

Package ‘contactsurveys’

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Title Download Contact Surveys for Use in Infectious Disease Modelling

Version 0.1.0

Description Download, cache, and manage social contact survey data from the social contact data community on Zenodo (https://zenodo.org/communities/social_contact_data) for use in infectious disease modelling. Provides functions to list available surveys, download survey files with automatic caching, and retrieve citations. Contact survey data describe who contacts whom in a population and are used to parameterise age-structured transmission models, for example via the 'socialmixr' package. The surveys available include those from the POLYMOD study (Mossong et al. (2008) [doi:10.1371/journal.pmed.0050074](https://doi.org/10.1371/journal.pmed.0050074)) and other social contact data shared on Zenodo.

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Language en-US

Depends R (>= 4.1.0)

Imports cli (>= 3.6.0), data.table, oai, purrr, rlang (>= 1.0.0), stats, yesno, zen4R (>= 0.10.3)

Suggests socialmixr (>= 0.5.0), knitr, rmarkdown, roxyglobals, testthat (>= 3.0.0), withr, vcr (>= 2.0.0)

VignetteBuilder knitr

Encoding UTF-8

NeedsCompilation no

RoxygenNote 7.3.3

URL <https://github.com/epiforecasts/contactsurveys>,
<http://epiforecasts.io/contactsurveys/>

BugReports <https://github.com/epiforecasts/contactsurveys/issues>

Config/testthat/edition 3

Config/roxyglobals/filename globals.R

Config/roxyglobals/unique FALSE

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contactsurveys_dir *Directory for persistent storage of contact surveys*

Description

Returns a platform-specific directory for persistent storage of downloaded survey files, powered by [tools::R_user_dir\(\)](#). You can override this by setting the environment variable CONTACTSURVEYS_HOME.

Usage

```
contactsurveys_dir()
```

Details

By default, [download_survey\(\)](#) and [list_surveys\(\)](#) use [tempdir\(\)](#) so files do not persist across R sessions. To enable persistent caching, pass [contactsurveys_dir\(\)](#) as the directory argument, e.g. [download_survey\(survey, directory = contactsurveys_dir\(\)\)](#).

Value

the active contactsurveys directory.

Examples

```
contactsurveys_dir()

## Override with an environment variable:
Sys.setenv(CONTACTSURVEYS_HOME = tempdir())
contactsurveys_dir()
## Unset
Sys.unsetenv("CONTACTSURVEYS_HOME")
```

```
delete_contactsurveys_files
      Delete files in contactsurveys directory
```

Description

Delete files in contactsurveys directory

Usage

```
delete_contactsurveys_files(dir = contactsurveys_dir())
delete_contactsurveys_dir(dir = contactsurveys_dir())
```

Arguments

`dir` directory to list files to delete from

Value

nothing, deletes files.

Examples

```
delete_contactsurveys_files()
```

delete_survey *Delete files for a given survey*

Description

For when you want to delete files associated with a given survey.

Usage

```
delete_survey(survey)
```

Arguments

survey Survey, as used in [download_survey\(\)](#).

Value

nothing, deleted files

See Also

[delete_contactsurveys_dir\(\)](#) [delete_contactsurveys_files\(\)](#)

Examples

```
peru_doi <- "https://doi.org/10.5281/zenodo.1095664"  
delete_survey(peru_doi)
```

download_survey *Download a survey from its Zenodo repository*

Description

Downloads survey data. Uses a caching mechanism via the default argument for directory.

Usage

```
download_survey(  
  survey,  
  directory = tempdir(),  
  verbose = TRUE,  
  overwrite = FALSE,  
  timeout = 3600,  
  rate = purrr::rate_backoff(pause_base = 5, max_times = 4)  
)
```

Arguments

survey	A DOI of a survey, (see list_surveys()). If a HTML link is given, the DOI will be isolated and used.
directory	Directory of where to save survey files. Defaults to tempdir() , so files do not persist across R sessions. For persistent caching, pass contactsurveys_dir() , which uses tools::R_user_dir() and appends the survey URL/DOI base-name as a subdirectory. E.g., if you provide "10.5281/zenodo.1095664" in the survey argument, it will save the surveys into a directory zenodo.1095664 under contactsurveys_dir() . You can also set an environment variable, CONTACTSURVEYS_HOME, see Sys.setenv() or Renviron for more detail.
verbose	Whether downloads should be echoed to output. Default TRUE.
overwrite	If files should be overwritten if they already exist. Default FALSE
timeout	A numeric value specifying timeout in seconds. Default 3600 seconds.
rate	a purrr rate object, to facilitate downloading if the download fails. Defaults to an exponential backoff of 5 seconds (up to 4 attempts: 1 initial + 3 retries) changed by specifying your own rate object, see ?purrr::rate_backoff() for details.

Value

a vector of filenames, where the surveys were downloaded

See Also

[list_surveys\(\)](#)

Examples

```
list_surveys()
peru_survey <- download_survey("https://doi.org/10.5281/zenodo.1095664")
```

get_citation

Get citation from a DOI

Description

This is a wrapper around [zen4R::get_citation\(\)](#) with a couple of smaller changes. Firstly, it silences output from [zen4R::get_citation\(\)](#), secondly the default citation style is "apa".

Usage

```
get_citation(
  doi,
  style = c("bibtex", "apa", "harvard-cite-them-right", "modern-language-association",
            "vancouver", "chicago-fullnote-bibliography", "ieee"),
  verbose = TRUE
)
```

Arguments

doi	A string, the Zenodo DOI or concept DOI.
style	A string, the citation style. Default is "bibtex". Possible values are: "bibtex", "harvard-cite-them-right", "apa", "modern-language-association", "vancouver", "chicago-fullnote-bibliography", or "ieee".
verbose	logical. Should messages during citation fetching print to the screen? Default is TRUE.

Value

A character string containing the citation in the requested style. For "bibtex" style, returns an object of class "csbib".

Examples

```
polymod_doi <- "https://doi.org/10.5281/zenodo.3874557"
get_citation(polymod_doi)
```

is_doi	<i>Checks if a character string is a DOI</i>
--------	--

Description

Checks if a character string is a DOI

Usage

```
is_doi(x)
```

Arguments

x	Character vector; the string or strings to check
---	--

Value

Logical; TRUE if x is a DOI, FALSE otherwise

Author(s)

Sebastian Funk

list_surveys	<i>List all surveys available for download</i>
--------------	--

Description

List all surveys available for download

Usage

```
list_surveys(  
  directory = tempdir(),  
  overwrite = FALSE,  
  verbose = TRUE,  
  rate = purrr::rate_backoff(pause_base = 5, max_times = 4)  
)
```

Arguments

directory	Directory to save the cached survey list. Defaults to <code>tempdir()</code> , so the cached list does not persist across R sessions. For persistent caching, pass <code>contactsurveys_dir()</code> .
overwrite	If files should be overwritten if they already exist. Default FALSE
verbose	Whether downloads should be echoed to output. Default TRUE.
rate	a <code>purrr rate</code> object, to facilitate downloading if the download fails. Defaults to an exponential backoff of 5 seconds (up to 4 attempts: 1 initial + 3 retries) changed by specifying your own rate object, see <code>?purrr::rate_backoff()</code> for details.

Value

data.table with columns: date_added, title, creator, url

Examples

```
list_surveys()
```

ls_contactsurveys	<i>List files in contactsurveys cache</i>
-------------------	---

Description

It can be handy to see which files are available, sometimes to return to a clean slate and delete them via the `delete_contactsurveys_*`(`)` functions.

Usage

```
ls_contactsurveys(dir = contactsurveys_dir())
```

Arguments

dir Directory to list. Default is `contactsurveys_dir()`.

Value

Character vector of file paths under dir (absolute paths).

See Also

`delete_contactsurveys_files()` `delete_survey()` `delete_contactsurveys_dir()` `download_survey()`
`contactsurveys_dir()`

Examples

```
ls_contactsurveys()
```

```
print.csbib                    Print a csbib citation
```

Description

Print a csbib citation

Usage

```
## S3 method for class 'csbib'  
print(x, ...)
```

Arguments

x A "csbib" object.
... Additional arguments passed to methods.

Value

Invisibly returns x.

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