

Package ‘leaflet.multiopacity’

December 14, 2020

Type Package

Title Leaflet Multiple Opacity Controls for R

Version 0.1.1

Description Extends Leaflet for R by adding widget to control opacity of multiple layers.

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URL <https://github.com/meantrix/leaflet.multiopacity>

URLNote <https://github.com/meantrix/leaflet.multiopacity>

BugReports <https://github.com/meantrix/leaflet.multiopacity/issues>

Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

Imports htmlwidgets, htmltools

Suggests leaflet, testthat, magrittr, raster, rgdal, covr, knitr,
rmarkdown

VignetteBuilder knitr

NeedsCompilation no

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 addOpacityControls *Add Opacity Controls*

Description

Add opacity controls to leaflet map. It is possible to choose which layers will have an opacity slider control by passing one of the arguments "category", "group" or "layerId" (passing more than one of these arguments will cause the others to be ignored). It is possible to pass one or more of each layerIds, categories or groups. If you leave these arguments with the default value (NULL), the opacity controls will be created to every layer in the map.

Usage

```
addOpacityControls(
  map,
  layerId = NULL,
  category = NULL,
  group = NULL,
  collapsed = FALSE,
  size = c("m", "s"),
  position = c("topright", "topleft", "bottomright", "bottomleft"),
  title = NULL,
  renderOnLayerAdd = FALSE
)
```

Arguments

map	The map to add the opacity controls to.
layerId	One or more layer IDs to render opacity controls to.
category	One or more categories to render opacity controls to. Tested categories are "tile" (base layers), "image" (e.g. raster) and "marker".
group	One or more groups to render opacity controls to.
collapsed	If FALSE (the default), the opacity control will always appear in its expanded state. Set to TRUE to have the opacity control rendered as an icon that expands when hovered over.
size	Collapsed control size: "m" (medium) or "s" (small).
position	Position of control: "topleft", "topright", "bottomleft", or "bottomright".
title	The control title.
renderOnLayerAdd	When this argument is TRUE, the controls will only appear when a new layer is added and rendered in the map. This can be useful if you plan to use 'leaflet-Proxy()' and need the controls to be dynamically updated.

Examples

```
# Load libraries
library(leaflet)
library(leaflet.multiopacity)
library(raster)

# Create raster example
r <- raster(xmn = -2.8, xmx = -2.79,
            ymn = 54.04, ymx = 54.05,
            nrows = 30, ncols = 30)
values(r) <- matrix(1:900, nrow(r), ncol(r), byrow = TRUE)
crs(r) <- crs("+init=epsg:4326")

# Provide layerId, group or category to show opacity controls
# If not specified, will render controls for all layers
# Example using layerId
leaflet() %>%
  addProviderTiles("Wikimedia", layerId = "Wikimedia") %>%
  addRasterImage(r, layerId = "raster") %>%
  addAwesomeMarkers(lng = -2.79545, lat = 54.04321,
                    layerId = "hospital", label = "Hospital") %>%
  addOpacityControls(layerId = c("raster", "hospital"))

# Example using category
leaflet() %>%
  addProviderTiles("Wikimedia", layerId = "Wikimedia") %>%
  addRasterImage(r, layerId = "raster") %>%
  addAwesomeMarkers(lng = -2.79545, lat = 54.04321,
                    layerId = "hospital", label = "Hospital") %>%
  addOpacityControls(category = c("image", "marker"))
```

dependencies

Return JavaScript dependencies

Description

Return JavaScript dependencies

Usage

```
dependencies()
```

Value

List with JavaScript dependencies of the package.

leafletDebug	<i>Leaflet Debug</i>
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Description

Debug a leaflet map in client side using browser inspector tools.

Usage

```
leafletDebug(map)
```

Arguments

map	Leaflet map.
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Value

Leaflet map.

registerPlugin	<i>Register Plugin to leaflet map</i>
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Description

Register Plugin to leaflet map

Usage

```
registerPlugin(map, plugin)
```

Arguments

map	The map to register the plugin.
plugin	List with JavaScript dependencies (from 'htmltools::htmlDependency') to register.

Value

Leaflet map with plugin registered (JS dependencies added).

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