Package ‘ggswissmaps’

October 29, 2016

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
Author Sandro Petrillo Burri [aut, cre],
Eric Stephani [aut],
Lisa Bottinelli [ctb]
Maintainer Sandro Petrillo Burri <gibo.gaf@gmail.com>
Repository CRAN
Date/Publication 2016-10-29 10:48:24

R topics documented:

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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]]

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

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]])
shp_df

A list with 8 data frames of swiss territory boundaries, at various levels.

Description

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

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

Examples

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

theme_white_f

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

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

```r
theme_white_f(base_size = 12, base_family = "")
```
Arguments

base_size  base font size
base_family  base font family
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