Package ‘leafpm’

October 13, 2022

Version 0.1.0
Date 2019-03-09
Title Leaflet Map Plugin for Drawing and Editing
Description A collection of tools for interactive manipulation of (spatial) data layers on leaflet web maps. Tools include editing of existing layers, creation of new layers through drawing of shapes (points, lines, polygons), deletion of shapes as well as cutting holes into existing shapes. Provides control over options to e.g. prevent self-intersection of polygons and lines or to enable/disable snapping to align shapes.
License MIT + file LICENSE
URL https://github.com/r-spatial/leafpm
BugReports https://github.com/r-spatial/leafpm/issues
Encoding UTF-8
LazyData true
ByteCompile true
RoxygenNote 6.1.1
Depends R (>= 3.1.0)
Imports dplyr, htmltools (>= 0.3), htmlwidgets, jsonlite, leaflet (>= 2.0.1), sf (>= 0.5-2),
Enhances geojsonio, mapedit, mapview, shiny
Suggests testthat
NeedsCompilation no
Author Kenton Russell [aut, cre],
    Tim Appelhans [aut],
    Sumit Kumar [ctb] (Leaflet.pm plugin)
Maintainer Kenton Russell <kent.russell@timelyportfolio.com>
Repository CRAN
Date/Publication 2019-03-13 12:10:03 UTC
addPmToolbar

R topics documented:

addPmToolbar .................................................. 2
pmCutOptions ................................................ 3
pmDependencies .............................................. 4
pmDrawOptions ................................................ 4
pmEditOptions ............................................... 5
pmToolbarOptions .......................................... 6
removePmToolbar ............................................ 6

Index

8

addPmToolbar  Add 'leaflet-pm' Toolbar to a Leaflet 'htmlwidget'

Description

Add 'leaflet-pm' Toolbar to a Leaflet 'htmlwidget'

Usage

addPmToolbar(map = NULL, targetLayerId = NULL, targetGroup = NULL,
toolbarOptions = pmToolbarOptions(), drawOptions = pmDrawOptions(),
editOptions = pmEditOptions(), cutOptions = pmCutOptions())

Arguments

map leaflet map htmlwidget to which the toolbar should be added
targetLayerId string id of the feature to edit
targetGroup string name of the group to edit
toolbarOptions pmToolbarOptions
drawOptions pmDrawOptions
editOptions pmEditOptions
cutOptions pmCutOptions

Value

leaflet htmlwidget

Examples

if(interactive()) {
  library(leaflet)
  library(leafpm)

  # quick example
  leaflet() %>%
}
## pmCutOptions

**Set Options for 'leaflet.pm' Cut Mode**

### Description
Set Options for 'leaflet.pm' Cut Mode

### Usage

```r
pmCutOptions(snappable = FALSE, allowSelfIntersection = TRUE, cursorMarker = FALSE)
```
pmDrawOptions

Arguments

- snappable: logical to snap while drawing. Default is TRUE.
- allowSelfIntersection: logical to allow self-intersection. Default is TRUE.
- cursorMarker: logical to show a marker at the cursor. Default is TRUE.

Value

list of options

pmDependencies

Dependencies for 'leaflet-pm'

pmDrawOptions

Set Options for 'leaflet.pm' Draw Mode

Description

Set Options for 'leaflet.pm' Draw Mode

Usage

pmDrawOptions(snappable = TRUE, snapDistance = 20, snapMiddle = TRUE, tooltips = TRUE, cursorMarker = TRUE, finishOn = NULL, allowSelfIntersection = TRUE, templineStyle = list(), hintlineStyle = list(color = "#3388ff", dashArray = "5,5"), markerStyle = list(draggable = TRUE))
pmEditOptions

Arguments

- **snappable**: logical to snap while drawing. Default is TRUE.
- **snapDistance**: integer for the distance within which snapping will occur. Default is 20.
- **snapMiddle**: logical to snap in the middle of segments. Default is TRUE.
- **tooltips**: logical to show tooltips. Default is TRUE.
- **cursorMarker**: logical to show a marker at the cursor. Default is TRUE.
- **finishOn**: string type of layer event to finish the drawn shape. Example events are 'mouseout', 'dblclick', 'contextmenu'. Default is NULL.
- **allowSelfIntersection**: logical to allow self-intersection. Default is TRUE.
- **templineStyle**: list to customize the styling of the lines between coordinates and markers.
- **hintlineStyle**: list to customize the styling of the line between the last marker and the cursor.
- **markerStyle**: list to customize the styling of the added marker.

Value

- list of options

---

**pmEditOptions**

*Set Options for 'leaflet.pm' Edit Mode*

Description

Set Options for 'leaflet.pm' Edit Mode

Usage

```r
pmEditOptions(snappable = TRUE, snapDistance = 20,
               allowSelfIntersection = TRUE, draggable = TRUE,
               preventMarkerRemoval = FALSE, preventVertexEdit = FALSE)
```

Arguments

- **snappable**: logical to snap while drawing. Default is TRUE.
- **snapDistance**: integer for the distance within which snapping will occur. Default is 20.
- **allowSelfIntersection**: logical to allow self-intersection. Default is TRUE.
- **draggable**: logical make the layer draggable. Default is TRUE.
- **preventMarkerRemoval**: logical to disable removal via right-click. Default is FALSE.
- **preventVertexEdit**: logical to disable editing of vertices. Default is FALSE.

Value

- list of options
pmToolbarOptions  

Set Options for 'leaflet.pm' Toolbar

Description
Set Options for 'leaflet.pm' Toolbar

Usage
pmToolbarOptions(drawMarker = TRUE, drawPolygon = TRUE, drawPolyline = TRUE, drawCircle = TRUE, drawRectangle = TRUE, editMode = TRUE, cutPolygon = TRUE, removalMode = TRUE, position = "topleft")

Arguments
- drawMarker  logical  add button to draw a marker. Default is TRUE.
- drawPolygon  logical  add button to draw a polygon. Default is TRUE.
- drawPolyline  logical  add button to draw a polyline. Default is TRUE.
- drawCircle  logical  add button to draw a circle. Default is TRUE.
- drawRectangle  logical  add button to draw a rectangle. Default is TRUE.
- editMode  logical  add button to edit features. Default is TRUE.
- cutPolygon  logical  add button to cut a hole. Default is TRUE.
- removalMode  logical  add button to remove features. Default is TRUE.
- position  string  toolbar position. Options are 'topleft', 'topright', 'bottomleft', 'bottom-right'. Default is 'topleft'.

Value
leaflet htmlwidget with added toolbar

removePmToolbar  

Removes the 'leaflet.pm' toolbar

Description
Removes the 'leaflet.pm' toolbar

Usage
removePmToolbar(map, clearFeatures = FALSE)
removePmToolbar

Arguments

map     leaflet map htmlwidget from which the toolbar should be removed
clearFeatures     whether to clear the map of drawn features. currently not working

Value

leaflet htmlwidget
Index

addPmToolbar, 2

pmCutOptions, 2, 3  
pmDependencies, 4  
pmDrawOptions, 2, 4  
pmEditOptions, 2, 5  
pmToolbarOptions, 2, 6  

removePmToolbar, 6