

Package ‘zendown’

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Title Access Files from 'Zenodo' Deposits

Version 0.0.2

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, tibble, tidyr,
tools, utils

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

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

NeedsCompilation no

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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)
```

Arguments

deposit_id	numeric. The Zenodo deposit id.
cache_type	character. If NULL, the package will check the environment variable zendown_cache_type setting and use it. If zendown_cache_type is not set, the function will default to a temporary cache. The argument can be set to temporary to store the cache in a temporary system folder and persistent to store the cache in a persistent system folder.

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.
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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_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_type	character. If NULL, the package will check the environment variable zendown_cache_type setting and use it. If zendown_cache_type is not set, the function will default to a temporary cache. The argument can be set to temporary to store the cache in a temporary system folder and persistent to store the cache in a persistent system folder.
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 stored locally on a system folder. This folder can be temporary, cleared when the R session is ended, or persistent across sessions and reboots.

If the cache_type argument is NULL the package will check 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 the environment variable with `Sys.setenv("zendown_cache_type" = "persistent")` or `Sys.setenv("zendown_cache_type" = "temporary")`. To unset this variable, use `Sys.unsetenv("zendown_cache_type")`.

The cache_type argument can also be set directly as temporary or persistent.

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

Access a Zenodo deposit file

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,  
  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. If NULL, the package will check the environment variable <code>zendown_cache_type</code> setting and use it. If <code>zendown_cache_type</code> is not set, the function will default to a temporary cache. The argument can be set to <code>temporary</code> to store the cache in a temporary system folder and <code>persistent</code> to store the cache in a persistent system folder.
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 stored locally on a system folder. This folder can be temporary, cleared when the R session is ended, or persistent across sessions and reboots.

If the `cache_type` argument is `NULL` the package will check 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 the environment variable with `Sys.setenv("zendown_cache_type" = "persistent")` or `Sys.setenv("zendown_cache_type" = "temporary")`. To unset this variable, use `Sys.unsetenv("zendown_cache_type")`.

The `cache_type` argument can also be set directly as `temporary` or `persistent`.

Examples

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

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