

# Package ‘ggswissmaps’

September 20, 2016

**Title** Offers Various Swiss Maps as ggplot2 Objects

**Description** Offers various swiss maps as 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** 0.0.9

**License** GPL-2

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

**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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ggswissmaps	<i>Offers various swiss maps as ggplot2 objects.</i>
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### Description

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

### Details

There are only two objects in package **ggswissmaps**: `theme_white` (for white background of ggplot2 objects) and `maps` (a list of 8 swiss maps).

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maps2	<i>A list with 16 ggplot2 objects of swiss territory boundaries, at various levels.</i>
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### Description

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

### Format

A list with 16 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**

```

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

# By name
maps2[["g1k15"]]

# By index
maps2[[5]]

```

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maps2_	<i>Prepares the base of a map, starting from a data frame with longitude (long) and latitude (lat) coordinates, as a ggplot2 object</i>
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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	<i>A list with 16 data frames of swiss territory boundaries, at various levels.</i>
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### Description

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

### Format

A list with 16 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

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

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theme_white	<i>theme_white is a ggplot2 theme object and can be added to a ggplot2 object to eliminate axes, ticks and put white background</i>
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### Description

theme\_white is a ggplot2 theme object and can be added to a ggplot2 object to eliminate axes, ticks and put white background

### Usage

```
theme_white
```

**Format**

An object of class theme (inherits from gg) of length 8.

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