Package: valuemap (via r-universe)

August 28, 2024

Type Package

Title Making Choropleth Map

Version 2.0.4

Description You can easily visualize your 'sf' polygons or data.frame with h3 address. While 'leaflet' package is too raw for data analysis, this package can save data analysts' efforts & time with pre-set visualize options.

Depends R (>= 3.6.0)

License GPL (>= 3)

Encoding UTF-8

LazyData true

RoxygenNote 7.1.2

URL https://github.com/Curycu/valuemap

BugReports https://github.com/Curycu/valuemap/issues

Imports sf (>= 0.9-0), leaflet (>= 2.0.0), htmltools (>= 0.4.0), dplyr (>= 0.8.3), devtools (>= 2.2.0), h3jsr (>= 1.3.0), utils

Repository https://curycu.r-universe.dev

RemoteUrl https://github.com/curycu/valuemap

RemoteRef HEAD

RemoteSha 700e01b9712bae0c3ba2f09bcfc585d30e78026a

Contents

seoul — *Polygons of 25 administration area of Seoul, Republic of Korea.*

Description

A dataset containing the wgs84 coordinated polygons and other attributes.

Usage

```
seoul
```

Format

A sf with 25 rows and 3 variables:

name id codes with 4 digit number

value numbers of sub-administration area

geometry wgs84 base coordinated polygons ...

Source

https://github.com/vuski/admdongkor

seoul_h3 — *H3 addresses within Seoul, Republic of Korea.*

Description

A dataset containing the h3 resolution level 8 addresses and other attributes.

Usage

```
seoul_h3
```

Format

A data.frame with 1329 rows and 2 variables:

name h3 resolution 8 address

value meaningless number ...

Source

https://github.com/vuski/admdongkor

valuemap *Making choropleth map with sf polygons*

Description

This function make a leaflet object. You can easily visualize your sf polygons based on "value" column. You have options : background map (= map) color legend boundary values (= legend.cut) color palette for color legend (= palette) showing "value" number on center of polygons (= show.text) color for "value" number text on center of polygons (= text.color)

Usage

```
valuemap(
  data,
  map = providers$OpenStreetMap,
  legend.cut = NULL,
  palette = "Blues",
  show.text = TRUE,
  text.color = "black",
  text.format = function(x) x
)
```

Arguments

data	A sf object with polygons who has "name" & "value" columns ("value" column must be numeric type)
map	A map name of leaflet::providers
legend.cut	A numeric vector which means color legend boundary values
palette	A color name of RColorBrewer palettes
show.text	A boolean who determines showing "value" number on center of polygons
text.color	A color name for "value" number text on center of polygons
text.format	A format function for "value" number text on center of polygons

Value

A leaflet object.

Examples

```
# Only run this example in interactive R sessions
if (interactive()) valuemap(seoul)

# Emphasize great of equal to 20 polygons
if (interactive()) valuemap(seoul, legend.cut=c(20))

# Visualize without center number on polygons
```

```
if (interactive()) valuemap(seoul, legend.cut=c(15,17,20), show.text=FALSE)

# Change color palette & center number on polygons text color, format & change background map
if (interactive())
  valuemap(
    seoul, map=providers$Stamen.Toner, palette='YlOrRd',
    text.color='blue', text.format=function(x) paste(x,'EA')
  )
```

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valuemap_h3 *Making choropleth map with data.frame of h3 address*

Description

This function make a leaflet object. You can easily visualize your data.frame with h3 address "name" column based on "value" column. You have options : background map (= map) color legend boundary values (= legend.cut) color palette for color legend (= palette) showing "value" number on center of polygons (= show.text) color for "value" number text on center of polygons (= text.color)

Usage

```
valuemap_h3(
  data,
  map = providers$OpenStreetMap,
  legend.cut = NULL,
  palette = "Blues",
  show.text = TRUE,
  text.color = "black",
  text.format = function(x) x
)
```

Arguments

data	A data.frame object who has "h3_addr" & "value" columns ("value" column must be numeric type)
map	A map name of leaflet::providers
legend.cut	A numeric vector which means color legend boundary values
palette	A color name of RColorBrewer palettes
show.text	A boolean who determines showing "value" number on center of polygons
text.color	A color name for "value" number text on center of polygons
text.format	A format function for "value" number text on center of polygons

Value

A leaflet object.

Examples

```
if (interactive()){
  valuemap_h3(seoul_h3, legend.cut=1:6, show.text=FALSE)
}
```

Index