

Package ‘tilegramsR’

July 22, 2025

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.

License MIT + file LICENSE

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

Author Bhaskar Karambelkar [aut, cre]

Maintainer Bhaskar Karambelkar <bhaskarvk@gmail.com>

Repository CRAN

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

Contents

sf_Datamap.io.tilegram	2
sf_DKOS_50_State_OuterHex_Tilemap_v1	3
sf_DKOS_CD_Hexmap_v1.1	3
sf_DKOS_Distorted_Electoral_College_Map_v1	4
sf_DKOS_Electoral_College_Map_v1	5

sf_FiveThirtyEightElectoralCollege	5
sf_france_all_regions_population	6
sf_france_departments	7
sf_france_regions_population	7
sf_germany_constituencies	8
sf_NPR.DemersCartogram	8
sf_NPR1to1	9
sf_Pitch_US_Population_2016_v1	10
sf_WP	10
sf_WSJ	11
tilegramsR	12
Index	13

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.

Index

* datasets

sf_Datamap.io.tilegram, [2](#)
sf_DKOS_50_State_OuterHex_Tilemap_v1, [3](#)
sf_DKOS_CD_Hexmap_v1.1, [3](#)
sf_DKOS_Distorted_Electoral_College_Map_v1, [4](#)
sf_DKOS_Electoral_College_Map_v1, [5](#)
sf_FiveThirtyEightElectoralCollege, [5](#)
sf_france_all_regions_population, [6](#)
sf_france_departments, [7](#)
sf_france_regions_population, [7](#)
sf_germany_constituencies, [8](#)
sf_NPR.DemersCartogram, [8](#)
sf_NPR1to1, [9](#)
sf_Pitch_US_Population_2016_v1, [10](#)
sf_WP, [10](#)
sf_WSJ, [11](#)
sf_NPR.DemersCartogram, [8](#)
sf_NPR1to1, [9](#)
sf_Pitch_US_Population_2016_v1, [10](#)
sf_WP, [10](#)
sf_WSJ, [11](#)
tilegramsR, [12](#)
tilegramsR-package (tilegramsR), [12](#)

sf_Datamap.io.tilegram, [2](#)
sf_DKOS_50_State_Hex_Tilemap_v1.centers
(sf_DKOS_50_State_OuterHex_Tilemap_v1), [3](#)
sf_DKOS_50_State_InnerHex_Tilemap_v1
(sf_DKOS_50_State_OuterHex_Tilemap_v1), [3](#)
sf_DKOS_50_State_OuterHex_Tilemap_v1, [3](#)
sf_DKOS_CD_Hexmap_v1.1, [3](#)
sf_DKOS_Distorted_Electoral_College_Map_v1, [4](#)
sf_DKOS_Electoral_College_Map_v1, [5](#)
sf_FiveThirtyEightElectoralCollege, [5](#)
sf_france_all_regions_population, [6](#)
sf_france_departments, [7](#)
sf_france_regions_population, [7](#)
sf_germany_constituencies, [8](#)