Package ‘ggswissmaps’

October 13, 2022

Title Offers Various Swiss Maps as Data Frames and ‘ggplot2’ Objects

Description Offers various swiss maps as data frames and ‘ggplot2’ objects and gives the possibility to add layers of data on the maps. Data are publicly available from the swiss federal statistical office.

Version 0.1.1

License GPL-2

URL https://github.com/gibonet/ggswissmaps

Depends R (>= 2.14), ggplot2 (>= 2.0.0)

Imports utils

Suggests dplyr, plyr, reshape2, testthat, data.table, knitr, rmarkdown

VignetteBuilder knitr

LazyData yes

RoxygenNote 5.0.1

Encoding UTF-8

NeedsCompilation no

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Repository CRAN

Date/Publication 2016-10-29 10:48:24

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ggswissmaps offers various swiss maps as data frames and ‘ggplot2’ objects.

**Description**

Offers various swiss maps as data frames and ‘ggplot2’ objects and gives the possibility to add layers of data on the maps. Data are publicly available from the swiss federal statistical office. In addition to the maps2 object (a list of 16 swiss maps, at various levels), there are the data frames with the boundaries used to produce these maps (shp_df, a list with 8 data frames).

**Details**

See the package vignette for some examples (vignette("ggswissmaps_intro", package = "ggswissmaps")).

maps2

A list with 8 ‘ggplot2’ objects of swiss territory boundaries, at various levels.

**Description**

Every element of the list is a ‘ggplot2’ graphic, corresponding to an element of shp_df.

**Usage**

maps2

**Format**

A list with 8 data frames with swiss territory boundaries (at various levels).

**Details**

Columns are not all the same across data frames, but usually they have the following in common:

- long. Longitude coordinate (x)
- lat. Latitude coordinate (y)
- group. A factor to be used to plot the polygons correctly (with ggplot2)

**Source**

http://www.bfs.admin.ch/bfs/portal/fr/index/dienstleistungen/geostat/datenbeschreibung.html
Maps2

Examples

class(maps2)
length(maps2)
names(maps2)
# str(maps2[["g1k15"]])

# By name
maps2[["g1k15"]]

# By index
maps2[[5]]

---

Maps2

Prepares the base of a map, starting from a data frame with longitude (long) and latitude (lat) coordinates, as a `ggplot2` object

Description

Prepares the base of a map, starting from a data frame with longitude (long) and latitude (lat) coordinates, as a `ggplot2` object

Usage

```r
maps2_(data, mapping = ggplot2::aes_string(x = "long", y = "lat", group = "group"))
```

Arguments

data  

data frame with longitude, latitude and group coordinates of a territory (polygons)

mapping

Aesthetic mappings, as character strings (`link{ggplot2::aes_string}`). Defaults are `x = "long", y = "lat"` and `group = "group"` (these work with every element of the list `shp_df` of `ggswissmaps`)

Examples

data(shp_df)
maps2_(data = shp_df[[1]])
A list with 8 data frames of swiss territory boundaries, at various levels.

Every element of the list is a data frame, which can be used with `ggplot2`.

A list with 8 data frames with swiss territory boundaries (at various levels).

Columns are not all the same across data frames, but usually they have the following in common:
- long. Longitude coordinate (x)
- lat. Latitude coordinate (y)
- group. A factor to be used to plot the polygons correctly (with `ggplot2`)

Source
http://www.bfs.admin.ch/bfs/portal/fr/index/dienstleistungen/geostat/datenbeschreibung.html

Examples
```r
data(shp_df)
class(shp_df)
length(shp_df)
names(shp_df)
str(shp_df[["g1k15"]])
```

<table>
<thead>
<tr>
<th>theme_white_f</th>
<th>theme_white_f is a <code>ggplot2</code> theme function that can be added to a <code>ggplot2</code> object to eliminate axes, ticks and put white background</th>
</tr>
</thead>
</table>

Description

`theme_white_f` is a `ggplot2` theme function that can be added to a `ggplot2` object to eliminate axes, ticks and put white background

Usage
```
theme_white_f(base_size = 12, base_family = "")
```
### Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>base_size</td>
<td>base font size</td>
</tr>
<tr>
<td>base_family</td>
<td>base font family</td>
</tr>
</tbody>
</table>
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