

# Package ‘tilegramsR’

March 29, 2017

**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

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**Repository** CRAN

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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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