Package 'contactsurveys'

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Title Download Contact Surveys for Use in Infectious Disease Modelling

Version 0.2.0

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>) and other social contact data shared on Zenodo.

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Language en-US

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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 basename 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 *Checks if a character string is a DOI*

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)

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list_surveys *List all surveys available for download*

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 `tempdir()`, so the cached list does not persist across R sessions. For persistent caching, pass `contactsurveys_dir()`.
overwrite	If files should be overwritten if they already exist. Default FALSE
verbose	Whether downloads should be echoed to output. Default TRUE.
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

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

Examples

```
list_surveys()
```

ls_contactsurveys *List files in contactsurveys cache*

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.

`store_reference` *Extracts meta-data and repository info from a zen4R::ZenodoRecord object*

Description

Extracts meta-data and repository info from a zen4R::ZenodoRecord object

Usage

```
store_reference(records, survey_dir)
```

Arguments

`records`	ZenodoRecord object; the object to parse information from
`survey_dir`	file path; location to store the meta-data file

Value

file path; file path to the JSON file with meta-data and link(s)

Note

internal

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