Package ‘leafpm’

March 13, 2019

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 (&ge; 3.1.0)
Imports dplyr, htmltools (&ge; 0.3), htmlwidgets, jsonlite, leaflet (&ge; 2.0.1), sf (&ge; 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
R topics documented:

- addPmToolbar
- pmCutOptions
- pmDependencies
- pmDrawOptions
- pmEditOptions
- pmToolbarOptions
- removePmToolbar

Description

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

Usage

```r
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

```r
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

pmCutOptions(snappable = FALSE, allowSelfIntersection = TRUE, cursorMarker = FALSE)
**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'*

**Description**

Dependencies for 'leaflet-pm'

**Usage**

```r
pmDependencies()
```

**Value**

- `htmltools::htmlDependency`

---

**pmDrawOptions**  
*Set Options for 'leaflet.pm' Draw Mode*

**Description**

Set Options for 'leaflet.pm' Draw Mode

**Usage**

```r
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

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>snappable</td>
<td>logical to snap while drawing. Default is TRUE.</td>
</tr>
<tr>
<td>snapDistance</td>
<td>integer for the distance within which snapping will occur. Default is 20.</td>
</tr>
<tr>
<td>snapMiddle</td>
<td>logical to snap in the middle of segments. Default is TRUE.</td>
</tr>
<tr>
<td>tooltips</td>
<td>logical to show tooltips. Default is TRUE.</td>
</tr>
<tr>
<td>cursorMarker</td>
<td>logical to show a marker at the cursor. Default is TRUE.</td>
</tr>
<tr>
<td>finishOn</td>
<td>string type of layer event to finish the drawn shape. Example events are 'mouseout', 'dblclick', 'contextmenu'. Default is NULL.</td>
</tr>
<tr>
<td>allowSelfIntersection</td>
<td>logical to allow self-intersection. Default is TRUE.</td>
</tr>
<tr>
<td>templinestyle</td>
<td>list to customize the styling of the lines between coordinates and markers.</td>
</tr>
<tr>
<td>hintlinestyle</td>
<td>list to customize the styling of the line between the last marker and the cursor.</td>
</tr>
<tr>
<td>markerstyle</td>
<td>list to customize the styling of the added marker.</td>
</tr>
</tbody>
</table>

Value

list of options

Description

Set Options for 'leaflet.pm' Edit Mode

Usage

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

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>snappable</td>
<td>logical to snap while drawing. Default is TRUE.</td>
</tr>
<tr>
<td>snapDistance</td>
<td>integer for the distance within which snapping will occur. Default is 20.</td>
</tr>
<tr>
<td>allowSelfIntersection</td>
<td>logical to allow self-intersection. Default is TRUE.</td>
</tr>
<tr>
<td>draggable</td>
<td>logical make the layer draggable. Default is TRUE.</td>
</tr>
<tr>
<td>preventMarkerRemoval</td>
<td>logical to disable removal via right-click. Default is FALSE.</td>
</tr>
<tr>
<td>preventVertexEdit</td>
<td>logical to disable editing of vertices. Default is FALSE.</td>
</tr>
</tbody>
</table>

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)
**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