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.
License MIT + file LICENSE
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

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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>map</td>
<td>The map to add the opacity controls to.</td>
</tr>
<tr>
<td>layerId</td>
<td>One or more layer IDs to render opacity controls to.</td>
</tr>
<tr>
<td>category</td>
<td>One or more categories to render opacity controls to. Tested categories are &quot;tile&quot; (base layers), &quot;image&quot; (e.g. raster) and &quot;marker&quot;.</td>
</tr>
<tr>
<td>group</td>
<td>One or more groups to render opacity controls to.</td>
</tr>
<tr>
<td>collapsed</td>
<td>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.</td>
</tr>
<tr>
<td>size</td>
<td>Collapsed control size: &quot;m&quot; (medium) or &quot;s&quot; (small).</td>
</tr>
<tr>
<td>position</td>
<td>Position of control: &quot;topleft&quot;, &quot;topright&quot;, &quot;bottomleft&quot;, or &quot;bottomright&quot;.</td>
</tr>
<tr>
<td>title</td>
<td>The control title.</td>
</tr>
<tr>
<td>renderOnLayerAdd</td>
<td>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.</td>
</tr>
</tbody>
</table>
Dependencies

**Examples**

```r
# 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**

```r
dependencies()
```

**Value**

List with JavaScript dependencies of the package.
leafletDebug

**Leaflet Debug**

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

**Usage**
leafletDebug(map)

**Arguments**
- map: Leaflet map.

**Value**
Leaflet map.

registerPlugin

**Register Plugin to leaflet map**

**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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