

Package ‘tilegramsR’

October 14, 2022

Type Package

Title R Spatial Data for Tilegrams

Version 0.2.0

Description R spatial objects for Tilegrams.

Tilegrams are tiled maps where the region size is proportional to the certain characteristics of the dataset.

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Encoding UTF-8

LazyData true

Depends R (>= 3.1.0), sf

Imports sp

Suggests dplyr, tidyr, knitr, rmarkdown, leaflet (>= 1.1.0),

VignetteBuilder knitr

URL <https://github.com/bhaskarvk/tilegramsR>

BugReports <https://github.com/bhaskarvk/tilegramsR/issues>

RoxygenNote 6.0.1

NeedsCompilation no

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Repository CRAN

Date/Publication 2017-03-29 17:43:16 UTC

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sf_Datamap.io.tilegram
sf_Datamap.io.tilegram

Description

A ‘sf’ object where each polygon represents a state

A ‘sf’ object of centroids of each state

Usage

sf_Datamap.io.tilegram

sf_Datamap.io.tilegram.centers

Format

sf

Examples

```
## Not run:
library(leaflet)
library(tilegramsR)
data <- sf_Datamap.io.tilegram
leaflet(data,
  options=leafletOptions(crs=leafletCRS("L.CRS.Simple"))) %>%
  addPolygons()

## End(Not run)
```

sf_DKOS_50_State_OuterHex_Tilemap_v1

sf_DKOS_50_State_OuterHex_Tilemap_v1

Description

A 'sf' object where each polygon represents a state

A 'sf' object where each polygon represents a state

A 'sf' object of centroids of each state

Usage

sf_DKOS_50_State_OuterHex_Tilemap_v1

sf_DKOS_50_State_InnerHex_Tilemap_v1

sf_DKOS_50_State_Hex_Tilemap_v1.centers

Format

sf

sf_DKOS_CD_Hexmap_v1.1

sf_DKOS_CD_Hexmap_v1.1

Description

A 'sf' object where each polygon equals one congressional district

A 'sf' object where each polygon represents a state

A 'sf' object of centroids of each state

Usage

sf_DKOS_CD_Hexmap_v1.1

sf_DKOS_CD_Hexmap_v1.1.states

sf_DKOS_CD_Hexmap_v1.1.centers

Format

sf

Examples

```
## Not run:
library(leaflet)
library(tilegramsR)
data <- sf_DKOS_CD_Hexmap_v1.1
leaflet(data,
  options=leafletOptions(crs=leafletCRS("L.CRS.Simple"))) %>%
  addPolygons()

## End(Not run)
```

```
sf_DKOS_Distorted_Electoral_College_Map_v1
  sf_DKOS_Distorted_Electoral_College_Map_v1
```

Description

A 'sf' object where each polygon represents a state

A 'sf' object of centroids of each state

Usage

```
sf_DKOS_Distorted_Electoral_College_Map_v1

sf_DKOS_Distorted_Electoral_College_Map_v1.centers
```

Format

sf

Examples

```
## Not run:
library(leaflet)
library(tilegramsR)
data <- sf_DKOS_Distorted_Electoral_College_Map_v1
leaflet(data,
  options=leafletOptions(crs=leafletCRS("L.CRS.Simple"))) %>%
  addPolygons()

## End(Not run)
```

```
sf_DKOS_Electoral_College_Map_v1
  sf_DKOS_Electoral_College_Map_v1
```

Description

A 'sf' object where each polygon equals one electoral college

A 'sf' object where each polygon represents a state

A 'sf' object of centroids of each state

Usage

```
sf_DKOS_Electoral_College_Map_v1
sf_DKOS_Electoral_College_Map_v1.states
sf_DKOS_Electoral_College_Map_v1.centers
```

Format

sf

Examples

```
## Not run:
library(leaflet)
library(tilegramsR)
data <- sf_DKOS_Electoral_College_Map_v1
leaflet(data,
  options=leafletOptions(crs=leafletCRS("L.CRS.Simple"))) %>%
  addPolygons()

## End(Not run)
```

```
sf_FiveThirtyEightElectoralCollege
  sf_FiveThirtyEightElectoralCollege
```

Description

A 'sf' object where each polygon equals one electoral vote

A 'sf' object where each polygon represents a state

A 'sf' object of centroids of each state

Usage

```
sf_FiveThirtyEightElectoralCollege  
  
sf_FiveThirtyEightElectoralCollege.states  
  
sf_FiveThirtyEightElectoralCollege.centers
```

Format

```
sf
```

Examples

```
## Not run:  
library(leaflet)  
library(tilegramsR)  
data <- sf_FiveThirtyEightElectoralCollege  
leaflet(data,  
  options=leafletOptions(crs=leafletCRS("L.CRS.Simple"))) %>%  
  addPolygons()  
  
## End(Not run)
```

```
sf_france_all_regions_population  
  sf_france_all_regions_population
```

Description

A 'sf' object for regions of France including overseas.
A 'sf' object of regional boundaries of each French region.
A 'sf' object of centroids of each French region.

Usage

```
sf_france_all_regions_population  
  
sf_france_all_regions_population.regions  
  
sf_france_all_regions_population.centers
```

Format

An object of class sf (inherits from data.frame) with 18 rows and 4 columns.

sf_france_departments *sf_france_departments*

Description

A 'sf' object for departments of France.

A 'sf' object of centroids of each French department.

Usage

```
sf_france_departments
```

```
sf_france_departments.centers
```

Format

An object of class sf (inherits from data.frame) with 96 rows and 4 columns.

sf_france_regions_population
sf_france_regions_population

Description

A 'sf' object for regions of France

A 'sf' object of regional boundaries of each French region.

A 'sf' object of centroids of each French region.

Usage

```
sf_france_regions_population
```

```
sf_france_regions_population.regions
```

```
sf_france_regions_population.centers
```

Format

An object of class sf (inherits from data.frame) with 13 rows and 4 columns.

sf_germany_constituencies
sf_germany_constituencies

Description

A 'sf' object for regions of Germany

A 'sf' object of centroids of each German region.

Usage

sf_germany_constituencies

sf_germany_constituencies.centers

Format

An object of class sf (inherits from data.frame) with 299 rows and 4 columns.

sf_NPR.DemersCartogram
sf_NPR.DemersCartogram

Description

A 'sf' object where each polygon represents a state

A 'sf' object of centroids of each state

Usage

sf_NPR.DemersCartogram

sf_NPR.DemersCartogram.centers

Format

sf

Examples

```
## Not run:
library(leaflet)
library(tilegramsR)
data <- sf_NPR.DemersCartogram
leaflet(data,
  options=leafletOptions(crs=leafletCRS("L.CRS.Simple"))) %>%
  addPolygons()

## End(Not run)
```

sf_NPR1to1

sf_NPR1to1

Description

A 'sf' object where each polygon represents a state

A 'sf' object of centroids of each state

Usage

```
sf_NPR1to1
```

```
sf_NPR1to1.centers
```

Format

```
sf
```

Examples

```
## Not run:
library(leaflet)
library(tilegramsR)
data <- sf_NPR1to1
leaflet(data,
  options=leafletOptions(crs=leafletCRS("L.CRS.Simple"))) %>%
  addPolygons()

## End(Not run)
```

```
sf_Pitch_US_Population_2016_v1
      sf_Pitch_US_Population_2016_v1
```

Description

A 'sf' object where each polygon equals 500K people
 A 'sf' object where each polygon represents a state
 A 'sf' object of centroids of each state

Usage

```
sf_Pitch_US_Population_2016_v1
sf_Pitch_US_Population_2016_v1.states
sf_Pitch_US_Population_2016_v1.centers
```

Format

```
sf
```

Examples

```
## Not run:
library(leaflet)
library(tilegramsR)
data <- sf_Pitch_US_Population_2016_v1
leaflet(data,
  options=leafletOptions(crs=leafletCRS("L.CRS.Simple"))) %>%
  addPolygons()

## End(Not run)
```

```
sf_WP      sf_WP
```

Description

A 'sf' object where each polygon represents a state
 A 'sf' object of centroids of each state

Usage

```
sf_WP
sf_WP.centers
```

Format

sf

Examples

```
## Not run:
library(leaflet)
library(tilegramsR)
data <- sf_WP
leaflet(data,
  options=leafletOptions(crs=leafletCRS("L.CRS.Simple"))) %>%
  addPolygons()

## End(Not run)
```

`sf_WSJ``sf_WSJ`

Description

A 'sf' object where each polygon represents a state

A 'sf' object of centroids of each state

Usage`sf_WSJ``sf_WSJ.centers`**Format**

sf

Examples

```
## Not run:
library(leaflet)
library(tilegramsR)
spdf <- sf_WSJ
leaflet(spdf) %>% addPolygons()

## End(Not run)
```

`tilegramsR`*tilegramsR*

Description

Tilegrams are tiled maps where the region size is proportional to the certain characteristics of the dataset. This package provides several such tilegrams as simple feature (sf) objects.

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