Package 'essurvey'

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Title Download Data from the European Social Survey on the Fly

Version 1.0.2

BugReports https://github.com/ropensci/essurvey/issues

Description Download data from the European Social Survey directly from their website http://www.europeansocialsurvey.org/. There are two families of functions that allow you to download and interactively check all countries and rounds available.

Depends R (>= 3.4.0)

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URL https://github.com/ropensci/essurvey,

https://ropensci.github.io/essurvey/

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Suggests testthat, knitr, rmarkdown, covr

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Description

Download integrated rounds separately for countries from the European Social Survey

Usage

```
import_country(country, rounds, ess_email = NULL, format = "stata")
import_all_cntrounds(country, ess_email = NULL, format = "stata")
download_country(country, rounds, ess_email = NULL, output_dir = getwd(), format = "stata")
```

Arguments

country	a character of length 1 with the full name of the country. Use show_countries for a list of available countries.
rounds	a numeric vector with the rounds to download. See show_rounds for all available rounds.
ess_email	a character vector with your email, such as "your_email@email.com". If you haven't registered in the ESS website, create an account at http://www.europeansocialsurvey.org/user/new . A preferred method is to login through set_email.
format	the format from which to download the data. Can either be 'stata', 'spss' or 'sas', with 'stata' as default. When using import_country the data will be downloaded and read in the format specified. For download_country, the data is downloaded from the specified format (only 'spss' and 'stata' supported, see details).

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output_dir

a character vector with the output directory in case you want to only download the files using download_country. Defaults to your working directory. This will be interpreted as a **directory** and not a path with a file name.

Details

Use import_country to download specified rounds for a given country and import them to R. import_all_cntrounds will download all rounds for a given country by default and download_country will download rounds and save them in a specified format in the supplied directory.

The format argument from import_country should not matter to the user because the data is read into R either way. However, different formats might have different handling of the encoding of some questions. This option was preserved so that the user can switch between formats if any encoding errors are found in the data. For more details see the discussion here. For this particular argument, 'sas' is not supported because the data formats have changed between ESS waves and separate formats require different functions to be read. To preserve parsimony and format errors between waves, the user should use 'spss' or 'stata'.

Value

for import_country if length(rounds) is 1, it returns a tibble with the latest version of that round. Otherwise it returns a list of length(rounds) containing the latest version of each round. For download_country, if output_dir is a valid directory, it returns the saved directories invisibly and saves all the rounds in the chosen format in output_dir

```
## Not run:
set_email("your_email@email.com")
# Get first three rounds for Denmark
dk_three <- import_country("Denmark", 1:3)</pre>
# Only download the files, this will return nothing
temp_dir <- tempdir()</pre>
download_country(
 "Turkey",
 rounds = c(2, 4),
output_dir = temp_dir
# By default, download_country downloads 'stata' files but
# you can also download 'spss' or 'sas' files.
download_country(
 "Turkey",
 rounds = c(2, 4),
 output_dir = temp_dir,
 format = 'spss'
```

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```
)
# If email is not registered at ESS website, error will arise
uk_one <- import_country("United Kingdom", 5, "wrong_email@email.com")</pre>
# Error in authenticate(ess_email) :
# The email address you provided is not associated with any registered user.
# Create an account at http://www.europeansocialsurvey.org/user/new
# If selected rounds don't exist, error will arise
czech_two <- import_country("Czech Republic", c(1, 22))</pre>
# Error in ess_country_url(country, rounds) :
# Only rounds ESS1, ESS2, ESS4, ESS5, ESS6, ESS7, ESS8 available
# for Czech Republic
## End(Not run)
```

import_rounds

Download integrated rounds from the European Social Survey

Description

Download integrated rounds from the European Social Survey

Usage

```
import_rounds(rounds, ess_email = NULL, format = "stata")
import_all_rounds(ess_email = NULL, format = "stata")
download_rounds(rounds, ess_email = NULL, output_dir = getwd(),
 format = "stata")
```

Arguments

rounds	a numeric vector with the rounds to download. See show_rounds for all available rounds.
ess_email	a character vector with your email, such as "your_email@email.com". If you haven't registered in the ESS website, create an account at http://www.europeansocialsurvey.org/user/new. A preferred method is to login through set_email.
format	the format from which to download the data. Can either be 'stata', 'spss' or 'sas', with 'stata' as default. When using import_rounds the data will be downloaded and read in the format specified (only 'spss' and 'stata' supported, see details). For download_rounds, the data is downloaded from the specified format.
output_dir	a character vector with the output directory in case you want to only download the files using the download_rounds. Defaults to your working directory. This

will be interpreted as a **directory** and not a path with a file name.

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Details

Use import_rounds to download specified rounds and import them to R. import_all_rounds will download all rounds by default and download_rounds will download rounds and save them in a specified format in the supplied directory.

The format argument from import_rounds should not matter to the user because the data is read into R either way. However, different formats might have different handling of the encoding of some questions. This option was preserved so that the user can switch between formats if any encoding errors are found in the data. For more details see the discussion here. For this particular argument in, 'sas' is not supported because the data formats have changed between ESS waves and separate formats require different functions to be read. To preserve parsimony and format errors between waves, the user should use 'spss' or 'stata'.

Value

for import_rounds if length(rounds) is 1, it returns a tibble with the latest version of that round. Otherwise it returns a list of length(rounds) containing the latest version of each round. For download_rounds, if output_dir is a valid directory, it returns the saved directories invisibly and saves all the rounds in the chosen format in output_dir

```
## Not run:
set_email("your_email@email.com")
# Get first three rounds
three_rounds <- import_rounds(1:3)</pre>
temp_dir <- tempdir()</pre>
# Only download the files to output_dir, this will return nothing.
download_rounds(
rounds = 1:3,
output_dir = temp_dir,
# By default, download_rounds saves a 'stata' file. You can
# also download 'spss' and 'sas' files.
download_rounds(
rounds = 1:3,
 output_dir = temp_dir,
 format = 'spss'
# If rounds are repeated, will download only unique ones
two_rounds <- import_rounds(c(1, 1))</pre>
# If email is not registered at ESS website, error will arise
two_rounds <- import_rounds(c(1, 2), "wrong_email@email.com")</pre>
```

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```
# Error in authenticate(ess_email) :
# The email address you provided is not associated with any registered user.
# Create an account at https://www.europeansocialsurvey.org/user/new
# If selected rounds don't exist, error will arise

two_rounds <- import_rounds(c(1, 22))
# Error in ess_round_url(rounds) :
# ESS round 22 is not a available. Check show_rounds()
## End(Not run)</pre>
```

recode_missings

Recode pre-defined missing values as NA

Description

Data from the European Social Survey is always accompanied by a script that recodes the categories 'Not applicable', 'Refusal', 'Don't Know', 'No answer' and 'Not available' to missing. This function recodes these categories to NA

Usage

```
recode_missings(ess_data, missing_codes)
recode_numeric_missing(x, missing_codes)
recode_strings_missing(y, missing_codes)
```

Arguments

ess_data	data frame or tibble with data from the European Social Survey. This data frame should come either from import_rounds, import_country or read with read_dta or read_spss. This is the case because it identifies missing values using labelled classes.
missing_codes	a character vector with values 'Not applicable', 'Refusal', 'Don't Know', 'No answer' or 'Not available'. By default all values are chosen. Note that the wording is case sensitive.
X	a labelled numeric
У	a character vector

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Details

When downloading data directly from the European Social Survey's website, the downloaded .zip file contains a script that recodes some categories as missings in Stata and SPSS formats.

For recoding numeric variables recode_numeric_missings uses the labels provided by the labelled class to delete the labels matched in missing_codes. For the character variables matching is done with the underlying number assigned to each category, namely 6, 7, 8, 9 and 9 for 'Not applicable', Refusal', 'Don't Know', No answer' and 'Not available'.

The functions are a direct translation of the Stata script that comes along when downloading one of the rounds. The Stata script is the same for all rounds and all countries, meaning that these functions work for all rounds.

Value

The same data frame or tibble but with values 'Not applicable', 'Refusal', 'Don't Know', 'No answer' and 'Not available' recoded as NA.

```
## Not run:
seven <- ess_rounds(7, your_email)</pre>
attr(seven$tvtot, "labels")
mean(seven$tvtot, na.rm = TRUE)
names(table(seven$lnghom1))
# First three are actually missing values
seven_recoded <- recode_missings(seven)</pre>
attr(seven_recoded$tvtot, "labels")
# All missings have been removed
mean(seven_recoded$tvtot, na.rm = TRUE)
names(table(seven_recoded$lnghom1))
# All missings have been removed
# If you want to operate on specific variables
# you can use other recode_*_missing
seven$tvtot <- recode_numeric_missing(seven$tvtot)</pre>
# Recode only 'Don't know' and 'No answer' to missing
seven$tvpol <- recode_numeric_missing(seven$tvpol, c("Don't know", "No answer"))</pre>
# The same can be done with recode_strings_missing
## End(Not run)
```

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set_email

Save your ESS email as an environment variable

Description

Save your ESS email as an environment variable

Usage

```
set_email(ess_email)
```

Arguments

ess_email

a character string with your registered email.

Details

You should only run set_email() once and every import_ and download_ function should work fine. Make sure your email is registered at http://www.europeansocialsurvey.org/ before setting the email.

Examples

```
## Not run:
set_email("my_registered@email.com")
ess_country(1)
## End(Not run)
```

show_countries

Return available countries in the European Social Survey

Description

Return available countries in the European Social Survey

Usage

```
show_countries()
```

Value

character vector with available countries

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Examples

```
show_countries()
```

show_country_rounds

Return available rounds for a country in the European Social Survey

Description

Return available rounds for a country in the European Social Survey

Usage

```
show_country_rounds(country)
```

Arguments

country

A character of length 1 with the full name of the country. Use show_countries for a list of available countries.

Value

character vector with available rounds for country

Examples

```
show_country_rounds("Spain")
show_country_rounds("Turkey")
```

show_rounds

Return available rounds in the European Social Survey

Description

Return available rounds in the European Social Survey

Usage

```
show_rounds()
```

Value

numeric vector with available rounds

Examples

```
show_rounds()
```

show_rounds_country

Return countries that participated in **all** of the specified rounds.

Description

Return countries that participated in **all** of the specified rounds.

Usage

```
show_rounds_country(rounds, participate = TRUE)
```

Arguments

rounds A numeric vector specifying the rounds from which to return the countries. Use

show_roundsfor a list of available rounds.

participate A logical that controls whether to show participating countries in that/those

rounds or countries that didn't participate. Set to TRUE by default.

Details

show_rounds_country returns the countries that participated in **all** of the specified rounds. That is, show_rounds_country(1:2) will return countries that participated both in round 1 and round 2. Conversely, if participate = FALSE it will return the countries that did not participate in **both** round 1 and round 2.

Value

A character vector with the country names

```
# Return countries that participated in round 2
show_rounds_country(2)
# Return countries that participated in all rounds
show_rounds_country(1:8)
# Return countries that didn't participate in the first three rounds
show_rounds_country(1:3, participate = FALSE)
```

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show_themes

Return available themes in the European Social Survey

Description

This function returns the available themes in the European Social Survey. However, contrary to show_countries and show_country_rounds, themes can not be downloaded as separate datasets. This and show_theme_rounds serve purely for informative purposes.

Usage

```
show_themes()
```

Value

character vector with available themes

Examples

show_themes()

show_theme_rounds

Return available rounds for a theme in the European Social Survey

Description

This function returns the available rounds for any theme from show_themes. However, contrary to show_country_rounds themes can not be downloaded as separate datasets. This and the show_themes function serve purely for informative purposes.

Usage

```
show_theme_rounds(theme)
```

Arguments

theme

A character of length 1 with the full name of the theme. Use show_themesfor a list of available themes.

Value

character vector with available rounds for country

show_theme_rounds

```
chosen_theme <- show_themes()[3]
# In which rounds was the topic of 'Democracy' asked?
show_theme_rounds(chosen_theme)
# And politics?
show_theme_rounds("Politics")</pre>
```

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