

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)

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VignetteBuilder knitr

Encoding UTF-8

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

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

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Contents

contactsurveys_dir	2
delete_contactsurveys_files	3
delete_survey	4
download_survey	4
get_citation	5
is_doi	6
list_surveys	7
ls_contactsurveys	7
print.csbib	8
Index	9

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()
```

<code>delete_survey</code>	<i>Delete files for a given survey</i>
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Description

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

Usage

```
delete_survey(survey)
```

Arguments

<code>survey</code>	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)
```

<code>download_survey</code>	<i>Download a survey from its Zenodo repository</i>
------------------------------	---

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 Renvironment 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	<i>Get citation from a DOI</i>
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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

<code>doi</code>	A string, the Zenodo DOI or concept DOI.
<code>style</code>	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".
<code>verbose</code>	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

Checks if a character string is a DOI

Description

Checks if a character string is a DOI

Usage

```
is_doi(x)
```

Arguments

<code>x</code>	Character vector; the string or strings to check
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Value

Logical; TRUE if `x` is a DOI, FALSE otherwise

Author(s)

Sebastian Funk

list_surveys	<i>List all surveys available for download</i>
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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</code> <code>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>
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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`.

Index

contactsurveys_dir, 2
contactsurveys_dir(), 5, 7, 8

delete-files
 (delete_contactsurveys_files),
 3

delete_contactsurveys_dir
 (delete_contactsurveys_files),
 3

delete_contactsurveys_dir(), 4, 8
delete_contactsurveys_files, 3
delete_contactsurveys_files(), 4, 8
delete_survey, 4
delete_survey(), 8
download_survey, 4
download_survey(), 2, 4, 8

get_citation, 5

is_doi, 6

list_surveys, 7
list_surveys(), 2, 5
ls_contactsurveys, 7

print.csbib, 8

Renvironment, 5

Sys.setenv(), 5

tempdir(), 2, 5, 7
tools::R_user_dir(), 2, 5

zen4R::get_citation(), 5