

# Package: zendown (via r-universe)

September 1, 2024

**Title** Access Files from 'Zenodo' Deposits

**Version** 0.1.0

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

**License** MIT + file LICENSE

**Encoding** UTF-8

**Depends** R (>= 4.0.0)

**Roxygen** list(markdown = TRUE)

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**Imports** checkmate, cli, curl, fs, glue, httr2, RCurl, stats, tibble, tidy, 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

**Repository** <https://rfsaldanha.r-universe.dev>

**RemoteUrl** <https://github.com/rfsaldanha/zendown>

**RemoteRef** HEAD

**RemoteSha** 081b94d419d1fabfa276cb47cabde4a16d08db88

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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()
```

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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, 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)
```

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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 <a href="#">list_deposit</a> .
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"))
```

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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)
```

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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_envirn()` 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"))
```

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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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