

# Package: ggswissmaps (via r-universe)

September 3, 2024

**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. In addition to the `{maps2}` object (a list of 8 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).

**Version** 0.1.2

**License** GPL-2

**URL** <https://github.com/gibonet/ggswissmaps>

**Depends** R (>= 2.14)

**Imports** utils, ggplot2 (>= 2.0.0)

**Suggests** dplyr, sf, knitr, rmarkdown

**VignetteBuilder** knitr

**LazyData** yes

**RoxygenNote** 7.3.1

**Encoding** UTF-8

**Repository** <https://gibonet.r-universe.dev>

**RemoteUrl** <https://github.com/gibonet/ggswissmaps>

**RemoteRef** HEAD

**RemoteSha** 5041f7cefb8cfc28ae2ad07171dcf1c0981bea0a

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maps2	<i>A list with 8 '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.

## 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

<https://www.bfs.admin.ch/bfs/fr/home/services/geostat/geodonnees-statistique-federale/limites-administratives/limites-communales-generalisees.html>. Download date: 2015-08-18

## 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"),
  caption = "Boundaries: BFS GEOSTAT / swisstopo"
)
```

### Arguments

data	data frame with longitude, latitude and group coordinates of a territory (polygons)
mapping	Aesthetic mappings, as character strings ( <code>link{ggplot2::aes_string}</code> ). Defaults are <code>x = "long"</code> , <code>y = "lat"</code> and <code>group = "group"</code> (these work with every element of the list <code>shp_df</code> of <code>ggswissmaps</code> )
caption	text to include in the lower right corner of the map (default: "Boundaries: BFS GEOSTAT / swisstopo")

### Examples

```
data(shp_df)
maps2_(data = shp_df[[1]])
```

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shp_df	<i>A list with 8 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 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

<https://www.bfs.admin.ch/bfs/fr/home/services/geostat/geodonnees-statistique-federale/limites-administratives/limites-communales-generalisees.html>. Download date: 2015-08-18

## Examples

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

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shp\_sf

*A list with 8 'sf' objects of swiss territory boundaries, at various levels.*

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## Description

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

## Format

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

## Details

Every 'sf' data frame has a column "geometry", which is a list-column containing the boundaries of the polygons.

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

## Source

<https://www.bfs.admin.ch/bfs/fr/home/services/geostat/geodonnees-statistique-federale/limites-administratives/limites-communales-generalisees.html>. Download date: 2015-08-18

**Examples**

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

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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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## \* datasets

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