

Package ‘zendown’

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Title Access Files from 'Zenodo' Deposits

Version 0.1.0

Description Access, download and locally cache files deposited on 'Zenodo' <<https://zenodo.org>>.

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Depends R (>= 4.0.0)

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Imports checkmate, cli, curl, fs, glue, httr2, RCurl, stats, tibble,
tidyr, tools

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

URL <https://rfsaldanha.github.io/zendown/>,
<https://github.com/rfsaldanha/zendown>

BugReports <https://github.com/rfsaldanha/zendown/issues>

Config/Needs/website rmarkdown

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cache_report	<i>Cache report</i>
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Description

Print a report at the console with cache statistics

Usage

```
cache_report(cache_type = NULL, cache_dir = NULL)
```

Arguments

- cache_type character. Use temporary to a session temporary folder, persistent for a persistent cache folder or NULL to use the environment default. Check the section Cache Type for more details.
- cache_dir character. User specified cache directory for persistent cache type.

Value

No return value. The function prints a report on the console.

Examples

```
mirror_deposit(deposit_id = 10959197)
cache_report()
```

delete_mirror	<i>Delete a deposit mirror</i>
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Description

This function will delete all mirrored files stored locally.

Usage

```
delete_mirror(deposit_id, cache_type = NULL, cache_dir = NULL)
```

Arguments

- deposit_id numeric. The Zenodo deposit id.
- cache_type character. Use temporary to a session temporary folder, persistent for a persistent cache folder or NULL to use the environment default. Check the section Cache Type for more details.
- cache_dir character. User specified cache directory for persistent cache type.

Value

No return value. The function deletes mirrored on the system.

Examples

```
# https://zenodo.org/records/10959197
file_path <- zen_file(10959197, "iris.rds")
print(file_path)
file.exists(file_path)
delete_mirror(10959197)
file.exists(file_path)
```

download_deposit	<i>Download files from a Zenodo deposit</i>
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Description

Download files from a Zenodo deposit

Usage

```
download_deposit(list_deposit, file_name = NULL, dest, quiet = FALSE)
```

Arguments

list_deposit	data.frame or tibble. Obtained with list_deposit .
file_name	character. If NULL, all files from the file list. If a file name is specified, only this file will be downloaded.
dest	character. Destination folder.
quiet	logical. Show download info and progress bar.

Value

No return value. The function downloads files to the specified destination.

Examples

```
res <- list_deposit(deposit_id = 10959197)
temp_dir <- tempdir()
download_deposit(list_deposit = res, dest = temp_dir, quiet = FALSE)
file.exists(file.path(temp_dir, "iris.rds"))
file.exists(file.path(temp_dir, "mtcars.rds"))
```

list_deposit	<i>Get a list of files available at a Zenodo deposit</i>
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Description

Get a list of files available at a Zenodo deposit

Usage

```
list_deposit(deposit_id)
```

Arguments

deposit_id numeric. The Zenodo deposit id.

Value

a tibble.

Examples

```
# https://zenodo.org/records/10959197
list_deposit(deposit_id = 10959197)
```

mirror_deposit	<i>Mirror a Zenodo deposit locally</i>
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Description

Mirror an entire Zenodo deposit or a specific file locally. The mirror is a folder with the deposit files created at the cache folder of the operating system.

Usage

```
mirror_deposit(
  deposit_id,
  file_name = NULL,
  cache_dir = NULL,
  cache_type = NULL,
  clear_cache = FALSE,
  quiet = FALSE
)
```

Arguments

deposit_id	numeric. The Zenodo deposit id.
file_name	character. If NULL, all files from the file list. If a file name is specified, only this file will be downloaded.
cache_dir	character. User specified cache directory for persistent cache type.
cache_type	character. Use temporary to a session temporary folder, persistent for a persistent cache folder or NULL to use the environment default. Check the section Cache Type for more details.
clear_cache	logical. If the mirror already exists, clear its content.
quiet	logical. Show download info and progress bar.

Value

a string with the mirror path.

Cache type

The Zenodo mirror will be cached locally on a system folder. This folder can be temporary, being cleared when the R session is ended, or persistent across sessions and reboots.

If the `cache_type` argument is NULL (the default) the package will check first the environment variable `zendown_cache_type`. If set, the package will use its value. If not set, a temporary cache folder will be used as default.

You can set an environment variable with `usethis::edit_r_environ()` and write as bellow for a persistent cache storage.

```
zendown_cache_type = "persistent"
```

After saving the file, remember to restart the session. With this setting, the cache will be persistent and stored at the directory given by `tools::R_user_dir("zendown", which = "cache")`

You may also use a different folder for persistent storage by setting the `zendown_cache_dir` environment variable. For example:

```
zendown_cache_dir = C:\my_cache\
```

If you set the `cache_type` argument directly as temporary or persistent, it will override the environment setting.

Examples

```
# https://zenodo.org/records/10959197
mirror_path <- mirror_deposit(deposit_id = 10959197)
file.exists(file.path(mirror_path, "iris.rds"))
file.exists(file.path(mirror_path, "mtcars.rds"))
```

zen_file	<i>Access a Zenodo deposit file</i>
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Description

Get the local path to a Zenodo deposit file. If not cached in a mirror yet, it will download the file to a deposit mirror cache locally.

Usage

```
zen_file(
  deposit_id,
  file_name,
  cache_type = NULL,
  cache_dir = NULL,
  clear_cache = FALSE,
  quiet = FALSE
)
```

Arguments

deposit_id	numeric. The Zenodo deposit id.
file_name	character. If NULL, all files from the file list. If a file name is specified, only this file will be downloaded.
cache_type	character. Use temporary to a session temporary folder, persistent for a persistent cache folder or NULL to use the environment default. Check the section Cache Type for more details.
cache_dir	character. User specified cache directory for persistent cache type.
clear_cache	logical. If the mirror already exists, clear its content.
quiet	logical. Show download info and progress bar.

Value

a string with the mirror file path.

Cache type

The Zenodo mirror will be cached locally on a system folder. This folder can be temporary, being cleared when the R session is ended, or persistent across sessions and reboots.

If the `cache_type` argument is NULL (the default) the package will check first the environment variable `zendown_cache_type`. If set, the package will use its value. If not set, a temporary cache folder will be used as default.

You can set an environment variable with `usethis::edit_r_environ()` and write as bellow for a persistent cache storage.

```
zendown_cache_type = "persistent"
```

After saving the file, remember to restart the session. With this setting, the cache will be persistent and stored at the directory given by `tools::R_user_dir("zendown", which = "cache")`

You may also use a different folder for persistent storage by setting the `zendown_cache_dir` environment variable. For example:

```
zendown_cache_dir = C:\my_cache\
```

If you set the `cache_type` argument directly as temporary or persistent, it will override the environment setting.

Examples

```
# https://zenodo.org/records/10959197
zen_file_path <- zen_file(10959197, "iris.rds")
print(zen_file_path)
file.exists(zen_file_path)
```

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