

Package ‘cesR’

July 22, 2025

Type Package

Title Access the Canadian Election Study Datasets

Version 0.1.0

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Description Makes accessing and loading the Canadian Election Study (<<http://www.ces-eec.ca/>>, <<https://ces-eec.arts.ubc.ca/>>, <<https://search1.odesi.ca/#/>>) surveys into the R workspace more efficient by downloading a requested survey and loading it as a data object. This removes the need to locate, download, load, and change working directories when working with the Canadian Election Study surveys.

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URL <https://hodgettsp.github.io/cesR/>

BugReports <https://github.com/hodgettsp/cesR/issues>

Depends R(>= 3.5.0)

Encoding UTF-8

Language en-US

Imports dplyr, haven, readr, labelled, tidyr, utils

RoxygenNote 7.1.2

Suggests testthat, knitr, rmarkdown, spelling

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

Date/Publication 2021-11-23 18:20:05 UTC

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get_ces	Create a dataframe object for a CES survey.
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Description

get_ces() creates a dataframe object for a requested Canadian Election Study survey using an associated survey code to call and download the survey dataset. On creation of the data object, prints out the associated citation for use with the requested dataset and a link to the original location of the data file.

Usage

```
get_ces(srvy, pos = 1)
```

Arguments

srvy	A CES survey code call. See <i>Survey Code Calls</i> below. srvy value must be a character string.
pos	Environment assignment. Defaults to 1, which is an assignment to the global environment.

Details

Datasets:

Datasets are loaded using .dta, .sav, or .tab file types. See *File Types* below for a list of included CES datasets and their file type. To quickly convert a dataset’s values to factor type use labelled::to_factor() on the dataset.

Survey Code Calls:

- ces2019_web calls 2019 CES online survey dataset.
- ces2019_phone calls 2019 CES phone survey dataset.
- ces2015_web calls 2015 CES online survey dataset.
- ces2015_phone calls 2015 CES phone survey dataset.
- ces2015_combo calls 2015 CES combined (online/phone) dataset.
- ces2011 calls 2011 CES survey dataset.
- ces2008 calls 2008 CES survey dataset.
- ces2004 calls 2004 CES survey dataset.

- ces0411 calls 2004-2011 CES survey dataset.
- ces0406 calls 2004-2006 CES survey dataset.
- ces2000 calls 2000 CES survey dataset.
- ces1997 calls 1997 CES survey dataset.
- ces1993 calls 1993 CES survey dataset.
- ces1988 calls 1988 CES survey dataset.
- ces1984 calls 1984 CES survey dataset.
- ces1974 calls 1974 CES survey dataset.
- ces7480 calls 1974-1980 CES survey dataset.
- ces72_jnj1 calls 1972 June-July CES survey dataset.
- ces72_sep calls 1972 September CES survey dataset.
- ces72_nov calls 1972 November CES survey dataset.
- ces1968 calls 1968 CES survey dataset.
- ces1965 calls 1965 CES survey dataset.

File Types:

- CES 2019 online survey. Loaded as a .dta file type.
- CES 2019 phone survey. Loaded as a .tab file type.
- CES 2015 online survey. Loaded as a .dta file type.
- CES 2015 phone survey. Loaded as a .dta file type.
- CES 2015 combined survey. Loaded as a .dta file type.
- CES 2011 survey. Loaded as a .dta file type.
- CES 2008 survey. Loaded as a .sav file type.
- CES 2004 survey. Loaded as a .sav file type.
- CES 2004-2011 surveys. Loaded as a .dta file type.
- CES 2004-2006 surveys. Loaded as a .sav file type.
- CES 2000 survey. Loaded as a .sav file type.
- CES 1997 survey. Loaded as a .sav file type.
- CES 1993 survey. Loaded as a .sav file type.
- CES 1988 survey. Loaded as a .sav file type.
- CES 1974 survey. Loaded as a .sav file type.
- CES 1974-1980 surveys. Loaded as a .sav file type.
- CES 1972 June-July surveys. Loaded as a .sav file type.
- CES 1972 September survey. Loaded as a .sav file type.
- CES 1972 November survey. Loaded as a .sav file type.
- CES 1968 survey. Loaded as a .sav file type.
- CES 1965 survey. Loaded as a .sav file type.

Incorrect/Repeated Code Calls:

Incorrect (a non-existent survey code) will stop the function process and return an associated error message. Repeated code calls will load in the raw version of the requested table.

Extra Notes:

Due to the naming of the columns in the 1965 and 1968 datasets it is recommended to download the associated codebook for the requested dataset.

Value

The called `srvy` at the designated environment position `pos`. Default environment position is set to be the global environment.

See Also

`get_cescodes()` function help.

Examples

```
## Not run:
# call the 2019 CES online survey
get_ces("ces2019_web")

# convert variables to factor
labelled::to_factor(ces2019_web)

# preview dataset
head(ces2019_web)

## End(Not run)
```

`get_cescodes`

Print a dataset of the CES survey codes and their associated calls.

Description

`get_cescodes()` prints out a data frame of the CES survey codes and the associated calls. Provides a quick way of looking up a CES survey code and the associated call.

Usage

```
get_cescodes(indx = 22)
```

Arguments

`indx` A numeric value that determines the number of survey codes returned. Default is set to 22, or the total set of survey codes.

Details

Items under the *Survey Code Calls* and *Index Code Calls* can be copied and used with the `get_ces()` function.

Survey Codes:

- `ces2019_web` 2019 CES online survey dataset.
- `ces2019_phone` 2019 CES phone survey dataset.
- `ces2015_web` 2015 CES online survey dataset.

- ces2015_phone 2015 CES phone survey dataset.
- ces2015_combo 2015 CES combined (online/phone) dataset.
- ces2011 2011 CES survey dataset.
- ces2008 2008 CES survey dataset.
- ces2004 2004 CES survey dataset.
- ces0411 2004-2011 CES survey dataset.
- ces0406 2004-2006 CES survey dataset.
- ces2000 2000 CES survey dataset.
- ces1997 1997 CES survey dataset.
- ces1993 1993 CES survey dataset.
- ces1988 1988 CES survey dataset.
- ces1984 1984 CES survey dataset.
- ces1974 1974 CES survey dataset.
- ces7480 1974-1980 CES survey dataset.
- ces72_jnj1 1972 June-July CES survey dataset.
- ces72_sep 1972 September CES survey dataset.
- ces72_nov 1972 November CES survey dataset.
- ces1968 1968 CES survey dataset.
- ces1965 1965 CES survey dataset.

Survey Code Calls:

- "ces2019_web" calls 2019 CES online survey dataset.
- "ces2019_phone" calls 2019 CES phone survey dataset.
- "ces2015_web" calls 2015 CES online survey dataset.
- "ces2015_phone" calls 2015 CES phone survey dataset.
- "ces2015_combo" calls 2015 CES combined (online/phone) dataset.
- "ces2011" calls 2011 CES survey dataset.
- "ces2008" calls 2008 CES survey dataset.
- "ces2004" calls 2004 CES survey dataset.
- "ces0411" calls 2004-2011 CES survey dataset.
- "ces0406" calls 2004-2006 CES survey dataset.
- "ces2000" calls 2000 CES survey dataset.
- "ces1997" calls 1997 CES survey dataset.
- "ces1993" calls 1993 CES survey dataset.
- "ces1988" calls 1988 CES survey dataset.
- "ces1984" calls 1984 CES survey dataset.
- "ces1974" calls 1974 CES survey dataset.
- "ces7480" calls 1974-1980 CES survey dataset.
- "ces72_jnj1" calls 1972 June-July CES survey dataset.
- "ces72_sep" calls 1972 September CES survey dataset.
- "ces72_nov" calls 1972 November CES survey dataset.
- "ces1968" calls 1968 CES survey dataset.
- "ces1965" calls 1965 CES survey dataset.

Value

A printout of a designated number of Canadian Election Study survey codes and associated character codes used for the `get_ces()` function.

See Also

`get_ces()` function help.

Examples

```
# print out CES code calls
get_cescodes()

# call 1984 CES survey
get_ces("ces1984")
```

get_decon	<i>Creates a non-exhaustive dataframe of 21 variables with renamed columns.</i>
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Description

`get_decon()` creates a non-exhaustive dataset under the name `decon` consisting of 21 variables with renamed columns from the demographics, ideology, and economy sections of the 2019 CES online survey.

Usage

```
get_decon(pos = 1)
```

Arguments

pos	Environment assignment. Defaults to 1, which is an assignment to the global environment.
-----	--

decon Variables:

citizenship	Canadian citizenship status
yob	year of birth
gender	identified gender of the respondent
province_territory	Province or Territory of current residence
education	highest level of education completed
vote_likely	likelihood of voting on election day
vote_likely_ifable	likelihood to vote in first election for which respondent is eligible
votechoice	party most likely to vote for
votechoice_text	party most likely to vote for - text answers

votechoice_couldvote party most likely to vote for if eligible to vote
votechoice_couldvote_text party most likely to vote for if eligible to vote
- text answers
votechoice_unlikely party least likely to vote for
votechoice_unlikely_text party least likely to vote for - text answers
votechoice_unlikely_couldvote party least likely to vote for if eligible to
vote
votechoice_unlikely_couldvote_text party least likely to vote for if eli-
gible to vote - text answers
vote_advancevote_choice party voted for in the advanced ballot
vote_advancevote_choice_text party voted for in the advanced ballot -
text
vote_partylean party toward which the respondent leans
vote_partylean_text party toward which the respondent leans - text an-
swers
vote_partylean_couldvote party toward which the respondent leans if eli-
gible
vote_partylean_couldvote_text party toward which the respondent leans
if eligible - text answers
votechoice_secondchoice second choice party of respondent
votechoice_secondchoice_text second choice party of respondent - text
answers
votechoice_couldvote_secondchoice second choice party of respondent
if eligible
votechoice_couldvote_secondchoice_text second choice party of respon-
dent if eligible - text answers
votechoice_partynotvote_1 party respondent would note vote for - first
ranking
votechoice_partynotvote_2 party respondent would note vote for - second
ranking
votechoice_partynotvote_3 party respondent would note vote for - third
ranking
votechoice_partynotvote_4 party respondent would note vote for - fourth
ranking
votechoice_partynotvote_5 party respondent would note vote for - fifth
ranking
votechoice_partynotvote_6 party respondent would note vote for - sixth
ranking
votechoice_partynotvote_7 party respondent would note vote for - sev-
enth ranking
votechoice_partynotvote_8 party respondent would note vote for - eighth
ranking
votechoice_partynotvote_9 party respondent would note vote for - ninth
ranking

votechoice_partynotvote_text party respondent would note vote for - text answers
 lr_scale united column of lr_bef and lr_aft values; whether the respondent identifies on the political spectrum
 lr_scale_bef where the respondent identifies on the political spectrum; asked before party identification questions
 lr_scale_aft where the respondent identifies on the political spectrum; asked after party identification questions
 religion religion of respondent
 sexuality_selected sexual identity
 sexuality_text sexual identity; written answers
 language_eng language learned as child and still understand; selected response English
 language_fr language learned as a child and still understand; selected response French
 language_abgl language learned as a child and still understand; specified Aboriginal language
 employment employment status
 income total household income, before taxes, for the year 2018
 income_cat selected household income category
 marital marital status
 econ_retro response to question, 'over the past year, has Canada's economy:'
 econ_fed response to question, 'have the policies of the federal government made Canada's economy...'
 econ_self response to question, have the policies of the federal government made your financial situation...'

Details

NAs have not been removed. The politically left/right question variables (lr_bef and lr_aft) have also been joined into one column under the name lr_scale. All variables have been converted to factor type using labelled::to_factor and are listed below.

Value

The designed dataframe as a 'tbl_df' object under the name decon.

See Also

For further details, see <https://dataverse.harvard.edu/dataset.xhtml?persistentId=doi:10.7910/DVN/DUS88V> Stephenson, Laura B; Harell, Allison; Rubenson, Daniel; Loewen, Peter John, 2020, "2019 Canadian Election Study - Online Survey", doi: [10.7910/DVN/DUS88V](https://doi.org/10.7910/DVN/DUS88V), Harvard Dataverse, V1

Examples

```
## Not run:
# call decon dataset
get_decon()

# preview decon
head(decon)

## End(Not run)
```

get_preview

*Create a preview dataframe object of a CES survey.***Description**

get_preview() creates a truncated dataframe for a requested Canadian Election Study survey using an associated code to call and download the survey dataset.

Usage

```
get_preview(srvy, obs = 6, pos = 1)
```

Arguments

srvy	A CES survey code call. See <i>Survey Code Calls</i> below. srvy value must be a character string.
obs	A numerical value that determines the number of observations returned. If a value for obs is not given, then default value is 6 observations. Variable must be given as a numerical value.
pos	Environment assignment. Defaults to 1, which is an assignment to the global environment.

Details**Datasets:**

Datasets are loaded using either .dta or .sav file types and converted to factor type using the to_factor() function from the labelled package.

Survey Code Calls:

get_preview() uses the same survey code calls as the get_ces() function. These survey code calls are listed below.

- ces2019_web calls 2019 CES online survey dataset.
- ces2019_phone calls 2019 CES phone survey dataset.
- ces2015_web calls 2015 CES online survey dataset.
- ces2015_phone calls 2015 CES phone survey dataset.
- ces2015_combo calls 2015 CES combined (online/phone) dataset.

- ces2011 calls 2011 CES survey dataset.
- ces2008 calls 2008 CES survey dataset.
- ces2004 calls 2004 CES survey dataset.
- ces0411 calls 2004-2011 CES survey dataset.
- ces0406 calls 2004-2006 CES survey dataset.
- ces2000 calls 2000 CES survey dataset.
- ces1997 calls 1997 CES survey dataset.
- ces1993 calls 1993 CES survey dataset.
- ces1988 calls 1988 CES survey dataset.
- ces1984 calls 1984 CES survey dataset.
- ces1974 calls 1974 CES survey dataset.
- ces7480 calls 1974-1980 CES survey dataset.
- ces72_jnl calls 1972 June-July CES survey dataset.
- ces72_sep calls 1972 September CES survey dataset.
- ces72_nov calls 1972 November CES survey dataset.
- ces1968 calls 1968 CES survey dataset.
- ces1965 calls 1965 CES survey dataset.

Incorrect/Repeated Code Calls:

Incorrect (a non-existent survey code) will stop the function process and return associated error messages. Repeated code calls will load in an unaltered version of the requested table.

Extra Notes:

Due to the naming of the columns in the 1965 and 1968 datasets it is recommended to download the associated codebook for the requested dataset.

Value

The truncated version of the requested survey dataset `srvy` with the set number of observations `obs` to the designated environment `pos`.

See Also

`get_ces()` function help. `get_cescodes()` function help.

Examples

```
## Not run:
# print out CES call codes
get_cescodes()

# call the 1993 CES dataset
get_ces("ces1993")

# preview the first 10 observations of the dataset
get_preview("ces1993", 10)

## End(Not run)
```

get_question	<i>Prints out the survey question column label for a given column in a given dataset.</i>
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Description

get_question() prints out the survey question associated with a given column in a given dataset name.

Usage

```
get_question(do, q)
```

Arguments

do	a CES survey data object (given as a character string)
q	a column name in a CES survey data object (given as a character string)

Details

The order of the parameters for get_question are data object then column name. Both parameters must be character strings and cannot be reversed. To return the associated survey question, the get_question function relies on the var_label function from the labelled package.

Value

The associated question q in a loaded dataset do.

See Also

get_ces() function help. get_cescodes() help.

Examples

```
# print out CES code calls
get_cescodes()

# call CES survey
get_ces("ces1988")

# request the survey question for column a6
get_question("ces1988", "a6")
```

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