Package 'spatialwidget'

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Type Package

Title Formats Spatial Data for Use in Htmlwidgets

Version 0.2.6

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Description
Many packages use 'htmlwidgets' <https://CRAN.R-project.org/package=htmlwidgets> for interactive plotting of spatial data.
This package provides functions for converting R objects, such as simple features, into structures suitable for use in 'htmlwidgets' mapping libraries.

URL https://symbolixau.github.io/spatialwidget/articles/spatialwidget.html

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Depends R (>= 3.3.0)

Encoding UTF-8

LazyData true

Imports Rcpp

LinkingTo BH (>= 1.87.0-1), colourvalues (>= 0.3.9), geojsonsf (>= 2.0.5), geometries (>= 0.2.5), interleave (>= 0.1.2), jsonify (>= 1.2.3), rapidjsonr (>= 1.2.1), Rcpp (>= 1.1.0), sfheaders (>= 0.4.5)

RoxygenNote 7.3.3

Suggests colourvalues, covr, geojsonsf, jsonify, sfheaders, knitr, rmarkdown, testthat

VignetteBuilder knitr

NeedsCompilation yes

Author David Cooley [aut, cre]

Maintainer David Cooley <dcooley@symbolix.com.au>

Repository CRAN

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Contents

`widget_arcs` *Origin Destination points between Sydney, Australia and other capitals cities*

Description

A simple feature `sf` object with two `sfc` columns, "origin" and "destination"

Usage

```
widget_arcs
```

Format

A sf object with 199 observations and 6 variables

country_from origin country

capital_from origin capital

country_to destination country

capital_to destination capital

origin sfc geometry column

destination sfc geometry column

widget_capitals *Capital cities for each country*

Description

A simple feature `sf` object containing the coordinates of 200 capitical cities in the world

Usage

```
widget_capitals
```

Format

A sf object with 200 observations and 4 variables

country country name

capital capital name

geometry sfc geometry column

widget_line *Widget Line*

Description

Converts an ‘sf‘ object with LINESTRING geometriers into JSON for plotting in an htmlwidget

Usage

```
widget_line(
  data,
  stroke_colour = NULL,
  stroke_opacity = NULL,
  stroke_width = NULL,
  legend = TRUE,
  json_legend = TRUE,
  digits = 6
)
```

Arguments

data	sf object
stroke_colour	string specifying column of sf to use for the stroke colour, or a single value to apply to all rows of data
stroke_opacity	string specifying column of sf to use for the stroke opacity, or a single value to apply to all rows of data
stroke_width	string specifying column of sf to use for the stroke width, or a single value to apply to all rows of data
legend	logical indicating if legend data will be returned
json_legend	logical indicating if the legend will be returned as json
digits	number of decimal places for rounding lon o& lat coordinates. Default 6

Examples

```
## use default stroke options
l <- widget_line( widget_roads, legend = TRUE )
```

---

widget_melbourne *Melbourne*

Description

A simple feature sf object of Polygons for Melbourne and the surrounding area

Usage

```
widget_melbourne
```

Format

A data frame with 397 observations and 7 variables

SA2_NAME statistical area 2 name of the polygon

SA3_NAME statistical area 3 name of the polygon

AREASQKM area of the SA2 polygon

geometry sfc geometry column

Details

This data set is a subset of the Statistical Area Level 2 (SA2) ASGS Edition 2016 data released by the Australian Bureau of Statistics https://www.abs.gov.au/

The data is realeased under a Creative Commons Attribution 2.5 Australia licence https://creativecommons.org/licenses/by/2.5/au/

The data has been down-cast from MULTIPOLYGONS to POLYGONS.

widget_od *Widget OD*

Description

Converts an ‘sf‘ object with two POINT geometriers into JSON for plotting in an htmlwidget

Usage

```
widget_od(
  data,
  origin,
  destination,
  fill_colour = NULL,
  fill_opacity = NULL,
  legend = TRUE,
  json_legend = TRUE,
  digits = 6
)
```

Arguments

data	sf object
origin	string specifying the column of data containing the origin geometry
destination	string specifying the column of data containing the destination geometry
fill_colour	string specifying column of sf to use for the fill colour, or a single value to apply to all rows of data
fill_opacity	string specifying column of sf to use for the fill opacity, or a single value to apply to all rows of data
legend	logical indicating if legend data will be returned
json_legend	logical indicating if the legend will be returned as json
digits	number of decimal places for rounding lon o& lat coordinates. Default 6

Examples

```
l <- widget_od( data = widget_arcs, origin = "origin", destination = "destination", legend = FALSE )
```

widget_point *Widget Point*

Description

Converts an ‘sf‘ object with POINT geometriers into JSON for plotting in an htmlwidget

Usage

```
widget_point(
  data,
  fill_colour = NULL,
  fill_opacity = NULL,
  lon = NULL,
  lat = NULL,
  legend = TRUE,
  json_legend = TRUE,
  digits = 6
)
```

Arguments

data	sf object
fill_colour	string specifying column of sf to use for the fill colour, or a single value to apply to all rows of data
fill_opacity	string specifying column of sf to use for the fill opacity, or a single value to apply to all rows of data
lon	string specifying the column of data containing the longitude. Ignored if using an sf object
lat	string specifying the column of data containing the latitude. Ignored if using an sf object
legend	logical indicating if legend data will be returned
json_legend	logical indicating if the legend will be returned as json
digits	number of decimal places for rounding lon o& lat coordinates. Default 6

Examples

```
l <- widget_point( data = widget_capitals, legend = FALSE )
```

widget_polygon *Widget Polygon*

Description

Converts an ‘sf‘ object with POLYGON geometriers into JSON for plotting in an htmlwidget

Usage

```
widget_polygon(
  data,
  stroke_colour = NULL,
  stroke_opacity = NULL,
  stroke_width = NULL,
  fill_colour = NULL,
  fill_opacity = NULL,
  legend = TRUE,
  json_legend = TRUE,
  digits = 6
)
```

Arguments

data	sf object
stroke_colour	string specifying column of sf to use for the stroke colour, or a single value to apply to all rows of data
stroke_opacity	string specifying column of sf to use for the stroke opacity, or a single value to apply to all rows of data
stroke_width	string specifying column of sf to use for the stroke width, or a single value to apply to all rows of data
fill_colour	string specifying column of sf to use for the fill colour, or a single value to apply to all rows of data
fill_opacity	string specifying column of sf to use for the fill opacity, or a single value to apply to all rows of data
legend	logical indicating if legend data will be returned
json_legend	logical indicating if the legend will be returned as json
digits	number of decimal places for rounding lon o& lat coordinates. Default 6

Examples

```
l <- widget_polygon( widget_melbourne, legend = FALSE )
l <- widget_polygon( widget_melbourne, fill_colour = "AREASQKM16", legend = TRUE )
```

widget_roads *Roads in central Melbourne*

Description

A simple feature sf object of roads in central Melbourne

Usage

```
widget_roads
```

Format

An sf and data frame object with 18286 observations and 16 variables

Details

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