

Package ‘eurostat’

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Type Package

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Description Tools to download data from the Eurostat database
<<http://ec.europa.eu/eurostat>> together with search and
manipulation utilities.

License BSD_2_clause + file LICENSE

Depends dplyr, methods, R (>= 3.4.0)

Imports broom, classInt, curl, httr, jsonlite, RColorBrewer, sp,
stringi, stringr, tibble, sf, tidyr, readr

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rmarkdown, roxygen2, rsdmx, rvest, testthat, tmap

LazyData true

URL <https://ropengov.github.io/eurostat>

BugReports <https://github.com/ropengov/eurostat/issues>

VignetteBuilder knitr

NeedsCompilation no

Repository CRAN

RoxygenNote 6.0.1

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R topics documented:

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| eurostat-package | <i>R Tools for Eurostat open data</i> |
|------------------|---------------------------------------|

Description

Brief summary of the eurostat package

Details

Package: eurostat
Type: Package
Version: See sessionInfo() or DESCRIPTION file
Date: 2014-2017
License: BSD_2_clause + LICENSE
LazyLoad: yes

R Tools for Eurostat Open Data

Author(s)

Leo Lahti, Janne Huovari, Markus Kainu, Przemyslaw Biecek <ropengov-forum@googlegroups.com>
<https://ropengov.github.io/eurostat>

References

See citation("eurostat") <https://ropengov.github.io/eurostat>

Examples

```
library(eurostat)
```

| | |
|----------------------|-----------------------------|
| clean_eurostat_cache | <i>Clean Eurostat Cache</i> |
|----------------------|-----------------------------|

Description

Delete all .rds files from the eurostat cache directory. See [get_eurostat](#) for more on cache.

Usage

```
clean_eurostat_cache(cache_dir = NULL)
```

Arguments

cache_dir A path to cache directory. If NULL (default) tries to clean default temporary cache directory.

Author(s)

Przemyslaw Biecek, Leo Lahti, Janne Huovari and Markus Kainu <ropengov-forum@googlegroups.com>
<http://github.com/ropengov/eurostat>

Examples

```
clean_eurostat_cache()
```

| | |
|----------------|--|
| cut_to_classes | <i>Cuts the Values Column into Classes and Polishes the Labels</i> |
|----------------|--|

Description

Categorises a numeric vector into automatic or manually defined categories. and polishes the labels ready for used in mapping with `merge_with_geodata` function and `ggplot2`.

Usage

```
cut_to_classes(x, n = 5, style = "equal", manual = FALSE,  
  manual_breaks = NULL, decimals = 0, nodata_label = "No data")
```

Arguments

| | |
|---------------|---|
| x | A numeric vector, eg. values variable in data returned by <code>get_eurostat</code> |
| n | A numeric. number of classes/categories |
| style | Chosen style: one of "fixed", "sd", "equal", "pretty", "quantile", "kmeans", "hclust", "bclust", "fisher", or "jenks" |
| manual | Logical. If manual breaks are being used |
| manual_breaks | Numeric vector with manual threshold values |
| decimals | Number of decimals to include with labels |
| nodata_label | String. Text label for NA category. |

Value

a factor.

Author(s)

Markus Kainu <markuskainu@gmail.com>

Examples

```
## Not run:
lp <- get_eurostat("nama_aux_lp")
lp$class <- cut_to_classes(lp$values, n=5, style="equal", decimals=1)

## End(Not run)
```

dic_order

Order of Variable Levels from Eurostat Dictionary.

Description

Orders the factor levels.

Usage

```
dic_order(x, dic, type)
```

Arguments

| | |
|------|---|
| x | a variable (code or labelled) to get order for. |
| dic | a name of the dictionary. Correspond a variable name in the data_frame from get_eurostat . Can be also data_frame from get_eurostat_dic . |
| type | a type of the x. Could be code or label. |

Details

Some variables, like classifications, have logical or conventional ordering. Eurostat data tables are not necessarily ordered in this order. The function `dic_order` gets the ordering from Eurostat classifications dictionaries. The function `label_eurostat` can also order factor levels of labels with argument `eu_order = TRUE`.

Value

A numeric vector of orders.

Author(s)

Przemyslaw Biecek, Leo Lahti, Janne Huovari and Markus Kainu <ropengov-forum@googlegroups.com>
<http://github.com/ropengov/eurostat>

| | |
|---------------------|---|
| eurostat_geodata_60 | <i>Geospatial data of Europe from Gisco in 1:60 million scale</i> |
|---------------------|---|

Description

Geospatial data of Europe from Gisco in 1:60 million scale

Usage

```
eurostat_geodata_60
```

Format

`sf`

id Country code in the Eurostat database

CNTRY_CODE Country code

NUTS_NAME NUTS name in local language

LEVL_CODE NUTS code

FID Country code

NUTS_ID NUTS code

geo NUTS code

geometry geospatial information

Source

<http://ec.europa.eu/eurostat/web/gisco/geodata/reference-data/administrative-units-statistical-units>

eurotime2date

*Date Conversion from Eurostat Time Format***Description**

Date conversion from Eurostat time format. A function to convert Eurostat time values to objects of class `Date` representing calendar dates.

Usage

```
eurotime2date(x, last = FALSE)
```

Arguments

| | |
|-------------------|---|
| <code>x</code> | a character string with time information in Eurostat time format. |
| <code>last</code> | a logical. If <code>FALSE</code> (default) the date is the first date of the period (month, quarter or year). If <code>TRUE</code> the date is the last date of the period. |

Value

an object of class `Date`.

Author(s)

Janne Huovari <janne.huovari@ptt.fi>

Examples

```
## Not run:
na_q <- get_eurostat("namq_10_pc", time_format = "raw")
na_q$time <- eurotime2date(x = na_q$time)

un <- get_eurostat("une_rt_m", time_format = "raw")
un$time <- eurotime2date(x = un$time)

na_a <- get_eurostat("nama_10_pc", time_format = "raw")
na_a$time <- eurotime2date(x = na_a$time)

eur_d <- get_eurostat("ert_bil_eur_d", time_format = "raw")
eur_d$time <- eurotime2date(x = eur_d$time)

## End(Not run)
```

eurotime2num*Conversion of Eurostat Time Format to Numeric*

Description

A conversion of a Eurostat time format to numeric.

Usage

```
eurotime2num(x)
```

Arguments

x a character string with time information in Eurostat time format.

Details

Bi-annual, quarterly and monthly data is presented as fraction of the year in beginning of the period.
Conversion of daily data is not supported.

Value

see [as.numeric](#).

Author(s)

Janne Huovari <janne.huovari@ptt.fi>

Examples

```
## Not run:
na_q <- get_eurostat("namq_10_pc", time_format = "raw")
na_q$time <- eurotime2num(x = na_q$time)

un <- get_eurostat("une_rt_m", time_format = "raw")
un$time <- eurotime2num(x = un$time)

na_a <- get_eurostat("nama_10_pc", time_format = "raw")
na_a$time <- eurotime2num(x = na_a$time)

## End(Not run)
```

| | |
|--------------|------------------------------------|
| eu_countries | <i>Countries and Country Codes</i> |
|--------------|------------------------------------|

Description

Countries and country codes in EU, Euro area, EFTA and EU candidate countries.

Usage

```
eu_countries
ea_countries
efta_countries
eu_candidate_countries
```

Format

A data_frame:

code Country code in the Eurostat database

name Country name in English

Source

http://ec.europa.eu/eurostat/statistics-explained/index.php/Tutorial:Country_codes_and_protocol_order, http://ec.europa.eu/eurostat/statistics-explained/index.php/Glossary:Euro_area

| | |
|--------------|---------------------------|
| get_eurostat | <i>Read Eurostat Data</i> |
|--------------|---------------------------|

Description

Download data sets from Eurostat ec.europa.eu/eurostat.

Usage

```
get_eurostat(id, time_format = "date", filters = "none", type = "code",
  select_time = NULL, cache = TRUE, update_cache = FALSE,
  cache_dir = NULL, compress_file = TRUE,
  stringsAsFactors = default.stringsAsFactors(), keepFlags = FALSE, ...)
```


Arguments

| | |
|------------------|--|
| id | A code name for the dataset of interest. See search_eurostat or details for how to get code. |
| time_format | a string giving a type of the conversion of the time column from the eurostat format. A "date" (default) converts to a Date with a first date of the period. A "date_last" converts to a Date with a last date of the period. A "num" converts to a numeric and "raw" does not do conversion. See eurotime2date and eurotime2num . |
| filters | a "none" (default) to get a whole dataset or a named list of filters to get just part of the table. Names of list objects are Eurostat variable codes and values are vectors of observation codes. If NULL the whole dataset is returned via API. More on details. See more on filters and limitations per query via API from get_eurostat_json . |
| type | A type of variables, "code" (default) or "label". |
| select_time | a character symbol for a time frequency or NULL, which is used by default as most datasets have just one time frequency. For datasets with multiple time frequencies, select the desired time format with: Y = annual, S = semi-annual, Q = quarterly, M = monthly. For all frequencies in same data frame time_format = "raw" should be used. |
| cache | a logical whether to do caching. Default is TRUE. Affects only queries from the bulk download facility. |
| update_cache | a logical whether to update cache. Can be set also with options(eurostat_update = TRUE) |
| cache_dir | a path to a cache directory. The directory have to exist. The NULL (default) uses and creates 'eurostat' directory in the temporary directory from tempdir . Directory can also be set with option eurostat_cache_dir. |
| compress_file | a logical whether to compress the RDS-file in caching. Default is TRUE. |
| stringsAsFactors | if TRUE (the default) variables are converted to factors in original Eurostat order. If FALSE they are returned as a character. |
| keepFlags | a logical whether the flags (e.g. "confidential", "provisional") should be kept in a separate column or if they can be removed. Default is FALSE. For flag values see: http://ec.europa.eu/eurostat/data/database/information . Also possible non-real zero "0n" is indicated in flags column. Flags are not available for eurostat API, so keepFlags can not be used with a filters. |
| ... | further argument for get_eurostat_json . |

Details

Data sets are downloaded from [the Eurostat bulk download facility](#) or from The Eurostat Web Services [JSON API](#). If only the table id is given, the whole table is downloaded from the bulk download facility. If also filters are defined the JSON API is used.

The bulk download facility is the fastest method to download whole datasets. It is also often the only way as the JSON API has limitation of maximum 50 sub-indicators at time and whole datasets

| | |
|------------------|-------------------------------------|
| get_eurostat_dic | <i>Download Eurostat Dictionary</i> |
|------------------|-------------------------------------|

Description

Download a Eurostat dictionary.

Usage

```
get_eurostat_dic(dictname, lang = "en")
```

Arguments

| | |
|----------|--|
| dictname | A character, dictionary for the variable to be downloaded. |
| lang | A character, language code. Options: "en" (default) / "fr" / "de". |

Details

For given coded variable from Eurostat ec.europa.eu/eurostat. The dictionaries link codes with human-readable labels. To translate codes to labels, use [label_eurostat](#).

Value

tibble with two columns: code names and full names.

Author(s)

Przemyslaw Biecek and Leo Lahti <leo.lahti@iki.fi>. Thanks to Wietse Dol for contributions.

References

See `citation("eurostat")`.

See Also

[label_eurostat](#), [get_eurostat](#), [search_eurostat](#).

Examples

```
## Not run:
  tmp <- get_eurostat_dic("crop_pro")
  head(tmp)
  tmp <- get_eurostat_dic("crop_pro", lang = "fr")

## End(Not run)
```

get_eurostat_geospatial

Download Geospatial Data from GISGO

Description

Downloads either a simple features (sf), SpatialPolygonDataFrame or a data_frame preprocessed using `broom::tidy()`.

Usage

```
get_eurostat_geospatial(output_class = "sf", resolution = "60",
  nuts_level = "all", cache = TRUE, update_cache = FALSE,
  cache_dir = NULL)
```

Arguments

| | |
|--------------|---|
| output_class | A string. Class of object returned, either sf simple features, df (data_frame) or spdf (SpatialPolygonDataFrame) |
| resolution | Resolution of the geospatial data. One of "60" (1:60million), "20" (1:20million), "10" (1:10million), "01" (1:1million). |
| nuts_level | Level of NUTS classification of the geospatial data. One of "0", "1", "2", "3" or "all" (mimics the original behaviour) |
| cache | a logical whether to do caching. Default is TRUE. Affects only queries from the bulk download facility. |
| update_cache | a logical whether to update cache. Can be set also with <code>options(eurostat_update = TRUE)</code> |
| cache_dir | a path to a cache directory. The directory have to exist. The NULL (default) uses and creates 'eurostat' directory in the temporary directory from <code>tempdir</code> . Directory can also be set with option <code>eurostat_cache_dir</code> . |

Details

The data source URL is <http://ec.europa.eu/eurostat/web/gisco/geodata/reference-data/administrative-units-statistical-units>.

Value

a sf, data_frame or SpatialPolygonDataFrame.

Author(s)

Markus Kainu <markuskainu@gmail.com>

Examples

```
## Not run:
lp <- get_eurostat_geospatial(output_class = "sf", resolution = "60", nuts_level = "all")
lp %>% select(NUTS_ID) %>% plot()
lp <- get_eurostat_geospatial(output_class = "spdf", resolution = "60", nuts_level = "all")
spplot(lp, "STAT_LEVL_")
# or
lp <- get_eurostat_geospatial(output_class = "df", resolution = "60", nuts_level = "all")
ggplot(lp, aes(x=long,y=lat,group=group,fill=STAT_LEVL_,color="white")) + geom_polygon()

## End(Not run)
```

get_eurostat_json

Get Data from Eurostat API in JSON

Description

Retrieve data from Eurostat API in JSON format.

Usage

```
get_eurostat_json(id, filters = NULL, type = c("code", "label", "both"),
  lang = c("en", "fr", "de"), stringsAsFactors = default.stringsAsFactors(),
  ...)
```

Arguments

| | |
|------------------|---|
| id | A code name for the dataset of interested. See the table of contents of eurostat datasets for more details. |
| filters | A named list of filters. Names of list objects are Eurostat variable codes and values are vectors of observation codes. If NULL (default) the whole dataset is returned. See details for more on filters and limitations per query. |
| type | A type of variables, "code" (default), "label" or "both". The "both" will return a data_frame with named vectors, labels as values and codes as names. |
| lang | A language used for metadata (en/fr/de). |
| stringsAsFactors | if TRUE (the default) variables are converted to factors in original Eurostat order. If FALSE they are returned as a character. |
| ... | Other arguments passed on to GET . For example a proxy parameters, see details. |

Details

Data to retrieve from [The Eurostat Web Services](#) can be specified with filters. Normally, it is better to use JSON query through `get_eurostat`, than to use `get_eurostat_json` directly.

Queries are limited to 50 sub-indicators at a time. A time can be filtered with fixed "time" filter or with "sinceTimePeriod" and "lastTimePeriod" filters. A `sinceTimePeriod = 2000` returns observations from 2000 to a last available. A `lastTimePeriod = 10` returns a 10 last observations.

To use a proxy to connect, a `use_proxy` can be passed to `GET`. For example `get_eurostat_json(id, filters, config = h`

Value

A dataset as a `data_frame`.

Author(s)

Przemyslaw Biecek, Leo Lahti, Janne Huovari and Markus Kainu <ropengov-forum@googlegroups.com>
<http://github.com/ropengov/eurostat>

Examples

```
## Not run:
tmp <- get_eurostat_json("cdh_e_fos")
yy <- get_eurostat_json(id = "nama_gdp_c", filters = list(geo=c("EU28", "FI"),
                                                         unit="EUR_HAB",
                                                         indic_na="B1GM"))

## End(Not run)
```

`get_eurostat_raw`

Download Data from Eurostat Database

Description

Download data from the eurostat database.

Usage

```
get_eurostat_raw(id)
```

Arguments

| | |
|-----------------|---|
| <code>id</code> | A code name for the dataset of interested. See the table of contents of eurostat datasets for more details. |
|-----------------|---|

Details

Data is downloaded from <http://ec.europa.eu/eurostat/estat-navtree-portlet-prod/BulkDownloadListing> and transformed into tabular format.

Value

A dataset in tibble format. First column contains comma separated codes of cases. Other columns usually corresponds to years and column names are years with preceding X. Data is in character format as it contains values together with eurostat flags for data.

Author(s)

Przemyslaw Biecek, Leo Lahti and Janne Huovari <ropengov-forum@googlegroups.com>

References

see citation("eurostat")

See Also

[get_eurostat.](#)

Examples

```
## Not run:
  tmp <- eurostat::get_eurostat_raw("educ_iste")
  head(tmp)

## End(Not run)
```

get_eurostat_toc

Download Table of Contents of Eurostat Data Sets

Description

Download table of contents (TOC) of eurostat datasets.

Usage

```
get_eurostat_toc()
```

Details

The TOC is downloaded from http://ec.europa.eu/eurostat/estat-navtree-portlet-prod/BulkDownloadListing?sort=1&file=table_of_contents_en.txt. The values in column 'code' should be used to download a selected dataset.

Value

A tibble with eight columns

- title The name of dataset of theme
- code The codename of dataset of theme, will be used by the eurostat and get_eurostat_raw functions.
- type Is it a dataset, folder or table.
- last.update.of.data, last.table.structure.change, data.start, data.end Dates.

Author(s)

Przemyslaw Biecek and Leo Lahti <ropengov-forum@googlegroups.com>

References

See citation("eurostat").

See Also

[get_eurostat](#), [search_eurostat](#).

Examples

```
## Not run: tmp <- get_eurostat_toc(); head(tmp)
```

harmonize_country_code

Harmonize Country Code

Description

The European Commission and the Eurostat generally uses ISO 3166-1 alpha-2 codes with two exceptions: EL (not GR) is used to represent Greece, and UK (not GB) is used to represent the United Kingdom. This function turns country codes into to ISO 3166-1 alpha-2.

Usage

```
harmonize_country_code(x)
```

Arguments

x A character or a factor vector of eurostat countycodes.

Value

a vector.

Author(s)

Janne Huovari <janne.huovari@ptt.fi>

Examples

```
## Not run:
lp <- get_eurostat("nama_aux_lp")
lp$geo <- harmonize_country_code(lp$geo)

## End(Not run)
```

label_eurostat

Get Eurostat Codes

Description

Get definitions for Eurostat codes from Eurostat dictionaries.

Usage

```
label_eurostat(x, dic = NULL, code = NULL, eu_order = FALSE,
  lang = "en", fix_duplicated = FALSE)
```

```
label_eurostat_vars(x, lang = "en")
```

```
label_eurostat_tables(x, lang = "en")
```

Arguments

| | |
|----------------|---|
| x | A character or a factor vector or a data_frame. |
| dic | A string (vector) naming eurostat dictionary or dictionaries. If NULL (default) dictionary names taken from column names of the data_frame. |
| code | For data_frames names of the column for which also code columns should be retained. The suffix "_code" is added to code column names. |
| eu_order | Logical. Should Eurostat ordering used for label levels. Affects only factors. |
| lang | A character, code for language. Available are "en" (default), "fr" and "de". |
| fix_duplicated | A logical. If TRUE, the code is added to the duplicated label values. If FALSE (default) error is given if labelling produce duplicates. |

Details

A character or a factor vector of codes returns a corresponding vector of definitions. label_eurostat labels also data_frames from [get_eurostat](#). For vectors a dictionary name have to be supplied. For data_frames dictionary names are taken from column names. "time" and "values" columns are returned as they were, so you can supply data_frame from [get_eurostat](#) and get data_frame with definitions instead of codes.

Some Eurostat dictionaries includes duplicated labels. By default duplicated labels cause an error, but they can be fixed automatically with `fix_duplicated = TRUE`.

Value

a vector or a data_frame.

Functions

- label_eurostat_vars: Get definitions for variable (column) names. For objects other than characters or factors definitions are get for names.
- label_eurostat_tables: Get definitions for table names

Author(s)

Janne Huovari <janne.huovari@ptt.fi>

Examples

```
## Not run:
lp <- get_eurostat("nama_aux_lp")
lp1 <- label_eurostat(lp)
str(lp1)
lp1_order <- label_eurostat(lp, eu_order = TRUE)
lp1_code <- label_eurostat(lp, code = "unit")
label_eurostat_vars(names(lp))
label_eurostat_tables("nama_aux_lp")

## End(Not run)
```

search_eurostat

Grep Datasets Titles from Eurostat

Description

Lists names of dataset from eurostat with the particular pattern in the description.

Usage

```
search_eurostat(pattern, type = "dataset", fixed = TRUE)
```

```
grepEurostatTOC(pattern, type = "dataset")
```

Arguments

| | |
|---------|--|
| pattern | Character, datasets, folder or tables with this pattern in the description will be returned (depending on the 'type' argument) |
| type | Grep the Eurostat table of contents either for 'dataset' (default), 'folder', 'table' or "all" (for all types). |
| fixed | logical. If TRUE, pattern is a string to be matched as is. Change to FALSE if more complex regex matching is needed. |

Details

Downloads list of all datasets available on eurostat and return list of names of datasets that contains particular pattern in the dataset description. E.g. all datasets related to education of teaching.

Value

A tibble with eight columns

- title The name of dataset of theme
- code The codename of dataset of theme, will be used by the `get_eurostat` and `get_eurostat_raw` functions.
- type Is it a dataset, folder or table.
- last.update.of.data, last.table.structure.change, data.start, data.end Dates.

Functions

- `grepEurostatTOC`: Old deprecated version

Author(s)

Przemyslaw Biecek and Leo Lahti <ropengov-forum@googlegroups.com>

References

See `citation("eurostat")`

See Also

[get_eurostat](#), [get_eurostat_toc](#)

Examples

```
## Not run:
tmp <- search_eurostat("education")
head(tmp)
# Use "fixed = TRUE" when pattern has characters that would need escaping.
# Here, parentheses would normally need to be escaped in regex
tmp <- search_eurostat("Live births (total) by NUTS 3 region", fixed = TRUE)

## End(Not run)
```

tgs00026

Auxiliary Data

Description

Auxiliary Data Sets

Usage

tgs00026

Format

data_frame

Details

Retrieved with: `tgs00026 <- get_eurostat("tgs00026", time_format = "raw")`

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