLiteralPercent
  };

  var utcFormats = {
    "a": formatUTCShortWeekday,
    "A": formatUTCWeekday,
    "b": formatUTCShortMonth,
    "B": formatUTCMonth,
    "c": null,
```

```
  "d": formatUTCDayOfMonth,
  "e": formatUTCDayOfMonth,
  "f": formatUTCMicroseconds,
  "H": formatUTCHour24,
  "I": formatUTCHour12,
  "j": formatUTCDayOfYear,
  "L": formatUTCMilliseconds,
  "m": formatUTCMonthNumber,
  "M": formatUTCMinutes,
  "p": formatUTCPeriod,
  "Q": formatUnixTimestamp,
  "s": formatUnixTimestampSeconds,
  "S": formatUTCSeconds,
  "u": formatUTCWeekdayNumberMonday,
  "U": formatUTCWeekNumberSunday,
  "V": formatUTCWeekNumberISO,
  "w": formatUTCWeekdayNumberSunday,
  "W": formatUTCWeekNumberMonday,
  "x": null,
  "X": null,
  "y": formatUTCYear,
  "Y": formatUTCFullYear,
  "Z": formatUTCZone,
  "%": formatLiteralPercent
};

var parses = {
  "a": parseShortWeekday,
  "A": parseWeekday,
  "b": parseShortMonth,
  "B": parseMonth,
  "c": parseLocaleDateTime,
  "d": parseDayOfMonth,
  "e": parseDayOfMonth,
  "f": parseMicroseconds,
  "H": parseHour24,
  "I": parseHour24,
  "j": parseDayOfYear,
  "L": parseMilliseconds,
  "m": parseMonthNumber,
  "M": parseMinutes,
  "p": parsePeriod,
  "Q": parseUnixTimestamp,
  "s": parseUnixTimestampSeconds,
  "S": parseSeconds,
  "u": parseWeekdayNumberMonday,
```

```
  "U": parseWeekNumberSunday,
  "V": parseWeekNumberISO,
  "w": parseWeekdayNumberSunday,
  "W": parseWeekNumberMonday,
  "x": parseLocaleDate,
  "X": parseLocaleTime,
  "y": parseYear,
  "Y": parseFullYear,
  "Z": parseZone,
  "%": parseLiteralPercent
};

// These recursive directive definitions must be deferred.
formats.x = newFormat(locale_date, formats);
formats.X = newFormat(locale_time, formats);
formats.c = newFormat(locale_dateTime, formats);
utcFormats.x = newFormat(locale_date, utcFormats);
utcFormats.X = newFormat(locale_time, utcFormats);
utcFormats.c = newFormat(locale_dateTime, utcFormats);

function newFormat(specifier, formats) {
  return function(date) {
    var string = [],
        i = -1,
        j = 0,
        n = specifier.length,
        c,
        pad,
        format;

    if (!(date instanceof Date)) { date = new Date(+date); }

    while (++i < n) {
      if (specifier.charCodeAt(i) === 37) {
        string.push(specifier.slice(j, i));
        if ((pad = pads[c = specifier.charAt(++i)]) != null) { c = specifier.charAt(++i); }
        else { pad = c === "e" ? " " : "0"; }
        if (format = formats[c]) { c = format(date, pad); }
        string.push(c);
        j = i + 1;
      }
    }

    string.push(specifier.slice(j, i));
    return string.join("");
  };
```

```
}

function newParse(specifier, newDate) {
 return function(string) {
  var d = newYear(1900),
      i = parseSpecifier(d, specifier, string += "", 0),
      week, day$$1;
  if (i != string.length) { return null; }

  // If a UNIX timestamp is specified, return it.
  if ("Q" in d) { return new Date(d.Q); }

  // The am-pm flag is 0 for AM, and 1 for PM.
  if ("p" in d) { d.H = d.H % 12 + d.p * 12; }

  // Convert day-of-week and week-of-year to day-of-year.
  if ("V" in d) {
   if (d.V < 1 || d.V > 53) { return null; }
   if (!("w" in d)) { d.w = 1; }
   if ("Z" in d) {
    week = utcDate(newYear(d.y)), day$$1 = week.getUTCDay();
    week = day$$1 > 4 || day$$1 === 0 ? utcMonday.ceil(week) : utcMonday(week);
    week = utcDay.offset(week, (d.V - 1) * 7);
    d.y = week.getUTCFullYear();
    d.m = week.getUTCMonth();
    d.d = week.getUTCDate() + (d.w + 6) % 7;
   } else {
    week = newDate(newYear(d.y)), day$$1 = week.getDay();
    week = day$$1 > 4 || day$$1 === 0 ? monday.ceil(week) : monday(week);
    week = day.offset(week, (d.V - 1) * 7);
    d.y = week.getFullYear();
    d.m = week.getMonth();
    d.d = week.getDate() + (d.w + 6) % 7;
   }
  } else if ("W" in d || "U" in d) {
   if (!("w" in d)) { d.w = "u" in d ? d.u % 7 : "W" in d ? 1 : 0; }
   day$$1 = "Z" in d ? utcDate(newYear(d.y)).getUTCDay() :
      newDate(newYear(d.y)).getDay();
   d.m = 0;
   d.d = "W" in d ? (d.w + 6) % 7 + d.W * 7 - (day$$1 + 5) % 7 : d.w + d.U * 7 - (day$$1 +
      6) % 7;
  }

  // If a time zone is specified, all fields are interpreted as UTC and then
  // offset according to the specified time zone.
  if ("Z" in d) {
```

```
    d.H += d.Z / 100 | 0;
    d.M += d.Z % 100;
    return utcDate(d);
   }

   // Otherwise, all fields are in local time.
   return newDate(d);
  };
}

function parseSpecifier(d, specifier, string, j) {
  var i = 0,
      n = specifier.length,
      m = string.length,
      c,
      parse;

  while (i < n) {
    if (j >= m) { return -1; }
    c = specifier.charCodeAt(i++);
    if (c === 37) {
      c = specifier.charAt(i++);
      parse = parses[c in pads ? specifier.charAt(i++) : c];
      if (!parse || ((j = parse(d, string, j)) < 0)) { return -1; }
    } else if (c != string.charCodeAt(j++)) {
      return -1;
    }
  }

  return j;
}

function parsePeriod(d, string, i) {
  var n = periodRe.exec(string.slice(i));
  return n ? (d.p = periodLookup[n[0].toLowerCase()], i + n[0].length) : -1;
}

function parseShortWeekday(d, string, i) {
  var n = shortWeekdayRe.exec(string.slice(i));
  return n ? (d.w = shortWeekdayLookup[n[0].toLowerCase()], i + n[0].length) : -1;
}

function parseWeekday(d, string, i) {
  var n = weekdayRe.exec(string.slice(i));
  return n ? (d.w = weekdayLookup[n[0].toLowerCase()], i + n[0].length) : -1;
}
```

```
function parseShortMonth(d, string, i) {
  var n = shortMonthRe.exec(string.slice(i));
  return n ? (d.m = shortMonthLookup[n[0].toLowerCase()], i + n[0].length) : -1;
}

function parseMonth(d, string, i) {
  var n = monthRe.exec(string.slice(i));
  return n ? (d.m = monthLookup[n[0].toLowerCase()], i + n[0].length) : -1;
}

function parseLocaleDateTime(d, string, i) {
  return parseSpecifier(d, locale_dateTime, string, i);
}

function parseLocaleDate(d, string, i) {
  return parseSpecifier(d, locale_date, string, i);
}

function parseLocaleTime(d, string, i) {
  return parseSpecifier(d, locale_time, string, i);
}

function formatShortWeekday(d) {
  return locale_shortWeekdays[d.getDay()];
}

function formatWeekday(d) {
  return locale_weekdays[d.getDay()];
}

function formatShortMonth(d) {
  return locale_shortMonths[d.getMonth()];
}

function formatMonth(d) {
  return locale_months[d.getMonth()];
}

function formatPeriod(d) {
  return locale_periods[+(d.getHours() >= 12)];
}

function formatUTCShortWeekday(d) {
  return locale_shortWeekdays[d.getUTCDay()];
}
```

```
  function formatUTCWeekday(d) {
    return locale_weekdays[d.getUTCDay()];
  }

  function formatUTCShortMonth(d) {
    return locale_shortMonths[d.getUTCMonth()];
  }

  function formatUTCMonth(d) {
    return locale_months[d.getUTCMonth()];
  }

  function formatUTCPeriod(d) {
    return locale_periods[+(d.getUTCHours() >= 12)];
  }

  return {
    format: function(specifier) {
      var f = newFormat(specifier += "", formats);
      f.toString = function() { return specifier; };
      return f;
    },
    parse: function(specifier) {
      var p = newParse(specifier += "", localDate);
      p.toString = function() { return specifier; };
      return p;
    },
    utcFormat: function(specifier) {
      var f = newFormat(specifier += "", utcFormats);
      f.toString = function() { return specifier; };
      return f;
    },
    utcParse: function(specifier) {
      var p = newParse(specifier, utcDate);
      p.toString = function() { return specifier; };
      return p;
    }
  };
}

var pads = {"-": "", "_": " ", "0": "0"},
    numberRe = /^\s*\d+/, // note: ignores next directive
    percentRe = /^%/,
    requoteRe = /[\\^$*+?|[\]().{}]/g;
```

```
function pad(value, fill, width) {
  var sign = value < 0 ? "-" : "",
      string = (sign ? -value : value) + "",
      length = string.length;
  return sign + (length < width ? new Array(width - length + 1).join(fill) + string : string);
}

function requote(s) {
  return s.replace(requoteRe, "\\$&");
}

function formatRe(names) {
  return new RegExp("^(?:" + names.map(requote).join("|") + ")", "i");
}

function formatLookup(names) {
  var map = {}, i = -1, n = names.length;
  while (++i < n) { map[names[i].toLowerCase()] = i; }
  return map;
}

function parseWeekdayNumberSunday(d, string, i) {
  var n = numberRe.exec(string.slice(i, i + 1));
  return n ? (d.w = +n[0], i + n[0].length) : -1;
}

function parseWeekdayNumberMonday(d, string, i) {
  var n = numberRe.exec(string.slice(i, i + 1));
  return n ? (d.u = +n[0], i + n[0].length) : -1;
}

function parseWeekNumberSunday(d, string, i) {
  var n = numberRe.exec(string.slice(i, i + 2));
  return n ? (d.U = +n[0], i + n[0].length) : -1;
}

function parseWeekNumberISO(d, string, i) {
  var n = numberRe.exec(string.slice(i, i + 2));
  return n ? (d.V = +n[0], i + n[0].length) : -1;
}

function parseWeekNumberMonday(d, string, i) {
  var n = numberRe.exec(string.slice(i, i + 2));
  return n ? (d.W = +n[0], i + n[0].length) : -1;
}
```

```
function parseFullYear(d, string, i) {
  var n = numberRe.exec(string.slice(i, i + 4));
  return n ? (d.y = +n[0], i + n[0].length) : -1;
}

function parseYear(d, string, i) {
  var n = numberRe.exec(string.slice(i, i + 2));
  return n ? (d.y = +n[0] + (+n[0] > 68 ? 1900 : 2000), i + n[0].length) : -1;
}

function parseZone(d, string, i) {
  var n = /^(Z)|([+-]\d\d)(?::?(\d\d))?/.exec(string.slice(i, i + 6));
  return n ? (d.Z = n[1] ? 0 : -(n[2] + (n[3] || "00")), i + n[0].length) : -1;
}

function parseMonthNumber(d, string, i) {
  var n = numberRe.exec(string.slice(i, i + 2));
  return n ? (d.m = n[0] - 1, i + n[0].length) : -1;
}

function parseDayOfMonth(d, string, i) {
  var n = numberRe.exec(string.slice(i, i + 2));
  return n ? (d.d = +n[0], i + n[0].length) : -1;
}

function parseDayOfYear(d, string, i) {
  var n = numberRe.exec(string.slice(i, i + 3));
  return n ? (d.m = 0, d.d = +n[0], i + n[0].length) : -1;
}

function parseHour24(d, string, i) {
  var n = numberRe.exec(string.slice(i, i + 2));
  return n ? (d.H = +n[0], i + n[0].length) : -1;
}

function parseMinutes(d, string, i) {
  var n = numberRe.exec(string.slice(i, i + 2));
  return n ? (d.M = +n[0], i + n[0].length) : -1;
}

function parseSeconds(d, string, i) {
  var n = numberRe.exec(string.slice(i, i + 2));
  return n ? (d.S = +n[0], i + n[0].length) : -1;
}

function parseMilliseconds(d, string, i) {
```

```
  var n = numberRe.exec(string.slice(i, i + 3));
  return n ? (d.L = +n[0], i + n[0].length) : -1;
}

function parseMicroseconds(d, string, i) {
  var n = numberRe.exec(string.slice(i, i + 6));
  return n ? (d.L = Math.floor(n[0] / 1000), i + n[0].length) : -1;
}

function parseLiteralPercent(d, string, i) {
  var n = percentRe.exec(string.slice(i, i + 1));
  return n ? i + n[0].length : -1;
}

function parseUnixTimestamp(d, string, i) {
  var n = numberRe.exec(string.slice(i));
  return n ? (d.Q = +n[0], i + n[0].length) : -1;
}

function parseUnixTimestampSeconds(d, string, i) {
  var n = numberRe.exec(string.slice(i));
  return n ? (d.Q = (+n[0]) * 1000, i + n[0].length) : -1;
}

function formatDayOfMonth(d, p) {
  return pad(d.getDate(), p, 2);
}

function formatHour24(d, p) {
  return pad(d.getHours(), p, 2);
}

function formatHour12(d, p) {
  return pad(d.getHours() % 12 || 12, p, 2);
}

function formatDayOfYear(d, p) {
  return pad(1 + day.count(year(d), d), p, 3);
}

function formatMilliseconds(d, p) {
  return pad(d.getMilliseconds(), p, 3);
}

function formatMicroseconds(d, p) {
  return formatMilliseconds(d, p) + "000";
```

```
}

function formatMonthNumber(d, p) {
  return pad(d.getMonth() + 1, p, 2);
}

function formatMinutes(d, p) {
  return pad(d.getMinutes(), p, 2);
}

function formatSeconds(d, p) {
  return pad(d.getSeconds(), p, 2);
}

function formatWeekdayNumberMonday(d) {
  var day$$1 = d.getDay();
  return day$$1 === 0 ? 7 : day$$1;
}

function formatWeekNumberSunday(d, p) {
  return pad(sunday.count(year(d), d), p, 2);
}

function formatWeekNumberISO(d, p) {
  var day$$1 = d.getDay();
  d = (day$$1 >= 4 || day$$1 === 0) ? thursday(d) : thursday.ceil(d);
  return pad(thursday.count(year(d), d) + (year(d).getDay() === 4), p, 2);
}

function formatWeekdayNumberSunday(d) {
  return d.getDay();
}

function formatWeekNumberMonday(d, p) {
  return pad(monday.count(year(d), d), p, 2);
}

function formatYear(d, p) {
  return pad(d.getFullYear() % 100, p, 2);
}

function formatFullYear(d, p) {
  return pad(d.getFullYear() % 10000, p, 4);
}

function formatZone(d) {
```

```
  var z = d.getTimezoneOffset();
  return (z > 0 ? "-" : (z *= -1, "+"))
      + pad(z / 60 | 0, "0", 2)
      + pad(z % 60, "0", 2);
}

function formatUTCDayOfMonth(d, p) {
  return pad(d.getUTCDate(), p, 2);
}

function formatUTCHour24(d, p) {
  return pad(d.getUTCHours(), p, 2);
}

function formatUTCHour12(d, p) {
  return pad(d.getUTCHours() % 12 || 12, p, 2);
}

function formatUTCDayOfYear(d, p) {
  return pad(1 + utcDay.count(utcYear(d), d), p, 3);
}

function formatUTCMilliseconds(d, p) {
  return pad(d.getUTCMilliseconds(), p, 3);
}

function formatUTCMicroseconds(d, p) {
  return formatUTCMilliseconds(d, p) + "000";
}

function formatUTCMonthNumber(d, p) {
  return pad(d.getUTCMonth() + 1, p, 2);
}

function formatUTCMinutes(d, p) {
  return pad(d.getUTCMinutes(), p, 2);
}

function formatUTCSeconds(d, p) {
  return pad(d.getUTCSeconds(), p, 2);
}

function formatUTCWeekdayNumberMonday(d) {
  var dow = d.getUTCDay();
  return dow === 0 ? 7 : dow;
}
```

```
function formatUTCWeekNumberSunday(d, p) {
  return pad(utcSunday.count(utcYear(d), d), p, 2);
}

function formatUTCWeekNumberISO(d, p) {
  var day$$1 = d.getUTCDay();
  d = (day$$1 >= 4 || day$$1 === 0) ? utcThursday(d) : utcThursday.ceil(d);
  return pad(utcThursday.count(utcYear(d), d) + (utcYear(d).getUTCDay() === 4), p, 2);
}

function formatUTCWeekdayNumberSunday(d) {
  return d.getUTCDay();
}

function formatUTCWeekNumberMonday(d, p) {
  return pad(utcMonday.count(utcYear(d), d), p, 2);
}

function formatUTCYear(d, p) {
  return pad(d.getUTCFullYear() % 100, p, 2);
}

function formatUTCFullYear(d, p) {
  return pad(d.getUTCFullYear() % 10000, p, 4);
}

function formatUTCZone() {
  return "+0000";
}

function formatLiteralPercent() {
  return "%";
}

function formatUnixTimestamp(d) {
  return +d;
}

function formatUnixTimestampSeconds(d) {
  return Math.floor(+d / 1000);
}

var locale$1;
var timeFormat;
var timeParse;
```

```
var utcFormat;
var utcParse;

defaultLocale$1({
  dateTime: "%x, %X",
  date: "%-m/%-d/%Y",
  time: "%-I:%M:%S %p",
  periods: ["AM", "PM"],
  days: ["Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"],
  shortDays: ["Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"],
  months: ["January", "February", "March", "April", "May", "June", "July", "August",
        "September", "October", "November", "December"],
  shortMonths: ["Jan", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov",
        "Dec"]
});

function defaultLocale$1(definition) {
  locale$1 = formatLocale$1(definition);
  timeFormat = locale$1.format;
  timeParse = locale$1.parse;
  utcFormat = locale$1.utcFormat;
  utcParse = locale$1.utcParse;
  return locale$1;
}

var isoSpecifier = "%Y-%m-%dT%H:%M:%S.%LZ";

function formatIsoNative(date) {
  return date.toISOString();
}

var formatIso = Date.prototype.toISOString
    ? formatIsoNative
    : utcFormat(isoSpecifier);

function parseIsoNative(string) {
  var date = new Date(string);
  return isNaN(date) ? null : date;
}

var parseIso = +new Date("2000-01-01T00:00:00.000Z")
    ? parseIsoNative
    : utcParse(isoSpecifier);

function colors(s) {
  return s.match(/.{6}/g).map(function(x) {
```

```
    return "#" + x;
  });
}

colors("1f77b4ff7f0e2ca02cd627289467bd8c564be377c27f7f7fbcbd2217becf");

colors("393b795254a36b6ecf9c9ede6379398ca252b5cf6bcedb9c8c6d31bd9e39e7ba52e7cb9484
        3c39ad494ad6616be7969c7b4173a55194ce6dbdde9ed6");

colors("3182bd6baed69ecae1c6dbefe6550dfd8d3cfdae6bfdd0a231a35474c476a1d99bc7e9c0756
        bb19e9ac8bcbddcdadaeb636363969696bdbdbdd9d9d9");

colors("1f77b4aec7e8ff7f0effbb782ca02c98df8ad62728ff98969467bdc5b0d58c564bc49c94e377
        c2f7b6d27f7f7fc7c7c7bcbd22dbdb8d17becf9edae5");

cubehelixLong(cubehelix(300, 0.5, 0.0), cubehelix(-240, 0.5, 1.0));

var warm = cubehelixLong(cubehelix(-100, 0.75, 0.35), cubehelix(80, 1.50, 0.8));

var cool = cubehelixLong(cubehelix(260, 0.75, 0.35), cubehelix(80, 1.50, 0.8));

var rainbow = cubehelix();

function ramp(range) {
  var n = range.length;
  return function(t) {
    return range[Math.max(0, Math.min(n - 1, Math.floor(t * n)))];
  };
}

ramp(colors("4401544402564504574505594607 5a46085c460a5d460b5e470d60470e614710634
        7116447136548146748166848176948186a481a6c481b6d481c6e481d6f481f7048207148
        2173482374482475482576482677482878482979472a7a472c7a472d7b472e7c472f7d463
        07e46327e46337f463480453581453781453882443983443a83443b84433d84433e85423f
        8542408642418641428741448740458840468 83f47883f48893e49893e4a893e4c8a3d4d8
        a3d4e8a3c4f8a3c508b3b518b3b528b3a538b3a548c39558c39568c38588c38598c375a8c3
        75b8d365c8d365d8d355e8d355f8d34608d34618d33628d33638d32648e32658e31668e3
        1678e31688e30698e306a8e2f6b8e2f6c8e2e6d8e2e6e8e2e6f8e2d708e2d718e2c718e2c72
        8e2c738e2b748e2b758e2a768e2a778e2a788e29798e297a8e297b8e287c8e287d8e277e8e
        277f8e27808e26818e26828e26828e25838e25848e25858e24868e24878e23888e23898e2
        38a8d228b8d228c8d228d8d218e8d218f8d21908d21918c20928c20928c20938c1f948c1f
        958b1f968b1f978b1f988b1f998a1f9a8a1e9b8a1e9c891e9d891f9e891f9f881fa0881fa188
        1fa1871fa28720a38620a48621a58521a68522a78522a88423a98324aa8325ab8225ac8226
        ad8127ad8128ae8029af7f2ab07f2cb17e2db27d2eb37c2fb47c31b57b32b67a34b67935b7
        7937b87838b9773aba763bbb753dbc743fbc7340bd7242be7144bf7046c06f48c16e4ac16d
        4cc26c4ec36b50c46a52c56954c56856c66758c7655ac8645cc8635ec96260ca6063cb5f65
```

```
        cb5e67cc5c69cd5b6ccd5a6ece5870cf5773d05675d05477d1537ad1517cd2507fd34e81d3
        4d84d44b86d54989d5488bd6468ed64590d74393d74195d84098d83e9bd93c9dd93ba0da
        39a2da37a5db36a8db34aadc32addc30b0dd2fb2dd2db5de2bb8de29bade28bddf26c0df25
        c2df23c5e021c8e020cae11fcde11dd0e11cd2e21bd5e21ad8e219dae319dde318dfe318e2e
        418e5e419e7e419eae51aece51befe51cf1e51df4e61ef6e620f8e621fbe723fde725"));

var magma =
        ramp(colors("0000040100050101060101080201090202 0b02020d03030f0303120404140
        5041606051806051a07061c08071e0907200a08220b09240c09260d0a290e0b2b100b2d1
        10c2f120d31130d34140e36150e38160f3b180f3d19103f1a10421c10441d11471e1149201
        14b21114e2211502412532512552712582911 5a2a115c2c115f2d11612f11633111653310
        6734106936106b38106c390f6e3b0f703d0f713f0f72400f74420f75440f76451077471078
        4910784a10794c117a4e117b4f127b51127c52137c54137d56147d57157e59157e5a167e5
        c167f5d177f5f187f60188062198064 1a80651a80671b80681c816a1c816b1d816d1d816e1
        e81701f81721f817320817521817621817822817922827b23827c23827e24828025828125
        818326818426818627818827818928818b29818c29818e2a81902a81912b81932b80942c
        80962c80982d80992d809b2e7f9c2e7f9e2f7fa02f7fa1307ea3307ea5317ea6317da8327da
        a337dab337cad347cae347bb0357bb2357bb3367ab5367ab73779b83779ba3878bc3978bd
        3977bf3a77c03a76c23b75c43c75c53c74c73d73c83e73ca3e72cc3f71cd4071cf4070d0416
        fd2426fd3436ed5446dd6456cd8456cd9466bdb476adc4869de4968df4a68e04c67e24d66e
        34e65e44f64e55064e75263e85362e95462ea5661eb5760ec5860ed5a5fee5b5eef5d5ef05f
        5ef1605df2625df2645cf3655cf4675cf4695cf56b5cf66c5cf66e5cf7705cf7725cf8745cf87
        65cf9785df9795df97b5dfa7d5efa7f5efa815ffb835ffb8560fb8761fc8961fc8a62fc8c63fc8
        e64fc9065fd9266fd9467fd9668fd9869fd9a6afd9b6bfe9d6cfe9f6dfea16efea36ffea571fea
        772fea973feaa74feac76feae77feb078feb27afeb47bfeb67cfeb77efeb97ffebb81febd82febf
        84fec185fec287fec488fec68afec88cfeca8dfecc8ffecd90fecf92fed194fed395fed597fed799
        fed89afdda9cfddc9efddea0fde0a1fde2a3fde3a5fde5a7fde7a9fde9aafdebacfcecaefceeb0fc
        f0b2fcf2b4fcf4b6fcf6b8fcf7b9fcf9bbfcfbbdfcfdbf"));

var inferno =
        ramp(colors("0000040100050101060101080201 0a02020c02020e0302100403120403140
        5041706041907051b08051d09061f0a07220b07240c08260d08290e092b10092d110a301
        20a32140b34150b37160b39180c3c190c3e1b0c411c0c431e0c451f0c48210c4a230c4c240
        c4f260c51280b53290b552b0b572d0b592f0a5b310a5c320a5e340a5f3609613809623909
        633b09643d09653e0966400a67420a68440a68450a69470b6a490b6a4a0c6b4c0c6b4d0d6
        c4f0d6c510e6c520e6d540f6d550f6d57106e59106e5a116e5c126e5d126e5f136e61136e6
        2146e64156e65156e67166e69166e6a176e6c186e6d186e6f196e71196e721a6e741a6e751
        b6e771c6d781c6d7a1d6d7c1d6d7d1e6d7f1e6c801f6c82206c84206b85216b87216b8822
        6a8a226a8c23698d23698f24699025689225689326679526679727669827669a28659b29
        649d29649f2a63a02a63a22b62a32c61a52c60a62d60a82e5fa92e5eab2f5ead305dae305cb
        0315bb1325ab3325ab43359b63458b73557b93556ba3655bc3754bd3853bf3952c03a51c1
        3a50c33b4fc43c4ec63d4dc73e4cc83f4bca404acb4149cc4248ce4347cf4446d04545d2464
        4d34743d44842d54a41d74b3fd84c3ed94d3dda4e3cdb503bdd513ade5238df5337e05536
        e15635e25734e35933e45a31e55c30e65d2fe75e2ee8602de9612bea632aeb6429eb6628ec
        6726ed6925ee6a24ef6c23ef6e21f06f20f1711ff1731df2741cf3761bf37819f47918f57b17f
        57d15f67e14f68013f78212f78410f8850ff8870ef8890cf98b0bf98c0af98e09fa9008fa9207
```

```
        fa9407fb9606fb9706fb9906fb9b06fb9d07fc9f07fca108fca309fca50afca60cfca80dfcaa0ff
        cac11fcae12fcb014fcb216fcb418fbb61afbb81dfbba1ffbbc21fbbe23fac026fac228fac42afa
        c62df9c72ff9c932f9cb35f8cd37f8cf3af7d13df7d340f6d543f6d746f5d949f5db4cf4dd4ff4
        df53f4e156f3e35af3e55df2e661f2e865f2ea69f1ec6df1ed71f1ef75f1f179f2f27df2f482f3f
        586f3f68af4f88ef5f992f6fa96f8fb9af9fc9dfafda1fcffa4"));

var plasma =
        ramp(colors("0d088710078813078916078a19068c1b068d1d068e20068f2206902406912
        605912805922a05932c05942e05952f059631059733059735049837049938049a3a049a3c
        049b3e049c3f049c41049d43039e44039e46039f48039f4903a04b03a14c02a14e02a25002
        a25102a35302a35502a45601a45801a45901a55b01a55c01a65e01a66001a66100a76300a
        76400a76600a76700a86900a86a00a86c00a86e00a86f00a87100a87201a87401a87501a87
        701a87801a87a02a87b02a87d03a87e03a88004a88104a78305a78405a78606a68707a688
        08a68a09a58b0aa58d0ba58e0ca48f0da4910ea3920fa39410a29511a19613a19814a09915
        9f9a169f9c179e9d189d9e199da01a9ca11b9ba21d9aa31e9aa51f99a62098a72197a82296a
        a2395ab2494ac2694ad2793ae2892b02991b12a90b22b8fb32c8eb42e8db52f8cb6308bb73
        18ab83289ba3388bb3488bc3587bd3786be3885bf3984c03a83c13b82c23c81c33d80c43e
        7fc5407ec6417dc7427cc8437bc9447aca457acb4679cc4778cc4977cd4a76ce4b75cf4c74d
        04d73d14e72d24f71d35171d45270d5536fd5546ed6556dd7566cd8576bd9586ada5a6ada
        5b69db5c68dc5d67dd5e66de5f65de6164df6263e06363e16462e26561e26660e3685fe469
        5ee56a5de56b5de66c5ce76e5be76f5ae87059e97158e97257ea7457eb7556eb7655ec7754
        ed7953ed7a52ee7b51ef7c51ef7e50f07f4ff0804ef1814df1834cf2844bf3854bf3874af4884
        9f48948f58b47f58c46f68d45f68f44f79044f79143f79342f89441f89540f9973ff9983ef99a
        3efa9b3dfa9c3cfa9e3bfb9f3afba139fba238fca338fca537fca636fca835fca934fdab33fdac3
        3fdae32fdaf31fdb130fdb22ffdb42ffdb52efeb72dfeb82cfeba2cfebb2bfebd2afebe2afec029
        fdc229fdc328fdc527fdc627fdc827fdca26fdcb26fccd25fcce25fcd025fcd225fbd324fbd524
        fbd724fad824fada24f9dc24f9dd25f8df25f8e125f7e225f7e425f6e626f6e826f5e926f5eb27
        f4ed27f3ee27f3f027f2f227f1f426f1f525f0f724f0f921"));

function constant$10(x) {
  return function constant() {
    return x;
  };
}

var abs$1 = Math.abs;
var atan2$1 = Math.atan2;
var cos$2 = Math.cos;
var max$2 = Math.max;
var min$1 = Math.min;
var sin$2 = Math.sin;
var sqrt$2 = Math.sqrt;

var epsilon$3 = 1e-12;
var pi$4 = Math.PI;
var halfPi$3 = pi$4 / 2;
```

```
var tau$4 = 2 * pi$4;

function acos$1(x) {
  return x > 1 ? 0 : x < -1 ? pi$4 : Math.acos(x);
}

function asin$1(x) {
  return x >= 1 ? halfPi$3 : x <= -1 ? -halfPi$3 : Math.asin(x);
}

function arcInnerRadius(d) {
  return d.innerRadius;
}

function arcOuterRadius(d) {
  return d.outerRadius;
}

function arcStartAngle(d) {
  return d.startAngle;
}

function arcEndAngle(d) {
  return d.endAngle;
}

function arcPadAngle(d) {
  return d && d.padAngle; // Note: optional!
}

function intersect(x0, y0, x1, y1, x2, y2, x3, y3) {
  var x10 = x1 - x0, y10 = y1 - y0,
      x32 = x3 - x2, y32 = y3 - y2,
      t = (x32 * (y0 - y2) - y32 * (x0 - x2)) / (y32 * x10 - x32 * y10);
  return [x0 + t * x10, y0 + t * y10];
}

// Compute perpendicular offset line of length rc.
// http://mathworld.wolfram.com/Circle-LineIntersection.html
function cornerTangents(x0, y0, x1, y1, r1, rc, cw) {
  var x01 = x0 - x1,
      y01 = y0 - y1,
      lo = (cw ? rc : -rc) / sqrt$2(x01 * x01 + y01 * y01),
      ox = lo * y01,
      oy = -lo * x01,
      x11 = x0 + ox,
```

```
      y11 = y0 + oy,
      x10 = x1 + ox,
      y10 = y1 + oy,
      x00 = (x11 + x10) / 2,
      y00 = (y11 + y10) / 2,
      dx = x10 - x11,
      dy = y10 - y11,
      d2 = dx * dx + dy * dy,
      r = r1 - rc,
      D = x11 * y10 - x10 * y11,
      d = (dy < 0 ? -1 : 1) * sqrt$2(max$2(0, r * r * d2 - D * D)),
      cx0 = (D * dy - dx * d) / d2,
      cy0 = (-D * dx - dy * d) / d2,
      cx1 = (D * dy + dx * d) / d2,
      cy1 = (-D * dx + dy * d) / d2,
      dx0 = cx0 - x00,
      dy0 = cy0 - y00,
      dx1 = cx1 - x00,
      dy1 = cy1 - y00;

  // Pick the closer of the two intersection points.
  // TODO Is there a faster way to determine which intersection to use?
  if (dx0 * dx0 + dy0 * dy0 > dx1 * dx1 + dy1 * dy1) { cx0 = cx1, cy0 = cy1; }

  return {
    cx: cx0,
    cy: cy0,
    x01: -ox,
    y01: -oy,
    x11: cx0 * (r1 / r - 1),
    y11: cy0 * (r1 / r - 1)
  };
}

function arc() {
  var innerRadius = arcInnerRadius,
      outerRadius = arcOuterRadius,
      cornerRadius = constant$10(0),
      padRadius = null,
      startAngle = arcStartAngle,
      endAngle = arcEndAngle,
      padAngle = arcPadAngle,
      context = null;

  function arc() {
    var buffer,
```

```
    r,
    r0 = +innerRadius.apply(this, arguments),
    r1 = +outerRadius.apply(this, arguments),
    a0 = startAngle.apply(this, arguments) - halfPi$3,
    a1 = endAngle.apply(this, arguments) - halfPi$3,
    da = abs$1(a1 - a0),
    cw = a1 > a0;

if (!context) { context = buffer = path(); }

// Ensure that the outer radius is always larger than the inner radius.
if (r1 < r0) { r = r1, r1 = r0, r0 = r; }

// Is it a point?
if (!(r1 > epsilon$3)) { context.moveTo(0, 0); }

// Or is it a circle or annulus?
else if (da > tau$4 - epsilon$3) {
  context.moveTo(r1 * cos$2(a0), r1 * sin$2(a0));
  context.arc(0, 0, r1, a0, a1, !cw);
  if (r0 > epsilon$3) {
    context.moveTo(r0 * cos$2(a1), r0 * sin$2(a1));
    context.arc(0, 0, r0, a1, a0, cw);
  }
}

// Or is it a circular or annular sector?
else {
  var a01 = a0,
      a11 = a1,
      a00 = a0,
      a10 = a1,
      da0 = da,
      da1 = da,
      ap = padAngle.apply(this, arguments) / 2,
      rp = (ap > epsilon$3) && (padRadius ? +padRadius.apply(this, arguments) : sqrt$2(r0 * r0
        + r1 * r1)),
      rc = min$1(abs$1(r1 - r0) / 2, +cornerRadius.apply(this, arguments)),
      rc0 = rc,
      rc1 = rc,
      t0,
      t1;

  // Apply padding? Note that since r1 ≥ r0, da1 ≥ da0.
  if (rp > epsilon$3) {
    var p0 = asin$1(rp / r0 * sin$2(ap)),
```

```
      p1 = asin$1(rp / r1 * sin$2(ap));
  if ((da0 -= p0 * 2) > epsilon$3) { p0 *= (cw ? 1 : -1), a00 += p0, a10 -= p0; }
  else { da0 = 0, a00 = a10 = (a0 + a1) / 2; }
  if ((da1 -= p1 * 2) > epsilon$3) { p1 *= (cw ? 1 : -1), a01 += p1, a11 -= p1; }
  else { da1 = 0, a01 = a11 = (a0 + a1) / 2; }
}

var x01 = r1 * cos$2(a01),
    y01 = r1 * sin$2(a01),
    x10 = r0 * cos$2(a10),
    y10 = r0 * sin$2(a10);

// Apply rounded corners?
if (rc > epsilon$3) {
  var x11 = r1 * cos$2(a11),
      y11 = r1 * sin$2(a11),
      x00 = r0 * cos$2(a00),
      y00 = r0 * sin$2(a00);

  // Restrict the corner radius according to the sector angle.
  if (da < pi$4) {
    var oc = da0 > epsilon$3 ? intersect(x01, y01, x00, y00, x11, y11, x10, y10) : [x10, y10],
        ax = x01 - oc[0],
        ay = y01 - oc[1],
        bx = x11 - oc[0],
        by = y11 - oc[1],
        kc = 1 / sin$2(acos$1((ax * bx + ay * by) / (sqrt$2(ax * ax + ay * ay) * sqrt$2(bx * bx +
     by * by))) / 2),
        lc = sqrt$2(oc[0] * oc[0] + oc[1] * oc[1]);
    rc0 = min$1(rc, (r0 - lc) / (kc - 1));
    rc1 = min$1(rc, (r1 - lc) / (kc + 1));
  }
}

// Is the sector collapsed to a line?
if (!(da1 > epsilon$3)) { context.moveTo(x01, y01); }

// Does the sector's outer ring have rounded corners?
else if (rc1 > epsilon$3) {
  t0 = cornerTangents(x00, y00, x01, y01, r1, rc1, cw);
  t1 = cornerTangents(x11, y11, x10, y10, r1, rc1, cw);

  context.moveTo(t0.cx + t0.x01, t0.cy + t0.y01);

  // Have the corners merged?
```

```
    if (rc1 < rc) { context.arc(t0.cx, t0.cy, rc1, atan2$1(t0.y01, t0.x01), atan2$1(t1.y01,
      t1.x01), !cw); }

    // Otherwise, draw the two corners and the ring.
    else {
      context.arc(t0.cx, t0.cy, rc1, atan2$1(t0.y01, t0.x01), atan2$1(t0.y11, t0.x11), !cw);
      context.arc(0, 0, r1, atan2$1(t0.cy + t0.y11, t0.cx + t0.x11), atan2$1(t1.cy + t1.y11, t1.cx +
        t1.x11), !cw);
      context.arc(t1.cx, t1.cy, rc1, atan2$1(t1.y11, t1.x11), atan2$1(t1.y01, t1.x01), !cw);
    }
  }

  // Or is the outer ring just a circular arc?
  else { context.moveTo(x01, y01), context.arc(0, 0, r1, a01, a11, !cw); }

  // Is there no inner ring, and it's a circular sector?
  // Or perhaps it's an annular sector collapsed due to padding?
  if (!(r0 > epsilon$3) || !(da0 > epsilon$3)) { context.lineTo(x10, y10); }

  // Does the sector's inner ring (or point) have rounded corners?
  else if (rc0 > epsilon$3) {
    t0 = cornerTangents(x10, y10, x11, y11, r0, -rc0, cw);
    t1 = cornerTangents(x01, y01, x00, y00, r0, -rc0, cw);

    context.lineTo(t0.cx + t0.x01, t0.cy + t0.y01);

    // Have the corners merged?
    if (rc0 < rc) { context.arc(t0.cx, t0.cy, rc0, atan2$1(t0.y01, t0.x01), atan2$1(t1.y01,
      t1.x01), !cw); }

    // Otherwise, draw the two corners and the ring.
    else {
      context.arc(t0.cx, t0.cy, rc0, atan2$1(t0.y01, t0.x01), atan2$1(t0.y11, t0.x11), !cw);
      context.arc(0, 0, r0, atan2$1(t0.cy + t0.y11, t0.cx + t0.x11), atan2$1(t1.cy + t1.y11, t1.cx +
        t1.x11), cw);
      context.arc(t1.cx, t1.cy, rc0, atan2$1(t1.y11, t1.x11), atan2$1(t1.y01, t1.x01), !cw);
    }
  }

  // Or is the inner ring just a circular arc?
  else { context.arc(0, 0, r0, a10, a00, cw); }
}

context.closePath();

if (buffer) { return context = null, buffer + "" || null; }
```

```
}

arc.centroid = function() {
  var r = (+innerRadius.apply(this, arguments) + +outerRadius.apply(this, arguments)) / 2,
      a = (+startAngle.apply(this, arguments) + +endAngle.apply(this, arguments)) / 2 - pi$4 / 2;
  return [cos$2(a) * r, sin$2(a) * r];
};

arc.innerRadius = function(_) {
  return arguments.length ? (innerRadius = typeof _ === "function" ? _ : constant$10(+_), arc) :
      innerRadius;
};

arc.outerRadius = function(_) {
  return arguments.length ? (outerRadius = typeof _ === "function" ? _ : constant$10(+_), arc) :
      outerRadius;
};

arc.cornerRadius = function(_) {
  return arguments.length ? (cornerRadius = typeof _ === "function" ? _ : constant$10(+_),
      arc) : cornerRadius;
};

arc.padRadius = function(_) {
  return arguments.length ? (padRadius = _ == null ? null : typeof _ === "function" ? _ :
      constant$10(+_), arc) : padRadius;
};

arc.startAngle = function(_) {
  return arguments.length ? (startAngle = typeof _ === "function" ? _ : constant$10(+_), arc) :
      startAngle;
};

arc.endAngle = function(_) {
  return arguments.length ? (endAngle = typeof _ === "function" ? _ : constant$10(+_), arc) :
      endAngle;
};

arc.padAngle = function(_) {
  return arguments.length ? (padAngle = typeof _ === "function" ? _ : constant$10(+_), arc) :
      padAngle;
};

arc.context = function(_) {
  return arguments.length ? (context = _ == null ? null : _, arc) : context;
};
```

```
  return arc;
}

function descending$1(a, b) {
  return b < a ? -1 : b > a ? 1 : b >= a ? 0 : NaN;
}

function identity$9(d) {
  return d;
}

function pie() {
  var value = identity$9,
      sortValues = descending$1,
      sort = null,
      startAngle = constant$10(0),
      endAngle = constant$10(tau$4),
      padAngle = constant$10(0);

  function pie(data) {
    var i,
        n = data.length,
        j,
        k,
        sum = 0,
        index = new Array(n),
        arcs = new Array(n),
        a0 = +startAngle.apply(this, arguments),
        da = Math.min(tau$4, Math.max(-tau$4, endAngle.apply(this, arguments) - a0)),
        a1,
        p = Math.min(Math.abs(da) / n, padAngle.apply(this, arguments)),
        pa = p * (da < 0 ? -1 : 1),
        v;

    for (i = 0; i < n; ++i) {
      if ((v = arcs[index[i] = i] = +value(data[i], i, data)) > 0) {
        sum += v;
      }
    }

    // Optionally sort the arcs by previously-computed values or by data.
    if (sortValues != null) { index.sort(function(i, j) { return sortValues(arcs[i], arcs[j]); }); }
    else if (sort != null) { index.sort(function(i, j) { return sort(data[i], data[j]); }); }

    // Compute the arcs! They are stored in the original data's order.
```

```
    for (i = 0, k = sum ? (da - n * pa) / sum : 0; i < n; ++i, a0 = a1) {
      j = index[i], v = arcs[j], a1 = a0 + (v > 0 ? v * k : 0) + pa, arcs[j] = {
        data: data[j],
        index: i,
        value: v,
        startAngle: a0,
        endAngle: a1,
        padAngle: p
      };
    }

    return arcs;
  }

  pie.value = function(_) {
    return arguments.length ? (value = typeof _ === "function" ? _ : constant$10(+_), pie) : value;
  };

  pie.sortValues = function(_) {
    return arguments.length ? (sortValues = _, sort = null, pie) : sortValues;
  };

  pie.sort = function(_) {
    return arguments.length ? (sort = _, sortValues = null, pie) : sort;
  };

  pie.startAngle = function(_) {
    return arguments.length ? (startAngle = typeof _ === "function" ? _ : constant$10(+_), pie) :
        startAngle;
  };

  pie.endAngle = function(_) {
    return arguments.length ? (endAngle = typeof _ === "function" ? _ : constant$10(+_), pie) :
        endAngle;
  };

  pie.padAngle = function(_) {
    return arguments.length ? (padAngle = typeof _ === "function" ? _ : constant$10(+_), pie) :
        padAngle;
  };

  return pie;
}

function sign$1(x) {
  return x < 0 ? -1 : 1;
```

```
}

// Calculate the slopes of the tangents (Hermite-type interpolation) based on
// the following paper: Steffen, M. 1990. A Simple Method for Monotonic
// Interpolation in One Dimension. Astronomy and Astrophysics, Vol. 239, NO.
// NOV(II), P. 443, 1990.
function slope3(that, x2, y2) {
  var h0 = that._x1 - that._x0,
      h1 = x2 - that._x1,
      s0 = (that._y1 - that._y0) / (h0 || h1 < 0 && -0),
      s1 = (y2 - that._y1) / (h1 || h0 < 0 && -0),
      p = (s0 * h1 + s1 * h0) / (h0 + h1);
  return (sign$1(s0) + sign$1(s1)) * Math.min(Math.abs(s0), Math.abs(s1), 0.5 * Math.abs(p)) ||
          0;
}

// Calculate a one-sided slope.
function slope2(that, t) {
  var h = that._x1 - that._x0;
  return h ? (3 * (that._y1 - that._y0) / h - t) / 2 : t;
}

// According to https://en.wikipedia.org/wiki/Cubic_Hermite_spline#Representations
// "you can express cubic Hermite interpolation in terms of cubic Bézier curves
// with respect to the four values p0, p0 + m0 / 3, p1 - m1 / 3, p1".
function point$5(that, t0, t1) {
  var x0 = that._x0,
      y0 = that._y0,
      x1 = that._x1,
      y1 = that._y1,
      dx = (x1 - x0) / 3;
  that._context.bezierCurveTo(x0 + dx, y0 + dx * t0, x1 - dx, y1 - dx * t1, x1, y1);
}

function MonotoneX(context) {
  this._context = context;
}

MonotoneX.prototype = {
  areaStart: function() {
    this._line = 0;
  },
  areaEnd: function() {
    this._line = NaN;
  },
  lineStart: function() {
```

```
    this._x0 = this._x1 =
    this._y0 = this._y1 =
    this._t0 = NaN;
    this._point = 0;
  },
  lineEnd: function() {
    switch (this._point) {
      case 2: this._context.lineTo(this._x1, this._y1); break;
      case 3: point$5(this, this._t0, slope2(this, this._t0)); break;
    }
    if (this._line || (this._line !== 0 && this._point === 1)) { this._context.closePath(); }
    this._line = 1 - this._line;
  },
  point: function(x, y) {
    var t1 = NaN;

    x = +x, y = +y;
    if (x === this._x1 && y === this._y1) { return; } // Ignore coincident points.
    switch (this._point) {
      case 0: this._point = 1; this._line ? this._context.lineTo(x, y) : this._context.moveTo(x, y);
          break;
      case 1: this._point = 2; break;
      case 2: this._point = 3; point$5(this, slope2(this, t1 = slope3(this, x, y)), t1); break;
      default: point$5(this, this._t0, t1 = slope3(this, x, y)); break;
    }

    this._x0 = this._x1, this._x1 = x;
    this._y0 = this._y1, this._y1 = y;
    this._t0 = t1;
  }
};

function MonotoneY(context) {
  this._context = new ReflectContext(context);
}

(MonotoneY.prototype = Object.create(MonotoneX.prototype)).point = function(x, y) {
  MonotoneX.prototype.point.call(this, y, x);
};

function ReflectContext(context) {
  this._context = context;
}

ReflectContext.prototype = {
  moveTo: function(x, y) { this._context.moveTo(y, x); },
```

```
  closePath: function() { this._context.closePath(); },
  lineTo: function(x, y) { this._context.lineTo(y, x); },
  bezierCurveTo: function(x1, y1, x2, y2, x, y) { this._context.bezierCurveTo(y1, x1, y2, x2, y,
        x); }
};

var Map$1 = {render: function(){var _vm=this;var _h=_vm.$createElement;var
        _c=_vm._self._c||_h;return _vm._m(0)},staticRenderFns: [function(){var _vm=this;var
        _h=_vm.$createElement;var _c=_vm._self._c||_h;return
        _c('div',[_c('div',{attrs:{"id":"leaflet"}})])}],_scopeId: 'data-v-3074bd5c',
  components: { MapPopup: MapPopup },
  data: function () { return ({
    moralityColors: {
      good: "#4169e1",
      bad: "#b22222",
      neutral: "#555555",
      genesis: "green"
    }
  }); },
  computed: {
    baseLayer: function baseLayer() { return this.$store.getters.baseLayer },
    overlayMap: function overlayMap() { return this.$store.getters.overlayMap },
    overlayMapOpacity: function overlayMapOpacity() { return
        this.$store.getters.overlayMapOpacity },
    showGenesis: function showGenesis() { return this.$store.getters.showGenesis },
    selectedPlace: function selectedPlace() { return this.$store.getters.selectedPlace },
    markerType: function markerType() { return this.$store.getters.markerType }
  },
  watch: {
    baseLayer: {
      immediate: true,
      handler: function handler(newBaseLayer) {
        if (!newBaseLayer || !this.map) { return }
        this.setBaseLayer(newBaseLayer.id);
      }
    },
    overlayMap: {
      immediate: true,
      handler: function handler(newOverlayMap) {
        if (!newOverlayMap || !this.map) { return }
        this.setOverlayMap(newOverlayMap);
      }
    },
    markerType: {
      handler: function handler(newType) {
        this.addMarkers(newType);
```

```
    }
  },
  overlayMapOpacity: {
    handler: function handler(newOpacity) {
      this.currentOverlayMap && this.currentOverlayMap.setOpacity(newOpacity);
    }
  },
  showGenesis: {
    handler: function handler(showGenesis) {
      this.toggleGenesisMarkers(showGenesis);
    }
  },
  selectedPlace: {
    handler: function handler(place) {
      if (place) {
        this.resetRelated();
        this.selectPlaceOnMap(place);
      } else {
        this.unselectMarker();
      }
    }
  }
},
created: function created() {
  var this$1 = this;


  this.resetRelated = function () {
    this.currentMarkers.eachLayer(function (marker) { return
        marker._icon.classList.remove("related", "unrelated"); });
  };

  this.unselectMarker = function () {
    this.map.closePopup();
    this.selectedMarker.unbindPopup();
    this.resetRelated();
    this.selectedMarker = null;
  };

  this.selectPlaceOnMap = function(place) {
    this.selectedMarker = this.currentMarkers.getLayers().find(function (layer) { return
        layer.options.title === place["Place"]; });
    // const markerLatLng = marker.getLatLng()
    // const [offsetLat, offsetLng] = marker.options.icon.options.popupAnchor
    // const popupLatLng = [markerLatLng.lat - offsetLat, markerLatLng.lat - offsetLng]
    // console.log(markerLatLng)
```

```
  // console.log(popupLatLng)
  // const popup = L.popup().setContent(this.makePopup(place))
  // marker
  // //popup.openOn(this.map)
  this.selectedMarker.bindPopup(this.makePopup(place));
  this.selectedMarker.openPopup();

  if (place["Related"]) {
    this.currentMarkers.eachLayer(function (marker) {
      if (marker.options.place["Related"] === place["Related"]) {
        marker._icon.classList.add("related");
      } else {
        marker._icon.classList.add("unrelated");
      }
    });
  }
};

this.setBaseLayer = function(id) {
  this.currentBaseLayer && this.map.removeLayer(this.currentBaseLayer);
  this.currentBaseLayer = leafletSrc.tileLayer.provider(id).addTo(this.map).bringToBack();
};

this.setOverlayMap = function(overlayMap) {
  this.currentOverlayMap && this.map.removeLayer(this.currentOverlayMap);
  this.currentOverlayMap = leafletSrc.tileLayer(overlayMap.url, {
    maxZoom: 19,
    //opacity: app.currentOverlayOpacity,
    className: 'tile-layer'
  }).addTo(this.map).setOpacity(this.overlayMapOpacity).bringToFront();

  this.map.flyToBounds(overlayMap.bounds);

  //this.map.flyToBounds(this.currentOverlayMap.getBounds())
};

this.getMoralityProportions = function(markers) {
  var good = markers.reduce(function (sum$$1, marker) { return marker.options.morality ===
      "good" ? sum$$1 + marker.options.weight : sum$$1; }, 1);
  var bad = markers.reduce(function (sum$$1, marker) { return marker.options.morality ===
      "bad" ? sum$$1 + marker.options.weight : sum$$1; }, 1);
  var neutral = markers.reduce(function (sum$$1, marker) { return marker.options.morality
      === "neutral" ? sum$$1 + marker.options.weight : sum$$1; }, 1);

  var max_weight = markers.reduce(function (max$$1, marker) { return Math.max(max$$1,
      marker.options.weight); }, 0);
```

```
  var cumulated_weight = markers.reduce(function (weight, marker) { return weight +
      marker.options.weight; }, 0);

  var total = good + bad + neutral;
  return {
    good: good/total,
    bad: bad/total,
    neutral: neutral/total
  }
};

this.getIconSize = function (length) { return 30 + length; };

this.makePopup = function (place) {
  var PopupComp = Vue$3$1.extend(MapPopup);
  var popup = new PopupComp({});
  popup.name = place["Place"];
  popup.comments = place["Comments"];
  popup.$store = this$1.$store;
  popup.$on('opendetail', function () { return this$1.$store.dispatch('showPassages'); });
  popup.$on('openrelated', function () { return this$1.$store.dispatch('showRelated'); });
  popup.$mount();
  return popup.$el
};

this.addMarkers = function (type) {
  this$1.currentMarkers && this$1.map.removeLayer(this$1.currentMarkers);
  // this.currentMarkers = new L.MarkerClusterGroup({
  //   zoomToBoundsOnClick: false,
  //   maxClusterRadius: 35,
  //   disableClusteringAtZoom: 8,
  //   iconCreateFunction: (cluster) => {
  //     const markers = cluster.getAllChildMarkers()
  //     const proportions = this.getMoralityProportions(markers);
  //     const radius = this.getIconSize(markers.length)

  //     return L.divIcon({ html:
  //       '<div position="relative">' +
  //         '<div class="circ" style="position: absolute; opacity:' + proportions["good"] +
      ';background-color:' + this.moralityColors['good'] +
      ';width:'+radius+'px;height:'+radius+'px;">' + markers.length + '</div>' +
  //         '<div class="circ" style="position: absolute; opacity:' + proportions["bad"] +
      ';background-color:' + this.moralityColors['bad'] +
      ';width:'+radius+'px;height:'+radius+'px;">' + markers.length + '</div>' +
```

```
//        '<div class="circ" style="position: absolute; opacity:' + proportions["neutral"] +
      ';background-color:' + this.moralityColors['neutral'] +
      ';width:'+radius+'px;height:'+radius+'px;">' + markers.length + '</div>' +
//       '</div>'
//       , iconSize: L.point(radius, radius) })
//   }
// })

this$1.currentMarkers = leafletSrc.featureGroup();


var addPlaceMarkers = function (data, morality) {

  data.forEach(function (place) {
    var m = {};
    m[place["Postive"]] = "good";
    m[place["Negative"]] = "bad";
    m[place["Neutral"]] = "neutral";

    var max$$1 = Object.keys(m).reduce(function (max$$1, key) {return ("" +
      (Math.max(max$$1, key)))}, 0);


    var moralityColors = this$1.moralityColors;
    var scaleForWeight = function (size, weight) { return size + parseInt(weight) * 3; };

    var iconFunctions = {
      "pie": function() {
        var good = parseInt(place["Postive"]);
        var bad = parseInt(place["Negative"]);
        var neutral = parseInt(place["Neutral"]);

        var weight = good + bad + neutral;


        var w = scaleForWeight(27, weight);
        var h = w;

        var piedata = [good, bad, neutral];

        var color$$1 = ordinal()
        //.domain(piedata)
        .range([moralityColors["good"], moralityColors["bad"], moralityColors["neutral"]]);

        var svg = document.createElementNS('http://www.w3.org/2000/svg', 'svg');
```

```
   var svg2 = select(svg)
              .attr('width', w)
              .attr('height', h)
              .append('g')
              .attr('transform', ("translate(" + (w / 2) + "," + (h / 2) + " )"));

  var theArc = arc()
               .innerRadius(w / 2)
               .outerRadius(0);

  var thePie = pie()
              .value(function (d) { return d; })
              .sort(null);

  var path$$1 = svg2.selectAll('path')
              .data(thePie(piedata))
              .enter()
              .append('path')
              .attr('d', theArc)
              .attr('fill', function (d, i) { return color$$1(i); });
  // // https://css-tricks.com/creating-vue-js-component-instances-programmatically/

  var iconOptions = {
    iconSize: [ w, h ],
    className: 'vector-marker',
    extraIconClasses: 'pie-marker-icon',
    extraDivClasses: 'pie-marker',
    html: ("\n              <div style=\"position: relative;\"><div style=\"position: absolute;
width: " + w + "px; height: " + h + "px; top: 0; left: 0;\">" + ((new
window.XMLSerializer()).serializeToString(svg)) + "</div></div>")
  };

  //

  return leafletSrc.divIcon(iconOptions)
},
"pin": function() {

  var good = parseInt(place["Postive"]);
  var bad = parseInt(place["Negative"]);
  var neutral = parseInt(place["Neutral"]);

  var weight = good + bad + neutral;
```

```
    var w = scaleForWeight(40, weight);
    var h = w;

    var piedata = [good / weight, bad / weight, neutral / weight];

    var iconOptions = {
      iconSize: [ w, h ],
      iconAnchor: [ 15, 50 ],
      popupAnchor: [ 2, -40 ],
      shadowAnchor: [ 39, 45 ],
      shadowSize: [ w + 4, h + 4 ],
      className: 'vector-marker',
      prefix: 'fa',
      spinClass: 'fa-spin',
      extraIconClasses: '',
      extraDivClasses: '',
      icon: 'home',
      markerColor: 'blue',
      iconColor: 'white',
      viewBox: ("0 0 " + w + " " + h),
      html: ("\n              <div style=\"position: relative;\"><svg width=\"" + w + "px\"
  height=\"" + h + "px\" viewbox=\"0 0 50 50\">\n              <path style=\"fill: white;};
  opacity: 1;\" d=\"M16,1c-8.285,0,-15,6.656,-
  15,14.865c0,8.211,15,35.135,15,35.135c0,0,15,-26.924,15,-35.135c0,-8.209,-6.718,-
  14.865,-15,-14.865l0,0z\" />\n                <path style=\"fill: " + (moralityColors['good'])
  + "; opacity: " + (piedata[0]) + ";\" d=\"M16,1c-8.285,0,-15,6.656,-
  15,14.865c0,8.211,15,35.135,15,35.135c0,0,15,-26.924,15,-35.135c0,-8.209,-6.718,-
  14.865,-15,-14.865l0,0z\" />\n                <path style=\"fill: " + (moralityColors['bad']) +
  "; opacity: " + (piedata[1]) + ";\" d=\"M16,1c-8.285,0,-15,6.656,-
  15,14.865c0,8.211,15,35.135,15,35.135c0,0,15,-26.924,15,-35.135c0,-8.209,-6.718,-
  14.865,-15,-14.865l0,0z\" />\n                <path style=\"fill: " +
  (moralityColors['neutral']) + "; opacity: " + (piedata[2]) + ";\" d=\"M16,1c-8.285,0,-
  15,6.656,-15,14.865c0,8.211,15,35.135,15,35.135c0,0,15,-26.924,15,-35.135c0,-8.209,-
  6.718,-14.865,-15,-14.865l0,0z\" />\n                \n              </svg></div>")
    };

    return leafletSrc.divIcon(iconOptions)
  }
};




leafletSrc.marker([place["Latitude"], place["Longitude"]], {
  icon: iconFunctions[this$1.markerType](),
  opacity: 0.9,
```

```
        //fillOpacity: 0.8,
        fillColor: this$1.moralityColors[morality],
        color: this$1.moralityColors[morality],
        weight: parseInt(place["Weight"]),
        morality: morality,
        title: place["Place"],
        place: place
       })
       .bindTooltip(place["Place"])
       //.on('popupopen', () => this.$store.commit('setSelectedPlace', {place: place, router:
        this.$router}))
       .on('click', function () { return this$1.$router.push({hash: place["Place"]}); })
       .on('mouseover', function (e) { return e.target.setZIndexOffset(1000); } )
       .on('mouseout', function (e) { return e.target.setZIndexOffset(0); } )
       //.on('popupclose', () => this.$store.dispatch('unselectPlace', this.$router))
       //.on('popupclose', () => this.$router.push({hash: ""}))
       .addTo(this$1.currentMarkers);
      });
  };

  // addPlaceMarkers(dataPositive, "good")
  // addPlaceMarkers(dataNegative, "bad")
  // addPlaceMarkers(dataNeutral, "neutral")

  addPlaceMarkers(placeData, "good");


  this$1.map
    .addLayer(this$1.currentMarkers);
    //.setMaxBounds(this.currentMarkers.getBounds())
};

this.toggleGenesisMarkers = function (show) {
  if (show == false && this$1.genesisMarkers) {
    this$1.map.removeLayer(this$1.genesisMarkers);
    this$1.genesisMarkers = null;
  } else if (show == true) {
    this$1.genesisMarkers = new leafletSrc.MarkerClusterGroup({
      zoomToBoundsOnClick: false,
      maxClusterRadius: 35,
      disableClusteringAtZoom: 8,
      //showCoverageOnHover: false,
      iconCreateFunction: function (cluster$$1) {
        var markers = cluster$$1.getAllChildMarkers();

        //var radius = Math.min(width, height) / 2;
```

```
        var radius = this$1.getIconSize(markers.length);

        return leafletSrc.divIcon({html: '<div class="circ" style="opacity: 0.75; background-
        color:' + this$1.moralityColors['genesis'] + ';width:'+radius+'px;height:'+radius+'px;">' +
        markers.length + '</div>', iconSize: leafletSrc.point(radius,radius) })
      }
    });

    dataGenesis.forEach(function (place) {
      var icon = leafletSrc.VectorMarkers.icon({
        markerColor: this$1.moralityColors['genesis']
      });


      leafletSrc.marker([place["Latitude"], place["Longitude"]], {
        title: place["Place"],
        opacity: 0.85,
        morality: "genesis",
        weight: 1,
        icon: icon
      })
      .bindTooltip(place["Place"])
      .bindPopup(function (marker) { return this$1.makePopup(marker, place); } )
      .on('click', function () { return this$1.$store.commit('setSelectedPlace', place); })
      .addTo(this$1.genesisMarkers);
    });

    this$1.genesisMarkers.addTo(this$1.map);
  }
 };
},
mounted: function mounted() {
 var this$1 = this;

 this.map = leafletSrc.map('leaflet', {zoomControl: false, maxZoom: 18}).setView([32.738,
       36.560], 4)
   .on('click', function () { return this$1.$router.push({hash: ""}); });
 leafletSrc.control.zoom({position: 'bottomleft'}).addTo(this.map);
 this.setBaseLayer(this.baseLayer.id);
 this.setOverlayMap(this.overlayMap);
 this.addMarkers(this.markerType);
 this.toggleGenesisMarkers(this.showGenesis);

 if (this.selectedPlace) {
  this.selectPlaceOnMap(this.selectedPlace);
 }
```

```
  }
};

var PassagePane = {render: function(){var _vm=this;var _h=_vm.$createElement;var
        _c=_vm._self._c||_h;return
        (_vm.$store.getters.selectedPlace)?_c('div',{staticClass:"wrap"},[_c('div',{staticClass:"bo
        dy"},[_c('md-card-header',[_c('div',{staticClass:"md-
        title"},[_vm._v(_vm._s(_vm.selectedPlace["Place"]))])]),_vm._v(" "),_c('md-card-
        content',{domProps:{"innerHTML":_vm._s(_vm.$options.filters.markdown(_vm.selecte
        dPlace['Comments']))}}),_vm._v(" "),_c('md-divider'),_vm._v(" "),_c('md-card-
        content',{staticClass:"content"},[_c('md-tabs',{staticClass:"md-transparent",attrs:{"md-
        dynamic-height":true,"md-active-tab":_vm.activeDetailTab}},[_c('md-
        tab',{attrs:{"id":"tab-passages","md-
        label":"Passages"}},[_c('div',{staticClass:"content"},_vm._l((_vm.parsedPassages),functi
        on(passage){return _c('div',{staticClass:"passage"},[_c('div',{staticClass:"passage-text
        morality",class:passage.morality},[_vm._v(_vm._s(passage.text))]),_vm._v("
        "),_c('div',{staticClass:"reference"},[_vm._v("("+_vm._s(passage.pos)+")")])])}))]),_vm.
        _v(" "),_c('md-tab',{attrs:{"id":"tab-related","md-label":"Related
        Locations"}},_vm._l((_vm.relatedPlaces),function(place){return
        _c('div',{staticClass:"passage"},[_c('div',[_c('a',{attrs:{"href":'#' +
        place['Place']}},[_vm._v(_vm._s(place["Place"]))])]),_vm._v("
        "),_c('div',{domProps:{"innerHTML":_vm._s(_vm.$options.filters.markdown(_vm.select
        edPlace['Comments']))}})])}))],1)],1),_vm._v(" "),_c('md-card-actions',[_c('md-
        button',{on:{"click":function($event){_vm.$store.commit('setPassagePaneOpen',
        false);}}},[_vm._v("Close")])],1)],1):_vm._e()},staticRenderFns: [],_scopeId: 'data-v-
        31a99a54',
        name: "PassagePane",
        computed: {
        selectedPlace: function selectedPlace() { return this.$store.getters.selectedPlace },
        activeDetailTab: function activeDetailTab() { return this.$store.getters.activeDetailTab },
        parsedPassages: function parsedPassages() {
                // https://blog.mastykarz.nl/regular-expressions-in-javascript-dont-support-the-
        single-line-mode/
                // https://regex101.com/r/zACvGs/1
                var regex = new RegExp("\\\"([\\s\\S]*?)\\\"\\s+\\((.*?)\\)\\s+\\[(.*?)\\];?", "g");
                var match = null;
                var passages = [];

                while ( (match = regex.exec(this.selectedPlace["Content"])) !== null) {
                        passages.push({
                                text: match[1],
                                pos: match[2],
                                morality: match[3]
                        });
                }
```

```
            return passages
        },
        relatedPlaces: function relatedPlaces() {
            var this$1 = this;

            return placeData
                        .filter(function (place) { return place["Related"] ===
        this$1.selectedPlace["Related"] && place["Place"] !== this$1.selectedPlace["Place"]; })
        }
        },
        filters: {
        markdown: function (value) { return marked(value); }
        }
}

var baseLayers = [{"name":"World Terrain","id":"Esri.WorldTerrain"},{"name":"Stamen
        Terrain","id":"Stamen.Terrain"},{"name":"World Shaded
        Relief","id":"Esri.WorldShadedRelief"},{"name":"Nat
        Geo","id":"Esri.NatGeoWorldMap"}];
var overlayMaps = [{"id":"turkish-empire","name":"Turkish
        Empire","url":"https://mapwarper.net/maps/tile/27916/{z}/{x}/{y}.png","bounds":[[57.2,
        107.405],[7.13,-36.383]]},{"id":"king-james","name":"King
        James","url":"https://mapwarper.net/maps/tile/27639/{z}/{x}/{y}.png","bounds":[[33.44,
        38.306],[30.097,29.319]]}];
var mapConfig = {
        baseLayers: baseLayers,
        overlayMaps: overlayMaps
};

var MainPane = {render: function(){var _vm=this;var _h=_vm.$createElement;var
        _c=_vm._self._c||_h;return _c('md-card-
        content',{staticClass:"main"},[_c('div',{staticClass:"title"},[_c('div',{staticClass:"line-
        1"},[_vm._v("Moralized Geography")]),_vm._v(" "),_c('div',{staticClass:"line-
        2"},[_c('div',{staticClass:"heading-line"}),_vm._v(" "),_c('div',{staticClass:"heading-
        of"},[_vm._v("of")]),_vm._v(" "),_c('div',{staticClass:"heading-line"})]),_vm._v("
        "),_c('div',{staticClass:"line-3"},[_vm._v("Paradise Lost")])]),_vm._v(" "),_c('md-
        divider'),_vm._v(" "),_c('md-list',{staticClass:"transparent md-dense"},[_c('md-list-
        item',{staticClass:"inset",attrs:{"md-expand":"","md-
        expanded":_vm.expandBaseMaps},on:{"update:mdExpanded":function($event){_vm.exp
        andBaseMaps=$event;}}},[_c('span',{staticClass:"md-list-item-text"},[_vm._v("Base
        Maps")]),_vm._v(" "),_c('md-list',{staticClass:"md-dense transparent",attrs:{"slot":"md-
        expand"},slot:"md-
        expand"},_vm._l((_vm.mapConfig.baseLayers),function(baseLayer,index){return
        _c('md-list-item',{staticClass:"inset selectable",class:{ selected:
        _vm.$store.getters.baseLayer.id ==
        baseLayer.id },on:{"click":function($event){_vm.$store.commit('setBaseLayer',
```

```
baseLayer);}}},[_c('span',[_vm._v(_vm._s(baseLayer.name))]),_vm._v(" "),_c('md-
icon',[_vm._v("✓")])],1)}))],1),_vm._v(" "),_c('md-list-
item',{staticClass:"inset",attrs:{"md-expand":"","md-
expanded":_vm.expandOverlayMaps},on:{"update:mdExpanded":function($event){_vm.
expandOverlayMaps=$event;}}},[_c('span',{staticClass:"md-list-item-
text"},[_vm._v("Rectified Maps")]),_vm._v(" "),_c('md-list',{staticClass:"md-dense
transparent",attrs:{"slot":"md-expand"},slot:"md-
expand"},[_vm._l((_vm.mapConfig.overlayMaps),function(overlayMap){return _c('md-
list-item',{staticClass:"inset selectable",class:{ selected:
_vm.$store.getters.overlayMap.id ==
overlayMap.id },on:{"click":function($event){_vm.$store.commit('setOverlayMap',
overlayMap);}}},[_c('span',[_vm._v(_vm._s(overlayMap.name))]),_vm._v(" "),_c('md-
icon',[_vm._v("✓")])],1)}),_vm._v(" "),_c('md-list-
item',[_c('input',{directives:[{name:"model",rawName:"v-
model",value:(_vm.overlayMapOpacity),expression:"overlayMapOpacity"}],attrs:{"type"
:"range","min":"0","max":"1","step":"0.01"},domProps:{"value":(_vm.overlayMapOpaci
ty)},on:{"__r":function($event){_vm.overlayMapOpacity=$event.target.value;}}}),_vm.
_v(" "+_vm._s(Math.round(_vm.overlayMapOpacity * 100))+"% ")])],2)],1),_vm._v("
"),_c('md-list-item',{staticClass:"genesis
inset"},[_c('span',[_vm._v("Genesis")]),_vm._v(" "),_c('md-
switch',{model:{value:(_vm.showGenesis),callback:function ($$v)
{_vm.showGenesis=$$v;},expression:"showGenesis"}})],1),_vm._v(" "),_c('md-list-
item',{staticClass:"inset",attrs:{"md-expand":"","md-
expanded":_vm.expandMarkerOptions},on:{"update:mdExpanded":function($event){_v
m.expandMarkerOptions=$event;}}},[_c('span',{staticClass:"md-list-item-
text"},[_vm._v("Marker Types")]),_vm._v(" "),_c('md-list',{staticClass:"md-dense
transparent",attrs:{"slot":"md-expand"},slot:"md-expand"},[_c('md-list-item',[_c('md-
radio',{attrs:{"value":"pie"},model:{value:(_vm.markerType),callback:function ($$v)
{_vm.markerType=$$v;},expression:"markerType"}},[_vm._v("Pie
Charts")])],1),_vm._v(" "),_c('md-list-item',[_c('md-
radio',{attrs:{"value":"pin"},model:{value:(_vm.markerType),callback:function ($$v)
{_vm.markerType=$$v;},expression:"markerType"}},[_vm._v("Pins")])],1)],1)],1)],1
)},staticRenderFns: [],_scopeId: 'data-v-03a93071',
name: "MainPane",
data: function () { return ({
  expandBaseMaps: true,
  expandOverlayMaps: true,
  expandMarkerOptions: false,
  expandMainMenu: false
}); },
computed: {
mapConfig: function mapConfig$1() { return mapConfig },
overlayMapOpacity: {
  get: function get() { return this.$store.getters.overlayMapOpacity },
  set: function set(value) { this.$store.commit('setOverlayMapOpacity', value); }
},
```

```
        showGenesis: {
          get: function get() { return this.$store.getters.showGenesis },
          set: function set(value) { this.$store.commit('setShowGenesis', value); }
        },
        markerType: {
                get: function get() { return this.$store.getters.markerType },
                set: function set(value) { this.$store.commit('setMarkerType', value); }
        }
        }
}

var App = {render: function(){var _vm=this;var _h=_vm.$createElement;var
        _c=_vm._self._c||_h;return
        _c('div',{staticClass:"app"},[_c('Map',{staticClass:"map"}),_vm._v("
        "),_c('div',{staticClass:"overlay"},[_c('md-card',{staticClass:"menu-button"},[_c('md-
        button',{staticClass:"md-icon-button",on:{"click":function($event){_vm.mainPaneOpen
        = true;}}},[_c('md-icon',{attrs:{"md-
        src":"assets/ic_menu_black_48px.svg"}})],1)],1),_vm._v(" "),_c('md-
        drawer',{staticClass:"controls",attrs:{"md-permanent":"card","md-
        active":_vm.mainPaneOpen},on:{"update:mdActive":function($event){_vm.mainPaneOp
        en=$event;}}},[_c('MainPane')],1),_vm._v(" "),_c('md-drawer',{staticClass:"md-
        right",attrs:{"md-
        active":_vm.passagePaneOpen},on:{"update:mdActive":function($event){_vm.passageP
        aneOpen=$event;}}},[_c('PassagePane')],1)],1),_vm._v(" "),_c('md-dialog',{attrs:{"md-
        active":_vm.showAbout},on:{"update:mdActive":function($event){_vm.showAbout=$ev
        ent;}}},[_c('md-dialog-title',[_vm._v("Preferences")]),_vm._v(" "),_c('md-
        tabs',{attrs:{"md-dynamic-height":""}},[_c('md-tab',{attrs:{"md-
        label":"General"}},[_c('p',[_vm._v("Lorem ipsum dolor sit amet consectetur, adipisicing
        elit. Ullam mollitia dolorum dolores quae commodi impedit possimus qui, atque at
        voluptates cupiditate. Neque quae culpa suscipit praesentium inventore ducimus ipsa
        aut.")]),_vm._v(" "),_c('p',[_vm._v("Lorem ipsum dolor sit amet consectetur, adipisicing
        elit. Ullam mollitia dolorum dolores quae commodi impedit possimus qui, atque at
        voluptates cupiditate. Neque quae culpa suscipit praesentium inventore ducimus ipsa
        aut.")]),_vm._v(" "),_c('p',[_vm._v("Lorem ipsum dolor sit amet consectetur, adipisicing
        elit. Ullam mollitia dolorum dolores quae commodi impedit possimus qui, atque at
        voluptates cupiditate. Neque quae culpa suscipit praesentium inventore ducimus ipsa
        aut.")])]),_vm._v(" "),_c('md-tab',{attrs:{"md-label":"Activity"}},[_c('p',[_vm._v("Lorem
        ipsum dolor sit amet consectetur, adipisicing elit. Ullam mollitia dolorum dolores quae
        commodi impedit possimus qui, atque at voluptates cupiditate. Neque quae culpa suscipit
        praesentium inventore ducimus ipsa aut.")]),_vm._v(" "),_c('p',[_vm._v("Lorem ipsum
        dolor sit amet consectetur, adipisicing elit. Ullam mollitia dolorum dolores quae
        commodi impedit possimus qui, atque at voluptates cupiditate. Neque quae culpa suscipit
        praesentium inventore ducimus ipsa aut.")]),_vm._v(" "),_c('p',[_vm._v("Lorem ipsum
        dolor sit amet consectetur, adipisicing elit. Ullam mollitia dolorum dolores quae
        commodi impedit possimus qui, atque at voluptates cupiditate. Neque quae culpa suscipit
        praesentium inventore ducimus ipsa aut.")]),_vm._v(" "),_c('p',[_vm._v("Lorem ipsum
```

```
        dolor sit amet consectetur, adipisicing elit. Ullam mollitia dolorum dolores quae
        commodi impedit possimus qui, atque at voluptates cupiditate. Neque quae culpa suscipit
        praesentium inventore ducimus ipsa aut.")]),_vm._v(" "),_c('p',[_vm._v("Lorem ipsum
        dolor sit amet consectetur, adipisicing elit. Ullam mollitia dolorum dolores quae
        commodi impedit possimus qui, atque at voluptates cupiditate. Neque quae culpa suscipit
        praesentium inventore ducimus ipsa aut.")])]),_vm._v(" "),_c('md-tab',{attrs:{"md-
        label":"Account"}},[_c('p',[_vm._v("Lorem ipsum dolor sit amet consectetur, adipisicing
        elit. Ullam mollitia dolorum dolores quae commodi impedit possimus qui, atque at
        voluptates cupiditate. Neque quae culpa suscipit praesentium inventore ducimus ipsa
        aut.")]),_vm._v(" "),_c('p',[_vm._v("Lorem ipsum dolor sit amet consectetur, adipisicing
        elit. Ullam mollitia dolorum dolores quae commodi impedit possimus qui, atque at
        voluptates cupiditate. Neque quae culpa suscipit praesentium inventore ducimus ipsa
        aut.")])])],1),_vm._v(" "),_c('md-dialog-actions',[_c('md-button',{staticClass:"md-
        primary",on:{"click":function($event){_vm.showAbout =
        false;}}},[_vm._v("Close")]),_vm._v(" "),_c('md-button',{staticClass:"md-
        primary",on:{"click":function($event){_vm.showAbout =
        false;}}},[_vm._v("Save")])],1)],1)],1)},staticRenderFns: [],
  name: "app",
  data: function () { return ({
    mainPaneOpen: false,
    showAbout: false
  }); },
  components: {
    Map: Map$1, PassagePane: PassagePane, MainPane: MainPane
  },
  computed: {
    passagePaneOpen: {
      get: function get() { return this.$store.getters.passagePaneOpen },
      set: function set(value) { this.$store.commit('setPassagePaneOpen', value); }
    },
    selectedPlace: function selectedPlace() { return this.$store.getters.selectedPlace },
  },
  watch: {
    '$route': function $route(to, from) {
      console.log(to);
    },
    selectedPlace: function selectedPlace(place) {
      if (!place) {
        this.$store.commit('setPassagePaneOpen', false);
      }
    }
  }
  // created() {
  //   this.$store.dispatch('loadMapConfig')
  // },
};
```

```
/*!
 * vue-resource v1.3.6
 * https://github.com/pagekit/vue-resource
 * Released under the MIT License.
 */

/**
 * Promises/A+ polyfill v1.1.4 (https://github.com/bramstein/promis)
 */

var RESOLVED = 0;
var REJECTED = 1;
var PENDING = 2;

function Promise$1(executor) {

   this.state = PENDING;
   this.value = undefined;
   this.deferred = [];

   var promise = this;

   try {
      executor(function (x) {
         promise.resolve(x);
      }, function (r) {
         promise.reject(r);
      });
   } catch (e) {
      promise.reject(e);
   }
}

Promise$1.reject = function (r) {
   return new Promise$1(function (resolve, reject) {
      reject(r);
   });
};

Promise$1.resolve = function (x) {
   return new Promise$1(function (resolve, reject) {
      resolve(x);
   });
};
```

```
Promise$1.all = function all(iterable) {
   return new Promise$1(function (resolve, reject) {
      var count = 0, result = [];

      if (iterable.length === 0) {
         resolve(result);
      }

      function resolver(i) {
         return function (x) {
            result[i] = x;
            count += 1;

            if (count === iterable.length) {
               resolve(result);
            }
         };
      }

      for (var i = 0; i < iterable.length; i += 1) {
         Promise$1.resolve(iterable[i]).then(resolver(i), reject);
      }
   });
};

Promise$1.race = function race(iterable) {
   return new Promise$1(function (resolve, reject) {
      for (var i = 0; i < iterable.length; i += 1) {
         Promise$1.resolve(iterable[i]).then(resolve, reject);
      }
   });
};

var p$2 = Promise$1.prototype;

p$2.resolve = function resolve(x) {
   var promise = this;

   if (promise.state === PENDING) {
      if (x === promise) {
         throw new TypeError('Promise settled with itself.');
      }

      var called = false;

      try {
```

```
            var then = x && x['then'];

            if (x !== null && typeof x === 'object' && typeof then === 'function') {
               then.call(x, function (x) {
                  if (!called) {
                     promise.resolve(x);
                  }
                  called = true;

               }, function (r) {
                  if (!called) {
                     promise.reject(r);
                  }
                  called = true;
               });
               return;
            }
         } catch (e) {
            if (!called) {
               promise.reject(e);
            }
            return;
         }

         promise.state = RESOLVED;
         promise.value = x;
         promise.notify();
      }
   };

   p$2.reject = function reject(reason) {
      var promise = this;

      if (promise.state === PENDING) {
         if (reason === promise) {
            throw new TypeError('Promise settled with itself.');
         }

         promise.state = REJECTED;
         promise.value = reason;
         promise.notify();
      }
   };

   p$2.notify = function notify() {
      var promise = this;
```

```
    nextTick$3(function () {
      if (promise.state !== PENDING) {
        while (promise.deferred.length) {
          var deferred = promise.deferred.shift(),
            onResolved = deferred[0],
            onRejected = deferred[1],
            resolve = deferred[2],
            reject = deferred[3];

          try {
            if (promise.state === RESOLVED) {
              if (typeof onResolved === 'function') {
                resolve(onResolved.call(undefined, promise.value));
              } else {
                resolve(promise.value);
              }
            } else if (promise.state === REJECTED) {
              if (typeof onRejected === 'function') {
                resolve(onRejected.call(undefined, promise.value));
              } else {
                reject(promise.value);
              }
            }
          } catch (e) {
            reject(e);
          }
        }
      }
    });
};

p$2.then = function then(onResolved, onRejected) {
    var promise = this;

    return new Promise$1(function (resolve, reject) {
      promise.deferred.push([onResolved, onRejected, resolve, reject]);
      promise.notify();
    });
};

p$2.catch = function (onRejected) {
    return this.then(undefined, onRejected);
};

/**
```

```
 * Promise adapter.
 */

if (typeof Promise === 'undefined') {
    window.Promise = Promise$1;
}

function PromiseObj(executor, context) {

    if (executor instanceof Promise) {
        this.promise = executor;
    } else {
        this.promise = new Promise(executor.bind(context));
    }

    this.context = context;
}

PromiseObj.all = function (iterable, context) {
    return new PromiseObj(Promise.all(iterable), context);
};

PromiseObj.resolve = function (value, context) {
    return new PromiseObj(Promise.resolve(value), context);
};

PromiseObj.reject = function (reason, context) {
    return new PromiseObj(Promise.reject(reason), context);
};

PromiseObj.race = function (iterable, context) {
    return new PromiseObj(Promise.race(iterable), context);
};

var p$1$1 = PromiseObj.prototype;

p$1$1.bind = function (context) {
    this.context = context;
    return this;
};

p$1$1.then = function (fulfilled, rejected) {

    if (fulfilled && fulfilled.bind && this.context) {
        fulfilled = fulfilled.bind(this.context);
    }
```

```
    if (rejected && rejected.bind && this.context) {
        rejected = rejected.bind(this.context);
    }

    return new PromiseObj(this.promise.then(fulfilled, rejected), this.context);
};

p$1$1.catch = function (rejected) {

    if (rejected && rejected.bind && this.context) {
        rejected = rejected.bind(this.context);
    }

    return new PromiseObj(this.promise.catch(rejected), this.context);
};

p$1$1.finally = function (callback) {

    return this.then(function (value) {
        callback.call(this);
        return value;
    }, function (reason) {
        callback.call(this);
        return Promise.reject(reason);
    }
    );
};

/**
 * Utility functions.
 */

var ref$2 = {};
var hasOwnProperty$2 = ref$2.hasOwnProperty;

var ref$1$1 = [];
var slice$7 = ref$1$1.slice;
var debug = false;
var ntick;

var inBrowser$2 = typeof window !== 'undefined';

function Util (ref) {
    var config = ref.config;
    var nextTick = ref.nextTick;
```

```
    ntick = nextTick;
    debug = config.debug || !config.silent;
}

function warn$2(msg) {
    if (typeof console !== 'undefined' && debug) {
        console.warn('[VueResource warn]: ' + msg);
    }
}

function error(msg) {
    if (typeof console !== 'undefined') {
        console.error(msg);
    }
}

function nextTick$3(cb, ctx) {
    return ntick(cb, ctx);
}

function trim(str) {
    return str ? str.replace(/^\s*|\s*$/g, '') : '';
}

function trimEnd(str, chars) {

    if (str && chars === undefined) {
        return str.replace(/\s+$/, '');
    }

    if (!str || !chars) {
        return str;
    }

    return str.replace(new RegExp(("[" + chars + "]+$")), '');
}

function toLower(str) {
    return str ? str.toLowerCase() : '';
}

function toUpper(str) {
    return str ? str.toUpperCase() : '';
}
```

```
var isArray = Array.isArray;

function isString(val) {
   return typeof val === 'string';
}



function isFunction(val) {
   return typeof val === 'function';
}

function isObject$2(obj) {
   return obj !== null && typeof obj === 'object';
}

function isPlainObject$2(obj) {
   return isObject$2(obj) && Object.getPrototypeOf(obj) == Object.prototype;
}

function isBlob(obj) {
   return typeof Blob !== 'undefined' && obj instanceof Blob;
}

function isFormData(obj) {
   return typeof FormData !== 'undefined' && obj instanceof FormData;
}

function when(value, fulfilled, rejected) {

   var promise = PromiseObj.resolve(value);

   if (arguments.length < 2) {
      return promise;
   }

   return promise.then(fulfilled, rejected);
}

function options(fn, obj, opts) {

   opts = opts || {};

   if (isFunction(opts)) {
      opts = opts.call(obj);
   }
```

```
    return merge$1(fn.bind({$vm: obj, $options: opts}), fn, {$options: opts});
}

function each(obj, iterator) {

    var i, key;

    if (isArray(obj)) {
        for (i = 0; i < obj.length; i++) {
            iterator.call(obj[i], obj[i], i);
        }
    } else if (isObject$2(obj)) {
        for (key in obj) {
            if (hasOwnProperty$2.call(obj, key)) {
                iterator.call(obj[key], obj[key], key);
            }
        }
    }

    return obj;
}

var assign = Object.assign || _assign;

function merge$1(target) {

    var args = slice$7.call(arguments, 1);

    args.forEach(function (source) {
        _merge(target, source, true);
    });

    return target;
}

function defaults(target) {

    var args = slice$7.call(arguments, 1);

    args.forEach(function (source) {

        for (var key in source) {
            if (target[key] === undefined) {
                target[key] = source[key];
            }
```

```
        }

    });

    return target;
}

function _assign(target) {

    var args = slice$7.call(arguments, 1);

    args.forEach(function (source) {
        _merge(target, source);
    });

    return target;
}

function _merge(target, source, deep) {
    for (var key in source) {
        if (deep && (isPlainObject$2(source[key]) || isArray(source[key]))) {
            if (isPlainObject$2(source[key]) && !isPlainObject$2(target[key])) {
                target[key] = {};
            }
            if (isArray(source[key]) && !isArray(target[key])) {
                target[key] = [];
            }
            _merge(target[key], source[key], deep);
        } else if (source[key] !== undefined) {
            target[key] = source[key];
        }
    }
}

/**
 * Root Prefix Transform.
 */

function root$2 (options$$1, next) {

    var url = next(options$$1);

    if (isString(options$$1.root) && !/^(https?:)?\//.test(url)) {
        url = trimEnd(options$$1.root, '/') + '/' + url;
    }
```

```
    return url;
}

/**
 * Query Parameter Transform.
 */

function query$2 (options$$1, next) {

    var urlParams = Object.keys(Url.options.params), query = {}, url = next(options$$1);

    each(options$$1.params, function (value, key) {
        if (urlParams.indexOf(key) === -1) {
            query[key] = value;
        }
    });

    query = Url.params(query);

    if (query) {
        url += (url.indexOf('?') == -1 ? '?' : '&') + query;
    }

    return url;
}

/**
 * URL Template v2.0.6 (https://github.com/bramstein/url-template)
 */

function expand$1(url, params, variables) {

    var tmpl = parse(url), expanded = tmpl.expand(params);

    if (variables) {
        variables.push.apply(variables, tmpl.vars);
    }

    return expanded;
}

function parse(template) {

    var operators = ['+', '#', '.', '/', ';', '?', '&'], variables = [];

    return {
```

```
        vars: variables,
        expand: function expand(context) {
            return template.replace(/\{([^{}]+)\}|([^{}]+)/g, function (_, expression, literal) {
                if (expression) {

                    var operator = null, values = [];

                    if (operators.indexOf(expression.charAt(0)) !== -1) {
                        operator = expression.charAt(0);
                        expression = expression.substr(1);
                    }

                    expression.split(/,/g).forEach(function (variable) {
                        var tmp = /([^:*]*)(?::(\d+)|(\*))?/.exec(variable);
                        values.push.apply(values, getValues(context, operator, tmp[1], tmp[2] || tmp[3]));
                        variables.push(tmp[1]);
                    });

                    if (operator && operator !== '+') {

                        var separator = ',';

                        if (operator === '?') {
                            separator = '&';
                        } else if (operator !== '#') {
                            separator = operator;
                        }

                        return (values.length !== 0 ? operator : '') + values.join(separator);
                    } else {
                        return values.join(',');
                    }

                } else {
                    return encodeReserved(literal);
                }
            });
        }
    };
}

function getValues(context, operator, key, modifier) {

    var value = context[key], result = [];

    if (isDefined(value) && value !== '') {
```

```
    if (typeof value === 'string' || typeof value === 'number' || typeof value === 'boolean') {
      value = value.toString();

      if (modifier && modifier !== '*') {
        value = value.substring(0, parseInt(modifier, 10));
      }

      result.push(encodeValue(operator, value, isKeyOperator(operator) ? key : null));
    } else {
      if (modifier === '*') {
        if (Array.isArray(value)) {
          value.filter(isDefined).forEach(function (value) {
            result.push(encodeValue(operator, value, isKeyOperator(operator) ? key : null));
          });
        } else {
          Object.keys(value).forEach(function (k) {
            if (isDefined(value[k])) {
              result.push(encodeValue(operator, value[k], k));
            }
          });
        }
      } else {
        var tmp = [];

        if (Array.isArray(value)) {
          value.filter(isDefined).forEach(function (value) {
            tmp.push(encodeValue(operator, value));
          });
        } else {
          Object.keys(value).forEach(function (k) {
            if (isDefined(value[k])) {
              tmp.push(encodeURIComponent(k));
              tmp.push(encodeValue(operator, value[k].toString()));
            }
          });
        }

        if (isKeyOperator(operator)) {
          result.push(encodeURIComponent(key) + '=' + tmp.join(','));
        } else if (tmp.length !== 0) {
          result.push(tmp.join(','));
        }
      }
    }
  } else {
    if (operator === ';') {
```

```
            result.push(encodeURIComponent(key));
        } else if (value === '' && (operator === '&' || operator === '?')) {
            result.push(encodeURIComponent(key) + '=');
        } else if (value === '') {
            result.push('');
        }
    }

    return result;
}

function isDefined(value) {
    return value !== undefined && value !== null;
}

function isKeyOperator(operator) {
    return operator === ';' || operator === '&' || operator === '?';
}

function encodeValue(operator, value, key) {

    value = (operator === '+' || operator === '#') ? encodeReserved(value) :
            encodeURIComponent(value);

    if (key) {
        return encodeURIComponent(key) + '=' + value;
    } else {
        return value;
    }
}

function encodeReserved(str) {
    return str.split(/(%[0-9A-Fa-f]{2})/g).map(function (part) {
        if (!/%[0-9A-Fa-f]/.test(part)) {
            part = encodeURI(part);
        }
        return part;
    }).join('');
}

/**
 * URL Template (RFC 6570) Transform.
 */

function template (options) {
```

```
    var variables = [], url = expand$1(options.url, options.params, variables);

    variables.forEach(function (key) {
        delete options.params[key];
    });

    return url;
}

/**
 * Service for URL templating.
 */

function Url(url, params) {

    var self = this || {}, options$$1 = url, transform;

    if (isString(url)) {
        options$$1 = {url: url, params: params};
    }

    options$$1 = merge$1({}, Url.options, self.$options, options$$1);

    Url.transforms.forEach(function (handler) {

        if (isString(handler)) {
            handler = Url.transform[handler];
        }

        if (isFunction(handler)) {
            transform = factory(handler, transform, self.$vm);
        }

    });

    return transform(options$$1);
}

/**
 * Url options.
 */

Url.options = {
    url: '',
    root: null,
    params: {}
```

```
};

/**
 * Url transforms.
 */

Url.transform = {template: template, query: query$2, root: root$2};
Url.transforms = ['template', 'query', 'root'];

/**
 * Encodes a Url parameter string.
 *
 * @param {Object} obj
 */

Url.params = function (obj) {

    var params = [], escape = encodeURIComponent;

    params.add = function (key, value) {

        if (isFunction(value)) {
            value = value();
        }

        if (value === null) {
            value = '';
        }

        this.push(escape(key) + '=' + escape(value));
    };

    serialize(params, obj);

    return params.join('&').replace(/%20/g, '+');
};

/**
 * Parse a URL and return its components.
 *
 * @param {String} url
 */

Url.parse = function (url) {

    var el = document.createElement('a');
```

```
    if (document.documentMode) {
      el.href = url;
      url = el.href;
    }

    el.href = url;

    return {
      href: el.href,
      protocol: el.protocol ? el.protocol.replace(/:$/, '') : '',
      port: el.port,
      host: el.host,
      hostname: el.hostname,
      pathname: el.pathname.charAt(0) === '/' ? el.pathname : '/' + el.pathname,
      search: el.search ? el.search.replace(/^\?/, '') : '',
      hash: el.hash ? el.hash.replace(/^#/, '') : ''
    };
};

function factory(handler, next, vm) {
    return function (options$$1) {
      return handler.call(vm, options$$1, next);
    };
}

function serialize(params, obj, scope) {

    var array = isArray(obj), plain = isPlainObject$2(obj), hash;

    each(obj, function (value, key) {

      hash = isObject$2(value) || isArray(value);

      if (scope) {
        key = scope + '[' + (plain || hash ? key : '') + ']';
      }

      if (!scope && array) {
        params.add(value.name, value.value);
      } else if (hash) {
        serialize(params, value, key);
      } else {
        params.add(key, value);
      }
    });
```

```
}

/**
 * XDomain client (Internet Explorer).
 */

function xdrClient (request) {
   return new PromiseObj(function (resolve) {

      var xdr = new XDomainRequest(), handler = function (ref) {
            var type = ref.type;


            var status = 0;

            if (type === 'load') {
               status = 200;
            } else if (type === 'error') {
               status = 500;
            }

            resolve(request.respondWith(xdr.responseText, {status: status}));
         };

      request.abort = function () { return xdr.abort(); };

      xdr.open(request.method, request.getUrl());

      if (request.timeout) {
         xdr.timeout = request.timeout;
      }

      xdr.onload = handler;
      xdr.onabort = handler;
      xdr.onerror = handler;
      xdr.ontimeout = handler;
      xdr.onprogress = function () {};
      xdr.send(request.getBody());
   });
}

/**
 * CORS Interceptor.
 */

var SUPPORTS_CORS = inBrowser$2 && 'withCredentials' in new XMLHttpRequest();
```

```
function cors (request, next) {

   if (inBrowser$2) {

      var orgUrl = Url.parse(location.href);
      var reqUrl = Url.parse(request.getUrl());

      if (reqUrl.protocol !== orgUrl.protocol || reqUrl.host !== orgUrl.host) {

         request.crossOrigin = true;
         request.emulateHTTP = false;

         if (!SUPPORTS_CORS) {
            request.client = xdrClient;
         }
      }
   }

   next();
}

/**
 * Form data Interceptor.
 */

function form (request, next) {

   if (isFormData(request.body)) {

      request.headers.delete('Content-Type');

   } else if (isObject$2(request.body) && request.emulateJSON) {

      request.body = Url.params(request.body);
      request.headers.set('Content-Type', 'application/x-www-form-urlencoded');
   }

   next();
}

/**
 * JSON Interceptor.
 */

function json$1 (request, next) {
```

```
    var type = request.headers.get('Content-Type') || '';

    if (isObject$2(request.body) && type.indexOf('application/json') === 0) {
        request.body = JSON.stringify(request.body);
    }

    next(function (response) {

        return response.bodyText ? when(response.text(), function (text) {

            type = response.headers.get('Content-Type') || '';

            if (type.indexOf('application/json') === 0 || isJson(text)) {

                try {
                    response.body = JSON.parse(text);
                } catch (e) {
                    response.body = null;
                }

            } else {
                response.body = text;
            }

            return response;

        }) : response;

    });
}

function isJson(str) {

    var start = str.match(/^\s*(\[|\{)/);
    var end = {'[': /]\s*$/, '{': /}\s*$/};

    return start && end[start[1]].test(str);
}

/**
 * JSONP client (Browser).
 */

function jsonpClient (request) {
    return new PromiseObj(function (resolve) {
```

```
var name = request.jsonp || 'callback', callback = request.jsonpCallback || '_jsonp' +
   Math.random().toString(36).substr(2), body = null, handler, script;

handler = function (ref) {
   var type = ref.type;


   var status = 0;

   if (type === 'load' && body !== null) {
      status = 200;
   } else if (type === 'error') {
      status = 500;
   }

   if (status && window[callback]) {
      delete window[callback];
      document.body.removeChild(script);
   }

   resolve(request.respondWith(body, {status: status}));
};

window[callback] = function (result) {
   body = JSON.stringify(result);
};

request.abort = function () {
   handler({type: 'abort'});
};

request.params[name] = callback;

if (request.timeout) {
   setTimeout(request.abort, request.timeout);
}

script = document.createElement('script');
script.src = request.getUrl();
script.type = 'text/javascript';
script.async = true;
script.onload = handler;
script.onerror = handler;

document.body.appendChild(script);
```

```
    });
}

/**
 * JSONP Interceptor.
 */

function jsonp (request, next) {

    if (request.method == 'JSONP') {
        request.client = jsonpClient;
    }

    next();
}

/**
 * Before Interceptor.
 */

function before (request, next) {

    if (isFunction(request.before)) {
        request.before.call(this, request);
    }

    next();
}

/**
 * HTTP method override Interceptor.
 */

function method (request, next) {

    if (request.emulateHTTP && /^(PUT|PATCH|DELETE)$/i.test(request.method)) {
        request.headers.set('X-HTTP-Method-Override', request.method);
        request.method = 'POST';
    }

    next();
}

/**
 * Header Interceptor.
 */
```

```
function header (request, next) {

   var headers = assign({}, Http.headers.common,
      !request.crossOrigin ? Http.headers.custom : {},
      Http.headers[toLower(request.method)]
   );

   each(headers, function (value, name) {
      if (!request.headers.has(name)) {
         request.headers.set(name, value);
      }
   });

   next();
}

/**
 * XMLHttp client (Browser).
 */

function xhrClient (request) {
   return new PromiseObj(function (resolve) {

      var xhr = new XMLHttpRequest(), handler = function (event) {

         var response = request.respondWith(
         'response' in xhr ? xhr.response : xhr.responseText, {
            status: xhr.status === 1223 ? 204 : xhr.status, // IE9 status bug
            statusText: xhr.status === 1223 ? 'No Content' : trim(xhr.statusText)
         });

         each(trim(xhr.getAllResponseHeaders()).split('\n'), function (row) {
            response.headers.append(row.slice(0, row.indexOf(':')), row.slice(row.indexOf(':') +
      1));
         });

         resolve(response);
      };

      request.abort = function () { return xhr.abort(); };

      if (request.progress) {
         if (request.method === 'GET') {
            xhr.addEventListener('progress', request.progress);
         } else if (/^(POST|PUT)$/i.test(request.method)) {
```

```
            xhr.upload.addEventListener('progress', request.progress);
        }
    }

    xhr.open(request.method, request.getUrl(), true);

    if (request.timeout) {
        xhr.timeout = request.timeout;
    }

    if (request.responseType && 'responseType' in xhr) {
        xhr.responseType = request.responseType;
    }

    if (request.withCredentials || request.credentials) {
        xhr.withCredentials = true;
    }

    if (!request.crossOrigin) {
        request.headers.set('X-Requested-With', 'XMLHttpRequest');
    }

    request.headers.forEach(function (value, name) {
        xhr.setRequestHeader(name, value);
    });

    xhr.onload = handler;
    xhr.onabort = handler;
    xhr.onerror = handler;
    xhr.ontimeout = handler;
    xhr.send(request.getBody());
  });
}

/**
 * Http client (Node).
 */

function nodeClient (request) {

  var client = require('got');

  return new PromiseObj(function (resolve) {

    var url = request.getUrl();
    var body = request.getBody();
```

```
        var method = request.method;
        var headers = {}, handler;

        request.headers.forEach(function (value, name) {
            headers[name] = value;
        });

        client(url, {body: body, method: method, headers: headers}).then(handler = function (resp)
            {

            var response = request.respondWith(resp.body, {
                status: resp.statusCode,
                statusText: trim(resp.statusMessage)
            });

            each(resp.headers, function (value, name) {
                response.headers.set(name, value);
            });

            resolve(response);

        }, function (error$$1) { return handler(error$$1.response); });
    });
}

/**
 * Base client.
 */

function Client (context) {

    var reqHandlers = [sendRequest], resHandlers = [], handler;

    if (!isObject$2(context)) {
        context = null;
    }

    function Client(request) {
        return new PromiseObj(function (resolve, reject) {

            function exec() {

                handler = reqHandlers.pop();

                if (isFunction(handler)) {
                    handler.call(context, request, next);
```

```
            } else {
                warn$2(("Invalid interceptor of type " + (typeof handler) + ", must be a function"));
                next();
            }
        }

        function next(response) {

            if (isFunction(response)) {

                resHandlers.unshift(response);

            } else if (isObject$2(response)) {

                resHandlers.forEach(function (handler) {
                    response = when(response, function (response) {
                        return handler.call(context, response) || response;
                    }, reject);
                });

                when(response, resolve, reject);

                return;
            }

            exec();
        }

        exec();

    }, context);
}

Client.use = function (handler) {
    reqHandlers.push(handler);
};

return Client;
}

function sendRequest(request, resolve) {

    var client = request.client || (inBrowser$2 ? xhrClient : nodeClient);

    resolve(client(request));
}
```

```
/**
 * HTTP Headers.
 */

var Headers = function Headers(headers) {
   var this$1 = this;


   this.map = {};

   each(headers, function (value, name) { return this$1.append(name, value); });
};

Headers.prototype.has = function has (name) {
   return getName(this.map, name) !== null;
};

Headers.prototype.get = function get (name) {

   var list = this.map[getName(this.map, name)];

   return list ? list.join() : null;
};

Headers.prototype.getAll = function getAll (name) {
   return this.map[getName(this.map, name)] || [];
};

Headers.prototype.set = function set (name, value) {
   this.map[normalizeName(getName(this.map, name) || name)] = [trim(value)];
};

Headers.prototype.append = function append (name, value) {

   var list = this.map[getName(this.map, name)];

   if (list) {
      list.push(trim(value));
   } else {
      this.set(name, value);
   }
};

Headers.prototype.delete = function delete$1 (name) {
   delete this.map[getName(this.map, name)];
```

```
};

Headers.prototype.deleteAll = function deleteAll () {
  this.map = {};
};

Headers.prototype.forEach = function forEach (callback, thisArg) {
    var this$1 = this;

  each(this.map, function (list, name) {
    each(list, function (value) { return callback.call(thisArg, value, name, this$1); });
  });
};

function getName(map, name) {
  return Object.keys(map).reduce(function (prev, curr) {
    return toLower(name) === toLower(curr) ? curr : prev;
  }, null);
}

function normalizeName(name) {

  if (/[^a-z0-9\-#$%&'*+.^_`|~]/i.test(name)) {
    throw new TypeError('Invalid character in header field name');
  }

  return trim(name);
}

/**
 * HTTP Response.
 */

var Response = function Response(body, ref) {
  var url = ref.url;
  var headers = ref.headers;
  var status = ref.status;
  var statusText = ref.statusText;


  this.url = url;
  this.ok = status >= 200 && status < 300;
  this.status = status || 0;
  this.statusText = statusText || '';
  this.headers = new Headers(headers);
  this.body = body;
```

```
   if (isString(body)) {

      this.bodyText = body;

   } else if (isBlob(body)) {

      this.bodyBlob = body;

      if (isBlobText(body)) {
         this.bodyText = blobText(body);
      }
   }
};

Response.prototype.blob = function blob () {
   return when(this.bodyBlob);
};

Response.prototype.text = function text () {
   return when(this.bodyText);
};

Response.prototype.json = function json () {
   return when(this.text(), function (text) { return JSON.parse(text); });
};

Object.defineProperty(Response.prototype, 'data', {

   get: function get() {
      return this.body;
   },

   set: function set(body) {
      this.body = body;
   }

});

function blobText(body) {
   return new PromiseObj(function (resolve) {

      var reader = new FileReader();

      reader.readAsText(body);
      reader.onload = function () {
```

```
          resolve(reader.result);
        };

    });
}

function isBlobText(body) {
    return body.type.indexOf('text') === 0 || body.type.indexOf('json') !== -1;
}

/**
 * HTTP Request.
 */

var Request = function Request(options$$1) {

    this.body = null;
    this.params = {};

    assign(this, options$$1, {
        method: toUpper(options$$1.method || 'GET')
    });

    if (!(this.headers instanceof Headers)) {
        this.headers = new Headers(this.headers);
    }
};

Request.prototype.getUrl = function getUrl () {
    return Url(this);
};

Request.prototype.getBody = function getBody () {
    return this.body;
};

Request.prototype.respondWith = function respondWith (body, options$$1) {
    return new Response(body, assign(options$$1 || {}, {url: this.getUrl()}));
};

/**
 * Service for sending network requests.
 */

var COMMON_HEADERS = {'Accept': 'application/json, text/plain, */*'};
var JSON_CONTENT_TYPE = {'Content-Type': 'application/json;charset=utf-8'};
```

```
function Http(options$$1) {

    var self = this || {}, client = Client(self.$vm);

    defaults(options$$1 || {}, self.$options, Http.options);

    Http.interceptors.forEach(function (handler) {

        if (isString(handler)) {
            handler = Http.interceptor[handler];
        }

        if (isFunction(handler)) {
            client.use(handler);
        }

    });

    return client(new Request(options$$1)).then(function (response) {

        return response.ok ? response : PromiseObj.reject(response);

    }, function (response) {

        if (response instanceof Error) {
            error(response);
        }

        return PromiseObj.reject(response);
    });
}

Http.options = {};

Http.headers = {
    put: JSON_CONTENT_TYPE,
    post: JSON_CONTENT_TYPE,
    patch: JSON_CONTENT_TYPE,
    delete: JSON_CONTENT_TYPE,
    common: COMMON_HEADERS,
    custom: {}
};

Http.interceptor = {before: before, method: method, jsonp: jsonp, json: json$1, form: form,
            header: header, cors: cors};
```

```
Http.interceptors = ['before', 'method', 'jsonp', 'json', 'form', 'header', 'cors'];

['get', 'delete', 'head', 'jsonp'].forEach(function (method$$1) {

   Http[method$$1] = function (url, options$$1) {
      return this(assign(options$$1 || {}, {url: url, method: method$$1}));
   };

});

['post', 'put', 'patch'].forEach(function (method$$1) {

   Http[method$$1] = function (url, body, options$$1) {
      return this(assign(options$$1 || {}, {url: url, method: method$$1, body: body}));
   };

});

/**
 * Service for interacting with RESTful services.
 */

function Resource(url, params, actions, options$$1) {

   var self = this || {}, resource = {};

   actions = assign({},
      Resource.actions,
      actions
   );

   each(actions, function (action, name) {

      action = merge$1({url: url, params: assign({}, params)}, options$$1, action);

      resource[name] = function () {
         return (self.$http || Http)(opts$2(action, arguments));
      };
   });

   return resource;
}

function opts$2(action, args) {

   var options$$1 = assign({}, action), params = {}, body;
```

```
    switch (args.length) {

      case 2:

        params = args[0];
        body = args[1];

        break;

      case 1:

        if (/^(POST|PUT|PATCH)$/i.test(options$$1.method)) {
          body = args[0];
        } else {
          params = args[0];
        }

        break;

      case 0:

        break;

      default:

        throw 'Expected up to 2 arguments [params, body], got ' + args.length + ' arguments';
    }

    options$$1.body = body;
    options$$1.params = assign({}, options$$1.params, params);

    return options$$1;
}

Resource.actions = {

    get: {method: 'GET'},
    save: {method: 'POST'},
    query: {method: 'GET'},
    update: {method: 'PUT'},
    remove: {method: 'DELETE'},
    delete: {method: 'DELETE'}

};
```

```
/**
 * Install plugin.
 */

function plugin(Vue) {

  if (plugin.installed) {
    return;
  }

  Util(Vue);

  Vue.url = Url;
  Vue.http = Http;
  Vue.resource = Resource;
  Vue.Promise = PromiseObj;

  Object.defineProperties(Vue.prototype, {

    $url: {
      get: function get() {
        return options(Vue.url, this, this.$options.url);
      }
    },

    $http: {
      get: function get() {
        return options(Vue.http, this, this.$options.http);
      }
    },

    $resource: {
      get: function get() {
        return Vue.resource.bind(this);
      }
    },

    $promise: {
      get: function get() {
        var this$1 = this;

        return function (executor) { return new Vue.Promise(executor, this$1); };
      }
    }

  });
```

```
}

if (typeof window !== 'undefined' && window.Vue) {
  window.Vue.use(plugin);
}

var sync = function (store, router, options) {
  var moduleName = (options || {}).moduleName || 'route';

  store.registerModule(moduleName, {
    namespaced: true,
    state: cloneRoute(router.currentRoute),
    mutations: {
      'ROUTE_CHANGED': function ROUTE_CHANGED (state, transition) {
        store.state[moduleName] = cloneRoute(transition.to, transition.from);
      }
    }
  });

  var isTimeTraveling = false;
  var currentPath;

  // sync router on store change
  var storeUnwatch = store.watch(
    function (state) { return state[moduleName]; },
    function (route) {
      var fullPath = route.fullPath;
      if (fullPath === currentPath) {
        return
      }
      if (currentPath != null) {
        isTimeTraveling = true;
        router.push(route);
      }
      currentPath = fullPath;
    },
    { sync: true }
  );

  // sync store on router navigation
  var afterEachUnHook = router.afterEach(function (to, from) {
    if (isTimeTraveling) {
      isTimeTraveling = false;
      return
    }
    currentPath = to.fullPath;
```

```
    store.commit(moduleName + '/ROUTE_CHANGED', { to: to, from: from });
  });

  return function unsync () {
    // On unsync, remove router hook
    if (afterEachUnHook != null) {
      afterEachUnHook();
    }

    // On unsync, remove store watch
    if (storeUnwatch != null) {
      storeUnwatch();
    }

    // On unsync, unregister Module with store
    store.unregisterModule(moduleName);
  }
};

function cloneRoute (to, from) {
  var clone = {
    name: to.name,
    path: to.path,
    hash: to.hash,
    query: to.query,
    params: to.params,
    fullPath: to.fullPath,
    meta: to.meta
  };
  if (from) {
    clone.from = cloneRoute(from);
  }
  return Object.freeze(clone)
}

/**
 * vuex v3.0.1
 * (c) 2017 Evan You
 * @license MIT
 */
var applyMixin = function (Vue) {
  var version$$1 = Number(Vue.version.split('.')[0]);

  if (version$$1 >= 2) {
    Vue.mixin({ beforeCreate: vuexInit });
  } else {
```

```
    // override init and inject vuex init procedure
    // for 1.x backwards compatibility.
    var _init = Vue.prototype._init;
    Vue.prototype._init = function (options) {
      if ( options === void 0 ) { options = {}; }

      options.init = options.init
        ? [vuexInit].concat(options.init)
        : vuexInit;
      _init.call(this, options);
    };
  }

  /**
   * Vuex init hook, injected into each instances init hooks list.
   */

  function vuexInit () {
    var options = this.$options;
    // store injection
    if (options.store) {
      this.$store = typeof options.store === 'function'
        ? options.store()
        : options.store;
    } else if (options.parent && options.parent.$store) {
      this.$store = options.parent.$store;
    }
  }
};

var devtoolHook =
  typeof window !== 'undefined' &&
  window.__VUE_DEVTOOLS_GLOBAL_HOOK__;

function devtoolPlugin (store) {
  if (!devtoolHook) { return }

  store._devtoolHook = devtoolHook;

  devtoolHook.emit('vuex:init', store);

  devtoolHook.on('vuex:travel-to-state', function (targetState) {
    store.replaceState(targetState);
  });

  store.subscribe(function (mutation, state) {
```

```
    devtoolHook.emit('vuex:mutation', mutation, state);
  });
}

/**
 * Get the first item that pass the test
 * by second argument function
 *
 * @param {Array} list
 * @param {Function} f
 * @return {*}
 */
/**
 * Deep copy the given object considering circular structure.
 * This function caches all nested objects and its copies.
 * If it detects circular structure, use cached copy to avoid infinite loop.
 *
 * @param {*} obj
 * @param {Array<Object>} cache
 * @return {*}
 */


/**
 * forEach for object
 */
function forEachValue (obj, fn) {
  Object.keys(obj).forEach(function (key) { return fn(obj[key], key); });
}

function isObject$3 (obj) {
  return obj !== null && typeof obj === 'object'
}

function isPromise (val) {
  return val && typeof val.then === 'function'
}

function assert (condition, msg) {
  if (!condition) { throw new Error(("[vuex] " + msg)) }
}

var Module = function Module (rawModule, runtime) {
  this.runtime = runtime;
  this._children = Object.create(null);
  this._rawModule = rawModule;
```

```
  var rawState = rawModule.state;
  this.state = (typeof rawState === 'function' ? rawState() : rawState) || {};
};

var prototypeAccessors$1$1 = { namespaced: { configurable: true } };

prototypeAccessors$1$1.namespaced.get = function () {
  return !!this._rawModule.namespaced
};

Module.prototype.addChild = function addChild (key, module) {
  this._children[key] = module;
};

Module.prototype.removeChild = function removeChild (key) {
  delete this._children[key];
};

Module.prototype.getChild = function getChild (key) {
  return this._children[key]
};

Module.prototype.update = function update (rawModule) {
  this._rawModule.namespaced = rawModule.namespaced;
  if (rawModule.actions) {
    this._rawModule.actions = rawModule.actions;
  }
  if (rawModule.mutations) {
    this._rawModule.mutations = rawModule.mutations;
  }
  if (rawModule.getters) {
    this._rawModule.getters = rawModule.getters;
  }
};

Module.prototype.forEachChild = function forEachChild (fn) {
  forEachValue(this._children, fn);
};

Module.prototype.forEachGetter = function forEachGetter (fn) {
  if (this._rawModule.getters) {
    forEachValue(this._rawModule.getters, fn);
  }
};

Module.prototype.forEachAction = function forEachAction (fn) {
```

```
  if (this._rawModule.actions) {
    forEachValue(this._rawModule.actions, fn);
  }
};

Module.prototype.forEachMutation = function forEachMutation (fn) {
  if (this._rawModule.mutations) {
    forEachValue(this._rawModule.mutations, fn);
  }
};

Object.defineProperties( Module.prototype, prototypeAccessors$1$1 );

var ModuleCollection = function ModuleCollection (rawRootModule) {
  // register root module (Vuex.Store options)
  this.register([], rawRootModule, false);
};

ModuleCollection.prototype.get = function get (path) {
  return path.reduce(function (module, key) {
    return module.getChild(key)
  }, this.root)
};

ModuleCollection.prototype.getNamespace = function getNamespace (path) {
  var module = this.root;
  return path.reduce(function (namespace, key) {
    module = module.getChild(key);
    return namespace + (module.namespaced ? key + '/' : '')
  }, '')
};

ModuleCollection.prototype.update = function update$1 (rawRootModule) {
  update([], this.root, rawRootModule);
};

ModuleCollection.prototype.register = function register (path, rawModule, runtime) {
    var this$1 = this;
    if ( runtime === void 0 ) { runtime = true; }

  if (process.env.NODE_ENV !== 'production') {
    assertRawModule(path, rawModule);
  }

  var newModule = new Module(rawModule, runtime);
  if (path.length === 0) {
```

```
    this.root = newModule;
  } else {
    var parent = this.get(path.slice(0, -1));
    parent.addChild(path[path.length - 1], newModule);
  }

  // register nested modules
  if (rawModule.modules) {
    forEachValue(rawModule.modules, function (rawChildModule, key) {
      this$1.register(path.concat(key), rawChildModule, runtime);
    });
  }
};

ModuleCollection.prototype.unregister = function unregister (path) {
  var parent = this.get(path.slice(0, -1));
  var key = path[path.length - 1];
  if (!parent.getChild(key).runtime) { return }

  parent.removeChild(key);
};

function update (path, targetModule, newModule) {
  if (process.env.NODE_ENV !== 'production') {
    assertRawModule(path, newModule);
  }

  // update target module
  targetModule.update(newModule);

  // update nested modules
  if (newModule.modules) {
    for (var key in newModule.modules) {
      if (!targetModule.getChild(key)) {
        if (process.env.NODE_ENV !== 'production') {
          console.warn(
            "[vuex] trying to add a new module '" + key + "' on hot reloading, " +
            'manual reload is needed'
          );
        }
        return
      }
      update(
        path.concat(key),
        targetModule.getChild(key),
        newModule.modules[key]
```

```
      );
    }
  }
}

var functionAssert = {
  assert: function (value) { return typeof value === 'function'; },
  expected: 'function'
};

var objectAssert = {
  assert: function (value) { return typeof value === 'function' ||
    (typeof value === 'object' && typeof value.handler === 'function'); },
  expected: 'function or object with "handler" function'
};

var assertTypes = {
  getters: functionAssert,
  mutations: functionAssert,
  actions: objectAssert
};

function assertRawModule (path, rawModule) {
  Object.keys(assertTypes).forEach(function (key) {
    if (!rawModule[key]) { return }

    var assertOptions = assertTypes[key];

    forEachValue(rawModule[key], function (value, type) {
      assert(
        assertOptions.assert(value),
        makeAssertionMessage(path, key, type, value, assertOptions.expected)
      );
    });
  });
}

function makeAssertionMessage (path, key, type, value, expected) {
  var buf = key + " should be " + expected + " but \"" + key + "." + type + "\"";
  if (path.length > 0) {
    buf += " in module \"" + (path.join('.')) + "\"";
  }
  buf += " is " + (JSON.stringify(value)) + ".";
  return buf
}
```

```
var Vue; // bind on install

var Store = function Store (options) {
  var this$1 = this;
  if ( options === void 0 ) { options = {}; }

  // Auto install if it is not done yet and `window` has `Vue`.
  // To allow users to avoid auto-installation in some cases,
  // this code should be placed here. See #731
  if (!Vue && typeof window !== 'undefined' && window.Vue) {
    install(window.Vue);
  }

  if (process.env.NODE_ENV !== 'production') {
    assert(Vue, "must call Vue.use(Vuex) before creating a store instance.");
    assert(typeof Promise !== 'undefined', "vuex requires a Promise polyfill in this browser.");
    assert(this instanceof Store, "Store must be called with the new operator.");
  }

  var plugins = options.plugins; if ( plugins === void 0 ) { plugins = []; }
  var strict = options.strict; if ( strict === void 0 ) { strict = false; }

  var state = options.state; if ( state === void 0 ) { state = {}; }
  if (typeof state === 'function') {
    state = state() || {};
  }

  // store internal state
  this._committing = false;
  this._actions = Object.create(null);
  this._actionSubscribers = [];
  this._mutations = Object.create(null);
  this._wrappedGetters = Object.create(null);
  this._modules = new ModuleCollection(options);
  this._modulesNamespaceMap = Object.create(null);
  this._subscribers = [];
  this._watcherVM = new Vue();

  // bind commit and dispatch to self
  var store = this;
  var ref = this;
  var dispatch = ref.dispatch;
  var commit = ref.commit;
  this.dispatch = function boundDispatch (type, payload) {
    return dispatch.call(store, type, payload)
  };
```

```
  this.commit = function boundCommit (type, payload, options) {
    return commit.call(store, type, payload, options)
  };

  // strict mode
  this.strict = strict;

  // init root module.
  // this also recursively registers all sub-modules
  // and collects all module getters inside this._wrappedGetters
  installModule(this, state, [], this._modules.root);

  // initialize the store vm, which is responsible for the reactivity
  // (also registers _wrappedGetters as computed properties)
  resetStoreVM(this, state);

  // apply plugins
  plugins.forEach(function (plugin) { return plugin(this$1); });

  if (Vue.config.devtools) {
    devtoolPlugin(this);
  }
};

var prototypeAccessors$2 = { state: { configurable: true } };

prototypeAccessors$2.state.get = function () {
  return this._vm._data.$$state
};

prototypeAccessors$2.state.set = function (v) {
  if (process.env.NODE_ENV !== 'production') {
    assert(false, "Use store.replaceState() to explicit replace store state.");
  }
};

Store.prototype.commit = function commit (_type, _payload, _options) {
    var this$1 = this;

  // check object-style commit
  var ref = unifyObjectStyle(_type, _payload, _options);
    var type = ref.type;
    var payload = ref.payload;
    var options = ref.options;

  var mutation = { type: type, payload: payload };
```

```
  var entry = this._mutations[type];
  if (!entry) {
    if (process.env.NODE_ENV !== 'production') {
      console.error(("[vuex] unknown mutation type: " + type));
    }
    return
  }
  this._withCommit(function () {
    entry.forEach(function commitIterator (handler) {
      handler(payload);
    });
  });
  this._subscribers.forEach(function (sub) { return sub(mutation, this$1.state); });

  if (
    process.env.NODE_ENV !== 'production' &&
    options && options.silent
  ) {
    console.warn(
      "[vuex] mutation type: " + type + ". Silent option has been removed. " +
      'Use the filter functionality in the vue-devtools'
    );
  }
};

Store.prototype.dispatch = function dispatch (_type, _payload) {
    var this$1 = this;

  // check object-style dispatch
  var ref = unifyObjectStyle(_type, _payload);
    var type = ref.type;
    var payload = ref.payload;

  var action = { type: type, payload: payload };
  var entry = this._actions[type];
  if (!entry) {
    if (process.env.NODE_ENV !== 'production') {
      console.error(("[vuex] unknown action type: " + type));
    }
    return
  }

  this._actionSubscribers.forEach(function (sub) { return sub(action, this$1.state); });

  return entry.length > 1
    ? Promise.all(entry.map(function (handler) { return handler(payload); }))
```

```
    : entry[0](payload)
};

Store.prototype.subscribe = function subscribe (fn) {
  return genericSubscribe(fn, this._subscribers)
};

Store.prototype.subscribeAction = function subscribeAction (fn) {
  return genericSubscribe(fn, this._actionSubscribers)
};

Store.prototype.watch = function watch (getter, cb, options) {
    var this$1 = this;

  if (process.env.NODE_ENV !== 'production') {
    assert(typeof getter === 'function', "store.watch only accepts a function.");
  }
  return this._watcherVM.$watch(function () { return getter(this$1.state, this$1.getters); }, cb,
          options)
};

Store.prototype.replaceState = function replaceState (state) {
    var this$1 = this;

  this._withCommit(function () {
    this$1._vm._data.$$state = state;
  });
};

Store.prototype.registerModule = function registerModule (path, rawModule, options) {
    if ( options === void 0 ) { options = {}; }

  if (typeof path === 'string') { path = [path]; }

  if (process.env.NODE_ENV !== 'production') {
    assert(Array.isArray(path), "module path must be a string or an Array.");
    assert(path.length > 0, 'cannot register the root module by using registerModule.');
  }

  this._modules.register(path, rawModule);
  installModule(this, this.state, path, this._modules.get(path), options.preserveState);
  // reset store to update getters...
  resetStoreVM(this, this.state);
};

Store.prototype.unregisterModule = function unregisterModule (path) {
```

```
    var this$1 = this;

  if (typeof path === 'string') { path = [path]; }

  if (process.env.NODE_ENV !== 'production') {
    assert(Array.isArray(path), "module path must be a string or an Array.");
  }

  this._modules.unregister(path);
  this._withCommit(function () {
    var parentState = getNestedState(this$1.state, path.slice(0, -1));
    Vue.delete(parentState, path[path.length - 1]);
  });
  resetStore(this);
};

Store.prototype.hotUpdate = function hotUpdate (newOptions) {
  this._modules.update(newOptions);
  resetStore(this, true);
};

Store.prototype._withCommit = function _withCommit (fn) {
  var committing = this._committing;
  this._committing = true;
  fn();
  this._committing = committing;
};

Object.defineProperties( Store.prototype, prototypeAccessors$2 );

function genericSubscribe (fn, subs) {
  if (subs.indexOf(fn) < 0) {
    subs.push(fn);
  }
  return function () {
    var i = subs.indexOf(fn);
    if (i > -1) {
      subs.splice(i, 1);
    }
  }
}

function resetStore (store, hot) {
  store._actions = Object.create(null);
  store._mutations = Object.create(null);
  store._wrappedGetters = Object.create(null);
```

```
  store._modulesNamespaceMap = Object.create(null);
  var state = store.state;
  // init all modules
  installModule(store, state, [], store._modules.root, true);
  // reset vm
  resetStoreVM(store, state, hot);
}

function resetStoreVM (store, state, hot) {
  var oldVm = store._vm;

  // bind store public getters
  store.getters = {};
  var wrappedGetters = store._wrappedGetters;
  var computed = {};
  forEachValue(wrappedGetters, function (fn, key) {
    // use computed to leverage its lazy-caching mechanism
    computed[key] = function () { return fn(store); };
    Object.defineProperty(store.getters, key, {
      get: function () { return store._vm[key]; },
      enumerable: true // for local getters
    });
  });

  // use a Vue instance to store the state tree
  // suppress warnings just in case the user has added
  // some funky global mixins
  var silent = Vue.config.silent;
  Vue.config.silent = true;
  store._vm = new Vue({
    data: {
      $$state: state
    },
    computed: computed
  });
  Vue.config.silent = silent;

  // enable strict mode for new vm
  if (store.strict) {
    enableStrictMode(store);
  }

  if (oldVm) {
    if (hot) {
      // dispatch changes in all subscribed watchers
      // to force getter re-evaluation for hot reloading.
```

```
      store._withCommit(function () {
        oldVm._data.$$state = null;
      });
    }
    Vue.nextTick(function () { return oldVm.$destroy(); });
  }
}

function installModule (store, rootState, path, module, hot) {
  var isRoot = !path.length;
  var namespace = store._modules.getNamespace(path);

  // register in namespace map
  if (module.namespaced) {
    store._modulesNamespaceMap[namespace] = module;
  }

  // set state
  if (!isRoot && !hot) {
    var parentState = getNestedState(rootState, path.slice(0, -1));
    var moduleName = path[path.length - 1];
    store._withCommit(function () {
      Vue.set(parentState, moduleName, module.state);
    });
  }

  var local = module.context = makeLocalContext(store, namespace, path);

  module.forEachMutation(function (mutation, key) {
    var namespacedType = namespace + key;
    registerMutation(store, namespacedType, mutation, local);
  });

  module.forEachAction(function (action, key) {
    var type = action.root ? key : namespace + key;
    var handler = action.handler || action;
    registerAction(store, type, handler, local);
  });

  module.forEachGetter(function (getter, key) {
    var namespacedType = namespace + key;
    registerGetter(store, namespacedType, getter, local);
  });

  module.forEachChild(function (child, key) {
    installModule(store, rootState, path.concat(key), child, hot);
```

```
  });
}

/**
 * make localized dispatch, commit, getters and state
 * if there is no namespace, just use root ones
 */
function makeLocalContext (store, namespace, path) {
  var noNamespace = namespace === '';

  var local = {
    dispatch: noNamespace ? store.dispatch : function (_type, _payload, _options) {
      var args = unifyObjectStyle(_type, _payload, _options);
      var payload = args.payload;
      var options = args.options;
      var type = args.type;

      if (!options || !options.root) {
        type = namespace + type;
        if (process.env.NODE_ENV !== 'production' && !store._actions[type]) {
          console.error(("[vuex] unknown local action type: " + (args.type) + ", global type: " +
            type));
          return
        }
      }

      return store.dispatch(type, payload)
    },

    commit: noNamespace ? store.commit : function (_type, _payload, _options) {
      var args = unifyObjectStyle(_type, _payload, _options);
      var payload = args.payload;
      var options = args.options;
      var type = args.type;

      if (!options || !options.root) {
        type = namespace + type;
        if (process.env.NODE_ENV !== 'production' && !store._mutations[type]) {
          console.error(("[vuex] unknown local mutation type: " + (args.type) + ", global type: " +
            type));
          return
        }
      }

      store.commit(type, payload, options);
    }
```

```
  };

  // getters and state object must be gotten lazily
  // because they will be changed by vm update
  Object.defineProperties(local, {
    getters: {
      get: noNamespace
        ? function () { return store.getters; }
        : function () { return makeLocalGetters(store, namespace); }
    },
    state: {
      get: function () { return getNestedState(store.state, path); }
    }
  });

  return local
}

function makeLocalGetters (store, namespace) {
  var gettersProxy = {};

  var splitPos = namespace.length;
  Object.keys(store.getters).forEach(function (type) {
    // skip if the target getter is not match this namespace
    if (type.slice(0, splitPos) !== namespace) { return }

    // extract local getter type
    var localType = type.slice(splitPos);

    // Add a port to the getters proxy.
    // Define as getter property because
    // we do not want to evaluate the getters in this time.
    Object.defineProperty(gettersProxy, localType, {
      get: function () { return store.getters[type]; },
      enumerable: true
    });
  });

  return gettersProxy
}

function registerMutation (store, type, handler, local) {
  var entry = store._mutations[type] || (store._mutations[type] = []);
  entry.push(function wrappedMutationHandler (payload) {
    handler.call(store, local.state, payload);
  });
```

```
}

function registerAction (store, type, handler, local) {
  var entry = store._actions[type] || (store._actions[type] = []);
  entry.push(function wrappedActionHandler (payload, cb) {
    var res = handler.call(store, {
      dispatch: local.dispatch,
      commit: local.commit,
      getters: local.getters,
      state: local.state,
      rootGetters: store.getters,
      rootState: store.state
    }, payload, cb);
    if (!isPromise(res)) {
      res = Promise.resolve(res);
    }
    if (store._devtoolHook) {
      return res.catch(function (err) {
        store._devtoolHook.emit('vuex:error', err);
        throw err
      })
    } else {
      return res
    }
  });
}

function registerGetter (store, type, rawGetter, local) {
  if (store._wrappedGetters[type]) {
    if (process.env.NODE_ENV !== 'production') {
      console.error(("[vuex] duplicate getter key: " + type));
    }
    return
  }
  store._wrappedGetters[type] = function wrappedGetter (store) {
    return rawGetter(
      local.state, // local state
      local.getters, // local getters
      store.state, // root state
      store.getters // root getters
    )
  };
}

function enableStrictMode (store) {
  store._vm.$watch(function () { return this._data.$$state }, function () {
```

```
    if (process.env.NODE_ENV !== 'production') {
      assert(store._committing, "Do not mutate vuex store state outside mutation handlers.");
    }
  }, { deep: true, sync: true });
}

function getNestedState (state, path) {
  return path.length
    ? path.reduce(function (state, key) { return state[key]; }, state)
    : state
}

function unifyObjectStyle (type, payload, options) {
  if (isObject$3(type) && type.type) {
    options = payload;
    payload = type;
    type = type.type;
  }

  if (process.env.NODE_ENV !== 'production') {
    assert(typeof type === 'string', ("Expects string as the type, but found " + (typeof type) + "."));
  }

  return { type: type, payload: payload, options: options }
}

function install (_Vue) {
  if (Vue && _Vue === Vue) {
    if (process.env.NODE_ENV !== 'production') {
      console.error(
        '[vuex] already installed. Vue.use(Vuex) should be called only once.'
      );
    }
    return
  }
  Vue = _Vue;
  applyMixin(Vue);
}

var mapState = normalizeNamespace(function (namespace, states) {
  var res = {};
  normalizeMap(states).forEach(function (ref) {
    var key = ref.key;
    var val = ref.val;

    res[key] = function mappedState () {
```

```
    var state = this.$store.state;
    var getters = this.$store.getters;
    if (namespace) {
      var module = getModuleByNamespace(this.$store, 'mapState', namespace);
      if (!module) {
        return
      }
      state = module.context.state;
      getters = module.context.getters;
    }
    return typeof val === 'function'
      ? val.call(this, state, getters)
      : state[val]
  };
  // mark vuex getter for devtools
  res[key].vuex = true;
});
return res
});

var mapMutations = normalizeNamespace(function (namespace, mutations) {
  var res = {};
  normalizeMap(mutations).forEach(function (ref) {
    var key = ref.key;
    var val = ref.val;

    res[key] = function mappedMutation () {
      var arguments$1 = arguments;

      var args = [], len = arguments.length;
      while ( len-- ) { args[ len ] = arguments$1[ len ]; }

      var commit = this.$store.commit;
      if (namespace) {
        var module = getModuleByNamespace(this.$store, 'mapMutations', namespace);
        if (!module) {
          return
        }
        commit = module.context.commit;
      }
      return typeof val === 'function'
        ? val.apply(this, [commit].concat(args))
        : commit.apply(this.$store, [val].concat(args))
    };
  });
  return res
```

```
});

var mapGetters = normalizeNamespace(function (namespace, getters) {
  var res = {};
  normalizeMap(getters).forEach(function (ref) {
    var key = ref.key;
    var val = ref.val;

    val = namespace + val;
    res[key] = function mappedGetter () {
      if (namespace && !getModuleByNamespace(this.$store, 'mapGetters', namespace)) {
        return
      }
      if (process.env.NODE_ENV !== 'production' && !(val in this.$store.getters)) {
        console.error(("[vuex] unknown getter: " + val));
        return
      }
      return this.$store.getters[val]
    };
    // mark vuex getter for devtools
    res[key].vuex = true;
  });
  return res
});

var mapActions = normalizeNamespace(function (namespace, actions) {
  var res = {};
  normalizeMap(actions).forEach(function (ref) {
    var key = ref.key;
    var val = ref.val;

    res[key] = function mappedAction () {
      var arguments$1 = arguments;

      var args = [], len = arguments.length;
      while ( len-- ) { args[ len ] = arguments$1[ len ]; }

      var dispatch = this.$store.dispatch;
      if (namespace) {
        var module = getModuleByNamespace(this.$store, 'mapActions', namespace);
        if (!module) {
          return
        }
        dispatch = module.context.dispatch;
      }
      return typeof val === 'function'
```

```
      ? val.apply(this, [dispatch].concat(args))
      : dispatch.apply(this.$store, [val].concat(args))
    };
  });
  return res
});

var createNamespacedHelpers = function (namespace) { return ({
  mapState: mapState.bind(null, namespace),
  mapGetters: mapGetters.bind(null, namespace),
  mapMutations: mapMutations.bind(null, namespace),
  mapActions: mapActions.bind(null, namespace)
}); };

function normalizeMap (map) {
  return Array.isArray(map)
    ? map.map(function (key) { return ({ key: key, val: key }); })
    : Object.keys(map).map(function (key) { return ({ key: key, val: map[key] }); })
}

function normalizeNamespace (fn) {
  return function (namespace, map) {
    if (typeof namespace !== 'string') {
      map = namespace;
      namespace = '';
    } else if (namespace.charAt(namespace.length - 1) !== '/') {
      namespace += '/';
    }
    return fn(namespace, map)
  }
}

function getModuleByNamespace (store, helper, namespace) {
  var module = store._modulesNamespaceMap[namespace];
  if (process.env.NODE_ENV !== 'production' && !module) {
    console.error(("[vuex] module namespace not found in " + helper + "(): " + namespace));
  }
  return module
}

var index_esm = {
  Store: Store,
  install: install,
  version: '3.0.1',
  mapState: mapState,
  mapMutations: mapMutations,
```

```
  mapGetters: mapGetters,
  mapActions: mapActions,
  createNamespacedHelpers: createNamespacedHelpers
};

Vue$3.use(index_esm);
Vue$3.use(plugin);

var store = new index_esm.Store({
   state: {
      baseLayer: null,
      overlayMap: null,
      overlayMapOpacity: 0.75,
      markerType: 'pin',

      selectedPlace: null,
      passagePaneOpen: false,
      activeDetailTab: "tab-passages",
      showGenesis: false
   },
   getters: {
      baseLayer: function (state) { return state.baseLayer || mapConfig.baseLayers[0]; },
      overlayMap: function (state) { return state.overlayMap || mapConfig.overlayMaps[0]; },

      markerType: function (state) { return state.markerType; },

      selectedPlace: function (state) {
         return state.selectedPlace || placeData.find(function (place) { return place["Place"] ===
         state.route.hash.substring(1); })
      },
      passagePaneOpen: function (state) { return state.passagePaneOpen; },
      activeDetailTab: function (state) { return state.activeDetailTab; },
      showGenesis: function (state) { return state.showGenesis; },

      overlayMapOpacity: function (state) { return state.overlayMapOpacity; }
   },
   mutations: {
         setBaseLayer: function (state, layerID) { return state.baseLayer = layerID; },
         setOverlayMap: function (state, mapID) { return state.overlayMap = mapID; },
      setMarkerType: function (state, type) { return state.markerType = type; },

         setSelectedPlace: function (state, place) { return state.selectedPlace = place; },
         setPassagePaneOpen: function (state, open) { return state.passagePaneOpen = open; },
      setActiveDetailTab: function (state, id) { return state.activeDetailTab = id; },
         setShowGenesis: function (state, show) { return state.showGenesis = show; },
```

```
        setOverlayMapOpacity: function (state, opacity) { return state.overlayMapOpacity =
        opacity; }

    },
    actions: {
        unselectPlace: function (context) {
        context.commit('setSelectedPlace', null);
        context.commit('setPassagePaneOpen', false);
        },
      showPassages: function (context) {
        context.commit('setPassagePaneOpen', true);
        context.commit('setActiveDetailTab', "tab-passages");
      },
      showRelated: function (context) {
        context.commit('setPassagePaneOpen', true);
        context.commit('setActiveDetailTab', "tab-related");
      }
    }
})

/**
  * vue-router v3.0.1
  * (c) 2017 Evan You
  * @license MIT
  */
/*  */

function assert$1 (condition, message) {
  if (!condition) {
    throw new Error(("[vue-router] " + message))
  }
}

function warn$3 (condition, message) {
  if (process.env.NODE_ENV !== 'production' && !condition) {
    typeof console !== 'undefined' && console.warn(("[vue-router] " + message));
  }
}

function isError (err) {
  return Object.prototype.toString.call(err).indexOf('Error') > -1
}

var View = {
  name: 'router-view',
  functional: true,
```

```
props: {
  name: {
    type: String,
    default: 'default'
  }
},
render: function render (_, ref) {
  var props = ref.props;
  var children = ref.children;
  var parent = ref.parent;
  var data = ref.data;

  data.routerView = true;

  // directly use parent context's createElement() function
  // so that components rendered by router-view can resolve named slots
  var h = parent.$createElement;
  var name = props.name;
  var route = parent.$route;
  var cache = parent._routerViewCache || (parent._routerViewCache = {});

  // determine current view depth, also check to see if the tree
  // has been toggled inactive but kept-alive.
  var depth = 0;
  var inactive = false;
  while (parent && parent._routerRoot !== parent) {
    if (parent.$vnode && parent.$vnode.data.routerView) {
      depth++;
    }
    if (parent._inactive) {
      inactive = true;
    }
    parent = parent.$parent;
  }
  data.routerViewDepth = depth;

  // render previous view if the tree is inactive and kept-alive
  if (inactive) {
    return h(cache[name], data, children)
  }

  var matched = route.matched[depth];
  // render empty node if no matched route
  if (!matched) {
    cache[name] = null;
    return h()
```

```
    }

    var component = cache[name] = matched.components[name];

    // attach instance registration hook
    // this will be called in the instance's injected lifecycle hooks
    data.registerRouteInstance = function (vm, val) {
      // val could be undefined for unregistration
      var current = matched.instances[name];
      if (
        (val && current !== vm) ||
        (!val && current === vm)
      ) {
        matched.instances[name] = val;
      }
    }

    // also register instance in prepatch hook
    // in case the same component instance is reused across different routes
    ;(data.hook || (data.hook = {})).prepatch = function (_, vnode) {
      matched.instances[name] = vnode.componentInstance;
    };

    // resolve props
    var propsToPass = data.props = resolveProps(route, matched.props &&
          matched.props[name]);
    if (propsToPass) {
      // clone to prevent mutation
      propsToPass = data.props = extend$3({}, propsToPass);
      // pass non-declared props as attrs
      var attrs = data.attrs = data.attrs || {};
      for (var key in propsToPass) {
        if (!component.props || !(key in component.props)) {
          attrs[key] = propsToPass[key];
          delete propsToPass[key];
        }
      }
    }

    return h(component, data, children)
  }
};

function resolveProps (route, config$$1) {
  switch (typeof config$$1) {
    case 'undefined':
```

```
      return
    case 'object':
      return config$$1
    case 'function':
      return config$$1(route)
    case 'boolean':
      return config$$1 ? route.params : undefined
    default:
      if (process.env.NODE_ENV !== 'production') {
        warn$3(
          false,
          "props in \"" + (route.path) + "\" is a " + (typeof config$$1) + ", " +
          "expecting an object, function or boolean."
        );
      }
  }
}

function extend$3 (to, from) {
  for (var key in from) {
    to[key] = from[key];
  }
  return to
}

/*  */

var encodeReserveRE = /[!'()*]/g;
var encodeReserveReplacer = function (c) { return '%' + c.charCodeAt(0).toString(16); };
var commaRE = /%2C/g;

// fixed encodeURIComponent which is more conformant to RFC3986:
// - escapes [!'()*]
// - preserve commas
var encode = function (str) { return encodeURIComponent(str)
  .replace(encodeReserveRE, encodeReserveReplacer)
  .replace(commaRE, ','); };

var decode = decodeURIComponent;

function resolveQuery (
  query,
  extraQuery,
  _parseQuery
) {
  if ( extraQuery === void 0 ) { extraQuery = {}; }
```

```
  var parse = _parseQuery || parseQuery;
  var parsedQuery;
  try {
    parsedQuery = parse(query || '');
  } catch (e) {
    process.env.NODE_ENV !== 'production' && warn$3(false, e.message);
    parsedQuery = {};
  }
  for (var key in extraQuery) {
    parsedQuery[key] = extraQuery[key];
  }
  return parsedQuery
}

function parseQuery (query) {
  var res = {};

  query = query.trim().replace(/^(\?|#|&)/, '');

  if (!query) {
    return res
  }

  query.split('&').forEach(function (param) {
    var parts = param.replace(/\+/g, ' ').split('=');
    var key = decode(parts.shift());
    var val = parts.length > 0
      ? decode(parts.join('='))
      : null;

    if (res[key] === undefined) {
      res[key] = val;
    } else if (Array.isArray(res[key])) {
      res[key].push(val);
    } else {
      res[key] = [res[key], val];
    }
  });

  return res
}

function stringifyQuery (obj) {
  var res = obj ? Object.keys(obj).map(function (key) {
    var val = obj[key];
```

```
    if (val === undefined) {
      return ''
    }

    if (val === null) {
      return encode(key)
    }

    if (Array.isArray(val)) {
      var result = [];
      val.forEach(function (val2) {
        if (val2 === undefined) {
          return
        }
        if (val2 === null) {
          result.push(encode(key));
        } else {
          result.push(encode(key) + '=' + encode(val2));
        }
      });
      return result.join('&')
    }

    return encode(key) + '=' + encode(val)
  }).filter(function (x) { return x.length > 0; }).join('&') : null;
  return res ? ("?" + res) : ''
}

/*  */


var trailingSlashRE = /\/?$/;

function createRoute (
  record,
  location,
  redirectedFrom,
  router
) {
  var stringifyQuery$$1 = router && router.options.stringifyQuery;

  var query = location.query || {};
  try {
    query = clone(query);
  } catch (e) {}
```

```
  var route = {
    name: location.name || (record && record.name),
    meta: (record && record.meta) || {},
    path: location.path || '/',
    hash: location.hash || '',
    query: query,
    params: location.params || {},
    fullPath: getFullPath(location, stringifyQuery$$1),
    matched: record ? formatMatch(record) : []
  };
  if (redirectedFrom) {
    route.redirectedFrom = getFullPath(redirectedFrom, stringifyQuery$$1);
  }
  return Object.freeze(route)
}

function clone (value) {
  if (Array.isArray(value)) {
    return value.map(clone)
  } else if (value && typeof value === 'object') {
    var res = {};
    for (var key in value) {
      res[key] = clone(value[key]);
    }
    return res
  } else {
    return value
  }
}

// the starting route that represents the initial state
var START = createRoute(null, {
  path: '/'
});

function formatMatch (record) {
  var res = [];
  while (record) {
    res.unshift(record);
    record = record.parent;
  }
  return res
}

function getFullPath (
```

```
  ref,
  _stringifyQuery
) {
  var path = ref.path;
  var query = ref.query; if ( query === void 0 ) { query = {}; }
  var hash = ref.hash; if ( hash === void 0 ) { hash = ''; }

  var stringify = _stringifyQuery || stringifyQuery;
  return (path || '/') + stringify(query) + hash
}

function isSameRoute (a, b) {
  if (b === START) {
    return a === b
  } else if (!b) {
    return false
  } else if (a.path && b.path) {
    return (
      a.path.replace(trailingSlashRE, '') === b.path.replace(trailingSlashRE, '') &&
      a.hash === b.hash &&
      isObjectEqual(a.query, b.query)
    )
  } else if (a.name && b.name) {
    return (
      a.name === b.name &&
      a.hash === b.hash &&
      isObjectEqual(a.query, b.query) &&
      isObjectEqual(a.params, b.params)
    )
  } else {
    return false
  }
}

function isObjectEqual (a, b) {
  if ( a === void 0 ) { a = {}; }
  if ( b === void 0 ) { b = {}; }

  // handle null value #1566
  if (!a || !b) { return a === b }
  var aKeys = Object.keys(a);
  var bKeys = Object.keys(b);
  if (aKeys.length !== bKeys.length) {
    return false
  }
  return aKeys.every(function (key) {
```

```
    var aVal = a[key];
    var bVal = b[key];
    // check nested equality
    if (typeof aVal === 'object' && typeof bVal === 'object') {
      return isObjectEqual(aVal, bVal)
    }
    return String(aVal) === String(bVal)
  })
}

function isIncludedRoute (current, target) {
  return (
    current.path.replace(trailingSlashRE, '/').indexOf(
      target.path.replace(trailingSlashRE, '/')
    ) === 0 &&
    (!target.hash || current.hash === target.hash) &&
    queryIncludes(current.query, target.query)
  )
}

function queryIncludes (current, target) {
  for (var key in target) {
    if (!(key in current)) {
      return false
    }
  }
  return true
}

/*  */

// work around weird flow bug
var toTypes = [String, Object];
var eventTypes = [String, Array];

var Link = {
  name: 'router-link',
  props: {
    to: {
      type: toTypes,
      required: true
    },
    tag: {
      type: String,
      default: 'a'
    },
```

```
  exact: Boolean,
  append: Boolean,
  replace: Boolean,
  activeClass: String,
  exactActiveClass: String,
  event: {
    type: eventTypes,
    default: 'click'
  }
},
render: function render (h) {
  var this$1 = this;

  var router = this.$router;
  var current = this.$route;
  var ref = router.resolve(this.to, current, this.append);
  var location = ref.location;
  var route = ref.route;
  var href = ref.href;

  var classes = {};
  var globalActiveClass = router.options.linkActiveClass;
  var globalExactActiveClass = router.options.linkExactActiveClass;
  // Support global empty active class
  var activeClassFallback = globalActiveClass == null
          ? 'router-link-active'
          : globalActiveClass;
  var exactActiveClassFallback = globalExactActiveClass == null
          ? 'router-link-exact-active'
          : globalExactActiveClass;
  var activeClass = this.activeClass == null
          ? activeClassFallback
          : this.activeClass;
  var exactActiveClass = this.exactActiveClass == null
          ? exactActiveClassFallback
          : this.exactActiveClass;
  var compareTarget = location.path
    ? createRoute(null, location, null, router)
    : route;

  classes[exactActiveClass] = isSameRoute(current, compareTarget);
  classes[activeClass] = this.exact
    ? classes[exactActiveClass]
    : isIncludedRoute(current, compareTarget);

  var handler = function (e) {
```

```
      if (guardEvent(e)) {
        if (this$1.replace) {
          router.replace(location);
        } else {
          router.push(location);
        }
      }
    };

    var on$$1 = { click: guardEvent };
    if (Array.isArray(this.event)) {
      this.event.forEach(function (e) { on$$1[e] = handler; });
    } else {
      on$$1[this.event] = handler;
    }

    var data = {
      class: classes
    };

    if (this.tag === 'a') {
      data.on = on$$1;
      data.attrs = { href: href };
    } else {
      // find the first <a> child and apply listener and href
      var a = findAnchor(this.$slots.default);
      if (a) {
        // in case the <a> is a static node
        a.isStatic = false;
        var extend = _Vue.util.extend;
        var aData = a.data = extend({}, a.data);
        aData.on = on$$1;
        var aAttrs = a.data.attrs = extend({}, a.data.attrs);
        aAttrs.href = href;
      } else {
        // doesn't have <a> child, apply listener to self
        data.on = on$$1;
      }
    }

    return h(this.tag, data, this.$slots.default)
  }
};

function guardEvent (e) {
  // don't redirect with control keys
```

```
  if (e.metaKey || e.altKey || e.ctrlKey || e.shiftKey) { return }
  // don't redirect when preventDefault called
  if (e.defaultPrevented) { return }
  // don't redirect on right click
  if (e.button !== undefined && e.button !== 0) { return }
  // don't redirect if `target="_blank"`
  if (e.currentTarget && e.currentTarget.getAttribute) {
    var target = e.currentTarget.getAttribute('target');
    if (/\b_blank\b/i.test(target)) { return }
  }
  // this may be a Weex event which doesn't have this method
  if (e.preventDefault) {
    e.preventDefault();
  }
  return true
}

function findAnchor (children) {
  if (children) {
    var child;
    for (var i = 0; i < children.length; i++) {
      child = children[i];
      if (child.tag === 'a') {
        return child
      }
      if (child.children && (child = findAnchor(child.children))) {
        return child
      }
    }
  }
}

var _Vue;

function install$1 (Vue) {
  if (install$1.installed && _Vue === Vue) { return }
  install$1.installed = true;

  _Vue = Vue;

  var isDef = function (v) { return v !== undefined; };

  var registerInstance = function (vm, callVal) {
    var i = vm.$options._parentVnode;
    if (isDef(i) && isDef(i = i.data) && isDef(i = i.registerRouteInstance)) {
      i(vm, callVal);
```

```
  }
};

Vue.mixin({
  beforeCreate: function beforeCreate () {
    if (isDef(this.$options.router)) {
      this._routerRoot = this;
      this._router = this.$options.router;
      this._router.init(this);
      Vue.util.defineReactive(this, '_route', this._router.history.current);
    } else {
      this._routerRoot = (this.$parent && this.$parent._routerRoot) || this;
    }
    registerInstance(this, this);
  },
  destroyed: function destroyed () {
    registerInstance(this);
  }
});

Object.defineProperty(Vue.prototype, '$router', {
  get: function get () { return this._routerRoot._router }
});

Object.defineProperty(Vue.prototype, '$route', {
  get: function get () { return this._routerRoot._route }
});

Vue.component('router-view', View);
Vue.component('router-link', Link);

var strats = Vue.config.optionMergeStrategies;
// use the same hook merging strategy for route hooks
strats.beforeRouteEnter = strats.beforeRouteLeave = strats.beforeRouteUpdate = strats.created;
}

/*  */

var inBrowser$3 = typeof window !== 'undefined';

/*  */

function resolvePath (
  relative,
  base,
  append
```

```
) {
  var firstChar = relative.charAt(0);
  if (firstChar === '/') {
    return relative
  }

  if (firstChar === '?' || firstChar === '#') {
    return base + relative
  }

  var stack = base.split('/');

  // remove trailing segment if:
  // - not appending
  // - appending to trailing slash (last segment is empty)
  if (!append || !stack[stack.length - 1]) {
    stack.pop();
  }

  // resolve relative path
  var segments = relative.replace(/^\//, '').split('/');
  for (var i = 0; i < segments.length; i++) {
    var segment = segments[i];
    if (segment === '..') {
      stack.pop();
    } else if (segment !== '.') {
      stack.push(segment);
    }
  }

  // ensure leading slash
  if (stack[0] !== '') {
    stack.unshift('');
  }

  return stack.join('/')
}

function parsePath$2 (path) {
  var hash = '';
  var query = '';

  var hashIndex = path.indexOf('#');
  if (hashIndex >= 0) {
    hash = path.slice(hashIndex);
    path = path.slice(0, hashIndex);
```

```
  }

  var queryIndex = path.indexOf('?');
  if (queryIndex >= 0) {
    query = path.slice(queryIndex + 1);
    path = path.slice(0, queryIndex);
  }

  return {
    path: path,
    query: query,
    hash: hash
  }
}

function cleanPath (path) {
  return path.replace(/\/\//g, '/')
}

var isarray = Array.isArray || function (arr) {
  return Object.prototype.toString.call(arr) == '[object Array]';
};

/**
 * Expose `pathToRegexp`.
 */
var pathToRegexp_1 = pathToRegexp;
var parse_1 = parse$1;
var compile_1 = compile;
var tokensToFunction_1 = tokensToFunction;
var tokensToRegExp_1 = tokensToRegExp;

/**
 * The main path matching regexp utility.
 *
 * @type {RegExp}
 */
var PATH_REGEXP = new RegExp([
  // Match escaped characters that would otherwise appear in future matches.
  // This allows the user to escape special characters that won't transform.
  '(\\\\.)',
  // Match Express-style parameters and un-named parameters with a prefix
  // and optional suffixes. Matches appear as:
  //
  // "/:test(\\d+)?" => ["/", "test", "\d+", undefined, "?", undefined]
  // "/route(\\d+)"  => [undefined, undefined, undefined, "\d+", undefined, undefined]
```

```
  // "/*"            => ["/", undefined, undefined, undefined, undefined, "*"]
  '([\\/.])?(?:(?:\\:(\\w+)(?:\\(((?:\\\\.|[^\\\\()])+)\\))?|\\(((?:\\\\.|[^\\\\()])+)\\))([+*?])?|(\\*))'
].join('|'), 'g');

/**
 * Parse a string for the raw tokens.
 *
 * @param  {string}  str
 * @param  {Object=} options
 * @return {!Array}
 */
function parse$1 (str, options) {
  var tokens = [];
  var key = 0;
  var index = 0;
  var path = '';
  var defaultDelimiter = options && options.delimiter || '/';
  var res;

  while ((res = PATH_REGEXP.exec(str)) != null) {
    var m = res[0];
    var escaped = res[1];
    var offset = res.index;
    path += str.slice(index, offset);
    index = offset + m.length;

    // Ignore already escaped sequences.
    if (escaped) {
      path += escaped[1];
      continue
    }

    var next = str[index];
    var prefix = res[2];
    var name = res[3];
    var capture = res[4];
    var group = res[5];
    var modifier = res[6];
    var asterisk = res[7];

    // Push the current path onto the tokens.
    if (path) {
      tokens.push(path);
      path = '';
    }
```

```
    var partial = prefix != null && next != null && next !== prefix;
    var repeat = modifier === '+' || modifier === '*';
    var optional = modifier === '?' || modifier === '*';
    var delimiter = res[2] || defaultDelimiter;
    var pattern = capture || group;

    tokens.push({
      name: name || key++,
      prefix: prefix || '',
      delimiter: delimiter,
      optional: optional,
      repeat: repeat,
      partial: partial,
      asterisk: !!asterisk,
      pattern: pattern ? escapeGroup(pattern) : (asterisk ? '.*' : '[^' + escapeString(delimiter) + ']+?')
    });
  }

  // Match any characters still remaining.
  if (index < str.length) {
    path += str.substr(index);
  }

  // If the path exists, push it onto the end.
  if (path) {
    tokens.push(path);
  }

  return tokens
}

/**
 * Compile a string to a template function for the path.
 *
 * @param  {string}             str
 * @param  {Object=}            options
 * @return {!function(Object=, Object=)}
 */
function compile (str, options) {
  return tokensToFunction(parse$1(str, options))
}

/**
 * Prettier encoding of URI path segments.
 *
 * @param  {string}
```

```
 * @return {string}
 */
function encodeURIComponentPretty (str) {
  return encodeURI(str).replace(/[\/?#]/g, function (c) {
    return '%' + c.charCodeAt(0).toString(16).toUpperCase()
  })
}

/**
 * Encode the asterisk parameter. Similar to `pretty`, but allows slashes.
 *
 * @param  {string}
 * @return {string}
 */
function encodeAsterisk (str) {
  return encodeURI(str).replace(/[?#]/g, function (c) {
    return '%' + c.charCodeAt(0).toString(16).toUpperCase()
  })
}

/**
 * Expose a method for transforming tokens into the path function.
 */
function tokensToFunction (tokens) {
  // Compile all the tokens into regexps.
  var matches = new Array(tokens.length);

  // Compile all the patterns before compilation.
  for (var i = 0; i < tokens.length; i++) {
    if (typeof tokens[i] === 'object') {
      matches[i] = new RegExp('^(?:' + tokens[i].pattern + ')$');
    }
  }

  return function (obj, opts) {
    var path = '';
    var data = obj || {};
    var options = opts || {};
    var encode = options.pretty ? encodeURIComponentPretty : encodeURIComponent;

    for (var i = 0; i < tokens.length; i++) {
      var token = tokens[i];

      if (typeof token === 'string') {
        path += token;
```

```
  continue
}

var value = data[token.name];
var segment;

if (value == null) {
  if (token.optional) {
    // Prepend partial segment prefixes.
    if (token.partial) {
      path += token.prefix;
    }

    continue
  } else {
    throw new TypeError('Expected "' + token.name + '" to be defined')
  }
}

if (isarray(value)) {
  if (!token.repeat) {
    throw new TypeError('Expected "' + token.name + '" to not repeat, but received `' +
      JSON.stringify(value) + '`')
  }

  if (value.length === 0) {
    if (token.optional) {
      continue
    } else {
      throw new TypeError('Expected "' + token.name + '" to not be empty')
    }
  }

  for (var j = 0; j < value.length; j++) {
    segment = encode(value[j]);

    if (!matches[i].test(segment)) {
      throw new TypeError('Expected all "' + token.name + '" to match "' + token.pattern + '",
      but received `' + JSON.stringify(segment) + '`')
    }

    path += (j === 0 ? token.prefix : token.delimiter) + segment;
  }

  continue
}
```

```
      segment = token.asterisk ? encodeAsterisk(value) : encode(value);

      if (!matches[i].test(segment)) {
        throw new TypeError('Expected "' + token.name + '" to match "' + token.pattern + '", but
            received "' + segment + '"')
      }

      path += token.prefix + segment;
    }

    return path
  }
}

/**
 * Escape a regular expression string.
 *
 * @param  {string} str
 * @return {string}
 */
function escapeString (str) {
  return str.replace(/([.+*?=^!:${}()[\]|\/\\])/g, '\\$1')
}

/**
 * Escape the capturing group by escaping special characters and meaning.
 *
 * @param  {string} group
 * @return {string}
 */
function escapeGroup (group) {
  return group.replace(/([=!:$\/()])/g, '\\$1')
}

/**
 * Attach the keys as a property of the regexp.
 *
 * @param  {!RegExp} re
 * @param  {Array}   keys
 * @return {!RegExp}
 */
function attachKeys (re, keys) {
  re.keys = keys;
  return re
}
```

```
/**
 * Get the flags for a regexp from the options.
 *
 * @param  {Object} options
 * @return {string}
 */
function flags (options) {
  return options.sensitive ? '' : 'i'
}

/**
 * Pull out keys from a regexp.
 *
 * @param  {!RegExp} path
 * @param  {!Array}  keys
 * @return {!RegExp}
 */
function regexpToRegexp (path, keys) {
  // Use a negative lookahead to match only capturing groups.
  var groups = path.source.match(/\((?!\?)/g);

  if (groups) {
    for (var i = 0; i < groups.length; i++) {
      keys.push({
        name: i,
        prefix: null,
        delimiter: null,
        optional: false,
        repeat: false,
        partial: false,
        asterisk: false,
        pattern: null
      });
    }
  }

  return attachKeys(path, keys)
}

/**
 * Transform an array into a regexp.
 *
 * @param  {!Array}  path
 * @param  {Array}   keys
 * @param  {!Object} options
```

```
 * @return {!RegExp}
 */
function arrayToRegexp (path, keys, options) {
  var parts = [];

  for (var i = 0; i < path.length; i++) {
    parts.push(pathToRegexp(path[i], keys, options).source);
  }

  var regexp = new RegExp('(?:' + parts.join('|') + ')', flags(options));

  return attachKeys(regexp, keys)
}

/**
 * Create a path regexp from string input.
 *
 * @param  {string}  path
 * @param  {!Array}  keys
 * @param  {!Object} options
 * @return {!RegExp}
 */
function stringToRegexp (path, keys, options) {
  return tokensToRegExp(parse$1(path, options), keys, options)
}

/**
 * Expose a function for taking tokens and returning a RegExp.
 *
 * @param  {!Array}          tokens
 * @param  {(Array|Object)=} keys
 * @param  {Object=}         options
 * @return {!RegExp}
 */
function tokensToRegExp (tokens, keys, options) {
  if (!isarray(keys)) {
    options = /** @type {!Object} */ (keys || options);
    keys = [];
  }

  options = options || {};

  var strict = options.strict;
  var end = options.end !== false;
  var route = '';
```

```
// Iterate over the tokens and create our regexp string.
for (var i = 0; i < tokens.length; i++) {
  var token = tokens[i];

  if (typeof token === 'string') {
    route += escapeString(token);
  } else {
    var prefix = escapeString(token.prefix);
    var capture = '(?:' + token.pattern + ')';

    keys.push(token);

    if (token.repeat) {
      capture += '(?:' + prefix + capture + ')*';
    }

    if (token.optional) {
      if (!token.partial) {
        capture = '(?:' + prefix + '(' + capture + '))?';
      } else {
        capture = prefix + '(' + capture + ')?';
      }
    } else {
      capture = prefix + '(' + capture + ')';
    }

    route += capture;
  }
}

var delimiter = escapeString(options.delimiter || '/');
var endsWithDelimiter = route.slice(-delimiter.length) === delimiter;

// In non-strict mode we allow a slash at the end of match. If the path to
// match already ends with a slash, we remove it for consistency. The slash
// is valid at the end of a path match, not in the middle. This is important
// in non-ending mode, where "/test/" shouldn't match "/test//route".
if (!strict) {
  route = (endsWithDelimiter ? route.slice(0, -delimiter.length) : route) + '(?:' + delimiter +
        '(?=$))?';
}

if (end) {
  route += '$';
} else {
  // In non-ending mode, we need the capturing groups to match as much as
```

```
    // possible by using a positive lookahead to the end or next path segment.
    route += strict && endsWithDelimiter ? '' : '(?=' + delimiter + '|$)';
  }

  return attachKeys(new RegExp('^' + route, flags(options)), keys)
}

/**
 * Normalize the given path string, returning a regular expression.
 *
 * An empty array can be passed in for the keys, which will hold the
 * placeholder key descriptions. For example, using `/user/:id`, `keys` will
 * contain `[{ name: 'id', delimiter: '/', optional: false, repeat: false }]`.
 *
 * @param  {(string|RegExp|Array)} path
 * @param  {(Array|Object)=}       keys
 * @param  {Object=}               options
 * @return {!RegExp}
 */
function pathToRegexp (path, keys, options) {
  if (!isarray(keys)) {
    options = /** @type {!Object} */ (keys || options);
    keys = [];
  }

  options = options || {};

  if (path instanceof RegExp) {
    return regexpToRegexp(path, /** @type {!Array} */ (keys))
  }

  if (isarray(path)) {
    return arrayToRegexp(/** @type {!Array} */ (path), /** @type {!Array} */ (keys), options)
  }

  return stringToRegexp(/** @type {string} */ (path), /** @type {!Array} */ (keys), options)
}

pathToRegexp_1.parse = parse_1;
pathToRegexp_1.compile = compile_1;
pathToRegexp_1.tokensToFunction = tokensToFunction_1;
pathToRegexp_1.tokensToRegExp = tokensToRegExp_1;

/*  */

// $flow-disable-line
```

```
var regexpCompileCache = Object.create(null);

function fillParams (
  path,
  params,
  routeMsg
) {
  try {
    var filler =
      regexpCompileCache[path] ||
      (regexpCompileCache[path] = pathToRegexp_1.compile(path));
    return filler(params || {}, { pretty: true })
  } catch (e) {
    if (process.env.NODE_ENV !== 'production') {
      warn$3(false, ("missing param for " + routeMsg + ": " + (e.message)));
    }
    return ''
  }
}

/*  */

function createRouteMap (
  routes,
  oldPathList,
  oldPathMap,
  oldNameMap
) {
  // the path list is used to control path matching priority
  var pathList = oldPathList || [];
  // $flow-disable-line
  var pathMap = oldPathMap || Object.create(null);
  // $flow-disable-line
  var nameMap = oldNameMap || Object.create(null);

  routes.forEach(function (route) {
    addRouteRecord(pathList, pathMap, nameMap, route);
  });

  // ensure wildcard routes are always at the end
  for (var i = 0, l = pathList.length; i < l; i++) {
    if (pathList[i] === '*') {
      pathList.push(pathList.splice(i, 1)[0]);
      l--;
      i--;
    }
```

```
  }

  return {
    pathList: pathList,
    pathMap: pathMap,
    nameMap: nameMap
  }
}

function addRouteRecord (
  pathList,
  pathMap,
  nameMap,
  route,
  parent,
  matchAs
) {
  var path = route.path;
  var name = route.name;
  if (process.env.NODE_ENV !== 'production') {
    assert$1(path != null, "\"path\" is required in a route configuration.");
    assert$1(
      typeof route.component !== 'string',
      "route config \"component\" for path: " + (String(path || name)) + " cannot be a " +
      "string id. Use an actual component instead."
    );
  }

  var pathToRegexpOptions = route.pathToRegexpOptions || {};
  var normalizedPath = normalizePath(
    path,
    parent,
    pathToRegexpOptions.strict
  );

  if (typeof route.caseSensitive === 'boolean') {
    pathToRegexpOptions.sensitive = route.caseSensitive;
  }

  var record = {
    path: normalizedPath,
    regex: compileRouteRegex(normalizedPath, pathToRegexpOptions),
    components: route.components || { default: route.component },
    instances: {},
    name: name,
    parent: parent,
```

```
  matchAs: matchAs,
  redirect: route.redirect,
  beforeEnter: route.beforeEnter,
  meta: route.meta || {},
  props: route.props == null
    ? {}
    : route.components
      ? route.props
      : { default: route.props }
};

if (route.children) {
  // Warn if route is named, does not redirect and has a default child route.
  // If users navigate to this route by name, the default child will
  // not be rendered (GH Issue #629)
  if (process.env.NODE_ENV !== 'production') {
    if (route.name && !route.redirect && route.children.some(function (child) { return
        /^\/?$/.test(child.path); })) {
      warn$3(
        false,
        "Named Route '" + (route.name) + "' has a default child route. " +
        "When navigating to this named route (:to=\"{name: '" + (route.name) + "'\"), " +
        "the default child route will not be rendered. Remove the name from " +
        "this route and use the name of the default child route for named " +
        "links instead."
      );
    }
  }
  route.children.forEach(function (child) {
    var childMatchAs = matchAs
      ? cleanPath((matchAs + "/" + (child.path)))
      : undefined;
    addRouteRecord(pathList, pathMap, nameMap, child, record, childMatchAs);
  });
}

if (route.alias !== undefined) {
  var aliases = Array.isArray(route.alias)
    ? route.alias
    : [route.alias];

  aliases.forEach(function (alias) {
    var aliasRoute = {
      path: alias,
      children: route.children
    };
```

```
      addRouteRecord(
        pathList,
        pathMap,
        nameMap,
        aliasRoute,
        parent,
        record.path || '/' // matchAs
      );
    });
  }

  if (!pathMap[record.path]) {
    pathList.push(record.path);
    pathMap[record.path] = record;
  }

  if (name) {
    if (!nameMap[name]) {
      nameMap[name] = record;
    } else if (process.env.NODE_ENV !== 'production' && !matchAs) {
      warn$3(
        false,
        "Duplicate named routes definition: " +
        "{ name: \"" + name + "\", path: \"" + (record.path) + "\" }"
      );
    }
  }
}

function compileRouteRegex (path, pathToRegexpOptions) {
  var regex = pathToRegexp_1(path, [], pathToRegexpOptions);
  if (process.env.NODE_ENV !== 'production') {
    var keys = Object.create(null);
    regex.keys.forEach(function (key) {
      warn$3(!keys[key.name], ("Duplicate param keys in route with path: \"" + path + "\""));
      keys[key.name] = true;
    });
  }
  return regex
}

function normalizePath (path, parent, strict) {
  if (!strict) { path = path.replace(/\/$/, ''); }
  if (path[0] === '/') { return path }
  if (parent == null) { return path }
  return cleanPath(((parent.path) + "/" + path))
```

```
}

/*  */


function normalizeLocation (
  raw,
  current,
  append,
  router
) {
  var next = typeof raw === 'string' ? { path: raw } : raw;
  // named target
  if (next.name || next._normalized) {
    return next
  }

  // relative params
  if (!next.path && next.params && current) {
    next = assign$1({}, next);
    next._normalized = true;
    var params = assign$1(assign$1({}, current.params), next.params);
    if (current.name) {
      next.name = current.name;
      next.params = params;
    } else if (current.matched.length) {
      var rawPath = current.matched[current.matched.length - 1].path;
      next.path = fillParams(rawPath, params, ("path " + (current.path)));
    } else if (process.env.NODE_ENV !== 'production') {
      warn$3(false, "relative params navigation requires a current route.");
    }
    return next
  }

  var parsedPath = parsePath$2(next.path || '');
  var basePath = (current && current.path) || '/';
  var path = parsedPath.path
    ? resolvePath(parsedPath.path, basePath, append || next.append)
    : basePath;

  var query = resolveQuery(
    parsedPath.query,
    next.query,
    router && router.options.parseQuery
  );
```

```
  var hash = next.hash || parsedPath.hash;
  if (hash && hash.charAt(0) !== '#') {
    hash = "#" + hash;
  }

  return {
    _normalized: true,
    path: path,
    query: query,
    hash: hash
  }
}

function assign$1 (a, b) {
  for (var key in b) {
    a[key] = b[key];
  }
  return a
}

/*  */


function createMatcher (
  routes,
  router
) {
  var ref = createRouteMap(routes);
  var pathList = ref.pathList;
  var pathMap = ref.pathMap;
  var nameMap = ref.nameMap;

  function addRoutes (routes) {
    createRouteMap(routes, pathList, pathMap, nameMap);
  }

  function match (
    raw,
    currentRoute,
    redirectedFrom
  ) {
    var location = normalizeLocation(raw, currentRoute, false, router);
    var name = location.name;

    if (name) {
      var record = nameMap[name];
```

```
    if (process.env.NODE_ENV !== 'production') {
      warn$3(record, ("Route with name '" + name + "' does not exist"));
    }
    if (!record) { return _createRoute(null, location) }
    var paramNames = record.regex.keys
      .filter(function (key) { return !key.optional; })
      .map(function (key) { return key.name; });

    if (typeof location.params !== 'object') {
      location.params = {};
    }

    if (currentRoute && typeof currentRoute.params === 'object') {
      for (var key in currentRoute.params) {
        if (!(key in location.params) && paramNames.indexOf(key) > -1) {
          location.params[key] = currentRoute.params[key];
        }
      }
    }

    if (record) {
      location.path = fillParams(record.path, location.params, ("named route \"" + name + "\""));
      return _createRoute(record, location, redirectedFrom)
    }
  } else if (location.path) {
    location.params = {};
    for (var i = 0; i < pathList.length; i++) {
      var path = pathList[i];
      var record$1 = pathMap[path];
      if (matchRoute(record$1.regex, location.path, location.params)) {
        return _createRoute(record$1, location, redirectedFrom)
      }
    }
  }
  // no match
  return _createRoute(null, location)
}

function redirect (
  record,
  location
) {
  var originalRedirect = record.redirect;
  var redirect = typeof originalRedirect === 'function'
      ? originalRedirect(createRoute(record, location, null, router))
      : originalRedirect;
```

```
if (typeof redirect === 'string') {
  redirect = { path: redirect };
}

if (!redirect || typeof redirect !== 'object') {
  if (process.env.NODE_ENV !== 'production') {
    warn$3(
      false, ("invalid redirect option: " + (JSON.stringify(redirect)))
    );
  }
  return _createRoute(null, location)
}

var re = redirect;
var name = re.name;
var path = re.path;
var query = location.query;
var hash = location.hash;
var params = location.params;
query = re.hasOwnProperty('query') ? re.query : query;
hash = re.hasOwnProperty('hash') ? re.hash : hash;
params = re.hasOwnProperty('params') ? re.params : params;

if (name) {
  // resolved named direct
  var targetRecord = nameMap[name];
  if (process.env.NODE_ENV !== 'production') {
    assert$1(targetRecord, ("redirect failed: named route \"" + name + "\" not found."));
  }
  return match({
    _normalized: true,
    name: name,
    query: query,
    hash: hash,
    params: params
  }, undefined, location)
} else if (path) {
  // 1. resolve relative redirect
  var rawPath = resolveRecordPath(path, record);
  // 2. resolve params
  var resolvedPath = fillParams(rawPath, params, ("redirect route with path \"" + rawPath +
      "\""));
  // 3. rematch with existing query and hash
  return match({
    _normalized: true,
```

```
      path: resolvedPath,
      query: query,
      hash: hash
    }, undefined, location)
  } else {
    if (process.env.NODE_ENV !== 'production') {
      warn$3(false, ("invalid redirect option: " + (JSON.stringify(redirect))));
    }
    return _createRoute(null, location)
  }
}

function alias (
  record,
  location,
  matchAs
) {
  var aliasedPath = fillParams(matchAs, location.params, ("aliased route with path \"" +
        matchAs + "\""));
  var aliasedMatch = match({
    _normalized: true,
    path: aliasedPath
  });
  if (aliasedMatch) {
    var matched = aliasedMatch.matched;
    var aliasedRecord = matched[matched.length - 1];
    location.params = aliasedMatch.params;
    return _createRoute(aliasedRecord, location)
  }
  return _createRoute(null, location)
}

function _createRoute (
  record,
  location,
  redirectedFrom
) {
  if (record && record.redirect) {
    return redirect(record, redirectedFrom || location)
  }
  if (record && record.matchAs) {
    return alias(record, location, record.matchAs)
  }
  return createRoute(record, location, redirectedFrom, router)
}
```

```
  return {
    match: match,
    addRoutes: addRoutes
  }
}

function matchRoute (
  regex,
  path,
  params
) {
  var m = path.match(regex);

  if (!m) {
    return false
  } else if (!params) {
    return true
  }

  for (var i = 1, len = m.length; i < len; ++i) {
    var key = regex.keys[i - 1];
    var val = typeof m[i] === 'string' ? decodeURIComponent(m[i]) : m[i];
    if (key) {
      params[key.name] = val;
    }
  }

  return true
}

function resolveRecordPath (path, record) {
  return resolvePath(path, record.parent ? record.parent.path : '/', true)
}

/*  */


var positionStore = Object.create(null);

function setupScroll () {
  // Fix for #1585 for Firefox
  window.history.replaceState({ key: getStateKey() }, '');
  window.addEventListener('popstate', function (e) {
    saveScrollPosition();
    if (e.state && e.state.key) {
      setStateKey(e.state.key);
```

```
    }
  });
}

function handleScroll (
  router,
  to,
  from,
  isPop
) {
  if (!router.app) {
    return
  }

  var behavior = router.options.scrollBehavior;
  if (!behavior) {
    return
  }

  if (process.env.NODE_ENV !== 'production') {
    assert$1(typeof behavior === 'function', "scrollBehavior must be a function");
  }

  // wait until re-render finishes before scrolling
  router.app.$nextTick(function () {
    var position = getScrollPosition();
    var shouldScroll = behavior(to, from, isPop ? position : null);

    if (!shouldScroll) {
      return
    }

    if (typeof shouldScroll.then === 'function') {
      shouldScroll.then(function (shouldScroll) {
        scrollToPosition((shouldScroll), position);
      }).catch(function (err) {
        if (process.env.NODE_ENV !== 'production') {
          assert$1(false, err.toString());
        }
      });
    } else {
      scrollToPosition(shouldScroll, position);
    }
  });
}
```

```
function saveScrollPosition () {
  var key = getStateKey();
  if (key) {
    positionStore[key] = {
      x: window.pageXOffset,
      y: window.pageYOffset
    };
  }
}

function getScrollPosition () {
  var key = getStateKey();
  if (key) {
    return positionStore[key]
  }
}

function getElementPosition (el, offset) {
  var docEl = document.documentElement;
  var docRect = docEl.getBoundingClientRect();
  var elRect = el.getBoundingClientRect();
  return {
    x: elRect.left - docRect.left - offset.x,
    y: elRect.top - docRect.top - offset.y
  }
}

function isValidPosition (obj) {
  return isNumber(obj.x) || isNumber(obj.y)
}

function normalizePosition (obj) {
  return {
    x: isNumber(obj.x) ? obj.x : window.pageXOffset,
    y: isNumber(obj.y) ? obj.y : window.pageYOffset
  }
}

function normalizeOffset (obj) {
  return {
    x: isNumber(obj.x) ? obj.x : 0,
    y: isNumber(obj.y) ? obj.y : 0
  }
}

function isNumber (v) {
```

```
  return typeof v === 'number'
}

function scrollToPosition (shouldScroll, position) {
  var isObject = typeof shouldScroll === 'object';
  if (isObject && typeof shouldScroll.selector === 'string') {
    var el = document.querySelector(shouldScroll.selector);
    if (el) {
      var offset = shouldScroll.offset && typeof shouldScroll.offset === 'object' ?
          shouldScroll.offset : {};
      offset = normalizeOffset(offset);
      position = getElementPosition(el, offset);
    } else if (isValidPosition(shouldScroll)) {
      position = normalizePosition(shouldScroll);
    }
  } else if (isObject && isValidPosition(shouldScroll)) {
    position = normalizePosition(shouldScroll);
  }

  if (position) {
    window.scrollTo(position.x, position.y);
  }
}

/*  */

var supportsPushState = inBrowser$3 && (function () {
  var ua = window.navigator.userAgent;

  if (
    (ua.indexOf('Android 2.') !== -1 || ua.indexOf('Android 4.0') !== -1) &&
    ua.indexOf('Mobile Safari') !== -1 &&
    ua.indexOf('Chrome') === -1 &&
    ua.indexOf('Windows Phone') === -1
  ) {
    return false
  }

  return window.history && 'pushState' in window.history
})();

// use User Timing api (if present) for more accurate key precision
var Time = inBrowser$3 && window.performance && window.performance.now
  ? window.performance
  : Date;
```

```
var _key = genKey();

function genKey () {
  return Time.now().toFixed(3)
}

function getStateKey () {
  return _key
}

function setStateKey (key) {
  _key = key;
}

function pushState (url, replace) {
  saveScrollPosition();
  // try...catch the pushState call to get around Safari
  // DOM Exception 18 where it limits to 100 pushState calls
  var history = window.history;
  try {
    if (replace) {
      history.replaceState({ key: _key }, '', url);
    } else {
      _key = genKey();
      history.pushState({ key: _key }, '', url);
    }
  } catch (e) {
    window.location[replace ? 'replace' : 'assign'](url);
  }
}

function replaceState (url) {
  pushState(url, true);
}

/*  */

function runQueue (queue, fn, cb) {
  var step = function (index) {
    if (index >= queue.length) {
      cb();
    } else {
      if (queue[index]) {
        fn(queue[index], function () {
          step(index + 1);
        });
```

```
      } else {
        step(index + 1);
      }
    }
  };
  step(0);
}

/*  */

function resolveAsyncComponents (matched) {
  return function (to, from, next) {
    var hasAsync = false;
    var pending = 0;
    var error = null;

    flatMapComponents(matched, function (def, _, match, key) {
      // if it's a function and doesn't have cid attached,
      // assume it's an async component resolve function.
      // we are not using Vue's default async resolving mechanism because
      // we want to halt the navigation until the incoming component has been
      // resolved.
      if (typeof def === 'function' && def.cid === undefined) {
        hasAsync = true;
        pending++;

        var resolve = once$3(function (resolvedDef) {
          if (isESModule(resolvedDef)) {
            resolvedDef = resolvedDef.default;
          }
          // save resolved on async factory in case it's used elsewhere
          def.resolved = typeof resolvedDef === 'function'
            ? resolvedDef
            : _Vue.extend(resolvedDef);
          match.components[key] = resolvedDef;
          pending--;
          if (pending <= 0) {
            next();
          }
        });

        var reject = once$3(function (reason) {
          var msg = "Failed to resolve async component " + key + ": " + reason;
          process.env.NODE_ENV !== 'production' && warn$3(false, msg);
          if (!error) {
            error = isError(reason)
```

```
            ? reason
            : new Error(msg);
          next(error);
        }
      });

      var res;
      try {
        res = def(resolve, reject);
      } catch (e) {
        reject(e);
      }
      if (res) {
        if (typeof res.then === 'function') {
          res.then(resolve, reject);
        } else {
          // new syntax in Vue 2.3
          var comp = res.component;
          if (comp && typeof comp.then === 'function') {
            comp.then(resolve, reject);
          }
        }
      }
    }
  });

  if (!hasAsync) { next(); }
 }
}

function flatMapComponents (
 matched,
 fn
) {
 return flatten(matched.map(function (m) {
  return Object.keys(m.components).map(function (key) { return fn(
    m.components[key],
    m.instances[key],
    m, key
  ); })
 }))
}

function flatten (arr) {
 return Array.prototype.concat.apply([], arr)
}
```

```
var hasSymbol$2 =
  typeof Symbol === 'function' &&
  typeof Symbol.toStringTag === 'symbol';

function isESModule (obj) {
  return obj.__esModule || (hasSymbol$2 && obj[Symbol.toStringTag] === 'Module')
}

// in Webpack 2, require.ensure now also returns a Promise
// so the resolve/reject functions may get called an extra time
// if the user uses an arrow function shorthand that happens to
// return that Promise.
function once$3 (fn) {
  var called = false;
  return function () {
    var arguments$1 = arguments;

    var args = [], len = arguments.length;
    while ( len-- ) { args[ len ] = arguments$1[ len ]; }

    if (called) { return }
    called = true;
    return fn.apply(this, args)
  }
}

/*  */

var History = function History (router, base) {
  this.router = router;
  this.base = normalizeBase(base);
  // start with a route object that stands for "nowhere"
  this.current = START;
  this.pending = null;
  this.ready = false;
  this.readyCbs = [];
  this.readyErrorCbs = [];
  this.errorCbs = [];
};

History.prototype.listen = function listen (cb) {
  this.cb = cb;
};

History.prototype.onReady = function onReady (cb, errorCb) {
```

```
  if (this.ready) {
    cb();
  } else {
    this.readyCbs.push(cb);
    if (errorCb) {
      this.readyErrorCbs.push(errorCb);
    }
  }
};

History.prototype.onError = function onError (errorCb) {
  this.errorCbs.push(errorCb);
};

History.prototype.transitionTo = function transitionTo (location, onComplete, onAbort) {
    var this$1 = this;

  var route = this.router.match(location, this.current);
  this.confirmTransition(route, function () {
    this$1.updateRoute(route);
    onComplete && onComplete(route);
    this$1.ensureURL();

    // fire ready cbs once
    if (!this$1.ready) {
      this$1.ready = true;
      this$1.readyCbs.forEach(function (cb) { cb(route); });
    }
  }, function (err) {
    if (onAbort) {
      onAbort(err);
    }
    if (err && !this$1.ready) {
      this$1.ready = true;
      this$1.readyErrorCbs.forEach(function (cb) { cb(err); });
    }
  });
};

History.prototype.confirmTransition = function confirmTransition (route, onComplete, onAbort)
          {
    var this$1 = this;

  var current = this.current;
  var abort = function (err) {
    if (isError(err)) {
```

```
    if (this$1.errorCbs.length) {
      this$1.errorCbs.forEach(function (cb) { cb(err); });
    } else {
      warn$3(false, 'uncaught error during route navigation:');
      console.error(err);
    }
  }
  onAbort && onAbort(err);
};
if (
  isSameRoute(route, current) &&
  // in the case the route map has been dynamically appended to
  route.matched.length === current.matched.length
) {
  this.ensureURL();
  return abort()
}

var ref = resolveQueue(this.current.matched, route.matched);
  var updated = ref.updated;
  var deactivated = ref.deactivated;
  var activated = ref.activated;

var queue = [].concat(
  // in-component leave guards
  extractLeaveGuards(deactivated),
  // global before hooks
  this.router.beforeHooks,
  // in-component update hooks
  extractUpdateHooks(updated),
  // in-config enter guards
  activated.map(function (m) { return m.beforeEnter; }),
  // async components
  resolveAsyncComponents(activated)
);

this.pending = route;
var iterator = function (hook, next) {
  if (this$1.pending !== route) {
    return abort()
  }
  try {
    hook(route, current, function (to) {
      if (to === false || isError(to)) {
        // next(false) -> abort navigation, ensure current URL
        this$1.ensureURL(true);
```

```
        abort(to);
      } else if (
        typeof to === 'string' ||
        (typeof to === 'object' && (
          typeof to.path === 'string' ||
          typeof to.name === 'string'
        ))
      ) {
        // next('/') or next({ path: '/' }) -> redirect
        abort();
        if (typeof to === 'object' && to.replace) {
          this$1.replace(to);
        } else {
          this$1.push(to);
        }
      } else {
        // confirm transition and pass on the value
        next(to);
      }
    });
  } catch (e) {
    abort(e);
  }
};

runQueue(queue, iterator, function () {
  var postEnterCbs = [];
  var isValid = function () { return this$1.current === route; };
  // wait until async components are resolved before
  // extracting in-component enter guards
  var enterGuards = extractEnterGuards(activated, postEnterCbs, isValid);
  var queue = enterGuards.concat(this$1.router.resolveHooks);
  runQueue(queue, iterator, function () {
    if (this$1.pending !== route) {
      return abort()
    }
    this$1.pending = null;
    onComplete(route);
    if (this$1.router.app) {
      this$1.router.app.$nextTick(function () {
        postEnterCbs.forEach(function (cb) { cb(); });
      });
    }
  });
});
};
```

```
History.prototype.updateRoute = function updateRoute (route) {
  var prev = this.current;
  this.current = route;
  this.cb && this.cb(route);
  this.router.afterHooks.forEach(function (hook) {
    hook && hook(route, prev);
  });
};

function normalizeBase (base) {
  if (!base) {
    if (inBrowser$3) {
      // respect <base> tag
      var baseEl = document.querySelector('base');
      base = (baseEl && baseEl.getAttribute('href')) || '/';
      // strip full URL origin
      base = base.replace(/^https?:\/\/[^\/]+/, '');
    } else {
      base = '/';
    }
  }
  // make sure there's the starting slash
  if (base.charAt(0) !== '/') {
    base = '/' + base;
  }
  // remove trailing slash
  return base.replace(/\/$/, '')
}

function resolveQueue (
  current,
  next
) {
  var i;
  var max = Math.max(current.length, next.length);
  for (i = 0; i < max; i++) {
    if (current[i] !== next[i]) {
      break
    }
  }
  return {
    updated: next.slice(0, i),
    activated: next.slice(i),
    deactivated: current.slice(i)
  }
```

```
}

function extractGuards (
  records,
  name,
  bind,
  reverse
) {
  var guards = flatMapComponents(records, function (def, instance, match, key) {
    var guard = extractGuard(def, name);
    if (guard) {
      return Array.isArray(guard)
        ? guard.map(function (guard) { return bind(guard, instance, match, key); })
        : bind(guard, instance, match, key)
    }
  });
  return flatten(reverse ? guards.reverse() : guards)
}

function extractGuard (
  def,
  key
) {
  if (typeof def !== 'function') {
    // extend now so that global mixins are applied.
    def = _Vue.extend(def);
  }
  return def.options[key]
}

function extractLeaveGuards (deactivated) {
  return extractGuards(deactivated, 'beforeRouteLeave', bindGuard, true)
}

function extractUpdateHooks (updated) {
  return extractGuards(updated, 'beforeRouteUpdate', bindGuard)
}

function bindGuard (guard, instance) {
  if (instance) {
    return function boundRouteGuard () {
      return guard.apply(instance, arguments)
    }
  }
}
```

```
function extractEnterGuards (
  activated,
  cbs,
  isValid
) {
  return extractGuards(activated, 'beforeRouteEnter', function (guard, _, match, key) {
    return bindEnterGuard(guard, match, key, cbs, isValid)
  })
}

function bindEnterGuard (
  guard,
  match,
  key,
  cbs,
  isValid
) {
  return function routeEnterGuard (to, from, next) {
    return guard(to, from, function (cb) {
      next(cb);
      if (typeof cb === 'function') {
        cbs.push(function () {
          // #750
          // if a router-view is wrapped with an out-in transition,
          // the instance may not have been registered at this time.
          // we will need to poll for registration until current route
          // is no longer valid.
          poll(cb, match.instances, key, isValid);
        });
      }
    })
  }
}

function poll (
  cb, // somehow flow cannot infer this is a function
  instances,
  key,
  isValid
) {
  if (instances[key]) {
    cb(instances[key]);
  } else if (isValid()) {
    setTimeout(function () {
      poll(cb, instances, key, isValid);
    }, 16);
```

```
  }
}

/*  */


var HTML5History = (function (History$$1) {
  function HTML5History (router, base) {
    var this$1 = this;

    History$$1.call(this, router, base);

    var expectScroll = router.options.scrollBehavior;

    if (expectScroll) {
      setupScroll();
    }

    var initLocation = getLocation(this.base);
    window.addEventListener('popstate', function (e) {
      var current = this$1.current;

      // Avoiding first `popstate` event dispatched in some browsers but first
      // history route not updated since async guard at the same time.
      var location = getLocation(this$1.base);
      if (this$1.current === START && location === initLocation) {
        return
      }

      this$1.transitionTo(location, function (route) {
        if (expectScroll) {
          handleScroll(router, route, current, true);
        }
      });
    });
  }

  if ( History$$1 ) { HTML5History.__proto__ = History$$1; }
  HTML5History.prototype = Object.create( History$$1 && History$$1.prototype );
  HTML5History.prototype.constructor = HTML5History;

  HTML5History.prototype.go = function go (n) {
    window.history.go(n);
  };

  HTML5History.prototype.push = function push (location, onComplete, onAbort) {
```

```
    var this$1 = this;

    var ref = this;
    var fromRoute = ref.current;
    this.transitionTo(location, function (route) {
      pushState(cleanPath(this$1.base + route.fullPath));
      handleScroll(this$1.router, route, fromRoute, false);
      onComplete && onComplete(route);
    }, onAbort);
  };

  HTML5History.prototype.replace = function replace (location, onComplete, onAbort) {
    var this$1 = this;

    var ref = this;
    var fromRoute = ref.current;
    this.transitionTo(location, function (route) {
      replaceState(cleanPath(this$1.base + route.fullPath));
      handleScroll(this$1.router, route, fromRoute, false);
      onComplete && onComplete(route);
    }, onAbort);
  };

  HTML5History.prototype.ensureURL = function ensureURL (push) {
    if (getLocation(this.base) !== this.current.fullPath) {
      var current = cleanPath(this.base + this.current.fullPath);
      push ? pushState(current) : replaceState(current);
    }
  };

  HTML5History.prototype.getCurrentLocation = function getCurrentLocation () {
    return getLocation(this.base)
  };

  return HTML5History;
}(History));

function getLocation (base) {
  var path = window.location.pathname;
  if (base && path.indexOf(base) === 0) {
    path = path.slice(base.length);
  }
  return (path || '/') + window.location.search + window.location.hash
}

/*  */
```

```
var HashHistory = (function (History$$1) {
  function HashHistory (router, base, fallback) {
    History$$1.call(this, router, base);
    // check history fallback deeplinking
    if (fallback && checkFallback(this.base)) {
      return
    }
    ensureSlash();
  }

  if ( History$$1 ) { HashHistory.__proto__ = History$$1; }
  HashHistory.prototype = Object.create( History$$1 && History$$1.prototype );
  HashHistory.prototype.constructor = HashHistory;

  // this is delayed until the app mounts
  // to avoid the hashchange listener being fired too early
  HashHistory.prototype.setupListeners = function setupListeners () {
    var this$1 = this;

    var router = this.router;
    var expectScroll = router.options.scrollBehavior;
    var supportsScroll = supportsPushState && expectScroll;

    if (supportsScroll) {
      setupScroll();
    }

    window.addEventListener(supportsPushState ? 'popstate' : 'hashchange', function () {
      var current = this$1.current;
      if (!ensureSlash()) {
        return
      }
      this$1.transitionTo(getHash(), function (route) {
        if (supportsScroll) {
          handleScroll(this$1.router, route, current, true);
        }
        if (!supportsPushState) {
          replaceHash(route.fullPath);
        }
      });
    });
  };

  HashHistory.prototype.push = function push (location, onComplete, onAbort) {
```

```
    var this$1 = this;

    var ref = this;
    var fromRoute = ref.current;
    this.transitionTo(location, function (route) {
      pushHash(route.fullPath);
      handleScroll(this$1.router, route, fromRoute, false);
      onComplete && onComplete(route);
    }, onAbort);
  };

  HashHistory.prototype.replace = function replace (location, onComplete, onAbort) {
    var this$1 = this;

    var ref = this;
    var fromRoute = ref.current;
    this.transitionTo(location, function (route) {
      replaceHash(route.fullPath);
      handleScroll(this$1.router, route, fromRoute, false);
      onComplete && onComplete(route);
    }, onAbort);
  };

  HashHistory.prototype.go = function go (n) {
    window.history.go(n);
  };

  HashHistory.prototype.ensureURL = function ensureURL (push) {
    var current = this.current.fullPath;
    if (getHash() !== current) {
      push ? pushHash(current) : replaceHash(current);
    }
  };

  HashHistory.prototype.getCurrentLocation = function getCurrentLocation () {
    return getHash()
  };

  return HashHistory;
}(History));

function checkFallback (base) {
  var location = getLocation(base);
  if (!/^\/#/.test(location)) {
    window.location.replace(
      cleanPath(base + '/#' + location)
```

```
    );
    return true
  }
}

function ensureSlash () {
  var path = getHash();
  if (path.charAt(0) === '/') {
    return true
  }
  replaceHash('/' + path);
  return false
}

function getHash () {
  // We can't use window.location.hash here because it's not
  // consistent across browsers - Firefox will pre-decode it!
  var href = window.location.href;
  var index = href.indexOf('#');
  return index === -1 ? '' : href.slice(index + 1)
}

function getUrl (path) {
  var href = window.location.href;
  var i = href.indexOf('#');
  var base = i >= 0 ? href.slice(0, i) : href;
  return (base + "#" + path)
}

function pushHash (path) {
  if (supportsPushState) {
    pushState(getUrl(path));
  } else {
    window.location.hash = path;
  }
}

function replaceHash (path) {
  if (supportsPushState) {
    replaceState(getUrl(path));
  } else {
    window.location.replace(getUrl(path));
  }
}

/*  */
```

```
var AbstractHistory = (function (History$$1) {
  function AbstractHistory (router, base) {
    History$$1.call(this, router, base);
    this.stack = [];
    this.index = -1;
  }

  if ( History$$1 ) { AbstractHistory.__proto__ = History$$1; }
  AbstractHistory.prototype = Object.create( History$$1 && History$$1.prototype );
  AbstractHistory.prototype.constructor = AbstractHistory;

  AbstractHistory.prototype.push = function push (location, onComplete, onAbort) {
    var this$1 = this;

    this.transitionTo(location, function (route) {
      this$1.stack = this$1.stack.slice(0, this$1.index + 1).concat(route);
      this$1.index++;
      onComplete && onComplete(route);
    }, onAbort);
  };

  AbstractHistory.prototype.replace = function replace (location, onComplete, onAbort) {
    var this$1 = this;

    this.transitionTo(location, function (route) {
      this$1.stack = this$1.stack.slice(0, this$1.index).concat(route);
      onComplete && onComplete(route);
    }, onAbort);
  };

  AbstractHistory.prototype.go = function go (n) {
    var this$1 = this;

    var targetIndex = this.index + n;
    if (targetIndex < 0 || targetIndex >= this.stack.length) {
      return
    }
    var route = this.stack[targetIndex];
    this.confirmTransition(route, function () {
      this$1.index = targetIndex;
      this$1.updateRoute(route);
    });
  };
```

```
  AbstractHistory.prototype.getCurrentLocation = function getCurrentLocation () {
    var current = this.stack[this.stack.length - 1];
    return current ? current.fullPath : '/'
  };

  AbstractHistory.prototype.ensureURL = function ensureURL () {
    // noop
  };

  return AbstractHistory;
}(History));

/*  */

var VueRouter = function VueRouter (options) {
  if ( options === void 0 ) { options = {}; }

  this.app = null;
  this.apps = [];
  this.options = options;
  this.beforeHooks = [];
  this.resolveHooks = [];
  this.afterHooks = [];
  this.matcher = createMatcher(options.routes || [], this);

  var mode = options.mode || 'hash';
  this.fallback = mode === 'history' && !supportsPushState && options.fallback !== false;
  if (this.fallback) {
    mode = 'hash';
  }
  if (!inBrowser$3) {
    mode = 'abstract';
  }
  this.mode = mode;

  switch (mode) {
    case 'history':
      this.history = new HTML5History(this, options.base);
      break
    case 'hash':
      this.history = new HashHistory(this, options.base, this.fallback);
      break
    case 'abstract':
      this.history = new AbstractHistory(this, options.base);
      break
    default:
```

```
      if (process.env.NODE_ENV !== 'production') {
        assert$1(false, ("invalid mode: " + mode));
      }
    }
};

var prototypeAccessors$3 = { currentRoute: { configurable: true } };

VueRouter.prototype.match = function match (
  raw,
  current,
  redirectedFrom
) {
  return this.matcher.match(raw, current, redirectedFrom)
};

prototypeAccessors$3.currentRoute.get = function () {
  return this.history && this.history.current
};

VueRouter.prototype.init = function init (app /* Vue component instance */) {
    var this$1 = this;

  process.env.NODE_ENV !== 'production' && assert$1(
    install$1.installed,
    "not installed. Make sure to call `Vue.use(VueRouter)` " +
    "before creating root instance."
  );

  this.apps.push(app);

  // main app already initialized.
  if (this.app) {
    return
  }

  this.app = app;

  var history = this.history;

  if (history instanceof HTML5History) {
    history.transitionTo(history.getCurrentLocation());
  } else if (history instanceof HashHistory) {
    var setupHashListener = function () {
      history.setupListeners();
    };
```

```
    history.transitionTo(
      history.getCurrentLocation(),
      setupHashListener,
      setupHashListener
    );
  }

  history.listen(function (route) {
    this$1.apps.forEach(function (app) {
      app._route = route;
    });
  });
};

VueRouter.prototype.beforeEach = function beforeEach (fn) {
  return registerHook(this.beforeHooks, fn)
};

VueRouter.prototype.beforeResolve = function beforeResolve (fn) {
  return registerHook(this.resolveHooks, fn)
};

VueRouter.prototype.afterEach = function afterEach (fn) {
  return registerHook(this.afterHooks, fn)
};

VueRouter.prototype.onReady = function onReady (cb, errorCb) {
  this.history.onReady(cb, errorCb);
};

VueRouter.prototype.onError = function onError (errorCb) {
  this.history.onError(errorCb);
};

VueRouter.prototype.push = function push (location, onComplete, onAbort) {
  this.history.push(location, onComplete, onAbort);
};

VueRouter.prototype.replace = function replace (location, onComplete, onAbort) {
  this.history.replace(location, onComplete, onAbort);
};

VueRouter.prototype.go = function go (n) {
  this.history.go(n);
};
```

```
VueRouter.prototype.back = function back () {
  this.go(-1);
};

VueRouter.prototype.forward = function forward () {
  this.go(1);
};

VueRouter.prototype.getMatchedComponents = function getMatchedComponents (to) {
  var route = to
    ? to.matched
      ? to
      : this.resolve(to).route
    : this.currentRoute;
  if (!route) {
    return []
  }
  return [].concat.apply([], route.matched.map(function (m) {
    return Object.keys(m.components).map(function (key) {
      return m.components[key]
    })
  }))
};

VueRouter.prototype.resolve = function resolve (
  to,
  current,
  append
) {
  var location = normalizeLocation(
    to,
    current || this.history.current,
    append,
    this
  );
  var route = this.match(location, current);
  var fullPath = route.redirectedFrom || route.fullPath;
  var base = this.history.base;
  var href = createHref(base, fullPath, this.mode);
  return {
    location: location,
    route: route,
    href: href,
    // for backwards compat
    normalizedTo: location,
    resolved: route
```

```
  }
};

VueRouter.prototype.addRoutes = function addRoutes (routes) {
  this.matcher.addRoutes(routes);
  if (this.history.current !== START) {
    this.history.transitionTo(this.history.getCurrentLocation());
  }
};

Object.defineProperties( VueRouter.prototype, prototypeAccessors$3 );

function registerHook (list, fn) {
  list.push(fn);
  return function () {
    var i = list.indexOf(fn);
    if (i > -1) { list.splice(i, 1); }
  }
}

function createHref (base, fullPath, mode) {
  var path = mode === 'hash' ? '#' + fullPath : fullPath;
  return base ? cleanPath(base + '/' + path) : path
}

VueRouter.install = install$1;
VueRouter.version = '3.0.1';

if (inBrowser$3 && window.Vue) {
  window.Vue.use(VueRouter);
}

//import Hello from '../components/Hello.vue'

Vue$3.use(VueRouter);

var router = new VueRouter({
    mode: 'history',
    routes: [
        { name: 'place', path: '/:placeName' }
    ]
})

Vue$3.use(VueMaterial);
Vue$3.use(plugin);
```

```
sync(store, router);

var app = new Vue$3({
    el: '#app',
    store: store,
    router: router,
    render: function (h) { return h(App); }
});

}());
//# sourceMappingURL=main.js.map
```

File: paradise-lost/dist/assets/paper_fibers_@2X.png

PNG