

Package ‘folders’

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Title Standardized Folder Names

Version 0.0.8

URL <https://github.com/deohs/folders>

BugReports <https://github.com/deohs/folders/issues>

Description Supports the use of standardized folder names.

Depends R (>= 3.6)

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Encoding UTF-8

Imports config (>= 0.3), here (>= 0.1), yaml (>= 2.2.1)

RoxygenNote 7.2.3

Suggests testthat (>= 2.3.2)

NeedsCompilation no

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cleanup_folders	<i>Cleanup Folders</i>
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Description

Remove empty folders from the folders list as well as the configuration file.

Usage

```
cleanup_folders(folders, conf_file = NULL, keep_conf = TRUE)
```

Arguments

folders	(list) A named list of standard folders for an R project. (Default: folders::get_folders())
conf_file	(character) Configuration file to read/write. See: config::get().
keep_conf	(boolean) Keep the configuration file if TRUE. (Default: TRUE)

Value

(integer) A vector of results: 0 for success; 1 for failure; NULL for skipped.

Details

Each non-empty folder in the list of folders will be removed. The configuration file will also be removed if keep_conf is set to FALSE.

Examples

```
conf_file <- tempfile("folders.yml")
folders <- get_folders(conf_file)
folders <- lapply(folders, function(x) file.path(tempdir(), x))
result <- create_folders(folders)
result <- cleanup_folders(folders, conf_file)
```

create_folders	<i>Create Folders</i>
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Description

Create a standardized set of folders under a parent folder of an R project.

Usage

```
create_folders(folders, showWarnings = FALSE, recursive = TRUE)
```

Arguments

folders (list) A named list of standard folders for an R project.
 showWarnings (boolean) Show warnings. See: base::dir.create(). (Default: FALSE)
 recursive (boolean) Support recursive folder creation. See: base::dir.create(). (Default: TRUE)

Value

(vector) A named vector for the results of "dir.create" operations.

Details

For each folder in the "folders" list, here::here() and base::dir.create() are used to create a subfolder under the parent folder. Warnings are silenced in case the folder already exists. Recursive folder creation is supported. These two features can be controlled with the "showWarnings" and "recursive" parameters. A TRUE value in the returned vector means the folder was created by dir.create(). If a folder already exists, the returned vector will have a FALSE value for that folder. You can test the existence of the folders with base::dir.exists() as shown in the examples below.

Examples

```
conf_file <- tempfile("folders.yml")
folders <- get_folders(conf_file)
folders <- lapply(folders, function(x) file.path(tempdir(), x))
result <- create_folders(folders)

dir.exists(conf_file)
sapply(folders, dir.exists)

df <- data.frame(x = letters[1:3], y = 1:3)
file_path <- file.path(folders$data, "data.csv")
write.csv(df, file_path, row.names = FALSE)
file.exists(file_path)
```

 get_folders

Get Folders

Description

Return a named list of standard folder names. Save a config file if missing.

Usage

```
get_folders(
  conf_file = NULL,
  conf_name = Sys.getenv("R_CONFIG_NAME"),
  save_conf = TRUE
)
```

Arguments

`conf_file` (character) Configuration file to read/write. See: `config::get()`.
`conf_name` (character) Name of configuration to read. See: `config::get()`. (Default: `Sys.getenv("R_CONFIG_NAME")`)
`save_conf` (boolean) Whether or not to save new configuration file. (Default: `TRUE`)

Value

(list) The named folders for a standard file structure, will be returned as a list.

Details

The list of folders can be used to create any which are missing or to refer to a folder path by name to avoid hardcoding paths in scripts. You can refer to folders in this way to avoid the use of `setwd()` in scripts.

Ideally the folder paths will be subfolders relative to the parent folder and will be standard names used in several projects for consistency.

If there is a configuration file, then it will be read with `config::get()`. Otherwise a built-in default list will be returned. If you want to use a list from a non-default section of the configuration file, set the name of the section with the `"conf_name"` parameter.

Examples

```
conf_file <- tempfile("folders.yml")
folders <- get_folders(conf_file)
folders <- get_folders(conf_file, conf_name = "custom")
Sys.setenv(R_CONFIG_NAME = "custom")
folders <- get_folders(conf_file)
```

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* **consistency**

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