Package 'leaflet.extras2'

August 21, 2023

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|---|
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| R topics documented: |
| addAntpath addArrowhead addContextmenu |

| addEasyprint | 9 |
|---------------------------------------|---------------------|
| addGIBS | 10 |
| addHeightgraph | 11 |
| addHexbin | 13 |
| addHistory | 15 |
| addItemContextmenu | 16 |
| | 16 |
| | 17 |
| | 18 |
| · · · · · · · · · · · · · · · · · · · | 19 |
| | 21 |
| | 22 |
| | 24 |
| | 25 |
| | 28 |
| | 29 |
| | 30 |
| | 31 |
| 1 | 32 |
| 6 | 33 |
| | 35 |
| | 36 |
| | 38 |
| 1 1 | 39 |
| 1 | 40 |
| T | 41 |
| | 12 |
| | 12 12 |
| | 13 |
| | +3 43 |
| | +3 14 |
| | 17 15 |
| | +5 45 |
| | +3 46 |
| | +0 47 |
| 71 | + / 48 |
| | +0 49 |
| | |
| 8 7 | 50 50 |
| 8 | 50 |
| 8 | 51 |
| 8 8 1 | 51 |
| - I | 53 |
| | 54 |
| | 55 |
| J - P | 55 |
| | 57 |
| | 57 |
| leaflet extras? | 58 |

| R | topics | documented: |
|---|--------|-------------|
|---|--------|-------------|

| | | 3 |
|---|--|----|
| | | 58 |
| • | | 59 |
| | | 60 |

| leafletsyncOptions | . 58 |
|---------------------------|----------|
| makeMapkeyIcon | . 59 |
| mapkeyIconList | . 60 |
| mapkeyIcons | |
| mapmenuItems | |
| markermenuItems | . 63 |
| menuItem | |
| novingMarkerOptions | . 64 |
| ppenSidebar | . 65 |
| ppenweatherCurrentOptions | |
| openweatherOptions | |
| playbackOptions | |
| reachabilityOptions | |
| emoveallItemsContextmenu | |
| emoveAntpath | |
| removeArrowhead | |
| emoveEasyprint | |
| emoveItemContextmenu | |
| emovePlayback | |
| emoveReachability | |
| emoveSidebar | |
| emoveSidebyside | |
| emoveTimeslider | |
| emoveVelocity | |
| etDate | |
| setDisabledContextmenu | |
| setOptionsVelocity | |
| setTransparent | |
| showContextmenu | |
| showHexbin | |
| sidebar_pane | |
| sidebar_tabs | |
| startMoving | |
| imesliderOptions | |
| o_jsonformat | |
| o_ms | |
| unsync | |
| updateHexbin | |
| velocityOptions | |
| [.leaflet_mapkey_icon_set | |
| [.icumet_mapheticom_bot | . 07 |

4 addAntpath

addAntpath

Add Antpath Lines

Description

Can be used almost exactly like addPolylines but instead of pathOptions you can use antpathOptions to adapt the Antpath behaviour. See leaflet-ant-path for further details.

Usage

```
addAntpath(
  map,
  lng = NULL,
  lat = NULL,
  layerId = NULL,
  group = NULL,
  stroke = TRUE,
  color = "#03F",
 weight = 5,
  opacity = 0.5,
  fill = FALSE,
  fillColor = color,
  fillOpacity = 0.2,
  dashArray = NULL,
  smoothFactor = 1,
  noClip = FALSE,
  popup = NULL,
  popupOptions = NULL,
  label = NULL,
  labelOptions = NULL,
  options = antpathOptions(),
 highlightOptions = NULL,
  data = 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 $\sim x$ 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 |

addAntpath 5

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.

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 per-

formance 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 named list of options. See antpathOptions

highlightOptions

Options for highlighting the shape on mouse over.

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

Value

A modified leaflet map, with an 'ant-path' animated polyline

References

```
https://github.com/rubenspgcavalcante/leaflet-ant-path
```

See Also

```
Other Antpath Functions: antpathOptions(), clearAntpath(), removeAntpath()
```

```
library(leaflet)
leaflet() %>%
  addAntpath(data = atlStorms2005)
```

6 addArrowhead

addArrowhead

Add Lines with an arrowhead

Description

Can be used almost exactly like addPolylines but instead of pathOptions you can use arrowheadOptions. See leaflet-arrowheads for further details.

Usage

```
addArrowhead(
  map,
  lng = NULL,
  lat = NULL,
  layerId = NULL,
  group = NULL,
  stroke = TRUE,
  color = "#03F",
 weight = 5,
  opacity = 0.5,
  fill = FALSE,
  fillColor = color,
  fillOpacity = 0.2,
  dashArray = NULL,
  smoothFactor = 1,
  noClip = FALSE,
  popup = NULL,
  popupOptions = NULL,
  label = NULL,
  labelOptions = NULL,
  options = arrowheadOptions(),
  highlightOptions = NULL,
  data = 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 $\sim x$ 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 |

addArrowhead 7

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.

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 per-

formance 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 named list of options. See arrowheadOptions

highlightOptions

Options for highlighting the shape on mouse over.

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

Value

A modified leaflet map with a polyline with arrowheads

References

```
https://github.com/slutske22/leaflet-arrowheads
```

See Also

Other Arrowhead Functions: arrowheadOptions(), clearArrowhead(), removeArrowhead()

```
library(leaflet)
leaflet() %>%
  addArrowhead(data = atlStorms2005)
```

8 addContextmenu

addContextmenu

Add contextmenu Plugin

Description

Add a contextmenu to the map or markers/vector layers.

Usage

addContextmenu(map)

Arguments

map

a map widget object created from leaflet

Details

This function is only used to include the required JavaScript and CSS bindings and to set up some Shiny event handlers.

Contextmenu initialization: The contextmenu for

- the **map** must be defined in leafletOptions.
- the markers/vector layers must be defined in markerOptions or pathOptions.

Contextmenu selection: When a contextmenu is selected, a Shiny input with the ID "MAPID_contextmenu_select" is set ('MAPID' refers to the map's id).

If the selected contextmenu item is triggered from:

- the **map**, the returned list contains the text of the item.
- the **markers**, the returned list also contains the layerId, group, lat, lng and label.
- the **vector layers**, the returned list also contains the layerId, group and label.

Value

A leaflet map object

References

https://github.com/aratcliffe/Leaflet.contextmenu

See Also

Other Contextmenu Functions: addItemContextmenu(), context_mapmenuItems(), context_markermenuItems(), context_menuItem(), disableContextmenu(), enableContextmenu(), hideContextmenu(), insertItemContextmenu(mapmenuItems(), markermenuItems(), menuItem(), removeItemContextmenu(), removeallItemsContextmenu(), setDisabledContextmenu(), showContextmenu()

addEasyprint 9

Examples

```
library(leaflet)
leaflet(options = leafletOptions(
    contextmenu = TRUE,
   contextmenuWidth = 200,
    contextmenuItems =
    context_mapmenuItems(
       context_menuItem("Zoom Out", "function(e) {this.zoomOut()}", disabled=FALSE),
       context_menuItem("Zoom In", "function(e) {this.zoomIn()}")))) %>%
  addTiles(group = "base") %>%
  addContextmenu() %>%
  addMarkers(data = breweries91, label = ~brewery,
          layerId = ~founded, group = "marker",
          options = markerOptions(
            contextmenu = TRUE,
            contextmenuWidth = 200,
            contextmenuItems =
              context_markermenuItems(
                context_menuItem(text = "Show Marker Coords",
                         callback = "function(e) {alert(e.latlng);}",
                         index = 1)
          ))
```

addEasyprint

Add easyPrint Plugin

Description

Add a control, which allows to print or export a map as .PNG.

Usage

```
addEasyprint(map, options = easyprintOptions())
```

Arguments

map a map widget object created from leaflet
options A named list of options. See easyprintOptions

Value

A leaflet map object

References

https://github.com/rowanwins/leaflet-easyPrint

10 addGIBS

See Also

Other EasyPrint Functions: easyprintMap(), easyprintOptions(), removeEasyprint()

Examples

```
library(leaflet)
leaflet() %>%
  addTiles() %>%
  addEasyprint(options = easyprintOptions(
    title = 'Print map',
    position = 'bottomleft',
    exportOnly = TRUE))
```

addGIBS

Add GIBS Layers

Description

A leaflet plugin for NASA EOSDIS GIBS imagery integration. 154 products are available. The date can be set dynamically for multi-temporal products. No-data pixels of MODIS Multiband Imagery can be made transparent.

Usage

```
addGIBS(
  map,
  layers = NULL,
  group = NULL,
  dates = NULL,
  opacity = 0.5,
  transparent = TRUE
)
```

Arguments

| map | a map widget object created from leaflet() |
|-------------|---|
| layers | A character vector of GIBS-layers. See gibs_layers |
| 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. |
| dates | Date object. If multiple layers are added, you can add a Date vector of the same length |
| opacity | Numeric value determining the opacity. If multiple layers are added, you can add a numeric vector of the same length |
| transparent | Should the layer be transparent. If multiple layers are added, you can add a boolean vector of the same length |

addHeightgraph 11

Value

the new map object

References

```
https://github.com/aparshin/leaflet-GIBS
```

See Also

```
Other GIBS Functions: setDate(), setTransparent()
```

Examples

addHeightgraph

Add a Heightgraph layer

Description

Visualize height information and road attributes of linestring segments. The linestrings must be a Simple Feature LINESTRING Z and are transformed to GeoJSON. The function therefore inherits arguments from addGeoJSON.

```
addHeightgraph(
  map,
  data = NULL,
  columns = NULL,
  layerId = NULL,
  group = NULL,
  color = "#03F",
  weight = 5,
  opacity = 0.5,
  dashArray = NULL,
  smoothFactor = 1,
```

12 addHeightgraph

```
noClip = FALSE,
pathOpts = leaflet::pathOptions(),
options = heightgraphOptions()
)
```

Arguments

map a map widget object created from leaflet()
data A Simple Feature LINESTRING with Z dimension.

columns A character vector of the columns you want to include in the heightgraph control

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.

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 per-

formance and less accurate representation)

noClip whether to disable polyline clipping

pathOpts List of further options for the path. See pathOptions options List of further plugin options. See heightgraphOptions

Value

the new map object

Note

When used in Shiny, 3 events update a certain Shiny Input:

- 1. A click updates input\$MAPID_heightgraph_click
- 2. A mouseover updates input\$MAPID_heightgraph_mouseover
- 3. A mouseout updates input\$MAPID_heightgraph_mouseout

If you want to explicitly remove the Heightgraph control, please use removeControl with the layerId = "hg_control".

References

https://github.com/GIScience/Leaflet.Heightgraph

addHexbin 13

See Also

Other Heightgraph Functions: heightgraphOptions()

Examples

```
## Not run:
library(leaflet)
library(leaflet.extras2)
library(sf)
data <- st_cast(st_as_sf(leaflet::atlStorms2005[4,]), "LINESTRING")</pre>
data <- st_transform(data, 4326)</pre>
data <- data.frame(st_coordinates(data))</pre>
data$elev <- runif(nrow(data), 10, 500)</pre>
data$L1 <- NULL
L1 <- round(seq.int(1, 4, length.out = nrow(data)))
data <- st_as_sf(st_sfc(lapply(split(data, L1), sfg_linestring)))</pre>
data <- st_as_sf(st_sfc(lapply(split(data, L1), function(x) {</pre>
    st_linestring(as.matrix(x))
})))
data$steepness <- 1:nrow(data)</pre>
data$suitability <- nrow(data):1</pre>
data$popup <- apply(data, 1, function(x) {</pre>
 sprintf("Steepness: %s<br>Suitability: %s", x$steepness, x$suitability)
})
leaflet() %>%
  addTiles(group = "base") %>%
  addHeightgraph(color = "red", columns = c("steepness", "suitability"),
                  opacity = 1, data = data, group = "heightgraph",
                  options = heightgraphOptions(width = 400))
## End(Not run)
```

addHexbin

Add a Hexbin layer

Description

Create dynamic hexbin-based heatmaps on Leaflet maps. This plugin leverages the data-binding power of d3 to allow you to dynamically update the data and visualize the transitions.

```
addHexbin(
  map,
  lng = NULL,
  lat = NULL,
  radius = 20,
```

14 addHexbin

```
layerId = NULL,
group = NULL,
opacity = 0.5,
options = hexbinOptions(),
data = 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 ~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)

radius Radius of the hexbin layer

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.

opacity Opacity of the hexbin layer

options List of further options. See hexbinOptions

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

Value

the new map object

Note

Currently doesn't respect layerId nor group.

References

```
https://github.com/bluehalo/leaflet-d3#hexbins-api
```

See Also

```
Other Hexbin-D3 Functions: clearHexbin(), hexbinOptions(), hideHexbin(), showHexbin(), updateHexbin()
```

addHistory 15

Examples

addHistory

Add History Plugin

Description

The plugin enables tracking of map movements in a history similar to a web browser. By default, it is a simple pair of buttons – back and forward.

Usage

```
addHistory(map, layerId = NULL, options = historyOptions())
```

Arguments

map a map widget object created from leaflet

layerId the control id

options A named list of options. See historyOptions

Value

the new map object

References

```
https://github.com/cscott530/leaflet-history
```

See Also

```
Other History Functions: clearFuture(), clearHistory(), goBackHistory(), goForwardHistory(), historyOptions()
```

16 addLabelgun

Examples

```
library(leaflet)
leaflet() %>%
  addTiles() %>%
  addHistory()
```

addItemContextmenu

addItemContextmenu

Description

Add a new contextmenu menu item

Usage

```
addItemContextmenu(map, option)
```

Arguments

map a map widget object created from leaflet

option new menu item to add

Value

A leaflet map object

See Also

Other Contextmenu Functions: addContextmenu(), context_mapmenuItems(), context_markermenuItems(), context_menuItem(), disableContextmenu(), enableContextmenu(), hideContextmenu(), insertItemContextmenu(mapmenuItems(), markermenuItems(), menuItem(), removeItemContextmenu(), removeallItemsContextmenu(), setDisabledContextmenu(), showContextmenu()

addLabelgun

Add addLabelgun Plugin

Description

The plugin allows to avoid cluttering in marker labels and gives priority to labels of your choice (with higher weight).

```
addLabelgun(map, group = NULL, weight = NULL, entries = NULL)
```

addLeafletsync 17

Arguments

| map | A map widget object created from leaflet |
|---------|--|
| group | The group name of the layer/s for which label collisions are to be avoided. To see the effects of this plugin the labelOptions of the markers must be configured with either permanent = TRUE or noHide = TRUE. |
| weight | An optional weight for markers. If a vector is given, the length should match the number of all markers in the corresponding groups. If a numeric value is specified, it is used for each marker and thus no prioritization of the labels takes place. In all other cases a random integer is calculated. |
| entries | A numeric value, a higher value relates to faster insertion and slower search, and vice versa. The default is 10 |

Value

A leaflet map object

Note

It is important to invoke the function after the markers have been added to the map. Otherwise nothing will happen.

References

```
https://github.com/Geovation/labelgun
```

| p | Synchronize multiple | addLeafletsync |
|---|----------------------|----------------|
|---|----------------------|----------------|

Description

The plugin allows you to synchronize and unsynchronize multiple leaflet maps in a Shiny application. You can pass additional options to leafletsyncOptions. For more information see Leaflet.Sync

```
addLeafletsync(
  map,
  ids = NULL,
  synclist = "all",
  options = leafletsyncOptions()
)
```

Arguments

map the map

ids the map ids to be synced. If you use a synclist, you may leave it NULL. The

unique names and values of synclist will be used.

synclist The synchronization list. The default is 'all', which creates a list of all possible

combinations of ids. For a more detailed control, a named list can be passed in this form list(m1 = c("m2", "m3"), m2 = c("m1", "m3"), m3 = c("m1", "m2")), where the names and values represent map-ids. The names of the lists serve as a basis and the list values are the maps to be kept in sync with the basemap.

options A named list of options. See leafletsyncOptions. If you want to add differ-

ent options to multiple maps, you can wrap the options in a named list, with the

names being the map-ids. See the example in ./inst/examples/offset_continuous.R

Value

A modified leaflet map

Note

If you synchronize multiple maps, a map may not yet be initialized and therefore cannot be used. Make sure to use addLeafletsync after all maps have been rendered.

References

```
https://github.com/jieter/Leaflet.Sync
```

See Also

Other leafletsync Functions: addLeafletsyncDependency(), isSynced(), leafletsyncOptions(), unsync()

addLeafletsyncDependency

Add the Leaflet Sync JS dependencies

Description

Sometimes it makes sense to include the Leaflet Sync dependencies already before synchronizing maps. For example, if you want to use the 'L.Sync.offsetHelper'. See the example in ./inst/examples/offsetHelper.R

Usage

addLeafletsyncDependency(map)

Arguments

map the map

addMapkeyMarkers 19

Value

A modified leaflet map

See Also

Other leafletsync Functions: addLeafletsync(), isSynced(), leafletsyncOptions(), unsync()

 $add {\tt Mapkey Markers}$

Add Mapkey Markers

Description

Add Mapkey Markers

Usage

```
addMapkeyMarkers(
 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

| map | the map to add mapkey Markers to. |
|---------|--|
| 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 1ng argument; the names lat and latitude are used when guessing the latitude column from data) |
| layerId | the layer id |

20 addMapkeyMarkers

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;

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 markers. See markerOptions

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

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

Value

the new map object

References

```
https://github.com/mapshakers/leaflet-mapkey-icon
```

See Also

```
Other Mapkey Functions: [.leaflet_mapkey_icon_set(), makeMapkeyIcon(), mapkeyIconList(), mapkeyIcons()
```

addMovingMarker 21

addMovingMarker

Add Moving Markers

Description

The function expects either line or point data as spatial data or as Simple Feature. Alternatively, coordinates can also be passed as numeric vectors.

Usage

```
addMovingMarker(
  map,
  lng = NULL,
  lat = NULL,
  layerId = NULL,
  group = NULL,
  duration = 2000,
  icon = NULL,
  popup = NULL,
 popupOptions = NULL,
  label = NULL,
  labelOptions = NULL,
 movingOptions = movingMarkerOptions(),
 options = leaflet::markerOptions(),
  data = leaflet::getMapData(map)
)
```

Arguments

| map | the map to add moving markers |
|----------|---|
| 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 | In order to be able to address the moving markings individually, a layerId is required. If none is specified, one is created that is derived from the current timestamp. |
| 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. |
| duration | Duration in milliseconds per line segment between 2 points. Can be a vector or a single number. Default is 1000 |

icon the icon(s) for markers;

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

movingOptions a list of extra options for moving markers. See movingMarkerOptions

options a list of extra options for markers. See markerOptions

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

Value

the new map object

References

```
https://github.com/ewoken/Leaflet.MovingMarker
```

See Also

Other MovingMarker Functions: movingMarkerOptions(), startMoving()

Examples

addOpenweatherCurrent Add current OpenWeatherMap Marker

Description

Add current OpenWeatherMap Marker

Usage

```
addOpenweatherCurrent(
  map,
  apikey = NULL,
  group = NULL,
  layerId = NULL,
  options = openweatherCurrentOptions()
)
```

Arguments

map a map widget object created from leaflet()

apikey a valid Openweathermap-API key. Get one from here.

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.

layerId the layer id

options List of further options. See openweatherCurrentOptions

Value

the new map object

Note

The current weather icons will appear beginning with zoom level 9 and if used in Shiny, a click on an icon will update a Shiny input at input\$MAPID_owm_click.

References

```
https://github.com/trafficonese/leaflet-openweathermap
```

See Also

Other Openweathermap Functions: addOpenweatherTiles(), openweatherCurrentOptions(), openweatherOptions()

```
## Not run:
library(leaflet)
library(leaflet.extras2)

Sys.setenv("OPENWEATHERMAP" = 'Your_API_Key')

leaflet() %>%
  addTiles() %>% setView(9, 50, 9) %>%
```

24 addOpenweatherTiles

```
addOpenweatherCurrent(options = openweatherCurrentOptions(
    lang = "en", popup = TRUE))
## End(Not run)
```

addOpenweatherTiles

Add OpenWeatherMap Tiles

Description

Add OpenWeatherMap Tiles

Usage

```
addOpenweatherTiles(
   map,
   apikey = NULL,
   layers = NULL,
   group = NULL,
   layerId = NULL,
   opacity = 0.5,
   options = openweatherOptions()
)
```

Arguments

a map widget object created from leaflet()

apikey a valid OpenWeatherMap-API key. Get one from here.

layers character vector of layers you wish to add to the map. The following layers are currently possible c("clouds", "cloudsClassic", "precipitation", "precipitationClassic", "rain", "rainClassic", "snow", "pressure", "pressureContour", "temperature", "wind").

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. the layer id

opacity opacity of the layer

options List of further options. See openweatherOptions

Value

layerId

the new map object

addPlayback 25

Note

Out of the box a legend image is only available for Pressure, Precipitation Classic, Clouds Classic, Rain Classic, Snow, Temperature and Wind Speed. Please add your own images if you need some more.

References

```
https://github.com/trafficonese/leaflet-openweathermap
```

See Also

 $Other\ Open weather map\ Functions:\ add Open weather Current(),\ open weather Current Options(),\ open weather Options()$

Examples

```
## Not run:
library(leaflet)
library(leaflet.extras2)

Sys.setenv("OPENWEATHERMAP" = 'Your_API_Key')

leaflet() %>%
   addTiles() %>% setView(9, 50, 6) %>%
   addOpenweatherTiles(layers = "wind")

## End(Not run)
```

addPlayback

Add Playback to Leaflet

Description

The LeafletPlayback plugin provides the ability to replay GPS Points in the form of POINT Simple Features. Rather than simply animating a marker along a polyline, the speed of the animation is synchronized to a clock. The playback functionality is similar to a video player; you can start and stop playback or change the playback speed.

```
addPlayback(
  map,
  data,
  time = "time",
  icon = NULL,
  pathOpts = pathOptions(),
  popup = NULL,
  label = NULL,
```

26 addPlayback

```
popupOptions = NULL,
labelOptions = NULL,
options = playbackOptions(),
name = NULL
```

Arguments

map a map widget

data must be a POINT Simple Feature or a list of POINT Simple Feature's with

a time column.

time The column name of the time column. Default is "time".

icon an icon which can be created with makeIcon pathOpts style the CircleMarkers with pathOptions

popup A formula with the column names for the popup content
label A formula with the column names for the label content

popupOptions A Vector of popupOptions to provide popups

labelOptions A Vector of labelOptions to provide label options for each label. Default NULL

options List of additional options. See playbackOptions

name A formula with the column names for the feature name

Value

the new map object

Note

If used in Shiny, you can listen to 2 events

- 'map-ID'+"_pb_mouseover"
- 'map-ID'+"_pb_click"

References

```
https://github.com/hallahan/LeafletPlayback
```

See Also

```
Other Playback Functions: playbackOptions(), removePlayback()
```

```
## Not run:
library(leaflet)
library(leaflet.extras2)
library(sf)
```

addPlayback 27

```
## Single Elements
data <- sf::st_as_sf(leaflet::atlStorms2005[1,])</pre>
data <- st_cast(data, "POINT")</pre>
data$time = as.POSIXct(
 seq.POSIXt(Sys.time() - 1000, Sys.time(), length.out = nrow(data)))
data$label <- as.character(data$time)</pre>
leaflet() %>%
 addTiles() %>%
 addPlayback(data = data, label = ~label,
              popup = ~sprintf("I am a popup for <b>%s</b> and <b>%s</b>",
                                Name, label),
              popupOptions = popupOptions(offset = c(0, -35)),
              options = playbackOptions(radius = 3,
                                          tickLen = 36000,
                                          speed = 50,
                                          maxInterpolationTime = 1000),
              pathOpts = pathOptions(weight = 5))
## Multiple Elements
data <- sf::st_as_sf(leaflet::atlStorms2005[1:5,])</pre>
data$Name <- as.character(data$Name)</pre>
data <- st_cast(data, "POINT")</pre>
data$time <- unlist(lapply(rle(data$Name)$lengths, function(x) {</pre>
 seq.POSIXt(as.POSIXct(Sys.Date()-2), as.POSIXct(Sys.Date()), length.out = x)
data$time <- as.POSIXct(data$time, origin="1970-01-01")</pre>
data$label <- paste0("Time: ", data$time)</pre>
data$popup = sprintf("<h3>Customized Popup</h3><b>Name</b>: %s<br>>b>Time</b>: %s",
                     data$Name, data$time)
data <- split(data, f = data$Name)</pre>
leaflet() %>%
 addTiles() %>%
 addPlayback(data = data,
             popup = ~popup,
             label = ~label,
             popupOptions = popupOptions(offset=c(0,-35)),
             labelOptions = labelOptions(noHide = TRUE),
             options = playbackOptions(radius = 3,
                                         tickLen = 1000000,
                                         speed = 5000,
                                         maxInterpolationTime = 10000,
                                         transitionpopup = FALSE,
                                         transitionlabel = FALSE,
                                         playCommand = "Let's go",
                                         stopCommand = "Stop it!",
                                         color = c("red", "green", "blue",
                                                    "orange", "yellow")),
              pathOpts = pathOptions(weight = 5))
## End(Not run)
```

28 addReachability

addReachability

Add Isochrones to Leaflet

Description

A leaflet plugin which shows areas of reachability based on time or distance for different modes of travel using the openrouteservice isochrones API. Based on the leaflet.reachability plugin

Usage

```
addReachability(map, apikey = NULL, options = reachabilityOptions())
```

Arguments

map a map widget

apikey a valid Openrouteservice API-key. Can be obtained from Openrouteservice

options A list of further options. See reachabilityOptions

Value

the new map object

Note

When used in Shiny, 3 events update a certain shiny Input:

- reachability:displayed updates input\$MAPID_reachability_displayed
- 2. reachability:delete updates input\$MAPID_reachability_delete
- 3. reachability:error updates input\$MAPID_reachability_error

References

```
https://github.com/traffordDataLab/leaflet.reachability
```

See Also

```
Other Reachability Functions: reachabilityOptions(), removeReachability()
```

```
## Not run:
library(leaflet)
library(leaflet.extras2)

Sys.setenv("OPRS" = 'Your_API_Key')

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

addSidebar 29

```
setView(8, 50, 10) %>%
addReachability()
## End(Not run)
```

addSidebar

Add a Sidebar Leaflet Control

Description

The sidebar HTML must be created with sidebar_tabs and sidebar_pane before leafletOutput is called.

Usage

```
addSidebar(map, id = "sidebar", options = list(position = "left"), ns = NULL)
```

Arguments

map A leaflet map widget

id Id of the sidebar-div. Must match with the id of sidebar_tabs

options A named list with the only option position, which should be either left or

right.

ns The namespace function, if used in Shiny modules.

Value

the new map object

References

```
https://github.com/Turbo87/sidebar-v2
```

See Also

```
Other Sidebar Functions: closeSidebar(), openSidebar(), removeSidebar(), sidebar_pane(), sidebar_tabs()
```

30 addSidebyside

addSidebyside

Add Side by Side View

Description

A Leaflet control to add a split screen to compare two map overlays. The plugin works with Panes, see the example.

Usage

```
addSidebyside(
  map,
  layerId = NULL,
  leftId = NULL,
  rightId = NULL,
  options = list(thumbSize = 42, padding = 0)
)
```

Arguments

map a map widget

layerId the layer id, needed for removeSidebyside

leftId the layerId of the Tile layer that should be visible on the left side

rightId the layerId of the Tile layer that should be visible on the right side

options A list of options. Currently only thumbSize and padding can be changed.

Value

the new map object

Note

It is currently not working correctly if the baseGroups are defined in addLayersControl.

References

```
https://github.com/digidem/leaflet-side-by-side
```

See Also

Other Sidebyside Functions: removeSidebyside()

addSpinner 31

Examples

```
library(leaflet)
library(leaflet.extras2)
leaflet(quakes) %>%
 addMapPane("left", zIndex = 0) %>%
 addMapPane("right", zIndex = 0) %>%
 addTiles(group = "base", layerId = "baseid",
          options = pathOptions(pane = "right")) %>%
 addProviderTiles(providers$CartoDB.DarkMatter, group="carto", layerId = "cartoid",
                   options = pathOptions(pane = "left")) %>%
 addCircleMarkers(data = breweries91[1:15,], color = "blue", group = "blue",
                  options = pathOptions(pane = "left")) %>%
 addCircleMarkers(data = breweries91[15:20,], color = "yellow", group = "yellow") %>%
 addCircleMarkers(data = breweries91[15:30,], color = "red", group = "red",
                   options = pathOptions(pane = "right")) %>%
 addLayersControl(overlayGroups = c("blue", "red", "yellow")) %>%
 addSidebyside(layerId = "sidecontrols",
                rightId = "baseid",
                leftId = "cartoid")
```

addSpinner

Add Spin Plugin

Description

Adds an animated loading spinning over the map.

Usage

```
addSpinner(map)
startSpinner(map, options = NULL)
stopSpinner(map)
```

Arguments

map A map widget object created from leaflet options Spin.js options. Named list. See http://spin.js.org

Value

A leaflet map object

References

```
https://github.com/makinacorpus/Leaflet.Spin
https://github.com/fgnass/spin.js
```

32 addTangram

Examples

```
library(leaflet)
library(leaflet.extras2)

leaflet(data = quakes) %>%
   addTiles() %>%
   addSpinner() %>%
   startSpinner(options = list("lines" = 7, "length" = 20)) %>%
   addMarkers(~long, ~lat, popup = ~as.character(mag), label = ~as.character(mag)) %>%
   stopSpinner()
```

addTangram

Adds a Tangram layer to a Leaflet map in a Shiny App.

Description

Adds a Tangram layer to a Leaflet map in a Shiny App.

Usage

```
addTangram(map, scene = NULL, layerId = NULL, group = NULL, options = NULL)
```

Arguments

map A leaflet map widget

scene Path to a required **.yaml** or **.zip** file. If the file is within the /www folder of a

Shiny-App, only the filename must be given, otherwise the full path is needed. See the Tangram repository or the Tangram docs for further information on how

to edit such a .yaml file.

layerId A layer ID

group The name of the group the newly created layer should belong to (for clearGroup

and addLayersControl purposes).

options A list of further options. See the app in the examples/tangram folder or the

docs for further information.

Value

the new map object

Note

Only works correctly in a Shiny-App environment.

References

https://github.com/tangrams/tangram

addTimeslider 33

Examples

```
## Not run:
library(shiny)
library(leaflet)
library(leaflet.extras2)
## In the /www folder of a ShinyApp. Must contain the Nextzen API-key
scene <- "scene.yaml"</pre>
ui <- fluidPage(leafletOutput("map"))</pre>
server <- function(input, output, session) {</pre>
  output$map <- renderLeaflet({</pre>
    leaflet() %>%
      addTiles(group = "base") %>%
      addTangram(scene = scene, group = "tangram") %>%
      addCircleMarkers(data = breweries91, group = "brews") %>%
      setView(11, 49.4, 14) %>%
      addLayersControl(baseGroups = c("tangram", "base"),
                        overlayGroups = c("brews"))
 })
}
shinyApp(ui, server)
## End(Not run)
```

addTimeslider

Add Time Slider to Leaflet

Description

The LeafletSlider plugin enables you to dynamically add and remove Markers/Lines on a map by using a JQuery UI slider.

```
addTimeslider(
  map,
  data,
  radius = 10,
  stroke = TRUE,
  color = "#03F",
  weight = 5,
  opacity = 0.5,
  fill = TRUE,
  fillColor = color,
  fillOpacity = 0.2,
```

34 addTimeslider

```
dashArray = NULL,
popup = NULL,
popupOptions = NULL,
label = NULL,
labelOptions = NULL,
ordertime = TRUE,
options = timesliderOptions()
```

Arguments

map a map widget

data must be a Simple Feature collection of type POINT or LINESTRING with

a column of class Date or POSIXct.

radius a numeric vector of radii for the circles; it can also be a one-sided formula,

in which case the radius values are derived from the data (units in meters for

circles, and pixels for circle markers)

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

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 ordertime boolean value indicating whether to order the data by the time column. The

slider will adopt the order of the timestamps. The default is TRUE.

options List of additional options. See timesliderOptions

Value

the new map object

References

```
https://github.com/dwilhelm89/LeafletSlider
```

See Also

Other Timeslider Functions: removeTimeslider(), timesliderOptions()

addVelocity 35

Examples

```
## Not run:
library(leaflet)
library(leaflet.extras2)
library(sf)
library(geojsonsf)
data <- sf::st_as_sf(leaflet::atlStorms2005[1,])</pre>
data <- st_cast(data, "POINT")</pre>
data$time = as.POSIXct(
  seq.POSIXt(Sys.time() - 1000, Sys.time(), length.out = nrow(data)))
leaflet() %>%
  addTiles() %>%
  addTimeslider(data = data,
             options = timesliderOptions(
               position = "topright",
               timeAttribute = "time",
               range = TRUE)) %>%
  setView(-72, 22, 4)
## End(Not run)
```

addVelocity

Add Velocity Animation

Description

Add velocity animated data to leaflet. Based on the leaflet-velocity plugin

Usage

```
addVelocity(
  map,
  layerId = NULL,
  group = NULL,
  content = NULL,
  options = velocityOptions()
)
```

Arguments

map a map widget object created from leaflet()

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.

36 addWMS

content the path or URL to a JSON file representing the velocity data or a data.frame

which can be transformed to such a JSON file. Please see the demo files for

some example data.

options List of further options. See velocityOptions

Value

the new map object

References

```
https://github.com/onaci/leaflet-velocity
```

See Also

Other Velocity Functions: removeVelocity(), setOptionsVelocity(), velocityOptions()

Examples

```
## Not run:
library(leaflet)
library(leaflet.extras2)
content <- "https://raw.githubusercontent.com/onaci/leaflet-velocity/master/demo/water-gbr.json"
leaflet() %>%
   addTiles(group = "base") %>%
   setView(145, -20, 4) %>%
   addVelocity(content = content, group = "velo", layerId = "veloid") %>%
   addLayersControl(baseGroups = "base", overlayGroups = "velo")
## End(Not run)
```

addWMS

Add Queryable WMS Layer

Description

A Leaflet plugin for working with Web Map services, providing: single-tile/untiled/nontiled layers, shared WMS sources, and **GetFeatureInfo**-powered identify.

You can also use **CQL-Filters** by appending a string to the 'baseUrl'.

Something like 'http://server/wms?cql_filter=attribute=value'

```
addWMS(
  map,
  baseUrl,
  layerId = NULL,
  group = NULL,
```

addWMS 37

```
options = WMSTileOptions(),
  attribution = NULL,
  layers = NULL,
  popupOptions = NULL,
  checkempty = FALSE,
  data = getMapData(map)
)
```

Arguments

map a map widget object created from leaflet()

baseUrl a base URL of the WMS service

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.

options a list of extra options for tile layers, popups, paths (circles, rectangles, polygons,

...), or other map elements

attribution the attribution text of the tile layer (HTML) layers comma-separated list of WMS layers to show

popupOptions List of popup options. See popupOptions. Default is NULL.

checkempty Should the returned HTML-content be checked for emptiness? If the HTML-

body is empty no popup is opened. Default is FALSE

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

Value

the new map object

References

```
https://github.com/heigeo/leaflet.wms
```

Examples

38 antpathOptions

```
checkempty = TRUE,
options = WMSTileOptions(
  transparent = TRUE,
  format = "image/png",
  info_format = "text/html"))
```

antpathOptions

Antpath Options

Description

Additional list of options for 'ant-path' animated polylines.

Usage

```
antpathOptions(
  delay = 400,
  paused = FALSE,
  reverse = FALSE,
  hardwareAccelerated = FALSE,
  dashArray = c(10, 20),
  pulseColor = "#fffffff",
  lineCap = NULL,
  lineJoin = NULL,
  interactive = TRUE,
  pointerEvents = NULL,
  className = ""
)
```

Arguments

delay Add a delay to the animation flux. Default is 400 paused Should the animation be paused. Default is FALSE

reverse Defines if the flow follows the path order or not. Default is FALSE

 $hardware {\tt Accelerated}$

Makes the animation run with hardware acceleration. Default is FALSE

dashArray The size of the animated dashes. Default is c(10, 20) pulseColor Adds a color to the dashed flux. Default is #ffffff

lineCap a string that defines shape to be used at the end of the stroke a string that defines shape to be used at the corners of the stroke

interactive whether the element emits mouse events

pointerEvents sets the pointer-events attribute on the path if SVG backend is used

className a CSS class name set on an element

arrowheadOptions 39

Value

A list of options for addAntpath animated polylines

See Also

Other Antpath Functions: addAntpath(), clearAntpath(), removeAntpath()

arrowheadOptions

Arrowhead Options

Description

Additional list of options for polylines with arrowheads. You can also pass options inherited from L.Path

Usage

```
arrowheadOptions(
  yawn = 60,
  size = "15%",
  frequency = "allvertices",
  proportionalToTotal = FALSE,
  offsets = NULL,
  perArrowheadOptions = NULL,
  ...
)
```

Arguments

yawn

Defines the width of the opening of the arrowhead, given in degrees. The larger the angle, the wider the arrowhead.

size

Determines the size of the arrowhead. Accepts three types of values:

- A string with the suffix 'm', i.e. '500m' will set the size of the arrowhead to that number of meters.
- A string with the suffix '%', i.e. '15%' will render arrows whose size is that percentage of the size of the parent polyline. If the polyline has multiple segments, it will take the percent of the average size of the segments.
- A string the suffix 'px', i.e. '20px' will render an arrowhead whose size stays at a constant pixel value, regardless of zoom level. Will look strange at low zoom levels or for smaller parent vectors. Ideal for larger parent vectors and at higher zoom levels.

frequency

How many arrowheads are rendered on a polyline.

- 'allvertices' renders an arrowhead on each vertex.
- 'endonly' renders only one at the end.

40 clearAntpath

- A numeric value renders that number of arrowheads evenly spaced along the polyline.
- A string with suffix 'm', i.e. '100m' will render arrowheads spaced evenly along the polyline with roughly that many meters between each one.
- A string with suffix 'px', i.e. '30px' will render arrowheads spaced evenly with roughly that many pixels between each, regardless of zoom level.

proportionalToTotal

Only relevant when size is given as a percent. Useful when frequency is set to 'endonly'. Will render the arrowheads with a size proportional to the entire length of the multi-segmented polyline, rather than proportional to the average length of all the segments.

offsets

Enables the developer to have the arrowheads start or end at some offset from the start and/or end of the polyline. This option can be a list with 'start' and 'end' names. The values must be strings defining the size of the offset in either meters or pixels, i.e. list('start' = '100m', 'end' = '15px').

perArrowheadOptions

Enables the developer to customize arrowheads on a one-by-one basis. Must be in the form of a function of i, which is the index of the arrowhead as it is rendered in the loop through all arrowheads. Must return an options object. Cannnot account for frequency or proportionalToTotal from within the perArrowheadOptions callback. See the example for details.

. . Additional options for arrowheads, inherited from L.Path

Value

A list of options for addArrowhead polylines

References

https://github.com/slutske22/leaflet-arrowheads#options

See Also

Other Arrowhead Functions: addArrowhead(), clearArrowhead(), removeArrowhead()

clearAntpath

clearAntpath

Description

Clear all Antpaths

Usage

clearAntpath(map)

clearArrowhead 41

Arguments

map a map widget object, possibly created from leaflet() but more likely from

leafletProxy()

Value

the new map object

See Also

Other Antpath Functions: addAntpath(), antpathOptions(), removeAntpath()

clearArrowhead

Remove arrowheads from Lines by group

Description

Remove arrowheads from Lines by group

Usage

clearArrowhead(map, group)

Arguments

map the map

group A group name

Value

A modified leaflet map

See Also

Other Arrowhead Functions: addArrowhead(), arrowheadOptions(), removeArrowhead()

42 clearHexbin

clearFuture

clearFuture

Description

Resets the stack of future items.

Usage

clearFuture(map)

Arguments

map

a map widget object created from leafletProxy

Value

the new map object

References

https://github.com/cscott530/leaflet-history

See Also

Other History Functions: addHistory(), clearHistory(), goBackHistory(), goForwardHistory(), historyOptions()

clearHexbin

clearHexbin

Description

Clears the data of the hexbinLayer.

Usage

clearHexbin(map)

Arguments

map

The map widget

Value

the new map object

clearHistory 43

See Also

Other Hexbin-D3 Functions: addHexbin(), hexbinOptions(), hideHexbin(), showHexbin(), updateHexbin()

clearHistory

clearHistory

Description

Resets the stack of history items.

Usage

clearHistory(map)

Arguments

map

a map widget object created from leafletProxy

Value

the new map object

References

https://github.com/cscott530/leaflet-history

See Also

Other History Functions: addHistory(), clearFuture(), goBackHistory(), goForwardHistory(), historyOptions()

closeSidebar

Close the Sidebar

Description

Close the Sidebar

```
closeSidebar(map, sidebar_id = NULL)
```

Arguments

map A leaflet map widget

sidebar_id The id of the sidebar (per sidebar_tabs). Defaults to NULL such that the first

sidebar is used.

Value

the new map object

See Also

```
Other Sidebar Functions: addSidebar(), openSidebar(), removeSidebar(), sidebar_pane(), sidebar_tabs()
```

 $context_mapmenuItems$ $context_mapmenuItems$

Description

context_mapmenuItems

Usage

```
context_mapmenuItems(...)
```

Arguments

... contextmenu item/s

Value

A list of context_menuItem for the map

See Also

Other Contextmenu Functions: addContextmenu(), addItemContextmenu(), context_markermenuItems(), context_menuItem(), disableContextmenu(), enableContextmenu(), hideContextmenu(), insertItemContextmenu(mapmenuItems(), markermenuItems(), menuItem(), removeItemContextmenu(), removeallItemsContextmenu(), setDisabledContextmenu(), showContextmenu()

context_markermenuItems

context_markermenuItems

Description

context_markermenuItems

Usage

```
context_markermenuItems(...)
```

Arguments

... contextmenu item/s

Value

A list of context_menuItem for markers

See Also

Other Contextmenu Functions: addContextmenu(), addItemContextmenu(), context_mapmenuItems(), context_menuItem(), disableContextmenu(), enableContextmenu(), hideContextmenu(), insertItemContextmenu() mapmenuItems(), markermenuItems(), menuItem(), removeItemContextmenu(), removeallItemsContextmenu(), setDisabledContextmenu(), showContextmenu()

context_menuItem

context_menuItem

Description

```
context_menuItem
```

Usage

```
context_menuItem(text, callback = NULL, ...)
```

Arguments

text The label to use for the menu item

callback A callback function to be invoked when the menu item is clicked. The callback

is passed an object with properties identifying the location the menu was opened at: latlng, layerPoint and containerPoint. The callback-function must be

valid JavaScript and will be wrapped in JS.

.. For further options please visit https://github.com/aratcliffe/Leaflet.

contextmenu

46 disableContextmenu

Value

A contextmenu item list

See Also

Other Contextmenu Functions: addContextmenu(), addItemContextmenu(), context_mapmenuItems(), context_markermenuItems(), disableContextmenu(), enableContextmenu(), hideContextmenu(), insertItemContextmenu(), mapmenuItems(), markermenuItems(), menuItem(), removeItemContextmenu(), removeallItemsContextmenu(), setDisabledContextmenu(), showContextmenu()

disableContextmenu

disableContextmenu

Description

Disable the contextmenu

Usage

disableContextmenu(map)

Arguments

map

a map widget object created from leaflet

Value

A leaflet map object

See Also

Other Contextmenu Functions: addContextmenu(), addItemContextmenu(), context_mapmenuItems(), context_markermenuItems(), context_menuItem(), enableContextmenu(), hideContextmenu(), insertItemContextmenu(), mapmenuItems(), markermenuItems(), menuItem(), removeItemContextmenu(), removeallItemsContextmenu(), setDisabledContextmenu(), showContextmenu()

easyprintMap 47

Description

Print or export a map programmatically (e.g. in a Shiny environment).

Usage

```
easyprintMap(map, sizeModes = "A4Portrait", filename = "map")
```

Arguments

map the map widget

sizeModes Must match one of the given sizeMode names in easyprintOptions. The op-

tions are: CurrentSize, A4Portrait or A4Landscape. If you want to print the map with a Custom sizeMode you need to pass the Custom className. Default

is A4Portrait

filename Name of the file if exportOnly option is TRUE.

Value

A leaflet map object

See Also

Other EasyPrint Functions: addEasyprint(), easyprintOptions(), removeEasyprint()

Examples

```
## Only run examples in interactive R sessions
if (interactive()) {
library(shiny)
library(leaflet)
library(leaflet.extras2)

ui <- fluidPage(
    leafletOutput("map"),
    selectInput("scene", "Select Scene", choices = c("CurrentSize", "A4Landscape", "A4Portrait")),
    actionButton("print", "Print Map")
)

server <- function(input, output, session) {
    output$map <- renderLeaflet({
        input$print
        leaflet() %>%
            addTiles() %>%
            setView(10, 50, 9) %>%
```

48 easyprintOptions

easyprintOptions

easy print Options

Description

Create a list of further options for the easyprint plugin.

Usage

```
easyprintOptions(
  title = "Print map";
 position = "topleft",
  sizeModes = list("A4Portrait", "A4Landscape", "CurrentSize"),
 defaultSizeTitles = NULL,
  exportOnly = FALSE,
  tileLayer = NULL,
  tileWait = 500,
  filename = "map",
  hidden = FALSE,
 hideControlContainer = TRUE,
 hideClasses = NULL,
  customWindowTitle = NULL,
  spinnerBgColor = "#0DC5C1",
  customSpinnerClass = "epLoader"
)
```

Arguments

title Sets the text which appears as the tooltip of the print/export button

position Positions the print button

sizeModes Either a character vector with one of the following options: CurrentSize, A4Portrait,

A4Landscape. If you want to include a Custom size mode you need to pass a named list, with width, height, name and className and assign a backgroundimage in CSS. See the example in ./inst/examples/easyprint_app.R.

enableContextmenu 49

defaultSizeTitles

Button tooltips for the default page sizes

exportOnly If set to TRUE the map is exported to a .png file

tileLayer The group name of one tile layer that you can wait for to draw (helpful when

resizing)

tileWait How long to wait for the tiles to draw (helpful when resizing)

filename Name of the file if exportOnly option is TRUE

hidden Set to TRUE if you don't want to display the toolbar. Instead you can create your

own buttons or fire print events programmatically.

hideControlContainer

Hides the leaflet controls like the zoom buttons and the attribution on the print

out

hideClasses Use a character vector or list of CSS-classes to hide on the output image.

customWindowTitle

A title for the print window which will get added to the printed paper

spinnerBgColor A valid css colour for the spinner background color

customSpinnerClass

A class for a custom css spinner to use while waiting for the print.

Value

A list of options for the 'easyprint' control

References

```
https://github.com/rowanwins/leaflet-easyPrint
```

See Also

Other EasyPrint Functions: addEasyprint(), easyprintMap(), removeEasyprint()

enableContextmenu enableContextmenu

Description

Enable the contextmenu

Usage

enableContextmenu(map)

Arguments

map a map widget object created from leaflet

50 goBackHistory

Value

A leaflet map object

See Also

Other Contextmenu Functions: addContextmenu(), addItemContextmenu(), context_mapmenuItems(), context_markermenuItems(), context_menuItem(), disableContextmenu(), hideContextmenu(), insertItemContextmenu(), mapmenuItems(), markermenuItems(), menuItem(), removeItemContextmenu(), removeallItemsContextmenu(), setDisabledContextmenu(), showContextmenu()

gibs_layers

The available GIBS layers with attributes

Description

The available GIBS layers with attributes

Usage

gibs_layers

Format

An object of class data. frame with 276 rows and 4 columns.

goBackHistory

goBackHistory

Description

If possible, will go to previous map extent. Pushes current extent to the "future" stack.

Usage

```
goBackHistory(map)
```

Arguments

map

a map widget object created from leafletProxy

Value

the new map object

References

https://github.com/cscott530/leaflet-history

goForwardHistory 51

See Also

Other History Functions: addHistory(), clearFuture(), clearHistory(), goForwardHistory(), historyOptions()

goForwardHistory

goForwardHistory

Description

If possible, will go to next map extent. Pushes current extent to the "back" stack.

Usage

goForwardHistory(map)

Arguments

map

a map widget object created from leafletProxy

Value

the new map object

References

https://github.com/cscott530/leaflet-history

See Also

Other History Functions: addHistory(), clearFuture(), clearHistory(), goBackHistory(), historyOptions()

height graph Options

heightgraphOptions

Description

Customize the heightgraph with the following additional options.

52 heightgraphOptions

Usage

```
heightgraphOptions(
  position = c("bottomright", "topleft", "topright", "bottomleft"),
  width = 800,
  height = 200,
  margins = list(top = 10, right = 30, bottom = 55, left = 50),
  expand = TRUE,
  expandCallback = NULL,
  mappings = NULL,
  highlightStyle = list(color = "red"),
  translation = NULL,
  xTicks = 3,
  yTicks = 3
)
```

Arguments

yTicks

| position | $position\ of\ control:\ "topleft",\ "topright",\ "bottomleft",\ or\ "bottomright".\ Default\ is\ bottomright.$ |
|----------------|--|
| width | The width of the expanded heightgraph display in pixels. Default is 800. |
| height | The height of the expanded heightgraph display in pixels. Default is 200. |
| margins | The margins define the distance between the border of the heightgraph and the actual graph inside. You are able to specify margins for top, right, bottom and left in pixels. Default is $list(top = 10, right = 30, bottom = 55, left = 50)$. |
| expand | Boolean value that defines if the height graph should be expanded on creation. Default is 200. |
| expandCallback | Function to be called if the heightgraph is expanded or reduced. The state of the heightgraph is passed as an argument. It is TRUE when expanded and FALSE when reduced. Default is $NULL$. |
| mappings | You may add a mappings object to customize the colors and labels in the height graph. Without adding custom mappings the segments and labels within the graph will be displayed in random colors. Each key of the object must correspond to the summary key in properties within the FeatureCollection. Default is NULL. |
| highlightStyle | You can customize the highlight style when using the horizontal line to find parts of the route above an elevation value. Use any Leaflet Path options as value of the highlightStyle parameter. Default is list(color = "red"). |
| translation | You can change the labels of the heightgraph info field by passing translations for distance, elevation, segment_length, type and legend. Default is NULL. |
| xTicks | Specify the tick frequency in the x axis of the graph. Corresponds approximately |

to 2 to the power of value ticks. Default is 3.

to 2 to the power of value ticks. Default is 3.

Specify the tick frequency in the y axis of the graph. Corresponds approximately

hexbinOptions 53

Value

A list of further options for addHeightgraph

See Also

Other Heightgraph Functions: addHeightgraph()

hexbinOptions

hexbinOptions

Description

A list of options for customizing the appearance/behavior of the hexbin layer.

Usage

```
hexbinOptions(
  duration = 200,
  colorScaleExtent = NULL,
  radiusScaleExtent = NULL,
  colorRange = c("#f7fbff", "#08306b"),
  radiusRange = c(5, 15),
  pointerEvents = "all",
  resizetoCount = FALSE,
  tooltip = "Count"
)
```

Arguments

duration

Transition duration for the hexbin layer

colorScaleExtent

extent of the color scale for the hexbin layer. This is used to override the derived extent of the color values and is specified as a vector of the form c(min= numeric, max= numeric). Can be a numeric vector or a custom JS array, like (JS("[40, undefined]"))

radiusScaleExtent

This is the same exact configuration option as colorScaleExtent, only applied to

the radius extent.

colorRange Sets the range of the color scale used to fill the hexbins on the layer.

radiusRange Sets the range of the radius scale used to size the hexbins on the layer.

pointerEvents

This value is passed directly to an element-level css style for pointer-events. You should only modify this config option if you want to change the mouse event behavior on hexbins. This will modify when the events are propagated

based on the visibility state and/or part of the hexbin being hovered.

54 hideContextmenu

resizetoCount Resizes the hexbin to the count. Default is FALSE. If set to TRUE it will resize

based on the amount of underlying elements. You can also pass a custom JS

function.

tooltip Should tooltips be displayed? If set to TRUE, it will show the amount of under-

lying elements. If a string is given, it will append the string before the count. To disable tooltips, please pass NULL or FALSE. You can also pass a custom JS

function.

Value

A list of hexbin-specific options

See Also

Other Hexbin-D3 Functions: addHexbin(), clearHexbin(), hideHexbin(), showHexbin(), updateHexbin()

hideContextmenu

hideContextmenu

Description

Hide the contextmenu

Usage

hideContextmenu(map)

Arguments

map

a map widget object created from leaflet

Value

A leaflet map object

See Also

Other Contextmenu Functions: addContextmenu(), addItemContextmenu(), context_mapmenuItems(), context_markermenuItems(), context_menuItem(), disableContextmenu(), enableContextmenu(), insertItemContextmenu(), mapmenuItems(), markermenuItems(), menuItem(), removeItemContextmenu(), removeallItemsContextmenu(), setDisabledContextmenu(), showContextmenu()

hideHexbin 55

hideHexbin

hideHexbin

Description

Hide the hexbinLayer.

Usage

hideHexbin(map)

Arguments

map

The map widget

Value

the new map object

See Also

Other Hexbin-D3 Functions: addHexbin(), clearHexbin(), hexbinOptions(), showHexbin(), updateHexbin()

historyOptions

History Options

Description

History Options

```
historyOptions(
  position = c("topright", "topleft", "bottomleft", "bottomright"),
  maxMovesToSave = 10,
  backImage = "fa fa-caret-left",
  forwardImage = "fa fa-caret-right",
  backText = "",
  forwardText = "",
  backTooltip = "Go to Previous Extent",
  forwardTooltip = "Go to Next Extent",
  backImageBeforeText = TRUE,
  forwardImageBeforeText = FALSE,
  orientation = c("horizontal", "vertical"),
  shouldSaveMoveInHistory = NULL
)
```

56 historyOptions

Arguments

position Set the position of the History control. Default is topright.

maxMovesToSave Number of moves in the history to save before clearing out the oldest. Default

value is 10, use 0 or a negative number to make unlimited.

backImage The class for the 'back' button icon. Default is "fa fa-caret-left".

The class for the 'forward' button icon. Default is "fa fa-caret-right".

backText The text in the buttons. Default is ".

forwardText The text in the buttons. Default is ".

 ${\tt backTooltip} \qquad {\tt Tooltip} \ {\tt content.} \ {\tt Default} \ {\tt is} \ {\tt "Go} \ {\tt to} \ {\tt Previous} \ {\tt Extent"}.$

forwardTooltip Tooltip content. Default is "Go to Next Extent".

backImageBeforeText

When both text and image are present, whether to show the image first or the

text first (left to right). Default is TRUE

forwardImageBeforeText

When both text and image are present, whether to show the image first or the

text first (left to right). Default is FALSE

orientation Whether to position the buttons on top of one another or side-by-side. Default

is horizontal

shouldSaveMoveInHistory

A JS callback you can provide that gets called with every move. return false to

not save a move.

Value

A list of further options for addHistory

References

```
https://github.com/cscott530/leaflet-history
```

See Also

```
Other History Functions: addHistory(), clearFuture(), clearHistory(), goBackHistory(), goForwardHistory()
```

Examples

```
library(leaflet)
leaflet() %>%
  addTiles() %>%
  addHistory(options = historyOptions(position = "bottomright",
  maxMovesToSave = 20,
  backText = "Go back",
  forwardText = "Go forward",
  orientation = "vertical"
  ))
```

insertItemContextmenu 57

insertItemContextmenu insertItemContextmenu

Description

Insert a new contextmenu menu item at a specific index

Usage

```
insertItemContextmenu(map, option, index)
```

Arguments

map a map widget object created from leaflet

option new menu item to add

index Index of the contextmenu. (NOTE: Since the index is passed to JavaScript, it is

zero-based)

Value

A leaflet map object

See Also

Other Contextmenu Functions: addContextmenu(), addItemContextmenu(), context_mapmenuItems(), context_markermenuItems(), context_menuItem(), disableContextmenu(), enableContextmenu(), hideContextmenu(), mapmenuItems(), markermenuItems(), menuItem(), removeItemContextmenu(), removeallItemsContextmenu(), setDisabledContextmenu(), showContextmenu()

isSynced

Is a map synchronized?

Description

Is a map snychronized with any or a specific map? Invoking this method sets a Shiny input that returns TRUE when the map is synchronized with another map. If syncwith is set, TRUE is returned if the map is synchronized exactly with that other map.

```
isSynced(map, id = NULL, syncwith = NULL)
```

58 leafletsyncOptions

Arguments

map the map id The map id

syncwith Is the map synchronized with one of these maps?

Details

The Siny input name is combined of the map-id and "_synced". For a map with id map1 the input can be retrieved with input\$map1_synced.

Value

A map

See Also

Other leafletsync Functions: addLeafletsyncDependency(), addLeafletsync(), leafletsyncOptions(), unsync()

leaflet.extras2

leaflet.extras2: Extra Functionality for 'leaflet' Package.

Description

This package serves as an add-on to the 'leaflet' package by providing extra functionality via 'leaflet' plugins.

leafletsyncOptions

leafletsync Options

Description

Additional list of options.

```
leafletsyncOptions(
  noInitialSync = FALSE,
  syncCursor = TRUE,
  offsetFn = JS("function (center, zoom, refMap, tgtMap) { return center; }")
)
```

makeMapkeyIcon 59

Arguments

noInitialSync Setting to TRUE disables initial synchronization of the maps. The default is

FALSE.

syncCursor The default TRUE adds a circle marker on the synced map.

offsetFn A JavaScript-function to compute an offset for the center.

Value

A list of options for addLeafletsync

See Also

```
Other leafletsync Functions: addLeafletsyncDependency(), addLeafletsync(), isSynced(), unsync()
```

makeMapkeyIcon

Make Mapkey Icon

Description

Make Mapkey Icon

Usage

```
makeMapkeyIcon(
  icon = "mapkey",
  color = "#ff0000",
  iconSize = 12,
  background = "#1F7499",
  borderRadius = "100%",
  hoverScale = 1.4,
  hoverEffect = TRUE,
  additionalCSS = NULL,
  hoverCSS = NULL,
  htmlCode = NULL,
  boxShadow = TRUE
)
```

Arguments

icon ID of the mapkey Icon you want to use.

color Any CSS color (e.g. 'red', 'rgba(20,160,90,0.5)', '#686868', ...)

iconSize Size of Icon in Pixels. Default is 12

background Any CSS color or false for no background

borderRadius Any number (for circle size/2, for square 0.001)

60 mapkeyIconList

hoverScale Any real number (best result in range 1 - 2, use 1 for no effect)

hoverEffect Switch on/off effect on hover

hoverCSS CSS code (e.g. "background-color:#992b00!important; color:#99defc

!important;")

htmlCode e.g. '  '. boxShadow Should a shadow be visible

Value

A list of mapkey-icon data that can be passed to the argument icon

References

```
https://github.com/mapshakers/leaflet-mapkey-icon
```

See Also

```
Other Mapkey Functions: [.leaflet_mapkey_icon_set(), addMapkeyMarkers(), mapkeyIconList(), mapkeyIcons()
```

Examples

mapkeyIconList

Make Mapkey-icon set

Description

Make Mapkey-icon set

Usage

```
mapkeyIconList(...)
```

Arguments

... icons created from makeMapkeyIcon()

Value

```
A list of class "leaflet_mapkey_icon_set"
```

mapkeyIcons 61

References

```
https://github.com/mapshakers/leaflet-mapkey-icon
```

See Also

```
Other Mapkey Functions: [.leaflet_mapkey_icon_set(), addMapkeyMarkers(), makeMapkeyIcon(), mapkeyIcons()
```

Examples

```
iconSet = mapkeyIconList(
  red = makeMapkeyIcon(color = "#ff0000"),
  blue = makeMapkeyIcon(color = "#0000ff"))
iconSet[c("red", "blue")]
```

mapkeyIcons

Create a list of Mapkey icon data

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

```
mapkeyIcons(
  icon = "mapkey",
  color = "#ff0000",
  iconSize = 12,
  background = "#1F7499",
  borderRadius = "100%",
  hoverScale = 1.4,
  hoverEffect = TRUE,
  hoverCSS = NULL,
  additionalCSS = NULL,
  htmlCode = NULL,
  boxShadow = TRUE
)
```

Arguments

icon ID of the mapkey Icon you want to use.

color Any CSS color (e.g. 'red', 'rgba(20,160,90,0.5)', '#686868', ...)

iconSize Size of Icon in Pixels. Default is 12

background Any CSS color or false for no background

62 mapmenuItems

```
borderRadius Any number (for circle size/2, for square 0.001)
```

hoverScale Any real number (best result in range 1 - 2, use 1 for no effect)

hoverEffect Switch on/off effect on hover

hoverCSS CSS code (e.g. "background-color:#992b00!important; color:#99defc

!important;")

htmlCode e.g. '  '.
boxShadow Should a shadow be visible

Value

A list of mapkey-icon data that can be passed to the argument icon

References

```
https://github.com/mapshakers/leaflet-mapkey-icon
```

See Also

```
Other Mapkey Functions: [.leaflet_mapkey_icon_set(), addMapkeyMarkers(), makeMapkeyIcon(), mapkeyIconList()
```

Examples

mapmenuItems

mapmenuItems

Description

mapmenuItems

```
mapmenuItems(...)
```

markermenuItems 63

Arguments

... contextmenu item/s

Value

A list of menuItem for the map

See Also

Other Contextmenu Functions: addContextmenu(), addItemContextmenu(), context_mapmenuItems(), context_markermenuItems(), context_menuItem(), disableContextmenu(), enableContextmenu(), hideContextmenu(), insertItemContextmenu(), markermenuItems(), menuItem(), removeItemContextmenu(), removeallItemsContextmenu(), setDisabledContextmenu(), showContextmenu()

markermenuItems

markermenuItems

Description

markermenuItems

Usage

```
markermenuItems(...)
```

Arguments

... contextmenu item/s

Value

A list of menuItem for markers

See Also

Other Contextmenu Functions: addContextmenu(), addItemContextmenu(), context_mapmenuItems(), context_markermenuItems(), context_menuItem(), disableContextmenu(), enableContextmenu(), hideContextmenu(), insertItemContextmenu(), mapmenuItems(), menuItem(), removeItemContextmenu(), removeallItemsContextmenu(), setDisabledContextmenu(), showContextmenu()

menuItem

menuItem

Description

menuItem

Usage

```
menuItem(text, callback = NULL, ...)
```

Arguments

text The label to use for the menu item

callback A callback function to be invoked when the menu item is clicked. The callback

is passed an object with properties identifying the location the menu was opened at: latlng, layerPoint and containerPoint. The callback-function must be

valid JavaScript and will be wrapped in JS.

... For further options please visit https://github.com/aratcliffe/Leaflet.

contextmenu

Value

A contextmenu item list

See Also

Other Contextmenu Functions: addContextmenu(), addItemContextmenu(), context_mapmenuItems(), context_markermenuItems(), context_menuItem(), disableContextmenu(), enableContextmenu(), hideContextmenu(), insertItemContextmenu(), mapmenuItems(), markermenuItems(), removeItemContextmenu(), removeItemContextmenu(), setDisabledContextmenu(), showContextmenu()

movingMarkerOptions

Set options for Moving Markers

Description

Set options for Moving Markers

```
movingMarkerOptions(autostart = FALSE, loop = FALSE, pauseOnZoom = FALSE)
```

openSidebar 65

Arguments

autostart If TRUE the marker will start automatically after it is added to map. Default is

FALSE

loop if TRUE the marker will start automatically at the beginning of the polyline when

the it arrives at the end. Default is FALSE

pauseOnZoom Pause the marker while zooming. While this improves the animation, it is not

recommended because the animation time is lost and the marker will not appear

at the correct time at the next station. Default is FALSE

Value

A list of extra options for moving markers

References

```
https://github.com/ewoken/Leaflet.MovingMarker
```

See Also

Other MovingMarker Functions: addMovingMarker(), startMoving()

openSidebar Open the Sidebar by ID

Description

Open the Sidebar by ID

Usage

```
openSidebar(map, id, sidebar_id = NULL, ns = NULL)
```

Arguments

map A leaflet map widget

id The id of the sidebar_pane to open.

sidebar_id The id of the sidebar (per sidebar_tabs). Defaults to NULL such that the first

sidebar is used.

ns The namespace function, if used in Shiny modules.

Value

the new map object

See Also

```
Other Sidebar Functions: addSidebar(), closeSidebar(), removeSidebar(), sidebar_pane(), sidebar_tabs()
```

openweatherOptions

```
openweatherCurrentOptions
```

openweatherCurrentOptions

Description

openweatherCurrentOptions

Usage

```
openweatherCurrentOptions(lang = "en", minZoom = 7, interval = 10, ...)
```

Arguments

| lang | 'en', 'de', 'ru', 'fr', 'es', 'ca'. Language of popup texts. Note: not every translation is finished yet. |
|----------|---|
| minZoom | Number (7). Minimal zoom level for fetching city data. Use smaller values only at your own risk. |
| interval | Number (0). Time in minutes to reload city data. Please do not use less than 10 minutes. |

Further options passed to L.OWM. current. See the full list of options

Value

A list of options for addOpenweatherCurrent

See Also

 $Other\ Open weather Tiles (), add Open weather Tiles (), open weather Options ()$

Description

OpenWeatherMap Options

```
openweatherOptions(
   showLegend = TRUE,
   legendImagePath = NULL,
   legendPosition = c("bottomleft", "bottomright", "topleft", "topright")
)
```

playbackOptions 67

Arguments

```
showLegend If TRUE and option legendImagePath is set there will be a legend image on the map

legendImagePath

A URL (is set to a default image for some layers, null for others, see below).

URL or relative path to an image which is a legend to this layer

legendPosition Position of the legend images on the map. Must be one of 'bottomleft', 'bottomright', 'topleft', 'topright'
```

Value

A list of options for addOpenweatherTiles

See Also

 $Other\ Openweather Tiles (), openweather Current (), add Openweather Tiles (), openweather Current Options (), add Openweather Current (), add Openweather Tiles (), openweather Current (), add Openweather (), add Openwea$

playbackOptions playbackOptions

Description

A list of options for addPlayback. For a full list please visit the plugin repository.

```
playbackOptions(
  color = "blue",
  radius = 5,
  tickLen = 250,
  speed = 50,
  maxInterpolationTime = 5 * 60 * 1000,
  tracksLayer = TRUE,
  playControl = TRUE,
  dateControl = TRUE,
  sliderControl = TRUE,
  orientIcons = FALSE,
  staleTime = 60 * 60 * 1000,
  transitionpopup = TRUE,
  transitionlabel = TRUE,
  ...
)
```

68 playbackOptions

Arguments

color colors of the CircleMarkers.

radius a numeric value for the radius of the CircleMarkers.

tickLen Set tick length in milliseconds. Increasing this value, may improve performance,

at the cost of animation smoothness. Default is 250

speed Set float multiplier for default animation speed. Default is 50

maxInterpolationTime

Set max interpolation time in seconds. Default is 5*60*1000 (5 minutes).

tracksLayer Set TRUE if you want to show layer control on the map. Default is TRUE

playControl Set TRUE if play button is needed. Default is TRUE

dateControl Set TRUE if date label is needed. Default is TRUE

sliderControl Set TRUE if slider control is needed. Default is TRUE

orientIcons Set TRUE if you want icons to orient themselves on each tick based on the bearing

towards their next location. Default: FALSE

staleTime Set time before a track is considered stale and faded out. Default is 60*60*1000

(1 hour)

transitionpopup

Should the position of the popup move smoothly, like the marker icon? Default:

TRUE

transitionlabel

Should the position of the label move smoothly, like the marker icon? Default:

TRUE

... Further arguments passed to 'L.Playback'

Value

A list of options for addPlayback

References

https://github.com/hallahan/LeafletPlayback

See Also

Other Playback Functions: addPlayback(), removePlayback()

reachabilityOptions 69

```
reachabilityOptions reachabilityOptions
```

Description

Add extra options. For a full list please visit the plugin repository.

Usage

```
reachabilityOptions(
  collapsed = TRUE,
  pane = "overlayPane",
  position = "topleft",
   ...
)
```

Arguments

collapsed Should the control widget start in a collapsed mode. Default is TRUE

pane Leaflet pane to add the isolines GeoJSON to. Default is overlayPane

position Leaflet control pane position. Default is topleft

Further arguments passed to 'L.Control.Reachability'

Value

A list of options for addReachability

References

```
https://github.com/traffordDataLab/leaflet.reachability
```

See Also

```
Other Reachability Functions: addReachability(), removeReachability()
```

```
removeallItemsContextmenu
```

removeallItemsContextmenu

Description

Remove all contextmenu items from the map.

```
removeallItemsContextmenu(map)
```

70 removeAntpath

Arguments

map a m

a map widget object created from leaflet

Value

A leaflet map object

See Also

Other Contextmenu Functions: addContextmenu(), addItemContextmenu(), context_mapmenuItems(), context_markermenuItems(), context_menuItem(), disableContextmenu(), enableContextmenu(), hideContextmenu(), insertItemContextmenu(), mapmenuItems(), markermenuItems(), menuItem(), removeItemContextmenu(), setDisabledContextmenu(), showContextmenu()

removeAntpath

removeAntpath

Description

Remove one or more Antpaths from a map, identified by layerId.

Usage

```
removeAntpath(map, layerId = NULL)
```

Arguments

map a map widget object, possibly created from leaflet() but more likely from

leafletProxy()

layerId character vector; the layer id(s) of the item to remove

Value

the new map object

See Also

Other Antpath Functions: addAntpath(), antpathOptions(), clearAntpath()

removeArrowhead 71

removeArrowhead

Remove arrowheads from Lines by layerId

Description

Remove arrowheads from Lines by layerId

Usage

```
removeArrowhead(map, layerId)
```

Arguments

map the map

layerId A single layerId or a vector of layerId's

Value

A modified leaflet map

See Also

Other Arrowhead Functions: addArrowhead(), arrowheadOptions(), clearArrowhead()

removeEasyprint

remove Easy print

Description

Removes the easyprint control from the map.

Usage

```
removeEasyprint(map)
```

Arguments

map

the map widget

Value

A leaflet map object

See Also

Other EasyPrint Functions: addEasyprint(), easyprintMap(), easyprintOptions()

72 removePlayback

removeItemContextmenu removeItemContextmenu

Description

Remove a contextmenu item by index.

Usage

```
removeItemContextmenu(map, index)
```

Arguments

map a map widget object created from leaflet

index Index of the contextmenu. (NOTE: Since the index is passed to JavaScript, it is

zero-based)

Value

A leaflet map object

See Also

Other Contextmenu Functions: addContextmenu(), addItemContextmenu(), context_mapmenuItems(), context_markermenuItems(), context_menuItem(), disableContextmenu(), enableContextmenu(), hideContextmenu(), insertItemContextmenu(), mapmenuItems(), markermenuItems(), menuItem(), removeallItemsContextmenu(), setDisabledContextmenu(), showContextmenu()

removePlayback

removePlayback

Description

Remove the Playback controls and markers.

Usage

```
removePlayback(map)
```

Arguments

map

the map widget

Value

the new map object

removeReachability 73

See Also

Other Playback Functions: addPlayback(), playbackOptions()

removeReachability

removeReachability

Description

Remove the reachability controls.

Usage

```
removeReachability(map)
```

Arguments

map

the map widget.

Value

the new map object

See Also

Other Reachability Functions: addReachability(), reachabilityOptions()

removeSidebar

Remove the Sidebar

Description

Remove the Sidebar

Usage

```
removeSidebar(map, sidebar_id = NULL)
```

Arguments

map

A leaflet map widget

sidebar_id

The id of the sidebar (per sidebar_tabs). Defaults to NULL such that the first

sidebar is removed.

Value

the new map object

74 removeTimeslider

See Also

Other Sidebar Functions: addSidebar(), closeSidebar(), openSidebar(), sidebar_pane(), sidebar_tabs()

removeSidebyside

removeSidebyside

Description

removeSidebyside

Usage

```
removeSidebyside(map, layerId = NULL)
```

Arguments

map a map widget

layerId the layer id of the addSidebyside layer

Value

the new map object

See Also

Other Sidebyside Functions: addSidebyside()

removeTimeslider

remove Time slider

Description

Remove the Timeslider controls and markers.

Usage

```
removeTimeslider(map)
```

Arguments

map

the map widget

Value

the new map object

removeVelocity 75

See Also

Other Timeslider Functions: addTimeslider(), timesliderOptions()

removeVelocity removeVelocity

Description

removeVelocity

Usage

```
removeVelocity(map, group)
```

Arguments

map the map widget group the group to remove

Value

the new map object

See Also

Other Velocity Functions: addVelocity(), setOptionsVelocity(), velocityOptions()

setDate

Set Date for GIBS Layers

Description

Set a new date for multi-temporal layers.

Usage

```
setDate(map, layers = NULL, dates = NULL)
```

Arguments

map a map widget object created from leaflet()

layers A character vector of GIBS-layers. See gibs_layers

dates Date object. If multiple layers are added, you can add a Date vector of the

same length

76 setDisabledContextmenu

Value

the new map object

See Also

Other GIBS Functions: addGIBS(), setTransparent()

setDisabledContextmenu

setDisabledContextmenu

Description

Enable/Disable a contextmenu item by index.

Usage

```
setDisabledContextmenu(map, index, disabled = TRUE)
```

Arguments

map a map widget object created from leaflet

index Index of the contextmenu. (NOTE: Since the index is passed to JavaScript, it is

zero-based)

disabled Set to TRUE to disable the element and FALSE to enable it. Default is TRUE

Value

A leaflet map object

See Also

```
Other Contextmenu Functions: addContextmenu(), addItemContextmenu(), context_mapmenuItems(), context_markermenuItems(), context_menuItem(), disableContextmenu(), enableContextmenu(), hideContextmenu(), insertItemContextmenu(), mapmenuItems(), markermenuItems(), menuItem(), removeItemContextmenu(), removeallItemsContextmenu(), showContextmenu()
```

setOptionsVelocity 77

setOptionsVelocity

Description

setOptionsVelocity

Usage

```
setOptionsVelocity(map, layerId, options)
```

Arguments

map the map widget layerId the layer id

options see velocityOptions

Value

the new map object

See Also

Other Velocity Functions: addVelocity(), removeVelocity(), velocityOptions()

setTransparent Set Transparency for GIBS Layers

Description

Change the transparency for no-data pixels.

Usage

```
setTransparent(map, layers = NULL, transparent = TRUE)
```

Arguments

map a map widget object created from leaflet()

layers A character vector of GIBS-layers. See gibs_layers

transparent Should the layer be transparent. If multiple layers are added, you can add a

boolean vector of the same length

Value

the new map object

78 showContextmenu

See Also

Other GIBS Functions: addGIBS(), setDate()

Description

Open the contextmenu at certain lat/lng-coordinates

Usage

```
showContextmenu(map, lat = NULL, lng = NULL, data = leaflet::getMapData(map))
```

Arguments

| map | a map widget object created from leaflet() |
|------|--|
| 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) |
| 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) |
| 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 |

Value

A leaflet map object

See Also

```
Other Contextmenu Functions: addContextmenu(), addItemContextmenu(), context_mapmenuItems(), context_markermenuItems(), context_menuItem(), disableContextmenu(), enableContextmenu(), hideContextmenu(), insertItemContextmenu(), mapmenuItems(), markermenuItems(), menuItem(), removeItemContextmenu(), removeallItemsContextmenu(), setDisabledContextmenu()
```

showHexbin 79

showHexbin

showHexbin

Description

Show the hexbinLayer.

Usage

```
showHexbin(map)
```

Arguments

map

The map widget

Value

the new map object

See Also

Other Hexbin-D3 Functions: addHexbin(), clearHexbin(), hexbinOptions(), hideHexbin(), updateHexbin()

sidebar_pane

Create a Sidebar Pane

Description

Create a Sidebar Pane

Usage

```
sidebar_pane(
  title = "Sidebar Title",
  id = NULL,
  icon = icon("caret-right"),
  ...
)
```

Arguments

```
title A title for the sidebar panel
id An id for the sidebar panel
icon An icon for the sidebar panel
```

... List of elements to include in the panel

80 sidebar_tabs

Value

A shiny. tag with sidebar-specific HTML classes

References

```
https://github.com/Turbo87/sidebar-v2,https://github.com/Turbo87/sidebar-v2/blob/master/doc/usage.md
```

See Also

```
Other Sidebar Functions: addSidebar(), closeSidebar(), openSidebar(), removeSidebar(), sidebar_tabs()
```

Examples

```
## Not run:
library(shiny)
sidebar_pane(id = "id", icon = icon("cars"), tags$div())
## End(Not run)
```

sidebar_tabs

Create a Sidebar

Description

Create a Sidebar

Usage

```
sidebar_tabs(id = "sidebar", iconList = NULL, ...)
```

Arguments

The id of the sidebar, which must match the id of addSidebar. Default is

"sidebar"

iconList A list of icons to be shown, when the sidebar is collapsed. The list is required

and must match the amount of sidebar_pane.

... The individual sidebar_pane's.

Value

A shiny tag with individual sidebar panes

References

https://github.com/Turbo87/sidebar-v2,https://github.com/Turbo87/sidebar-v2/blob/master/doc/usage.md

startMoving 81

See Also

```
Other Sidebar Functions: addSidebar(), closeSidebar(), openSidebar(), removeSidebar(), sidebar_pane()
```

Examples

startMoving

Interact with the moving markers

Description

The marker begins its path or resumes if it is paused.

Usage

```
startMoving(map, layerId = NULL)
stopMoving(map, layerId = NULL)
pauseMoving(map, layerId = NULL)
resumeMoving(map, layerId = NULL)
addLatLngMoving(map, layerId = NULL, latlng, duration)
moveToMoving(map, layerId = NULL, latlng, duration)
addStationMoving(map, layerId = NULL, pointIndex, duration)
```

Arguments

map The leafletProxy object

layerId You can pass a string or a vector of strings for the moving markers that you want

to address. If none is specified, the action will be applied to all moving markers.

82 timesliderOptions

```
lating Coordinates as list (e.g.: list(33, -67) or list(lng=-65, lat=33))
duration Duration in milliseconds
pointIndex Index of a certain point
```

Value

the new map object

Functions

- stopMoving: Manually stops the marker, if you call start after, the marker starts again the polyline at the beginning.
- pauseMoving: Pauses the marker
- resumeMoving: The marker resumes its animation
- addLatLngMoving: Adds a point to the polyline. Useful, if we have to set the path one by one.
- moveToMoving: Stop the current animation and make the marker move to latlng in duration ms.
- addStationMoving: The marker will stop at the pointIndex point of the polyline for duration milliseconds. You can't add a station at the first or last point of the polyline.

References

```
https://github.com/ewoken/Leaflet.MovingMarker
```

See Also

Other MovingMarker Functions: addMovingMarker(), movingMarkerOptions()

timesliderOptions timesliderOptions

Description

A list of options for addTimeslider.

Usage

```
timesliderOptions(
  position = c("topright", "bottomleft", "bottomright", "topleft"),
  timeAttribute = "time",
  isEpoch = FALSE,
  startTimeIdx = 0,
  timeStrLength = 19,
  maxValue = -1,
  minValue = 0,
  showAllOnStart = FALSE,
```

timesliderOptions 83

```
range = FALSE,
follow = FALSE,
alwaysShowDate = FALSE,
rezoom = NULL,
sameDate = FALSE
)
```

Arguments

position position of control: "topleft", "topright", "bottomleft", or "bottomright". Default

is topright.

timeAttribute The column name of the time property. Default is "time"

isEpoch whether the time attribute is seconds elapsed from epoch. Default is FALSE

startTimeIdx where to start looking for a timestring Default is 0

timeStrLength the size of yyyy-mm-dd hh:mm:ss-if milliseconds are present this will be larger.

Default is 19

maxValue Set the maximum value of the slider. Default is -1 minValue Set the minimum value of the slider. Default is 0

 $show \verb|AllOnStart| Specify whether all markers should be initially visible. Default is \verb|FALSE| \\$

range To use a range-slider, set to TRUE. Default is FALSE Default is FALSE

follow To display only the markers at the specific timestamp specified by the slider.

Specify a value of 1 (or true) to display only a single data point at a time, and a value of null (or false) to display the current marker and all previous markers.

The range property overrides the follow property. Default is FALSE

alwaysShowDate Should the Date always be visible. Default is FALSE

rezoom Use the rezoom property to ensure the markers being displayed remain in view.

Default is NULL

sameDate Show only data with the current selected time. Default is FALSE

Value

A list of options for addTimeslider

References

```
https://github.com/dwilhelm89/LeafletSlider
```

See Also

```
Other Timeslider Functions: addTimeslider(), removeTimeslider()
```

84 to_ms

| to_jsonformat | |
|---------------|--|
|---------------|--|

Description

to_jsonformat Transform object to JSON expected format

Usage

```
to_jsonformat(data, time, popup = NULL, label = NULL, name = NULL)
```

Arguments

data

| time | Name of the time column. |
|-------|---------------------------|
| popup | Name of the popup column. |
| label | Name of the label column. |
| name | Name of the name column. |

The data

Value

A list that is transformed to the expected JSON format

| to_ms to_ms Change POSIX or Date to milliseconds | |
|--|--|
|--|--|

Description

to_ms Change POSIX or Date to milliseconds

Usage

```
to_ms(data, time)
```

Arguments

data The data

time Name of the time column.

Value

A data.frame with the time column in milliseconds

unsync 85

| ш | ns | :v | nc |
|---|----|----|----|

Removes synchronization.

Description

Removes the synchronization of multiple maps from a specific map.

Usage

```
unsync(map, id = NULL, unsyncids = NULL)
```

Arguments

map the map

id The map id from which to unsynchronize the maps in unsyncids

unsyncids Unsynchronize the maps with the following IDs

Value

A map

See Also

Other leafletsync Functions: addLeafletsyncDependency(), addLeafletsync(), isSynced(), leafletsyncOptions()

updateHexbin

updateHexbin

Description

Dynamically change the data and/or the colorRange.

Usage

```
updateHexbin(map, data = NULL, lng = NULL, lat = NULL, colorRange = NULL)
```

86 velocityOptions

Arguments

| map | a map widget object created from leaflet() |
|------------|--|
| 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 |
| lng | a numeric vector of longitudes, or a one-sided formula of the form $^{\sim}x$ 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 1ng argument; the names 1at and latitude are used when guessing the latitude column from data) |
| colorRange | The range of the color scale used to fill the hexbins |

Value

the new map object

See Also

```
Other Hexbin-D3 Functions: addHexbin(), clearHexbin(), hexbinOptions(), hideHexbin(), showHexbin()
```

velocityOptions velocityOptions

Description

Define further options for the velocity layer.

Usage

```
velocityOptions(
  speedUnit = c("m/s", "k/h", "kt"),
  minVelocity = 0,
  maxVelocity = 10,
  velocityScale = 0.005,
  colorScale = NULL,
  ...
)
```

Arguments

speedUnit Could be 'm/s' for meter per second, 'k/h' for kilometer per hour or 'kt' for knots

minVelocity velocity at which particle intensity is minimum

maxVelocity velocity at which particle intensity is maximum

```
[.leaflet_mapkey_icon_set
```

87

velocityScale scale for wind velocity

colorScale A vector of hex colors or an RGB matrix

... Further arguments passed to the Velocity layer and Windy.js. For more informa-

tion, please visit leaflet-velocity plugin

Value

A list of further options for addVelocity

See Also

```
Other Velocity Functions: addVelocity(), removeVelocity(), setOptionsVelocity()
```

```
[.leaflet_mapkey_icon_set
```

leaflet_mapkey_icon_set

Description

```
leaflet_mapkey_icon_set
```

Usage

```
## S3 method for class 'leaflet_mapkey_icon_set' x[i]
```

Arguments

x icons i offset

See Also

 $Other\ Mapkey\ Functions:\ add Mapkey\ Markers(), make Mapkey\ Icon(), mapkey\ IconList(), mapkey\ Icons()$

Index

| * Antpath Functions | * Hexbin-D3 Functions |
|--|--|
| addAntpath, 4 | addHexbin, 13 |
| antpathOptions, 38 | clearHexbin,42 |
| clearAntpath, 40 | hexbinOptions, 53 |
| removeAntpath, 70 | hideHexbin, 55 |
| * Arrowhead Functions | showHexbin, 79 |
| addArrowhead, 6 | updateHexbin, 85 |
| arrowheadOptions, 39 | * History Functions |
| clearArrowhead,41 | addHistory, 15 |
| removeArrowhead, 71 | clearFuture, 42 |
| * Contextmenu Functions | clearHistory,43 |
| addContextmenu, 8 | goBackHistory, 50 |
| addItemContextmenu, 16 | goForwardHistory, 51 |
| <pre>context_mapmenuItems, 44</pre> | historyOptions, 55 |
| <pre>context_markermenuItems, 45</pre> | * Mapkey Functions |
| <pre>context_menuItem, 45</pre> | <pre>[.leaflet_mapkey_icon_set, 8]</pre> |
| disableContextmenu, 46 | addMapkeyMarkers, 19 |
| enableContextmenu, 49 | makeMapkeyIcon, 59 |
| hideContextmenu, 54 | <pre>mapkeyIconList, 60</pre> |
| <pre>insertItemContextmenu, 57</pre> | mapkeyIcons, 61 |
| mapmenuItems, 62 | * MovingMarker Functions |
| markermenuItems, 63 | addMovingMarker, 21 |
| menuItem, 64 | movingMarkerOptions, 64 |
| removeallItemsContextmenu, 69 | startMoving, 81 |
| removeItemContextmenu, 72 | * Openweathermap Functions |
| setDisabledContextmenu, 76 | addOpenweatherCurrent, 22 |
| showContextmenu, 78 | addOpenweatherTiles, 24 |
| * EasyPrint Functions | openweatherCurrentOptions, 60 |
| addEasyprint, 9 | openweatherOptions, 66 |
| easyprintMap,47 | * Playback Functions |
| easyprintOptions, 48 | addPlayback, 25 |
| removeEasyprint, 71 | playbackOptions, 67 |
| * GIBS Functions | removePlayback, 72 |
| addGIBS, 10 | * Reachability Functions |
| setDate, 75 | addReachability, 28 |
| setTransparent, 77 | reachabilityOptions, 69 |
| * Heightgraph Functions | removeReachability, 73 |
| addHeightgraph, 11 | * Sidebar Functions |
| heightgraphOptions, 51 | addSidebar, 29 |

INDEX 89

| closeSidebar, 43 | addLeafletsyncDependency, 18, 18, 58, 59, |
|---|--|
| openSidebar, 65 | 85 |
| removeSidebar, 73 | addMapkeyMarkers, 19, 60-62, 87 |
| sidebar_pane, 79 | addMovingMarker, 21, 65, 82 |
| sidebar_tabs, 80 | addOpenweatherCurrent, 22, 25, 66, 67 |
| * Sidebyside Functions | addOpenweatherTiles, 23, 24, 66, 67 |
| addSidebyside, 30 | addPlayback, 25, 67, 68, 73 |
| removeSidebyside, 74 | addReachability, 28, 69, 73 |
| * Tangram Functions | addSidebar, 29, 44, 65, 74, 80, 81 |
| addTangram, 32 | addSidebyside, 30, 74 |
| * Timeslider Functions | addSpinner, 31 |
| addTimeslider, 33 | addStationMoving(startMoving), 81 |
| removeTimeslider, 74 | addTangram, 32 |
| timesliderOptions, 82 | addTimeslider, 33, 75, 82, 83 |
| * Velocity Functions | addVelocity, 35, 75, 77, 87 |
| addVelocity, 35 | addWMS, 36 |
| removeVelocity, 75 | antpathOptions, 4, 5, 38, 41, 70 |
| setOptionsVelocity, 77 | arrowheadOptions, 6 , 7 , 39 , 41 , 71 |
| velocityOptions, 86 | 7 |
| * WMS Functions | clearAntpath, 5, 39, 40, 70 |
| addWMS, 36 | clearArrowhead, 7, 40, 41, 71 |
| * datasets | clearFuture, 15, 42, 43, 51, 56 |
| gibs_layers, 50 | clearGroup, 5, 7, 10, 12, 14, 20, 21, 23, 24, |
| * leafletsync Functions | 32, 35, 37 |
| addLeafletsync, 17 | clearHexbin, 14, 42, 54, 55, 79, 86 |
| addLeafletsyncDependency, 18 | clearHistory, 15, 42, 43, 51, 56 |
| isSynced, 57 | closeSidebar, 29, 43, 65, 74, 80, 81 |
| leafletsyncOptions, 58 | context_mapmenuItems, 8, 16, 44, 45, 46, 50, |
| unsync, 85 | 54, 57, 63, 64, 70, 72, 76, 78 |
| [.leaflet_mapkey_icon_set, 20, 60-62, 87 | context_markermenuItems, 8, 16, 44, 45, 46, |
| [.16d1161_maprey_16d11_66t, 26, 66 62, 67 | 50, 54, 57, 63, 64, 70, 72, 76, 78 |
| addAntpath, 4, 39, 41, 70 | context_menuItem, 8, 16, 44, 45, 45, 46, 50, |
| addArrowhead, 6, 40, 41, 71 | 54, 57, 63, 64, 70, 72, 76, 78 |
| addContextmenu, 8, 16, 44–46, 50, 54, 57, 63, | disableContextmenu, 8, 16, 44-46, 46, 50, |
| 64, 70, 72, 76, 78 | 54, 57, 63, 64, 70, 72, 76, 78 |
| addEasyprint, 9, 47, 49, 71 | 31, 37, 33, 31, 73, 72, 73, 73 |
| addGeoJSON, <i>11</i> | easyprintMap, <i>10</i> , 47, <i>49</i> , <i>71</i> |
| addGIBS, 10, 76, 78 | easyprintOptions, 9, 10, 47, 48, 71 |
| addHeightgraph, 11, 53 | enableContextmenu, 8, 16, 44-46, 49, 54, 57 |
| addHexbin, 13, 43, 54, 55, 79, 86 | 63, 64, 70, 72, 76, 78 |
| addHistory, 15, 42, 43, 51, 56 | |
| addItemContextmenu, 8, 16, 44–46, 50, 54, | gibs_layers, 10, 50, 75, 77 |
| 57, 63, 64, 70, 72, 76, 78 | goBackHistory, 15, 42, 43, 50, 51, 56 |
| | goForwardHistory, <i>15</i> , <i>42</i> , <i>43</i> , <i>51</i> , <i>51</i> , <i>56</i> |
| addLabelgun, 16 addLatLngMoving (startMoving), 81 | haightgraphOntions 12 12 51 |
| addLayersControl, 5, 7, 10, 12, 14, 20, 21, | heightgraphOptions, <i>12</i> , <i>13</i> , 51 hexbinOptions, <i>14</i> , <i>43</i> , 53, <i>55</i> , <i>79</i> , <i>86</i> |
| | hideContextmenu, 8, 16, 44–46, 50, 54, 57, |
| 23, 24, 30, 32, 35, 37 addleafletsync 17, 19, 58, 59, 85 | 63 64 70 72 76 78 |
| | |

90 INDEX

| hideHexbin, 14, 43, 54, 55, 79, 86 | removeEasyprint, 10, 47, 49, 71 |
|--|--|
| historyOptions, 15, 42, 43, 51, 55 | removeItemContextmenu, 8, 16, 44-46, 50, |
| htmlEscape, 5, 7, 20, 22, 34 | 54, 57, 63, 64, 70, 72, 76, 78 |
| | removePlayback, 26, 68, 72 |
| insertItemContextmenu, 8 , 16 , 44 – 46 , 50 , | removeReachability, 28, 69, 73 |
| 54, 57, 63, 64, 70, 72, 76, 78 | removeSidebar, 29, 44, 65, 73, 80, 81 |
| isSynced, 18, 19, 57, 59, 85 | removeSidebyside, 30,74 |
| | removeTimeslider, 34, 74, 83 |
| JS, 45, 53, 54, 64 | removeVelocity, 36, 75, 77, 87 |
| 1 1 10 11 5 7 00 00 06 04 | resumeMoving (startMoving), 81 |
| labelOptions, 5, 7, 20, 22, 26, 34 | G (|
| leaflet, 4, 6, 8–10, 12, 14–17, 23, 24, 31, 35, | setDate, 11, 75, 78 |
| 37, 41, 46, 49, 54, 57, 70, 72, 75–78, | setDisabledContextmenu, 8, 16, 44-46, 50 |
| 86 | 54, 57, 63, 64, 70, 72, 76, 78 |
| leaflet.extras2,58 | setOptionsVelocity, <i>36</i> , <i>75</i> , <i>77</i> , <i>87</i> |
| leafletOptions, 8 | setTransparent, <i>11</i> , <i>76</i> , <i>77</i> |
| leafletOutput, 29 | showContextmenu, 8, 16, 44–46, 50, 54, 57, |
| leafletProxy, 41-43, 50, 51, 70 | 63, 64, 70, 72, 76, 78 |
| leafletsyncOptions, <i>17–19</i> , <i>58</i> , <i>58</i> , <i>85</i> | showHexbin, 14, 43, 54, 55, 79, 86 |
| | sidebar_pane, 29, 44, 65, 74, 79, 80, 81 |
| makeIcon, 26 | sidebar_tabs, 29, 44, 65, 73, 74, 80, 80 |
| makeMapkeyIcon, 20, 59, 60–62, 87 | startMoving, 22, 65, 81 |
| mapkeyIconList, 20, 60, 60, 62, 87 | startSpinner (addSpinner), 31 |
| mapkeyIcons, 20, 60, 61, 61, 87 | stopMoving (startMoving), 81 |
| mapmenuItems, 8, 16, 44–46, 50, 54, 57, 62, | stopSpinner (addSpinner), 31 |
| 63, 64, 70, 72, 76, 78 | otopopiimei (addopiimei), oi |
| markerClusterOptions, 20 | timesliderOptions, 34, 75, 82 |
| markermenuItems, 8, 16, 44–46, 50, 54, 57, | to_jsonformat, 84 |
| 63, 63, 64, 70, 72, 76, 78 | to_ms, 84 |
| markerOptions, $8, 20, 22$ | _ / |
| menuItem, 8, 16, 44–46, 50, 54, 57, 63, 64, 70, | unsync, 18, 19, 58, 59, 85 |
| 72, 76, 78 | updateHexbin, <i>14</i> , <i>43</i> , <i>54</i> , <i>55</i> , <i>79</i> , 85 |
| <pre>moveToMoving (startMoving), 81</pre> | |
| movingMarkerOptions, 22, 64, 82 | velocityOptions, <i>36</i> , <i>75</i> , <i>77</i> , 86 |
| | |
| openSidebar, 29, 44, 65, 74, 80, 81 | |
| openweatherCurrentOptions, 23, 25, 66, 67 | |
| openweatherOptions, 23-25, 66, 66 | |
| mathontiana 0 12 26 | |
| pathOptions, 8, 12, 26 | |
| pauseMoving (startMoving), 81 | |
| playbackOptions, 26, 67, 73 | |
| popupOptions, 5, 7, 20, 22, 26, 34, 37 | |
| reachabilityOptions, 28, 69, 73 | |
| removeallItemsContextmenu, 8, 16, 44-46, | |
| 50, 54, 57, 63, 64, 69, 72, 76, 78 | |
| removeAntpath, <i>5</i> , <i>39</i> , <i>41</i> , 70 | |
| removeArrowhead, 7, 40, 41, 71 | |
| removeControl, 12 | |