

Package ‘leaflet.extras’

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Type Package

Title Extra Functionality for 'leaflet' Package

Version 2.0.1

Description The 'leaflet' JavaScript library provides many plugins some of which are available in the core 'leaflet' package, but there are many more. It is not possible to support them all in the core 'leaflet' package. This package serves as an add-on to the 'leaflet' package by providing extra functionality via 'leaflet' plugins.

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Encoding UTF-8

Depends R (>= 3.1.0), leaflet (>= 2.0.0)

Imports htmlwidgets, htmltools, stringr, magrittr

Suggests jsonlite, readr, sf, xfun, testthat (>= 3.0.0)

URL <https://github.com/trafficonese/leaflet.extras>,
<https://trafficonese.github.io/leaflet.extras/>

BugReports <https://github.com/trafficonese/leaflet.extras/issues>

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addAwesomeMarkersDependencies	<i>Add AwesomeMarkers and related lib dependencies to a map</i>
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Description

Add AwesomeMarkers and related lib dependencies to a map

Usage

```
addAwesomeMarkersDependencies(map, libs)
```

Arguments

map	the map widget
libs	char vector with lib names.

addBingTiles	<i>Adds Bing Tiles Layer</i>
--------------	------------------------------

Description

Adds Bing Tiles Layer

Usage

```
addBingTiles(  
  map,  
  apikey = Sys.getenv("BING_MAPS_API_KEY"),  
  imagerySet = c("Aerial", "AerialWithLabels", "AerialWithLabelsOnDemand",  
    "AerialWithLabelsOnDemand", "Birdseye", "BirdseyeWithLabels", "BirdseyeV2",  
    "BirdseyeV2WithLabels", "CanvasDark", "CanvasLight", "CanvasGray", "Road",  
    "RoadOnDemand", "Streetside"),  
  layerId = NULL,  
  group = NULL,  
  ...  
)
```

Arguments

map	The Map widget
apikey	String. Bing API Key
imagerySet	String. Type of Tiles to display
layerId	String. An optional unique ID for the layer
group	String. An optional group name for the layer
...	Optional Parameters required by the Bing API described at https://learn.microsoft.com/en-us/bingmaps/getting-started/bing-maps-dev-center-help/getting-a-bing-maps-key?redirectedfrom=MSDN

See Also

Get a Bing Maps API Key: <https://learn.microsoft.com/en-us/bingmaps/rest-services/imagery/get-imagery-metadata?redirectedfrom=MSDN>

addBootstrapDependency

Add Bootstrap dependency to a map

Description

Add Bootstrap dependency to a map

Usage

addBootstrapDependency(map)

Arguments

map	the map widget
-----	----------------

addBounceMarkers

Add Bounce Markers to map

Description

Add Bounce Markers to map

Usage

```
addBounceMarkers(
  map,
  lng = NULL,
  lat = NULL,
  layerId = NULL,
  group = NULL,
  icon = NULL,
  duration = 1000,
  height = 100,
  popup = NULL,
  popupOptions = NULL,
  label = NULL,
  labelOptions = NULL,
  options = leaflet::markerOptions(),
  data = leaflet::getMapData(map)
)
```

Arguments

map	a map widget object created from leaflet()
lng	a numeric vector of longitudes, or a one-sided formula of the form <code>~x</code> where <code>x</code> is a variable in data; by default (if not explicitly provided), it will be automatically inferred from data by looking for a column named <code>lng</code> , <code>long</code> , or <code>longitude</code> (case-insensitively)
lat	a vector of latitudes or a formula (similar to the <code>lng</code> argument; the names <code>lat</code> and <code>latitude</code> are used when guessing the latitude column from data)
layerId	the layer id
group	the name of the group the newly created layers should belong to (for clearGroup and addLayersControl purposes). Human-friendly group names are permitted—they need not be short, identifier-style names. Any number of layers and even different types of layers (e.g. markers and polygons) can share the same group name.
icon	the icon(s) for markers; an icon is represented by an R list of the form <code>list(iconUrl = "?", iconSize = c(x, y))</code> , and you can use icons() to create multiple icons; note when you use an R list that contains images as local files, these local image files will be base64 encoded into the HTML page so the icon images will still be available even when you publish the map elsewhere
duration	integer scalar: The duration of the animation in milliseconds.
height	integer scalar: Height at which the marker is dropped.
popup	a character vector of the HTML content for the popups (you are recommended to escape the text using htmlEscape() for security reasons)
popupOptions	A Vector of popupOptions to provide popups
label	a character vector of the HTML content for the labels
labelOptions	A Vector of labelOptions to provide label options for each label. Default NULL

options	a list of extra options for tile layers, popups, paths (circles, rectangles, polygons, ...), or other map elements
data	the data object from which the argument values are derived; by default, it is the data object provided to <code>leaflet()</code> initially, but can be overridden

Author(s)

Markus Dumke

See Also

[GitHub: leaflet.bouncemarker](#)

Examples

```
leaflet() %>%
  addTiles() %>%
  addBounceMarkers(49, 11)
```

addDrawToolbar	<i>Adds a Toolbar to draw shapes/points on the map.</i>
----------------	---

Description

Adds a Toolbar to draw shapes/points on the map.

Removes the draw toolbar

Usage

```
addDrawToolbar(
  map,
  targetLayerId = NULL,
  targetGroup = NULL,
  position = c("topleft", "topright", "bottomleft", "bottomright"),
  polylineOptions = drawPolylineOptions(),
  polygonOptions = drawPolygonOptions(),
  circleOptions = drawCircleOptions(),
  rectangleOptions = drawRectangleOptions(),
  markerOptions = drawMarkerOptions(),
  circleMarkerOptions = drawCircleMarkerOptions(),
  editOptions = FALSE,
  singleFeature = FALSE,
  toolbar = NULL,
  handlers = NULL,
  edittoolbar = NULL,
  edithandlers = NULL,
  drag = TRUE
```

```
)

removeDrawToolbar(map, clearFeatures = FALSE)
```

Arguments

map	The map widget.
targetLayerId	An optional layerId of a GeoJSON/TopoJSON layer whose features need to be editable. Used for adding a GeoJSON/TopoJSON layer and then editing the features using the draw plugin.
targetGroup	An optional group name of a Feature Group whose features need to be editable. Used for adding shapes(markers, lines, polygons) and then editing them using the draw plugin. You can either set layerId or group or none but not both.
position	The position where the toolbar should appear.
polylineOptions	See drawPolylineOptions() . Set to FALSE to disable polyline drawing.
polygonOptions	See drawPolygonOptions() . Set to FALSE to disable polygon drawing.
circleOptions	See drawCircleOptions() . Set to FALSE to disable circle drawing.
rectangleOptions	See drawRectangleOptions() . Set to FALSE to disable rectangle drawing.
markerOptions	See drawMarkerOptions() . Set to FALSE to disable marker drawing.
circleMarkerOptions	See drawCircleMarkerOptions() . Set to FALSE to disable circle marker drawing.
editOptions	By default editing is disable. To enable editing pass editToolbarOptions() .
singleFeature	When set to TRUE, only one feature can be drawn at a time, the previous ones being removed.
toolbar	See toolbarOptions . Set to NULL to take Leaflets default values.
handlers	See handlersOptions . Set to NULL to take Leaflets default values.
edittoolbar	See edittoolbarOptions . Set to NULL to take Leaflets default values.
edithandlers	See edithandlersOptions . Set to NULL to take Leaflets default values.
drag	When set to TRUE, the drawn features will be draggable during editing, utilizing the <code>Leaflet.Draw.Drag</code> plugin. Otherwise, this library will not be included.
clearFeatures	whether to clear the map of drawn features.

Details

The drawn features emit events upon mouse interaction. Event names follow the pattern: `input$MAPID_LAYERCATEGORY_EVENT` where LAYERCATEGORY can be one of:

- marker
- shape
- polyline

Similarly, for EVENTNAME, valid values are:

- click
- mouseover
- mouseout

See the provided example for usage:

```
browseURL(system.file("examples/shiny/draw-events/draw_mouse_events.R", package =
"leaflet.extras"))
```

Examples

```
leaflet() %>%
  setView(0, 0, 2) %>%
  addProviderTiles(providers$CartoDB.Positron) %>%
  addDrawToolbar(
    targetGroup = "draw",
    editOptions = editToolbarOptions(
      selectedPathOptions = selectedPathOptions()
    )
  ) %>%
  addLayersControl(
    overlayGroups = c("draw"),
    options = layersControlOptions(collapsed = FALSE)
  ) %>%
  addStyleEditor()

## for more examples see
# browseURL(system.file("examples/draw.R",
#                         package = "leaflet.extras"))
# browseURL(system.file("examples/shiny/draw-events/app.R",
#                         package = "leaflet.extras"))
# browseURL(system.file("examples/shiny/draw-events/draw_mouse_events.R",
#                         package = "leaflet.extras"))
```

addFullscreenControl *Add fullscreen control*

Description

Add a fullscreen control button

Usage

```
addFullscreenControl(map, position = "topleft", pseudoFullscreen = FALSE)
```

Arguments

map	The leaflet map
position	position of control: "topleft", "topright", "bottomleft", or "bottomright"
pseudoFullscreen	if true, fullscreen to page width and height

Examples

```
leaflet() %>%  
  addTiles() %>%  
  addFullscreenControl()
```

addGeoJSONv2	<i>Adds a GeoJSON/TopoJSON to the leaflet map.</i>
--------------	--

Description

This is a feature rich alternative to the [addGeoJSON](#) & [addTopoJSON](#) with options to map feature properties to labels, popups, colors, markers etc.

Usage

```
addGeoJSONv2(  
  map,  
  geojson,  
  layerId = NULL,  
  group = NULL,  
  markerType = NULL,  
  markerIcons = NULL,  
  markerIconProperty = NULL,  
  markerOptions = leaflet::markerOptions(),  
  clusterOptions = NULL,  
  clusterId = NULL,  
  labelProperty = NULL,  
  labelOptions = leaflet::labelOptions(),  
  popupProperty = NULL,  
  popupOptions = leaflet::popupOptions(),  
  stroke = TRUE,  
  color = "#03F",  
  weight = 5,  
  opacity = 0.5,  
  fill = TRUE,  
  fillColor = color,  
  fillOpacity = 0.2,  
  dashArray = NULL,  
  smoothFactor = 1,  
)
```

```
    noClip = FALSE,
    pathOptions = leaflet::pathOptions(),
    highlightOptions = NULL
  )

  legendOptions(
    title = NULL,
    position = c("bottomleft", "bottomright", "topleft", "topright"),
    locale = "en-US",
    numberFormatOptions = list(style = "decimal", maximumFractionDigits = 2)
  )

  addGeoJSONChoropleth(
    map,
    geojson,
    layerId = NULL,
    group = NULL,
    valueProperty,
    labelProperty = NULL,
    labelOptions = leaflet::labelOptions(),
    popupProperty = NULL,
    popupOptions = leaflet::popupOptions(),
    scale = c("white", "red"),
    steps = 5,
    mode = "q",
    channelMode = c("rgb", "lab", "hsl", "lch"),
    padding = NULL,
    correctLightness = FALSE,
    bezierInterpolate = FALSE,
    colors = NULL,
    stroke = TRUE,
    color = "#03F",
    weight = 1,
    opacity = 0.5,
    fillOpacity = 0.2,
    dashArray = NULL,
    smoothFactor = 1,
    noClip = FALSE,
    pathOptions = leaflet::pathOptions(),
    highlightOptions = NULL,
    legendOptions = NULL
  )

  addKML(
    map,
    kml,
    layerId = NULL,
    group = NULL,
```

```
markerType = NULL,
markerIcons = NULL,
markerIconProperty = NULL,
markerOptions = leaflet::markerOptions(),
clusterOptions = NULL,
clusterId = NULL,
labelProperty = NULL,
labelOptions = leaflet::labelOptions(),
popupProperty = NULL,
popupOptions = leaflet::popupOptions(),
stroke = TRUE,
color = "#03F",
weight = 5,
opacity = 0.5,
fill = TRUE,
fillColor = color,
fillOpacity = 0.2,
dashArray = NULL,
smoothFactor = 1,
noClip = FALSE,
pathOptions = leaflet::pathOptions(),
highlightOptions = NULL
)

addKMLChoropleth(
  map,
  kml,
  layerId = NULL,
  group = NULL,
  valueProperty,
  labelProperty = NULL,
  labelOptions = leaflet::labelOptions(),
  popupProperty = NULL,
  popupOptions = leaflet::popupOptions(),
  scale = c("white", "red"),
  steps = 5,
  mode = "q",
  channelMode = c("rgb", "lab", "hsl", "lch"),
  padding = NULL,
  correctLightness = FALSE,
  bezierInterpolate = FALSE,
  colors = NULL,
  stroke = TRUE,
  color = "#03F",
  weight = 1,
  opacity = 0.5,
  fillOpacity = 0.2,
  dashArray = NULL,
```

```
    smoothFactor = 1,
    noClip = FALSE,
    pathOptions = leaflet::pathOptions(),
    highlightOptions = NULL,
    legendOptions = NULL
  )

  csvParserOptions(latfield, lonfield, delimiter = ",")

  addCSV(
    map,
    csv,
    csvParserOptions,
    layerId = NULL,
    group = NULL,
    markerType = NULL,
    markerIcons = NULL,
    markerIconProperty = NULL,
    markerOptions = leaflet::markerOptions(),
    clusterOptions = NULL,
    clusterId = NULL,
    labelProperty = NULL,
    labelOptions = leaflet::labelOptions(),
    popupProperty = NULL,
    popupOptions = leaflet::popupOptions(),
    stroke = TRUE,
    color = "#03F",
    weight = 5,
    opacity = 0.5,
    fill = TRUE,
    fillColor = color,
    fillOpacity = 0.2,
    dashArray = NULL,
    smoothFactor = 1,
    noClip = FALSE,
    pathOptions = leaflet::pathOptions(),
    highlightOptions = NULL
  )

  addGPX(
    map,
    gpx,
    layerId = NULL,
    group = NULL,
    markerType = NULL,
    markerIcons = NULL,
    markerIconProperty = NULL,
    markerOptions = leaflet::markerOptions(),
```

```

    clusterOptions = NULL,
    clusterId = NULL,
    labelProperty = NULL,
    labelOptions = leaflet::labelOptions(),
    popupProperty = NULL,
    popupOptions = leaflet::popupOptions(),
    stroke = TRUE,
    color = "#03F",
    weight = 5,
    opacity = 0.5,
    fill = TRUE,
    fillColor = color,
    fillOpacity = 0.2,
    dashArray = NULL,
    smoothFactor = 1,
    noClip = FALSE,
    pathOptions = leaflet::pathOptions(),
    highlightOptions = NULL
  )

```

Arguments

map	a map widget object created from leaflet()
geojson	a GeoJSON/TopoJSON URL or file contents in a character vector.
layerId	the layer id
group	the name of the group the newly created layers should belong to (for clearGroup and addLayersControl purposes). Human-friendly group names are permitted—they need not be short, identifier-style names. Any number of layers and even different types of layers (e.g. markers and polygons) can share the same group name.
markerType	The type of marker. Either <code>marker</code> or <code>circleMarker</code>
markerIcons	Icons for Marker. Can be a single marker using makeIcon or a list of markers using iconList
markerIconProperty	The property of the feature to use for marker icon. Can be a JS function which accepts a feature and returns an index of markerIcons. In either case the result must be one of the indexes of markerIcons.
markerOptions	The options for markers
clusterOptions	if not NULL, markers will be clustered using Leaflet.markercluster ; you can use markerClusterOptions() to specify marker cluster options
clusterId	the id for the marker cluster layer
labelProperty	The property to use for the label. You can also pass in a JS function that takes in a feature and returns a text/HTML content.
labelOptions	A Vector of labelOptions to provide label options for each label. Default NULL
popupProperty	The property to use for popup content You can also pass in a JS function that takes in a feature and returns a text/HTML content.

popupOptions	A Vector of popupOptions to provide popups
stroke	whether to draw stroke along the path (e.g. the borders of polygons or circles)
color	stroke color
weight	stroke width in pixels
opacity	stroke opacity (or layer opacity for tile layers)
fill	whether to fill the path with color (e.g. filling on polygons or circles)
fillColor	fill color
fillOpacity	fill opacity
dashArray	a string that defines the stroke dash pattern
smoothFactor	how much to simplify the polyline on each zoom level (more means better performance and less accurate representation)
noClip	whether to disable polyline clipping
pathOptions	Options for shapes
highlightOptions	Options for highlighting the shape on mouse over.
title	An optional title for the legend
position	legend position
locale	The numbers will be formatted using this locale
numberFormatOptions	Options for formatting numbers
valueProperty	The property to use for coloring
scale	The scale to use from chroma.js
steps	number of breakes
mode	q for quantile, e for equidistant, k for k-means
channelMode	Default "rgb", can be one of "rgb", "lab", "hsl", "lch"
padding	either a single number or a 2 number vector for clipping color values at ends.
correctLightness	whether to correct lightness
bezierInterpolate	whether to use bezier interpolate for determining colors
colors	overrides scale with manual colors
legendOptions	Options to show a legend.
kml	a KML URL or contents in a character vector.
latfield	field name for latitude
lonfield	field name for longitude
delimiter	field separator
csv	a CSV URL or contents in a character vector.
csvParserOptions	options for parsing the CSV. Use csvParserOptions() to supply csv parser options.
gpx	a GPX URL or contents in a character vector.

Examples

```
## addGeoJSONv2

geoJson <- readr::read_file(
  "https://rawgit.com/benbalter/dc-maps/master/maps/historic-landmarks-points.geojson"
)

leaflet() %>%
  setView(-77.0369, 38.9072, 12) %>%
  addProviderTiles(providers$CartoDB.Positron) %>%
  addWebGLGeoJSONHeatmap(
    geoJson,
    size = 30, units = "px"
  ) %>%
  addGeoJSONv2(
    geoJson,
    markerType = "circleMarker",
    stroke = FALSE, fillColor = "black", fillOpacity = 0.7,
    markerOptions = markerOptions(radius = 2)
  )

## for more examples see
# browseURL(system.file("examples/draw.R", package = "leaflet.extras"))
# browseURL(system.file("examples/geojsonv2.R", package = "leaflet.extras"))
# browseURL(system.file("examples/search.R", package = "leaflet.extras"))
# browseURL(system.file("examples/TopoJSON.R", package = "leaflet.extras"))

## addGeoJSONChoropleth

geoJson <- readr::read_file(
  "https://rawgit.com/benbalter/dc-maps/master/maps/ward-2012.geojson"
)

leaflet() %>%
  addTiles() %>%
  setView(-77.0369, 38.9072, 11) %>%
  addBootstrapDependency() %>%
  enableMeasurePath() %>%
  addGeoJSONChoropleth(
    geoJson,
    valueProperty = "AREASQMI",
    scale = c("white", "red"),
    mode = "q",
    steps = 4,
    padding = c(0.2, 0),
    labelProperty = "NAME",
    popupProperty = propstoHTMLTable(
      props = c("NAME", "AREASQMI", "REP_NAME", "WEB_URL", "REP_PHONE", "REP_EMAIL", "REP_OFFICE"),
      table.attrs = list(class = "table table-striped table-bordered"),
      drop.na = TRUE
    ),
  ),
```

```

    color = "ffffff", weight = 1, fillOpacity = 0.7,
    highlightOptions = highlightOptions(
      weight = 2, color = "#000000",
      fillOpacity = 1, opacity = 1,
      bringToFront = TRUE, sendToBack = TRUE
    ),
    pathOptions = pathOptions(
      showMeasurements = TRUE,
      measurementOptions = measurePathOptions(imperial = TRUE)
    )
  )
)

## for more examples see
# browseURL(system.file("examples/geojsonv2.R", package = "leaflet.extras"))
# browseURL(system.file("examples/measurePath.R", package = "leaflet.extras"))
# browseURL(system.file("examples/search.R", package = "leaflet.extras"))
# browseURL(system.file("examples/TopoJSON.R", package = "leaflet.extras"))

## addKML

kml <- readr::read_file(
  system.file("examples/data/kml/crimes.kml.zip", package = "leaflet.extras")
)

leaflet() %>%
  setView(-77.0369, 38.9072, 12) %>%
  addProviderTiles(providers$CartoDB.Positron) %>%
  addWebGLKMLHeatmap(kml, size = 20, units = "px") %>%
  addKML(
    kml,
    markerType = "circleMarker",
    stroke = FALSE, fillColor = "black", fillOpacity = 1,
    markerOptions = markerOptions(radius = 1)
  )

## addKMLChoropleth

kml <- readr::read_file(
  system.file("examples/data/kml/cb_2015_us_state_20m.kml.zip", package = "leaflet.extras")
)

leaflet() %>%
  addBootstrapDependency() %>%
  setView(-98.583333, 39.833333, 4) %>%
  addProviderTiles(providers$CartoDB.Positron) %>%
  addKMLChoropleth(
    kml,
    valueProperty = JS(
      "function(feature){
        var props = feature.properties;
        var aland = props.ALAND/100000;

```

```

        var awater = props.AWATER/100000;
        return 100*awater/(awater+aland);
    }"
  ),
  scale = "OrRd", mode = "q", steps = 5,
  padding = c(0.2, 0),
  popupProperty = "description",
  labelProperty = "NAME",
  color = "#ffffff", weight = 1, fillOpacity = 1,
  highlightOptions = highlightOptions(
    fillOpacity = 1, weight = 2, opacity = 1, color = "#000000",
    bringToFront = TRUE, sendToBack = TRUE
  ),
  legendOptions = legendOptions(
    title = "% of Water Area",
    numberFormatOptions = list(
      style = "decimal",
      maximumFractionDigits = 2
    )
  )
)
)

## addCSV

csv <- readr::read_file(
  system.file("examples/data/csv/world_airports.csv.zip", package = "leaflet.extras")
)

leaflet() %>%
  setView(0, 0, 2) %>%
  addProviderTiles(providers$CartoDB.DarkMatterNoLabels) %>%
  addCSV(
    csv,
    csvParserOptions("latitude_deg", "longitude_deg"),
    markerType = "circleMarker",
    stroke = FALSE, fillColor = "red", fillOpacity = 1,
    markerOptions = markerOptions(radius = 0.5)
  )

## addGPX

airports <- readr::read_file(
  system.file("examples/data/gpx/md-airports.gpx.zip", package = "leaflet.extras")
)

leaflet() %>%
  addBootstrapDependency() %>%
  setView(-76.6413, 39.0458, 8) %>%
  addProviderTiles(
    providers$CartoDB.Positron,
    options = providerTileOptions(detectRetina = TRUE)
  )

```

```

) %>%
addWebGLGPXHeatmap(airports, size = 20000, group = "airports", opacity = 0.9) %>%
addGPX(
  airports,
  markerType = "circleMarker",
  stroke = FALSE, fillColor = "black", fillOpacity = 1,
  markerOptions = markerOptions(radius = 1.5),
  group = "airports"
)

## for a larger example see
# browseURL(system.file("examples/GPX.R", package = "leaflet.extras"))

```

addHash	<i>Add dynamic URL Hash</i>
---------	-----------------------------

Description

Leaflet-hash lets you to add dynamic URL hashes to web pages with Leaflet maps. You can easily link users to specific map views.

Usage

```
addHash(map)
```

Arguments

map	The leaflet map
-----	-----------------

Examples

```

leaflet() %>%
  addTiles() %>%
  addHash()

```

addHeatmap	<i>Add a heatmap</i>
------------	----------------------

Description

Add a heatmap

Adds a heatmap with data from a GeoJSON/TopoJSON file/url

Adds a heatmap with data from a KML file/url

Adds a heatmap with data from a CSV file/url

Adds a heatmap with data from a GPX file/url

removes the heatmap

clears the heatmap

Usage

```
addHeatmap(  
  map,  
  lng = NULL,  
  lat = NULL,  
  intensity = NULL,  
  layerId = NULL,  
  group = NULL,  
  minOpacity = 0.05,  
  max = 1,  
  radius = 25,  
  blur = 15,  
  gradient = NULL,  
  cellSize = NULL,  
  data = leaflet::getMapData(map)  
)
```

```
addGeoJSONHeatmap(  
  map,  
  geojson,  
  layerId = NULL,  
  group = NULL,  
  intensityProperty = NULL,  
  minOpacity = 0.05,  
  max = 1,  
  radius = 25,  
  blur = 15,  
  gradient = NULL,  
  cellSize = NULL  
)
```

```
addKMLHeatmap(  
  map,  
  kml,  
  layerId = NULL,  
  group = NULL,
```

```
    intensityProperty = NULL,  
    minOpacity = 0.05,  
    max = 1,  
    radius = 25,  
    blur = 15,  
    gradient = NULL,  
    cellSize = NULL  
  )
```

```
addCSVHeatmap(  
  map,  
  csv,  
  csvParserOptions,  
  layerId = NULL,  
  group = NULL,  
  intensityProperty = NULL,  
  minOpacity = 0.05,  
  max = 1,  
  radius = 25,  
  blur = 15,  
  gradient = NULL,  
  cellSize = NULL  
)
```

```
addGPXHeatmap(  
  map,  
  gpx,  
  layerId = NULL,  
  group = NULL,  
  intensityProperty = NULL,  
  minOpacity = 0.05,  
  max = 1,  
  radius = 25,  
  blur = 15,  
  gradient = NULL,  
  cellSize = NULL  
)
```

```
removeHeatmap(map, layerId)
```

```
clearHeatmap(map)
```

Arguments

map	a map widget object created from <code>leaflet()</code>
lng	a numeric vector of longitudes, or a one-sided formula of the form <code>~x</code> where <code>x</code> is a variable in data; by default (if not explicitly provided), it will be automatically inferred from data by looking for a column named <code>lng</code> , <code>long</code> , or <code>longitude</code>

	(case-insensitively)
lat	a vector of latitudes or a formula (similar to the lng argument; the names lat and latitude are used when guessing the latitude column from data)
intensity	intensity of the heat. A vector of numeric values or a formula.
layerId	the layer id
group	the name of the group the newly created layers should belong to (for clearGroup and addLayersControl purposes). Human-friendly group names are permitted—they need not be short, identifier-style names. Any number of layers and even different types of layers (e.g. markers and polygons) can share the same group name.
minOpacity	minimum opacity at which the heat will start
max	maximum point intensity. The default is 1.0
radius	radius of each "point" of the heatmap. The default is 25.
blur	amount of blur to apply. The default is 15. blur=1 means no blur.
gradient	palette name from RColorBrewer or an array of colors to be provided to colorNumeric , or a color mapping function returned from colorNumeric
cellSize	the cell size in the grid. Points which are closer than this may be merged. Defaults to 'radius / 2'. Set to '1' to do almost no merging.
data	the data object from which the argument values are derived; by default, it is the data object provided to leaflet() initially, but can be overridden
geojson	The geojson or topojson url or contents as string.
intensityProperty	The property to use for determining the intensity at a point. Can be a "string" or a JS function, or NULL.
kml	The KML url or contents as string.
csv	The CSV url or contents as string.
csvParserOptions	options for parsing the CSV. Use csvParserOptions() to supply csv parser options.
gpx	The GPX url or contents as string.

Examples

```

leaflet(quakes) %>%
  addProviderTiles(providers$CartoDB.DarkMatter) %>%
  setView(178, -20, 5) %>%
  addHeatmap(
    lng = ~long, lat = ~lat, intensity = ~mag,
    blur = 20, max = 0.05, radius = 15
  )

## for more examples see
# browseURL(system.file("examples/heatmaps.R", package = "leaflet.extras"))
kml <- readr::read_file(
  system.file("examples/data/kml/crimes.kml.zip", package = "leaflet.extras")

```

```

)

leaflet() %>%
  setView(-77.0369, 38.9072, 12) %>%
  addProviderTiles(providers$CartoDB.Positron) %>%
  addKMLHeatmap(kml, radius = 7) %>%
  addKML(
    kml,
    markerType = "circleMarker",
    stroke = FALSE, fillColor = "black", fillOpacity = 1,
    markerOptions = markerOptions(radius = 1)
  )

## for more examples see
# browseURL(system.file("examples/KML.R", package = "leaflet.extras"))

```

addResetMapButton	<i>Reset map's view to original view</i>
-------------------	--

Description

Reset map's view to original view

Usage

```
addResetMapButton(map)
```

Arguments

map	The map widget
-----	----------------

Examples

```

leaflet() %>%
  addTiles() %>%
  addResetMapButton()

```

addSearchFeatures	<i>Add a feature search control to the map.</i>
-------------------	---

Description

Add a feature search control to the map.

Removes the feature search control from the map.

Clears the search marker

Usage

```
addSearchFeatures(map, targetGroups, options = searchFeaturesOptions())
```

```
removeSearchFeatures(map, clearFeatures = FALSE)
```

```
clearSearchFeatures(map)
```

Arguments

map	a map widget object
targetGroups	A vector of group names of groups whose features need to be searched.
options	Search Options
clearFeatures	Boolean. If TRUE the features that this control searches will be removed too.

Value

modified map
modified map
modified map

addSearchOSM	<i>Add a OSM search control to the map.</i>
--------------	---

Description

Add a OSM search control to the map.

Add a OSM search control to the map.

Removes the OSM search control from the map.

Clears the search marker

Add a Google search control to the map.

Removes the Google search control from the map.

Add a US Census Bureau search control to the map.

Removes the US Census Bureau search control from the map.

Usage

```
addSearchOSM(map, options = searchOptions(autoCollapse = TRUE, minLength = 2))
```

```
searchOSMText(map, text = "")
```

```
removeSearchOSM(map)
```

```
clearSearchOSM(map)
```

```

addReverseSearchOSM(
    map,
    showSearchLocation = TRUE,
    showBounds = FALSE,
    showFeature = TRUE,
    fitBounds = TRUE,
    displayText = TRUE,
    group = NULL,
    marker = list(icon = NULL),
    showFeatureOptions = list(weight = 2, color = "red", dashArray = "5,10", fillOpacity =
        0.2, opacity = 0.5),
    showBoundsOptions = list(weight = 2, color = "#444444", dashArray = "5,10", fillOpacity
        = 0.2, opacity = 0.5),
    showHighlightOptions = list(opacity = 0.8, fillOpacity = 0.5, weight = 5)
)

addSearchGoogle(
    map,
    apikey = Sys.getenv("GOOGLE_MAP_GEOCODING_KEY"),
    options = searchOptions(autoCollapse = TRUE, minLength = 2)
)

removeSearchGoogle(map)

addReverseSearchGoogle(
    map,
    apikey = Sys.getenv("GOOGLE_MAP_GEOCODING_KEY"),
    showSearchLocation = TRUE,
    showBounds = FALSE,
    showFeature = TRUE,
    fitBounds = TRUE,
    displayText = TRUE,
    group = NULL
)

addSearchUSCensusBureau(
    map,
    options = searchOptions(autoCollapse = TRUE, minLength = 20)
)

removeSearchUSCensusBureau(map)

```

Arguments

map	a map widget object
options	Search Options
text	The search text

showSearchLocation	Boolean. If TRUE displays a Marker on the searched location's coordinates.
showBounds	Boolean. If TRUE show the bounding box of the found feature.
showFeature	Boolean. If TRUE show the found feature. Depending upon the feature found this can be a marker, a line or a polygon.
fitBounds	Boolean. If TRUE set maps bounds to queried and found location. For this to be effective one of showSearchLocation, showBounds, showFeature should also be TRUE.
displayText	Boolean. If TRUE show a text box with found location's name on the map.
group	String. An optional group to hold all the searched locations and their results.
marker	Let's you set the icon. Can be an icon made by makeIcon or makeAwesomeIcon
showFeatureOptions	A list of styling options for the found feature
showBoundsOptions	A list of styling options for the bounds of the found feature
showHighlightOptions	A list of styling options for the hover effect of a found feature
apikey	String. API Key for Google GeoCoding Service.

Value

modified map
 modified map
 modified map
 modified map
 modified map
 modified map
 modified map
 modified map
 modified map
 modified map
 modified map

Examples

```
leaflet() %>%
  addProviderTiles(providers$Esri.WorldStreetMap) %>%
  addResetMapButton() %>%
  addSearchGoogle()

## for more examples see
# browseURL(system.file("examples/search.R", package = "leaflet.extras"))
```

addStyleEditor	<i>Add style editor</i>
----------------	-------------------------

Description

Add style editor

Remove style editor

Usage

```
addStyleEditor(
  map,
  position = c("topleft", "topright", "bottomleft", "bottomright"),
  openOnLeafletDraw = TRUE,
  useGrouping = FALSE,
  ...
)

removeStyleEditor(map)
```

Arguments

map	the map widget
position	position of the control
openOnLeafletDraw	whether to open automatically when used with addDrawToolbar()
useGrouping	Should be false to work with addDrawToolbar()
...	other options. See plugin code

Examples

```
leaflet() %>%
  setView(0, 0, 2) %>%
  addProviderTiles(providers$CartoDB.Positron) %>%
  addDrawToolbar(
    targetGroup = "draw",
    editOptions = editToolbarOptions(selectedPathOptions = selectedPathOptions())
  ) %>%
  addLayersControl(
    overlayGroups = c("draw"), options = layersControlOptions(collapsed = FALSE)
  ) %>%
  # add the style editor to alter shapes added to map
  addStyleEditor()
```

addWebGLHeatmap	<i>Add a webgl heatmap</i>
-----------------	----------------------------

Description

Add a webgl heatmap

Adds a heatmap with data from a GeoJSON/TopoJSON file/url

Adds a heatmap with data from a KML file/url

Adds a heatmap with data from a CSV file/url

Adds a heatmap with data from a GPX file/url

removes the webgl heatmap

clears the webgl heatmap

Usage

```
addWebGLHeatmap(  
  map,  
  lng = NULL,  
  lat = NULL,  
  intensity = NULL,  
  layerId = NULL,  
  group = NULL,  
  size = "30000",  
  units = "m",  
  opacity = 1,  
  gradientTexture = NULL,  
  alphaRange = 1,  
  data = leaflet::getMapData(map)  
)
```

```
addWebGLGeoJSONHeatmap(  
  map,  
  geojson,  
  layerId = NULL,  
  group = NULL,  
  intensityProperty = NULL,  
  size = "30000",  
  units = "m",  
  opacity = 1,  
  gradientTexture = NULL,  
  alphaRange = 1  
)
```

```
addWebGLKMLHeatmap(  
  map,
```

```

    kml,
    layerId = NULL,
    group = NULL,
    intensityProperty = NULL,
    size = "30000",
    units = "m",
    opacity = 1,
    gradientTexture = NULL,
    alphaRange = 1
  )

addWebGLCSVHeatmap(
  map,
  csv,
  csvParserOptions,
  layerId = NULL,
  group = NULL,
  intensityProperty = NULL,
  size = "30000",
  units = "m",
  opacity = 1,
  gradientTexture = NULL,
  alphaRange = 1
)

addWebGLGPXHeatmap(
  map,
  gpx,
  layerId = NULL,
  group = NULL,
  intensityProperty = NULL,
  size = "30000",
  units = "m",
  opacity = 1,
  gradientTexture = NULL,
  alphaRange = 1
)

removeWebGLHeatmap(map, layerId)

clearWebGLHeatmap(map)

```

Arguments

<code>map</code>	a map widget object created from <code>leaflet()</code>
<code>lng</code>	a numeric vector of longitudes, or a one-sided formula of the form <code>~x</code> where <code>x</code> is a variable in data; by default (if not explicitly provided), it will be automatically inferred from data by looking for a column named <code>lng</code> , <code>long</code> , or <code>longitude</code>

	(case-insensitively)
lat	a vector of latitudes or a formula (similar to the lng argument; the names lat and latitude are used when guessing the latitude column from data)
intensity	intensity of the heat. A vector of numeric values or a formula.
layerId	the layer id
group	the name of the group the newly created layers should belong to (for clearGroup and addLayersControl purposes). Human-friendly group names are permitted—they need not be short, identifier-style names. Any number of layers and even different types of layers (e.g. markers and polygons) can share the same group name.
size	in meters or pixels
units	either "m" or "px"
opacity	for the canvas element
gradientTexture	Alternative colors for heatmap. allowed values are "skyline", "deep-sea"
alphaRange	adjust transparency by changing to value between 0 and 1
data	the data object from which the argument values are derived; by default, it is the data object provided to <code>leaflet()</code> initially, but can be overridden
geojson	The geojson or topojson url or contents as string.
intensityProperty	The property to use for determining the intensity at a point. Can be a "string" or a JS function, or NULL.
kml	The KML url or contents as string.
csv	The CSV url or contents as string.
csvParserOptions	options for parsing the CSV. Use csvParserOptions() to supply csv parser options.
gpx	The GPX url or contents as string.

Examples

```
## addWebGLHeatmap
leaflet(quakes) %>%
  addProviderTiles(providers$CartoDB.DarkMatter) %>%
  addWebGLHeatmap(lng = ~long, lat = ~lat, size = 60000)

## for more examples see
# browseURL(system.file("examples/webglHeatmaps.R", package = "leaflet.extras"))
## addWebGLGeoJSONHeatmap

geoJson <- readr::read_file(
  "https://rawgit.com/benbalter/dc-maps/master/maps/historic-landmarks-points.geojson"
)

leaflet() %>%
```

```

setView(-77.0369, 38.9072, 12) %>%
addProviderTiles(providers$CartoDB.Positron) %>%
addWebGLGeoJSONHeatmap(
  geoJson,
  size = 30, units = "px"
) %>%
addGeoJSONv2(
  geoJson,
  markerType = "circleMarker",
  stroke = FALSE, fillColor = "black", fillOpacity = 0.7,
  markerOptions = markerOptions(radius = 2)
)

## for more examples see
# browseURL(system.file("examples/geojsonV2.R", package = "leaflet.extras"))
# browseURL(system.file("examples/TopoJSON.R", package = "leaflet.extras"))
## addWebGLKMLHeatmap

kml <- readr::read_file(
  system.file("examples/data/kml/crimes.kml.zip", package = "leaflet.extras")
)

leaflet() %>%
  setView(-77.0369, 38.9072, 12) %>%
  addProviderTiles(providers$CartoDB.Positron) %>%
  addWebGLKMLHeatmap(kml, size = 20, units = "px") %>%
  addKML(
    kml,
    markerType = "circleMarker",
    stroke = FALSE, fillColor = "black", fillOpacity = 1,
    markerOptions = markerOptions(radius = 1)
  )

## addWebGLCSVHeatmap

csv <- readr::read_file(
  system.file("examples/data/csv/world_airports.csv.zip", package = "leaflet.extras")
)

leaflet() %>%
  setView(0, 0, 2) %>%
  addProviderTiles(providers$CartoDB.DarkMatterNoLabels) %>%
  addWebGLCSVHeatmap(
    csv,
    csvParserOptions("latitude_deg", "longitude_deg"),
    size = 10, units = "px"
  )

airports <- readr::read_file(

```

```

    system.file("examples/data/gpx/md-airports.gpx.zip", package = "leaflet.extras")
  )

  leaflet() %>%
    addBootstrapDependency() %>%
    setView(-76.6413, 39.0458, 8) %>%
    addProviderTiles(
      providers$CartoDB.Positron,
      options = providerTileOptions(detectRetina = TRUE)
    ) %>%
    addWebGLGPXHeatmap(
      airports,
      size = 20000,
      group = "airports",
      opacity = 0.9
    ) %>%
    addGPX(
      airports,
      markerType = "circleMarker",
      stroke = FALSE, fillColor = "black", fillOpacity = 1,
      markerOptions = markerOptions(radius = 1.5),
      group = "airports"
    )

  ## for a larger example see
  # browseURL(system.file("examples/GPX.R", package = "leaflet.extras"))

```

addWMSLegend

Add WMS Legend

Description

Add a WMS Legend

Usage

```

addWMSLegend(
  map,
  uri,
  position = "topright",
  layerId = NULL,
  group = NULL,
  title = "",
  titleClass = "wms-legend-title",
  titleStyle = ""
)

```

Arguments

map	a map widget object created from <code>leaflet()</code>
uri	The legend URI
position	the position of the legend
layerId	When the layerId of the WMS layer is properly set, the legend will appear or disappear accordingly based on whether the layer is visible or not. If no layerId is given, it will try to get the layer name from the 'uri', otherwise a random ID will be assigned.
group	The group argument is not used. Please set the 'layerId' correctly.
title	A title that is prepended before the image.
titleClass	CSS-class for the title div
titleStyle	Style the title with CSS

Examples

```

leaflet() %>%
  addTiles() %>%
  setView(11, 51, 6) %>%
  addWMSTiles(
    baseUrl = "https://www.wms.nrw.de/wms/unfallatlas?request=GetMap",
    layers = c("Unfallorte", "Personenschaden_5000", "Personenschaden_250"),
    options = WMSTileOptions(format = "image/png", transparent = TRUE)
  ) %>%
  addWMSLegend(
    title = "Personenschaden_5000", titleStyle = "font-size:1em; font-weight:800",
    uri = paste0(
      "https://www.wms.nrw.de/wms/unfallatlas?request=",
      "GetLegendGraphic&version=1.3.0&",
      "format=image/png&layer=Personenschaden_5000"
    )
  )

```

debugMap

For debugging a leaflet map

Description

For debugging a leaflet map

Usage

```
debugMap(map)
```

Arguments

map	The map widget
-----	----------------

drawShapeOptions	<i>Options for drawn shapes</i>
------------------	---------------------------------

Description

Options for drawn shapes
Options for drawing polylines
Options for drawing polygons
Options for drawing rectangles
Options for drawing Circles
Options for drawing markers
Options for drawing markers
Options for path when in editMode
Options for editing shapes

Usage

```
drawShapeOptions(  
    stroke = TRUE,  
    color = "#03f",  
    weight = 1,  
    opacity = 1,  
    fill = TRUE,  
    fillColor = "#03f",  
    fillOpacity = 0.4,  
    dashArray = NULL,  
    lineCap = NULL,  
    lineJoin = NULL,  
    clickable = TRUE,  
    pointerEvents = NULL,  
    smoothFactor = 1,  
    noClip = TRUE  
)  
  
drawPolylineOptions(  
    allowIntersection = TRUE,  
    drawError = list(color = "#b00b00", timeout = 2500),  
    guidelineDistance = 20,  
    maxGuideLineLength = 4000,  
    showLength = TRUE,  
    metric = TRUE,  
    feet = TRUE,  
    nautic = FALSE,  
    zIndexOffset = 2000,
```

```
    shapeOptions = drawShapeOptions(fill = FALSE),
    repeatMode = FALSE
)

drawPolygonOptions(
  showArea = FALSE,
  metric = TRUE,
  shapeOptions = drawShapeOptions(),
  repeatMode = FALSE
)

drawRectangleOptions(
  showArea = TRUE,
  metric = TRUE,
  shapeOptions = drawShapeOptions(),
  repeatMode = FALSE
)

drawCircleOptions(
  showRadius = TRUE,
  metric = TRUE,
  feet = TRUE,
  nautic = FALSE,
  shapeOptions = drawShapeOptions(),
  repeatMode = FALSE
)

drawMarkerOptions(markerIcon = NULL, zIndexOffset = 2000, repeatMode = FALSE)

drawCircleMarkerOptions(
  stroke = TRUE,
  color = "#3388ff",
  weight = 4,
  opacity = 0.5,
  fill = TRUE,
  fillColor = NULL,
  fillOpacity = 0.2,
  clickable = TRUE,
  zIndexOffset = 2000,
  repeatMode = FALSE
)

selectedPathOptions(
  dashArray = c("10, 10"),
  weight = 2,
  color = "black",
  fill = TRUE,
  fillColor = "black",
```

```

    fillOpacity = 0.6,
    maintainColor = FALSE
)

editToolBarOptions(
    edit = TRUE,
    remove = TRUE,
    selectedPathOptions = NULL,
    allowIntersection = TRUE
)

```

Arguments

stroke	Whether to draw stroke along the path. Set it to false to disable borders on polygons or circles.
color	Stroke color.
weight	Stroke width in pixels.
opacity	Stroke opacity.
fill	Whether to fill the path with color. Set it to false to disable filling on polygons or circles.
fillColor	same as color Fill color.
fillOpacity	Fill opacity.
dashArray	A string that defines the stroke dash pattern. Doesn't work on canvas-powered layers (e.g. Android 2).
lineCap	A string that defines shape to be used at the end of the stroke.
lineJoin	A string that defines shape to be used at the corners of the stroke.
clickable	If false, the vector will not emit mouse events and will act as a part of the underlying map.
pointerEvents	Sets the pointer-events attribute on the path if SVG backend is used.
smoothFactor	How much to simplify the polyline on each zoom level. More means better performance and smoother look, and less means more accurate representation.
noClip	Disabled polyline clipping.
allowIntersection	Determines if line segments can cross.
drawError	Configuration options for the error that displays if an intersection is detected.
guidelineDistance	Distance in pixels between each guide dash.
maxGuideLineLength	Maximum length of the guide lines.
showLength	Whether to display the distance in the tooltip.
metric	Determines which measurement system (metric or imperial) is used.
feet	When not metric, use feet instead of yards for display.
nautic	When not metric, not feet, use nautic mile for display.

zIndexOffset	This should be a high number to ensure that you can draw over all other layers on the map.
shapeOptions	Leaflet Polyline options See drawShapeOptions() .
repeatMode	Determines if the draw tool remains enabled after drawing a shape.
showArea	Show the area of the drawn polygon in m ² , ha or km ² . The area is only approximate and become less accurate the larger the polygon is.
showRadius	Show the radius of the drawn circle in m, km, ft (feet), or nm (nautical mile).
markerIcon	Can be either makeIcon() OR makeAwesomeIcon
maintainColor	Whether to maintain shape's original color
edit	Editing enabled by default. Set to false to disable editing.
remove	Set to false to disable removing.
selectedPathOptions	To customize shapes in editing mode pass selectedPathOptions() .

edithandlersOptions *Options for editing edit handlers*

Description

Customize edit handlers for [addDrawToolbar](#)

Usage

```
edithandlersOptions(
  edit = list(tooltipText = "Drag handles or markers to edit features.", tooltipSubtext =
    "Click cancel to undo changes."),
  remove = list(tooltipText = "Click on a feature to remove.")
)
```

Arguments

edit	List of options for editing tooltips.
remove	List of options for removing tooltips.

edittoolbarOptions	<i>Options for editing the toolbar</i>
--------------------	--

Description

Customize the edit toolbar for [addDrawToolbar](#)

Usage

```
edittoolbarOptions(
  actions = list(save = list(title = "Save changes", text = "Save"), cancel = list(title
    = "Cancel editing, discards all changes", text = "Cancel"), clearAll = list(title =
    "Clear all layers", text = "Clear All")),
  buttons = list(edit = "Edit layers", editDisabled = "No layers to edit", remove =
    "Delete layers", removeDisabled = "No layers to delete")
)
```

Arguments

actions	List of options for edit action tooltips.
buttons	List of options for edit button tooltips.

enableMeasurePath	<i>Enables measuring of length of polylines and areas of polygons</i>
-------------------	---

Description

Enables measuring of length of polylines and areas of polygons

Options for measure-path

Adds a toolbar to enable/disable measuring path distances/areas

Usage

```
enableMeasurePath(map)

measurePathOptions(
  showOnHover = FALSE,
  minPixelDistance = 30,
  showDistances = TRUE,
  showArea = TRUE,
  imperial = FALSE
)

addMeasurePathToolbar(map, options = measurePathOptions())
```

Arguments

map	The map widget.
showOnHover	If TRUE, the measurements will only show when the user hovers the cursor over the path.
minPixelDistance	The minimum length a line segment in the feature must have for a measurement to be added.
showDistances	If FALSE, doesn't show distances along line segments of of a polyline/polygon.
showArea	If FALSE, doesn't show areas of a polyline/polygon.
imperial	If TRUE the distances/areas will be shown in imperial units.
options	The measurePathOptions.

Examples

```

geoJson <- readr::read_file(
  "https://rawgit.com/benbalter/dc-maps/master/maps/ward-2012.geojson"
)

leaflet() %>%
  addTiles() %>%
  setView(-77.0369, 38.9072, 11) %>%
  addBootstrapDependency() %>%
  enableMeasurePath() %>%
  addGeoJSONChoropleth(
    geoJson,
    valueProperty = "AREASQMI",
    scale = c("white", "red"),
    mode = "q",
    steps = 4,
    padding = c(0.2, 0),
    labelProperty = "NAME",
    popupProperty = propstoHTMLTable(
      props = c("NAME", "AREASQMI", "REP_NAME", "WEB_URL", "REP_PHONE", "REP_EMAIL", "REP_OFFICE"),
      table.attrs = list(class = "table table-striped table-bordered"),
      drop.na = TRUE
    ),
    color = "#ffffff", weight = 1, fillOpacity = 0.7,
    highlightOptions = highlightOptions(
      weight = 2, color = "#000000",
      fillOpacity = 1, opacity = 1,
      bringToFront = TRUE, sendToBack = TRUE
    ),
    pathOptions = pathOptions(
      showMeasurements = TRUE,
      measurementOptions = measurePathOptions(imperial = TRUE)
    )
  )

```

enableTileCaching	<i>Enables caching of Tiles</i>
-------------------	---------------------------------

Description

Enables caching of tiles locally in browser. See <https://github.com/MazeMap/Leaflet.TileLayer.PouchDBCached> for details. In addition to invoking this function, you should also pass useCache=TRUE & crossOrigin=TRUE in the [tileOptions](#) call and pass that to your [addTiles](#)'s options parameter.

Usage

```
enableTileCaching(map)
```

Arguments

map	The leaflet map
-----	-----------------

Examples

```
leaflet() %>%  
  enableTileCaching() %>%  
  addTiles(options = tileOptions(useCache = TRUE, crossOrigin = TRUE))  
  
## for more examples see  
# browseURL(system.file("examples/TileLayer-Caching.R", package = "leaflet.extras"))
```

geodesics	<i>Add Geodesic Lines & Circles</i>
-----------	---

Description

A geodesic line is the shortest path between two given positions on the earth surface. It's based on Vincenty's formulae implemented by [Chris Veness](#) for highest precision.

Add Lat/Long to a Geodesic Polyline.

Adds a Great Circle to the map.

Usage

```
addGeodesicPolylines(  
  map,  
  lng = NULL,  
  lat = NULL,  
  layerId = NULL,  
  group = NULL,
```

```
    steps = 10,  
    wrap = TRUE,  
    stroke = TRUE,  
    color = "#03F",  
    weight = 5,  
    opacity = 0.5,  
    dashArray = NULL,  
    smoothFactor = 1,  
    noClip = FALSE,  
    popup = NULL,  
    popupOptions = NULL,  
    label = NULL,  
    labelOptions = NULL,  
    options = pathOptions(),  
    highlightOptions = NULL,  
    icon = NULL,  
    showMarker = FALSE,  
    showStats = FALSE,  
    statsFunction = NULL,  
    markerOptions = NULL,  
    data = getMapData(map)  
)  
  
addLatLng(map, lat, lng, layerId = NULL)  
  
addGreatCircles(  
  map,  
  lat_center = NULL,  
  lng_center = NULL,  
  radius,  
  layerId = NULL,  
  group = NULL,  
  steps = 10,  
  wrap = TRUE,  
  stroke = TRUE,  
  color = "#03F",  
  weight = 5,  
  opacity = 0.5,  
  dashArray = NULL,  
  smoothFactor = 1,  
  noClip = FALSE,  
  popup = NULL,  
  popupOptions = NULL,  
  label = NULL,  
  labelOptions = NULL,  
  options = pathOptions(),  
  highlightOptions = NULL,  
  icon = NULL,
```

```

    fill = TRUE,
    showMarker = FALSE,
    showStats = FALSE,
    statsFunction = NULL,
    markerOptions = NULL,
    data = getMapData(map)
  )

```

Arguments

map	a map widget object created from leaflet()
lat, lng	lat/lng to add to the Geodesic
layerId	the layer id
group	the name of the group the newly created layers should belong to (for clearGroup and addLayersControl purposes). Human-friendly group names are permitted—they need not be short, identifier-style names. Any number of layers and even different types of layers (e.g. markers and polygons) can share the same group name.
steps	Defines how many intermediate points are generated along the path. More steps mean a smoother path.
wrap	Wrap line at map border (date line). Set to "false" if you want lines to cross the dateline (experimental, see noWrap-example on how to use)
stroke	whether to draw stroke along the path (e.g. the borders of polygons or circles)
color	stroke color
weight	stroke width in pixels
opacity	stroke opacity (or layer opacity for tile layers)
dashArray	a string that defines the stroke dash pattern
smoothFactor	how much to simplify the polyline on each zoom level (more means better performance and less accurate representation)
noClip	whether to disable polyline clipping
popup	a character vector of the HTML content for the popups (you are recommended to escape the text using htmlEscape() for security reasons)
popupOptions	A Vector of popupOptions to provide popups
label	a character vector of the HTML content for the labels
labelOptions	A Vector of labelOptions to provide label options for each label. Default NULL
options	a list of extra options for tile layers, popups, paths (circles, rectangles, polygons, ...), or other map elements
highlightOptions	Options for highlighting the shape on mouse over.
icon	the icon(s) for markers; an icon is represented by an R list of the form <code>list(iconUrl = "?", iconSize = c(x, y))</code> , and you can use icons() to create multiple icons; note when you use an R list that contains images as local files, these local image files will be base64 encoded into the HTML page so the icon images will still be available even when you publish the map elsewhere

showMarker	Should the nodes/center points be visualized as Markers?
showStats	This will create an L.Control with some information on the geodesics
statsFunction	A custom JS function to be showed in the info control
markerOptions	List of options for the markers. See markerOptions
data	the data object from which the argument values are derived; by default, it is the data object provided to <code>leaflet()</code> initially, but can be overridden
lat_center, lng_center	lat/lng for the center
radius	in meters
fill	whether to fill the path with color (e.g. filling on polygons or circles)

Examples

```
berlin <- c(52.51, 13.4)
losangeles <- c(34.05, -118.24)
santiago <- c(-33.44, -70.71)
tokio <- c(35.69, 139.69)
sydney <- c(-33.91, 151.08)
capetown <- c(-33.91, 18.41)
calgary <- c(51.05, -114.08)
hammerfest <- c(70.67, 23.68)
barrow <- c(71.29, -156.76)

df <- as.data.frame(rbind(hammerfest, calgary, losangeles, santiago, capetown, tokio, barrow))
names(df) <- c("lat", "lng")

leaflet(df) %>%
  addProviderTiles(providers$CartoDB.Positron) %>%
  addGeodesicPolylines(
    lng = ~lng, lat = ~lat, weight = 2, color = "red",
    steps = 50, opacity = 1
  ) %>%
  addCircleMarkers(df,
    lat = ~lat, lng = ~lng, radius = 3, stroke = FALSE,
    fillColor = "black", fillOpacity = 1
  )

## for more examples see
# browseURL(system.file("examples/geodesic.R", package = "leaflet.extras"))
```

Description

Options for the GPS Control

Add a gps to the Map.

Removes the GPS Control

Activate the GPS Control. You should have already added the GPS control before calling this method.

Deactivate the GPS Control. You should have already added the GPS control before calling this method.

Usage

```
gpsOptions(  
  position = "topleft",  
  activate = FALSE,  
  autoCenter = FALSE,  
  maxZoom = NULL,  
  setView = FALSE  
)  
  
addControlGPS(map, options = gpsOptions())  
  
removeControlGPS(map)  
  
activateGPS(map)  
  
deactivateGPS(map)
```

Arguments

position	Position of the Control
activate	If TRUE activates the GPS on addition.
autoCenter	If TRUE auto centers the map when GPS location changes
maxZoom	If set zooms to this level when auto centering
setView	If TRUE sets the view to the GPS location when found
map	a map widget object
options	Options for the GPS control.

Examples

```
leaflet() %>%  
  addTiles() %>%  
  addControlGPS()
```

handlersOptions	<i>Options for editing handlers</i>
-----------------	-------------------------------------

Description

Customize tooltips for [addDrawToolbar](#)

Usage

```
handlersOptions(
  polyline = list(error = "<strong>Error:</strong> shape edges cannot cross!",
    tooltipStart = "Click to start drawing line.", tooltipCont =
      "Click to start drawing line.", tooltipEnd = "Click to start drawing line."),
  polygon = list(tooltipStart = "Click to start drawing shape.", tooltipCont =
    "Click to start drawing shape.", tooltipEnd = "Click to start drawing shape."),
  rectangle = list(tooltipStart = "Click and drag to draw rectangle."),
  circle = list(tooltipStart = "Click map to place circle marker.", radius = "Radius"),
  marker = list(tooltipStart = "Click map to place marker."),
  circlemarker = list(tooltipStart = "Click and drag to draw circle."),
  simpleshape = list(tooltipEnd = "Release mouse to finish drawing.")
)
```

Arguments

polyline	List of options for polyline tooltips.
polygon	List of options for polygon tooltips.
rectangle	List of options for rectangle tooltips.
circle	List of options for circle tooltips.
marker	List of options for marker tooltips.
circlemarker	List of options for circlemarker tooltips.
simpleshape	List of options for simpleshape tooltips.

Examples

```
## Not run:
library(leaflet)
library(leaflet.extras)
leaflet() %>%
  addTiles() %>%
  addDrawToolbar(
    handlers = handlersOptions(
      polyline = list(
        tooltipStart = "Click It",
        tooltipCont = "Keep going",
        tooltipEnd = "Make it stop"
      ),
```

```

    ),
    polylineOptions = T, rectangleOptions = F, circleOptions = F,
    polygonOptions = F, markerOptions = F, circleMarkerOptions = F
  )

## End(Not run)

```

leafletExtrasDependencies

Various leaflet dependency functions for use in downstream packages

Description

Various leaflet dependency functions for use in downstream packages

Usage

```
leafletExtrasDependencies
```

Format

An object of class `list` of length 5.

propsToHTML

Converts GeoJSON Feature properties to HTML

Description

Converts GeoJSON Feature properties to HTML

Converts GeoJSON Feature properties to HTML Table.

Customize the leaflet widget style

Usage

```

propsToHTML(props, elem = NULL, elem.attrs = NULL)

propstoHTMLTable(props = NULL, table.attrs = NULL, drop.na = TRUE)

setMapWidgetStyle(map, style = list(background = "transparent"))

```

Arguments

props	A list of GeoJSON Property Keys.
elem	An optional wrapping element e.g. "div".
elem.attrs	An optional named list for the wrapper element properties.
table.attrs	An optional named list for the HTML Table.
drop.na	whether to skip properties with empty values.
map	the map widget
style	a A list of CSS key/value properties.

Examples

```

geoJson <- jsonlite::fromJSON(readr::read_file(
  paste0(
    "https://raw.githubusercontent.com/MinnPost/simple-map-d3",
    "/master/example-data/world-population.geo.json"
  )
))

world <- leaflet(
  options = leafletOptions(
    maxZoom = 5,
    crs = leafletCRS(
      crsClass = "L.Proj.CRS", code = "ESRI:53009",
      proj4def = "+proj=moll +lon_0=0 +x_0=0 +y_0=0 +a=6371000 +b=6371000 +units=m +no_defs",
      resolutions = c(65536, 32768, 16384, 8192, 4096, 2048)
    )
  )
) %>%
  addGraticule(style = list(color = "#999", weight = 0.5, opacity = 1, fill = NA)) %>%
  addGraticule(sphere = TRUE, style = list(color = "#777", weight = 1, opacity = 0.25, fill = NA))

world

# change background to white
world %>%
  setMapWidgetStyle(list(background = "white"))

```

pulseIconList

Make pulse-icon set

Description

An icon can be represented as a list of the form `list(color, iconSize, ...)`. This function is vectorized over its arguments to create a list of icon data. Shorter argument values will be re-cycled. NULL values for these arguments will be ignored.

Usage

```

pulseIconList(...)

## S3 method for class 'leaflet_pulse_icon_set'
x[i]

makePulseIcon(color = "#ff0000", iconSize = 12, animate = TRUE, heartbeat = 1)

pulseIcons(color = "#ff0000", iconSize = 12, animate = TRUE, heartbeat = 1)

addPulseMarkers(
  map,
  lng = NULL,
  lat = NULL,
  layerId = NULL,
  group = NULL,
  icon = NULL,
  popup = NULL,
  popupOptions = NULL,
  label = NULL,
  labelOptions = NULL,
  options = leaflet::markerOptions(),
  clusterOptions = NULL,
  clusterId = NULL,
  data = leaflet::getMapData(map)
)

```

Arguments

...	icons created from makePulseIcon()
x	icons
i	offset
color	Color of the icon
iconSize	Size of Icon in Pixels.
animate	To animate the icon or not, defaults to TRUE.
heartbeat	Interval between each pulse in seconds.
map	a map widget object created from leaflet()
lng	a numeric vector of longitudes, or a one-sided formula of the form ~x where x is a variable in data; by default (if not explicitly provided), it will be automatically inferred from data by looking for a column named lng, long, or longitude (case-insensitively)
lat	a vector of latitudes or a formula (similar to the lng argument; the names lat and latitude are used when guessing the latitude column from data)
layerId	the layer id

group	the name of the group the newly created layers should belong to (for <code>clearGroup</code> and <code>addLayersControl</code> purposes). Human-friendly group names are permitted—they need not be short, identifier-style names. Any number of layers and even different types of layers (e.g. markers and polygons) can share the same group name.
icon	the icon(s) for markers; an icon is represented by an R list of the form <code>list(iconUrl = "?", iconSize = c(x, y))</code> , and you can use <code>icons()</code> to create multiple icons; note when you use an R list that contains images as local files, these local image files will be base64 encoded into the HTML page so the icon images will still be available even when you publish the map elsewhere
popup	a character vector of the HTML content for the popups (you are recommended to escape the text using <code>htmlEscape()</code> for security reasons)
popupOptions	A Vector of <code>popupOptions</code> to provide popups
label	a character vector of the HTML content for the labels
labelOptions	A Vector of <code>labelOptions</code> to provide label options for each label. Default NULL
options	a list of extra options for tile layers, popups, paths (circles, rectangles, polygons, ...), or other map elements
clusterOptions	if not NULL, markers will be clustered using <code>Leaflet.markercluster</code> ; you can use <code>markerClusterOptions()</code> to specify marker cluster options
clusterId	the id for the marker cluster layer
data	the data object from which the argument values are derived; by default, it is the data object provided to <code>leaflet()</code> initially, but can be overridden

Examples

```

iconSet <- pulseIconList(
  red = makePulseIcon(color = "#ff0000"),
  blue = makePulseIcon(color = "#0000ff")
)

iconSet[c("red", "blue")]

leaflet() %>%
  addTiles() %>%
  addPulseMarkers(
    lng = -118.456554, lat = 34.078039,
    label = "This is a label",
    icon = makePulseIcon(heartbeat = 0.5)
  )

## for more examples see
# browseURL(system.file("examples/pulseIcon.R", package = "leaflet.extras"))

```

searchOptions	<i>Options for search control.</i>
---------------	------------------------------------

Description

Options for search control.

Customized searchOptions for Feature Search

Usage

```
searchOptions(  
  url = NULL,  
  sourceData = NULL,  
  jsonpParam = NULL,  
  propertyLoc = NULL,  
  propertyName = NULL,  
  formatData = NULL,  
  filterData = NULL,  
  moveToLocation = TRUE,  
  zoom = 17,  
  buildTip = NULL,  
  container = "",  
  minLength = 1,  
  initial = TRUE,  
  casesensitive = FALSE,  
  autoType = TRUE,  
  delayType = 400,  
  tooltipLimit = -1,  
  tipAutoSubmit = TRUE,  
  firstTipSubmit = FALSE,  
  autoResize = TRUE,  
  collapsed = TRUE,  
  autoCollapse = FALSE,  
  autoCollapseTime = 1200,  
  textErr = "Location Not Found",  
  textCancel = "Cancel",  
  textPlaceholder = "Search...",  
  position = "topleft",  
  hideMarkerOnCollapse = FALSE,  
  marker = list(icon = NULL, animate = TRUE, circle = list(radius = 10, weight = 3, color  
    = "#e03", stroke = TRUE, fill = FALSE))  
)  
  
searchFeaturesOptions(  
  propertyName = "label",  
  initial = FALSE,
```

```

    openPopup = FALSE,
    ...
)

```

Arguments

url	url for search by ajax request, ex: 'search.php?q={s}'. Can be function that returns string for dynamic parameter setting.
sourceData	function that fill _recordsCache, passed searching text by first param and callback in second.
jsonpParam	jsonp param name for search by jsonp service, ex: "callback".
propertyLoc	field for remapping location, using array: ["latname", "lonname"] for select double fields(ex. ["lat", "lon"]) support dotted format: "prop.subprop.title".
propertyName	property in marker.options(or feature.properties for vector layer) trough filter elements in layer,.
formatData	callback for reformat all data from source to indexed data object.
filterData	callback for filtering data from text searched, params: textSearch, allRecords.
moveToLocation	whether to move to the found location.
zoom	zoom to this level when moving to location
buildTip	function that return row tip html node(or html string), receive text tooltip in first param.
container	container id to insert Search Control.
minLength	minimal text length for autocomplete.
initial	search elements only by initial text.
casesensitive	search elements in case sensitive text.
autoType	complete input with first suggested result and select this filled-in text..
delayType	delay while typing for show tooltip.
tooltipLimit	limit max results to show in tooltip. -1 for no limit..
tipAutoSubmit	auto map panTo when click on tooltip.
firstTipSubmit	auto select first result con enter click.
autoResize	autoresize on input change.
collapsed	collapse search control at startup.
autoCollapse	collapse search control after submit(on button or on tips if enabled tipAutoSubmit).
autoCollapseTime	delay for autoclosing alert and collapse after blur.
textErr	'Location not error message.
textCancel	title in cancel button.
textPlaceholder	placeholder value.
position	"topleft".

hideMarkerOnCollapse	remove circle and marker on search control collapsed.
marker	Let's you set the icon. Can be an icon made by makeIcon or makeAwesomeIcon
openPopup	whether to open the popup associated with the feature when the feature is searched for
...	Other options to pass to searchOptions() function.

suspendScroll	<i>Prevents accidental map scrolling when scrolling in a document.</i>
---------------	--

Description

Prevents accidental map scrolling when scrolling in a document.

Usage

```
suspendScroll(
  map,
  sleep = TRUE,
  sleepTime = 750,
  wakeTime = 750,
  sleepNote = TRUE,
  hoverToWake = TRUE,
  wakeMessage = "Click or Hover to Wake",
  sleepOpacity = 0.7
)
```

Arguments

map	The leaflet map
sleep	false if you want an unruly map
sleepTime	time(ms) until map sleeps on mouseout
wakeTime	time(ms) until map wakes on mouseover
sleepNote	should the user receive wake instructions?
hoverToWake	should hovering wake the map? (non-touch devices only)
wakeMessage	a message to inform users about waking the map
sleepOpacity	opacity for the sleeping map

Examples

```
leaflet(width = "100%") %>%
  setView(0, 0, 1) %>%
  addTiles() %>%
  suspendScroll()
```

toolbarOptions	<i>Options for editing the toolbar</i>
----------------	--

Description

Customize the toolbar for [addDrawToolbar](#)

Usage

```
toolbarOptions(
  actions = list(title = "Cancel drawing", text = "Cancel"),
  finish = list(title = "Finish drawing", text = "Finish"),
  undo = list(title = "Delete last point drawn", text = "Delete last point"),
  buttons = list(polyline = "Draw a polyline", polygon = "Draw a polygon", rectangle =
    "Draw a rectangle", circle = "Draw a circle", marker = "Draw a marker", circlemarker =
    "Draw a circlemarker")
)
```

Arguments

actions	List of options for actions toolbar button.
finish	List of options for finish toolbar button.
undo	List of options for undo toolbar button.
buttons	List of options for buttons toolbar button.

Examples

```
## Not run:
library(leaflet)
library(leaflet.extras)
leaflet() %>%
  addTiles() %>%
  addDrawToolbar(
    toolbar = toolbarOptions(
      actions = list(text = "STOP"),
      finish = list(text = "DONE"),
      buttons = list(
        polyline = "Draw a sexy polyline",
        rectangle = "Draw a gigantic rectangle",
        circlemarker = "Make a nice circle"
      ),
    ),
    polylineOptions = T, rectangleOptions = T, circleOptions = T,
    polygonOptions = F, markerOptions = F, circleMarkerOptions = F
  )

## End(Not run)
```

weatherIconList	<i>Make weather-icon set</i>
-----------------	------------------------------

Description

An icon can be represented as a list of the form `list(icon, markerColor, ...)`. This function is vectorized over its arguments to create a list of icon data. Shorter argument values will be re-cycled. NULL values for these arguments will be ignored.

Usage

```
weatherIconList(...)

## S3 method for class 'leaflet_weather_icon_set'
x[i]

makeWeatherIcon(
  icon,
  markerColor = "red",
  iconColor = "white",
  extraClasses = NULL
)

weatherIcons(
  icon,
  markerColor = "red",
  iconColor = "white",
  extraClasses = NULL
)

addWeatherMarkers(
  map,
  lng = NULL,
  lat = NULL,
  layerId = NULL,
  group = NULL,
  icon = NULL,
  popup = NULL,
  popupOptions = NULL,
  label = NULL,
  labelOptions = NULL,
  options = leaflet::markerOptions(),
  clusterOptions = NULL,
  clusterId = NULL,
  data = leaflet::getMapData(map)
)
```

Arguments

...	icons created from <code>makeWeatherIcon()</code>
x	icons
i	offset
icon	the weather icon name w/o the "wi-" prefix. For a full list see https://erikflowers.github.io/weather-icons/
markerColor	color of the marker
iconColor	color of the weather icon
extraClasses	Character vector of extra classes.
map	a map widget object created from <code>leaflet()</code>
lng	a numeric vector of longitudes, or a one-sided formula of the form <code>~x</code> where <code>x</code> is a variable in data; by default (if not explicitly provided), it will be automatically inferred from data by looking for a column named <code>lng</code> , <code>long</code> , or <code>longitude</code> (case-insensitively)
lat	a vector of latitudes or a formula (similar to the <code>lng</code> argument; the names <code>lat</code> and <code>latitude</code> are used when guessing the latitude column from data)
layerId	the layer id
group	the name of the group the newly created layers should belong to (for <code>clearGroup</code> and <code>addLayersControl</code> purposes). Human-friendly group names are permitted—they need not be short, identifier-style names. Any number of layers and even different types of layers (e.g. markers and polygons) can share the same group name.
popup	a character vector of the HTML content for the popups (you are recommended to escape the text using <code>htmlEscape()</code> for security reasons)
popupOptions	A Vector of <code>popupOptions</code> to provide popups
label	a character vector of the HTML content for the labels
labelOptions	A Vector of <code>labelOptions</code> to provide label options for each label. Default NULL
options	a list of extra options for tile layers, popups, paths (circles, rectangles, polygons, ...), or other map elements
clusterOptions	if not NULL, markers will be clustered using <code>Leaflet.markercluster</code> ; you can use <code>markerClusterOptions()</code> to specify marker cluster options
clusterId	the id for the marker cluster layer
data	the data object from which the argument values are derived; by default, it is the data object provided to <code>leaflet()</code> initially, but can be overridden

Examples

```

iconSet <- weatherIconList(
  hurricane = makeWeatherIcon(icon = "hurricane"),
  tornado = makeWeatherIcon(icon = "tornado")
)

iconSet[c("hurricane", "tornado")]

```

```
leaflet() %>%  
  addTiles() %>%  
  addWeatherMarkers(  
    lng = -118.456554, lat = 34.078039,  
    label = "This is a label",  
    icon = makeWeatherIcon(  
      icon = "hot",  
      iconColor = "#ffffff77",  
      markerColor = "blue"  
    )  
  )  
)  
  
## for more examples see  
# browseURL(system.file("examples/weatherIcons.R", package = "leaflet.extras"))
```

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