# 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

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**Repository** CRAN

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## R topics documented:

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| ggswissmaps | *Offers various swiss maps as data frames and 'ggplot2' objects.* |
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### 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")`).

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| maps2 | *A list with 8 'ggplot2' objects of swiss territory boundaries, at various levels.* |
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### 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](http://www.bfs.admin.ch/bfs/portal/fr/index/dienstleistungen/geostat/datenbeschreibung.html)

## Examples

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

# By name
maps2[["g1k15"]]

# By index
maps2[[5]]
```

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| maps2_ | *Prepares the base of a map, starting from a data frame with longitude (long) and latitude (lat) coordinates, as a 'ggplot2' object* |

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## 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]])
```

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| shp_df | *A list with 8 data frames of swiss territory boundaries, at various levels.* |
|---|---|

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## 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](http://www.bfs.admin.ch/bfs/portal/fr/index/dienstleistungen/geostat/datenbeschreibung.html)

## Examples

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

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| 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* |
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## 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

| | |
|---|---|
| `base_size` | base font size |
| `base_family` | base font family |

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