Access Eurostat data with eurostat :: cheat sheet

Search and download

Data in the Eurostat database is stored in tables. Each table has an identifier, a short table_code, and a description (e.g. tps00165 - Death due to transport accidents, by sex).

Key eurostat functions allow to find the table_code, download the eurostat table and polish labels in the table.

Find the table code

The **search_eurostat(pattern,...)** function scans the directory of Eurostat tables and returns codes and descriptions of tables that match pattern.

Download the table

The get_eurostat(id, time_format = "date", filters = "none", type = "code", cache = TRUE,...) function downloads the requested table from the Eurostat bulk download facility or from The Eurostat Web Services JSON API (if filters are defined). Downloaded data is cached (if cache=TRUE). Additional arguments define how to read the time column (time_format) and if table dimensions shall be kept as codes or converted to labels (type).

```
dat <- get_eurostat(id="tps00199",</pre>
                    time format="num")
dat[1:3,]
## indic de geo
                   time values
## <fct>
            <fct> <dbl>
                         <dbl>
## TOTFERRT AD
                   2006
                          1.24
## TOTFERRT AL
                   2006
                          1.67
## TOTFERRT AM
                   2006
                         1.34
```

Add labels

The label_eurostat(x, lang = "en", ...) gets definitions for Eurostat codes and replace them with labels in given language ("en", "fr" or "de")

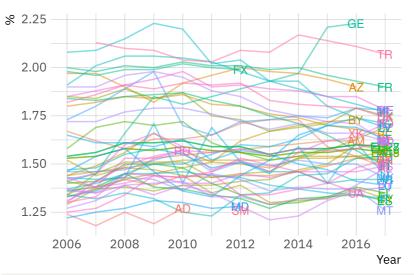
```
dat <- label eurostat(dat)</pre>
dat[1:3,]
## indic_de
                                  time values
                                 <dbl>
                                        <dbl>
## <fct>
                         <fct>
## Total fertility rate Andorra
                                 2006
                                         1.24
## Total fertility rate Albania
                                  2006
                                         1.67
## Total fertility rate Armenia
                                         1.34
```



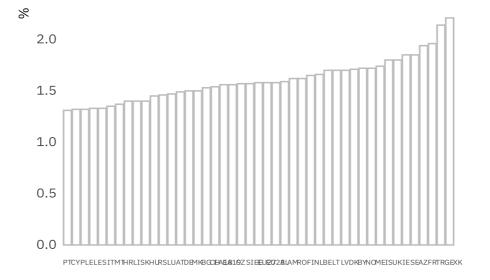
eurostat and plots

The **get_eurostat()** function returns tibbles in the long format. Packages dplyr and tidyr are well suited to transform these objects. The **ggplot2** -package is well suited to plot these objects.

Total fertility rate



Total fertility rate, 2015



eurostat and maps

There are two function to work with geospatial data from GISCO. The **get_eurostat_geospatial()** returns spatial data as sf-object.

Object can me merged with data.frames using **dplyr::*_join()**-functions. The **cut_to_classes()** is a wrapper for cut() - function and is used for categorizing data for maps with tidy labels.

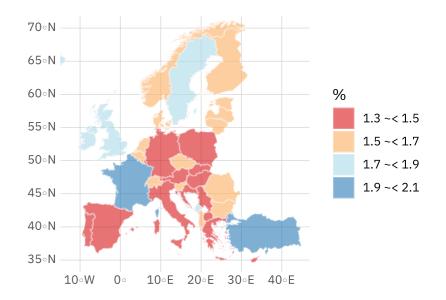
Plot a Map

The **sf**-object returned are ready to be plotted with **ggplot::geom_sf()**-function.

```
ggplot(mapdata, aes(fill = cat)) +
   scale_fill_brewer(palette = "RdYlBu") +
   geom_sf(color = alpha("white",1/3), alpha = .6) +
   theme_ipsum_ps(plot_title_size = 10, subtitle_size = 8) +
   xlim(c(-12,44)) + ylim(c(35,70)) +
   labs(title = "Total fertility rate, 2015",
        subtitle = "Avg. number of life births per woman",
        fill = "%")
```

Total fertility rate, 2015

Avg. number of life births per woman



This onepager presents the eurostat package Leo Lahti, Janne Huovari, Markus Kainu, Przemyslaw Biecek 2014-2019 package version 3.3.55 URL: https://github.com/rOpenGov/eurostat

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