

# Package ‘essurvey’

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**Title** Download Data from the European Social Survey on the Fly

**Version** 1.0.0

**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)

**License** MIT + file LICENSE

**URL** <https://github.com/ropensci/essurvey>,  
<https://ropensci.github.io/essurvey/>

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**VignetteBuilder** knitr

**NeedsCompilation** no

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ess_all_cntrounds	<i>Download all available integrated rounds for a country from the European Social Survey</i>
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---

### Description

This function is deprecated and will be removed in future releases. Use [import\\_all\\_cntrounds](#) instead.

### Usage

```
ess_all_cntrounds(country, ess_email = NULL, only_download = FALSE,
  output_dir = getwd(), format = "stata")
```

### Arguments

country	A character of length 1 with the full name of the country. Use <a href="#">show_countries</a> for a list of available countries.
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 <a href="http://www.europeansocialsurvey.org/user/new">http://www.europeansocialsurvey.org/user/new</a> . A preferred method is to login through <a href="#">set_email</a> .
only_download	whether to only download the files as Stata files. Defaults to FALSE.
output_dir	a character vector with the output directory in case you want to only download the files using the <code>only_download</code> argument. Defaults to your working directory. Files will be saved as ESS_*/ESSN where the first star is the country name and N the round number. This will be interpreted as a <b>directory</b> and not a file name. Files names will be used as folder names, such as <code>./myfile.dta/</code> .

**format** the format from which to download the data. Can either be 'stata', 'spss' or 'sas', with 'stata' as default. When `only_download` is set to TRUE, the data will be downloaded in the format specified. If `only_download` is FALSE, the data is downloaded and read from the specified format (only 'spss' and 'stata' supported, see details).

### Details

If `only_download` is set to FALSE, the data will be read in the format specified in `format`. '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

if `only_download` is set to FALSE it returns a list of `length(rounds)` containing the latest version of each round for the selected country. If `only_download` is set to TRUE and `output_dir` is a valid directory, it returns the saved directories invisibly and saves all the rounds in the chosen format in `output_dir`

### Examples

```
## Not run:

set_email("your@email.com")

# Will return all available rounds for Denmark
ess_all_cntrounds("Denmark")

# Will download all rounds to the directory stored below
# as stata files (set by default) and won't return the rounds
# in R.

dl_dir <- file.path(tempdir(), "denmark/")

ess_all_cntrounds(
  "Denmark",
  only_download = TRUE,
  output_dir = dl_dir
)

## End(Not run)
```

---

ess\_all\_rounds *Download all available integrated rounds from the European Social Survey*

---

## Description

This function is deprecated and will be removed in the next release. Use `import_all_rounds` instead.

## Usage

```
ess_all_rounds(ess_email = NULL, only_download = FALSE,  
              output_dir = getwd(), format = "stata")
```

## Arguments

<code>ess_email</code>	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 <a href="http://www.europeansocialsurvey.org/user/new">http://www.europeansocialsurvey.org/user/new</a> . A preferred method is to login through <code>set_email</code> .
<code>only_download</code>	whether to only download the files as Stata files. Defaults to FALSE.
<code>output_dir</code>	a character vector with the output directory in case you want to only download the files using the <code>only_download</code> argument. Defaults to your working directory. This will be interpreted as a <b>directory</b> and not a file name. Files names will be used as folder names, such as <code>./myfile.dta/</code> .
<code>format</code>	the format from which to download the data. Can either be 'stata', 'spss' or 'sas', with 'stata' as default. When <code>only_download</code> is set to TRUE, the data will be downloaded in the format specified. If <code>only_download</code> is FALSE, the data is downloaded and read from the specified format (only 'spss' and 'stata' supported, see details).

## Details

If `only_download` is set to FALSE, the data will be read in the format specified in `format`. '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

if `only_download` is set to FALSE it returns a list with all the latest rounds. If `only_download` is set to TRUE and `output_dir` is a valid directory, it returns the saved directories invisibly and saves all the rounds in the chosen format in `output_dir`

## Examples

```
## Not run:  
  
set_email("your@email.com")  
  
# Will download all rounds and return a list with each one  
ess_all_rounds()  
  
# Will download all rounds to the directory below
```

```
# as .dta files and won't return the rounds in R.
dl_dir <- file.path(tempdir(), "mydownloads")
ess_all_rounds(only_download = TRUE, output_dir = dl_dir)

## End(Not run)
```

---

ess_country	<i>Download integrated rounds separately for countries from the European Social Survey</i>
-------------	--

---

## Description

This function is deprecated and will be removed in the next release. Use [import\\_country](#) instead.

## Usage

```
ess_country(country, rounds, ess_email = NULL, only_download = FALSE,
            output_dir = getwd(), format = "stata")
```

## Arguments

country	a character of length 1 with the full name of the country. Use <a href="#">show_countries</a> for a list of available countries.
rounds	a numeric vector with the rounds to download. See <a href="#">show_rounds</a> 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 <a href="http://www.europeansocialsurvey.org/user/new">http://www.europeansocialsurvey.org/user/new</a> . A preferred method is to login through <a href="#">set_email</a> .
only_download	whether to only download the files as Stata files. Defaults to FALSE.
output_dir	a character vector with the output directory in case you want to only download the files using the <code>only_download</code> argument. Defaults to your working directory. Files will be saved as ESS_*/ESSN where the first star is the country name and N the round number. This will be interpreted as a <b>directory</b> and not a file name. Files names will be used as folder names, such as <code>./myfile.dta/</code> .
format	the format from which to download the data. Can either be 'stata', 'spss' or 'sas', with 'stata' as default. When <code>only_download</code> is set to TRUE, the data will be downloaded in the format specified. If <code>only_download</code> is FALSE, the data is downloaded and read from the specified format (only 'spss' and 'stata' supported, see details).

## Details

If `only_download` is set to `FALSE`, the data will be read in the format specified in `format`. `'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

if `only_download` is set to `FALSE` and `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. If `only_download` is set to `TRUE` and `output_dir` is a valid directory, it returns the saved directories invisibly and saves all the rounds in the chosen format in `output_dir`

## Examples

```
## Not run:

set_email("your_email@email.com")

# Get first three rounds for Denmark
dk_three <- ess_country("Denmark", 1:3)

# Only download the files, this will return nothing

temp_dir <- tempdir()

ess_country(
  "Turkey",
  rounds = c(2, 4),
  only_download = TRUE,
  output_dir = temp_dir
)

# By default, ess_country downloads 'stata' files but
# you can also download 'spss' or 'sas' files.

# If email is not registered at ESS website, error will arise
uk_one <- ess_country("United Kingdom", 5, "wrong_email@email.com")
# Error in authenticate(your_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 <- ess_country("Czech Republic", c(1, 22))

# Error in ess_country_url(country, rounds) :
# Only rounds ESS1, ESS2, ESS4, ESS5, ESS6, ESS7, ESS8 available
# for Czech Republic
```

```
## End(Not run)
```

---

 ess\_rounds

---

*Download integrated rounds from the European Social Survey*


---

## Description

This function is deprecated and will be removed in future releases. Use [import\\_rounds](#) instead.

## Usage

```
ess_rounds(rounds, ess_email = NULL, only_download = FALSE,
           output_dir = getwd(), format = "stata")
```

## Arguments

rounds	a numeric vector with the rounds to download. See <a href="#">show_rounds</a> 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 <a href="http://www.europeansocialsurvey.org/user/new">http://www.europeansocialsurvey.org/user/new</a> . A preferred method is to login through <a href="#">set_email</a> .
only_download	whether to only download the files as Stata files. Defaults to FALSE.
output_dir	a character vector with the output directory in case you want to only download the files using the <code>only_download</code> argument. Defaults to your working directory. This will be interpreted as a <b>directory</b> and not a file name. Files names will be used as folder names, such as <code>./myfile.dta/</code> .
format	the format from which to download the data. Can either be 'stata', 'spss' or 'sas', with 'stata' as default. When <code>only_download</code> is set to TRUE, the data will be downloaded in the format specified. If <code>only_download</code> is FALSE, the data is downloaded and read from the specified format (only 'spss' and 'stata' supported, see details).

## Details

If `only_download` is set to FALSE, the data will be read in the format specified in `format`. '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

if `only_download` is set to FALSE and `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. If `only_download` is set to TRUE and `output_dir` is a valid directory, it returns the saved directories invisibly and saves all the rounds in the chosen format in `output_dir`

**Examples**

```

## Not run:

set_email("your_email@email.com")

# Get first three rounds
three_rounds <- ess_rounds(1:3)

temp_dir <- tempdir()

# Only download the files to output_dir, this will return nothing.
ess_rounds(
  rounds = 1:3,
  only_download = TRUE,
  output_dir = temp_dir,
)

# By default, ess_rounds saves a 'stata' file. You can
# also download 'spss' and 'sas' files.

ess_rounds(
  rounds = 1:3,
  only_download = TRUE,
  output_dir = temp_dir,
  format = 'spss'
)

# If rounds are repeated, will download only unique ones
two_rounds <- ess_rounds(c(1, 1))

# If email is not registered at ESS website, error will arise

two_rounds <- ess_rounds(c(1, 2), "wrong_email@email.com")

# Error in download_rounds_stata(rounds, ess_email, output_dir) :
# 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

two_rounds <- ess_rounds(c(1, 22))

# Error in ess_round_url(rounds) :
# ESS round 22 is not a available. Check show_rounds()

## End(Not run)

```



## 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, rounds, 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 <a href="#">show_countries</a> for a list of available countries.
rounds	a numeric vector with the rounds to download. See <a href="#">show_rounds</a> 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 <a href="http://www.europeansocialsurvey.org/user/new">http://www.europeansocialsurvey.org/user/new</a> . A preferred method is to login through <a href="#">set_email</a> .
format	the format from which to download the data. Can either be 'stata', 'spss' or 'sas', with 'stata' as default. When using <code>import_country</code> the data will be downloaded and read in the format specified. For <code>download_country</code> , the data is downloaded from the specified format (only 'spss' and 'stata' supported, see details).
output_dir	a character vector with the output directory in case you want to only download the files using <code>download_country</code> . Defaults to your working directory. This will be interpreted as a <b>directory</b> 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`

### Examples

```
## Not run:

set_email("your_email@email.com")

# Get first three rounds for Denmark
dk_three <- import_country("Denmark", 1:3)

# Only download the files, this will return nothing
temp_dir <- tempdir()

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'
)

# If email is not registered at ESS website, error will arise
uk_one <- import_country("United Kingdom", 5, "wrong_email@email.com")
# 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))

# Error in ess_country_url(country, rounds) :
# Only rounds ESS1, ESS2, ESS4, ESS5, ESS6, ESS7, ESS8 available
# for Czech Republic

## End(Not run)
```

## 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 <a href="#">show_rounds</a> 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 <a href="http://www.europeansocialsurvey.org/user/new">http://www.europeansocialsurvey.org/user/new</a> . A preferred method is to login through <a href="#">set_email</a> .
format	the format from which to download the data. Can either be 'stata', 'spss' or 'sas', with 'stata' as default. When using <code>import_rounds</code> the data will be downloaded and read in the format specified (only 'spss' and 'stata' supported, see details). For <code>download_rounds</code> , 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 <code>download_rounds</code> . Defaults to your working directory. This will be interpreted as a <b>directory</b> and not a path with a file name.

## 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`

**Examples**

```
## Not run:

set_email("your_email@email.com")

# Get first three rounds
three_rounds <- import_rounds(1:3)

temp_dir <- tempdir()

# 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))

# If email is not registered at ESS website, error will arise
two_rounds <- import_rounds(c(1, 2), "wrong_email@email.com")

# 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)
```

**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**

<code>ess_data</code>	data frame or <a href="#">tibble</a> with data from the European Social Survey. This data frame should come either from <code>ess_rounds</code> , <code>ess_country</code> or read with <code>read_dta</code> or <code>read_spss</code> . This is the case because it identifies missing values using <a href="#">labelled</a> classes.
<code>missing_codes</code>	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.
<code>x</code>	a <a href="#">labelled</a> numeric
<code>y</code>	a character vector

**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.

**Examples**

```
## Not run:
seven <- ess_rounds(7, your_email)

attr(seven$tvatot, "labels")
```

```

mean(seven$tvttot, na.rm = TRUE)

names(table(seven$lngnom1))
# First three are actually missing values

seven_recoded <- recode_missings(seven)

attr(seven_recoded$tvttot, "labels")
# All missings have been removed
mean(seven_recoded$tvttot, na.rm = TRUE)

names(table(seven_recoded$lngnom1))
# All missings have been removed

# If you want to operate on specific variables
# you can use other recode_*_missing

seven$tvttot <- recode_numeric_missing(seven$tvttot)

# Recode only 'Don't know' and 'No answer' to missing
seven$tvtpol <- recode_numeric_missing(seven$tvtpol, c("Don't know", "No answer"))

# The same can be done with recode_strings_missing

## End(Not run)

```

---

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 `ess_*` 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	<i>Return available countries in the European Social Survey</i>
----------------	---

---

**Description**

Return available countries in the European Social Survey

**Usage**

```
show_countries()
```

**Value**

character vector with available countries

**Examples**

```
show_countries()
```

---

show_country_rounds	<i>Return available rounds for a country in the European Social Survey</i>
---------------------	--

---

**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 <a href="#">show_countries</a> 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	<i>Return available rounds in the European Social Survey</i>
-------------	--

---

**Description**

Return available rounds in the European Social Survey

**Usage**

```
show_rounds()
```

**Value**

numeric vector with available rounds

**Examples**

```
show_rounds()
```

---

show_rounds_country	<i>Return countries that participated in <b>all</b> of the specified rounds.</i>
---------------------	--

---

**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\\_rounds](#) for 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

**Examples**

```
# 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)
```

---

show\_themes

*Return available themes in the European Social Survey*

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**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()
```

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show_theme_rounds	<i>Return available rounds for a theme in the European Social Survey</i>
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## 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 <a href="#">show_themes</a> for a list of available themes.
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## Value

character vector with available rounds for country

## Examples

```
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")
```

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