Package 'Rd2roxygen'

May 7, 2026

Type Package

Title Convert Rd to 'Roxygen' Documentation

Version 1.18

Imports roxygen2 (>= 4.0.0), xfun (>= 0.55), formatR (>= 1.0)

Suggests litedown (>= 0.9)

Description Functions to convert Rd to 'roxygen' documentation. It can parse an Rd file to a list, create the 'roxygen' documentation and update the original R script (e.g. the one containing the definition of the function) accordingly. This package also provides utilities that can help developers build packages using 'roxygen' more easily. The 'formatR' package can be used to reformat the R code in the examples sections so that the code will be more readable.

License GPL

URL https://github.com/yihui/Rd2roxygen

BugReports https://github.com/yihui/Rd2roxygen/issues

VignetteBuilder litedown

RoxygenNote 7.3.3

Encoding UTF-8

NeedsCompilation no

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Repository CRAN

Date/Publication 2026-01-17 05:00:02 UTC

Contents

`Rd2roxygen-package` *Convert Rd to roxygen documentation and utilities to enhance documentation and building packages*

Description

This package contains functions to convert Rd to roxygen documentation. It can parse an Rd file to a list (`parse_file`), create the roxygen documentation (`create_roxygen`) and update the original R script (e.g. the one containing the definition of the function) accordingly (`Rd2roxygen`). This package also provides utilities which can help developers build packages using roxygen more easily (`rab`).

Note

There is no guarantee to generate perfect roxygen comments that can be converted back to the original Rd files. Usually manual manipulations on the roxygen comments are required. For example, currently '@S3method' is not included in the comments, and '@rdname' is not supported either (users have to move the roxygen comments around and add the appropriate tags by themselves). Patches (as pull requests) are welcome through GitHub: https://github.com/yihui/Rd2roxygen/.

This package is not thoroughly tested, so it is likely that it fails to convert certain parts of Rd files to roxygen comments. As mentioned before, you have to manually deal with these problems. You are welcome to report other serious issues via https://github.com/yihui/Rd2roxygen/issues.

Author(s)

Hadley Wickham and Yihui Xie

See Also

Useful links:

- https://github.com/yihui/Rd2roxygen
- Report bugs at https://github.com/yihui/Rd2roxygen/issues

Examples

```
## see the package vignette: vignette('Rd2roxygen')
```

create_roxygen *Create the roxygen documentation*

Description

The parsed information is converted to a vector of roxygen tags.

Usage

```
create_roxygen(info, usage = FALSE)
```

Arguments

info	the named list of the parsed documentation
usage	logical: whether to include the usage section in the output (this can be useful when there are multiple functions in a single usage section, but generally it is not necessary because roxygen can generate the usage section automatically)

Value

a character vector

Author(s)

Hadley Wickham; modified by Yihui Xie <https://yihui.org>

Examples

```
rd.file = system.file("examples", "parse_and_save.Rd", package = "Rd2roxygen")
options(roxygen.comment = "##' ")
create_roxygen(parse_file(rd.file))
```

parse_and_save *Parse the input Rd file and save the roxygen documentation into a file*

Description

Parse the input Rd file and save the roxygen documentation into a file

Usage

```
parse_and_save(path, file, usage = FALSE)
```

Arguments

path	the path of the Rd file
file	the path to save the roxygen documentation
usage	logical: whether to include the usage section in the output

Value

a character vector if file is not specified, or write the vector into a file

Author(s)

Hadley Wickham; modified by Yihui Xie <https://yihui.org>

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parse_file *Parse the input Rd file to a list*

Description

This function uses the function parse_Rd in the **tools** package to parse the Rd file.

Usage

```
parse_file(path)
```

Arguments

path	the path of the Rd file

Value

a named list containing the documentation sections as strings

Author(s)

Hadley Wickham; modified by Yihui Xie <https://yihui.org>

Examples

```
rd.file = system.file("examples", "parse_and_save.Rd", package = "Rd2roxygen")
parse_file(rd.file)
```

`Rd2roxygen` *Convert all the Rd files of a package to roxygen comments*

Description

This function takes a package root directory, parses all its Rd files under the man directory and update the corresponding R source code by inserting roxygen documentation in to the R scripts.

Usage

```
Rd2roxygen(pkg, nomatch, usage = FALSE)
```

Arguments

`pkg`	the root directory of the package
`nomatch`	the file name (base name only) to use when an object in the Rd file is not found in any R source files (typically this happens to the data documentation); if not specified, the default will be 'pkg'-package.R
`usage`	logical: whether to include the usage section in the output

Value

NULL (but the process of conversion will be printed on screen)

Note

ESS users may use `options(roxygen.comment = "##' ")` to ensure the generated roxygen comments begin with `"##' "`, which is the default setting in Emacs/ESS.

Re-run this function on a package will remove the previous roxygen comments before functions in R scripts.

Author(s)

Yihui Xie <https://yihui.org>

Examples

```
## a demo package
pkg = system.file("examples", "pkgDemo", package = "Rd2roxygen")
file.copy(pkg, tempdir(), recursive = TRUE)  # copy to temp dir first
od = setwd(tempdir())

## take a look at original R scripts
file.show("pkgDemo/R/foo.R")

options(roxygen.comment = "##' ")

## convert Rd's under man to roxygen comments
```

```
Rd2roxygen(file.path(tempdir(), "pkgDemo"))

file.show("pkgDemo/R/foo.R")  # what happened to foo.R and bar.R?

setwd(od)  # restore working directory
```

`reformat_code` *Format the code in the usage and examples sections*

Description

The function `tidy_source` in the **formatR** package is used to polish the Rd files generated by **roxygen2** in the usage and examples sections.

Usage

```
reformat_code(path, ...)
```

Arguments

`path`	the path of the Rd file
`...`	other arguments passed to `tidy_source`

Value

`NULL`; as a side effect, the original Rd file will be updated

Note

If the usage or examples code is not syntactically correct, it will not be reformatted and a message will be printed on screen. One possible situation is the percent symbol `%`, which should be escaped even in the examples code (cf Writing R Extensions), and this can make the code syntactically incorrect, e.g. `a %in% b` should be `a \%in\% b` but the latter is not valid R code. Anyway, this function will try to unescape the percent symbols before reformating the code, then escape them.

Author(s)

Yihui Xie <https://yihui.org>

See Also

`tidy_source`

Examples

```
rd.file = system.file("examples", "reformat_code_demo.Rd", package = "Rd2roxygen")
file.copy(rd.file, tempdir())
fmt.file = file.path(tempdir(), "reformat_code_demo.Rd")

file.show(fmt.file)  ## show the raw Rd

reformat_code(fmt.file)
file.show(fmt.file)  ## the formatted Rd
```

`roxygen_and_build` *Roxygenize a package, clean up and build/check the package*

Description

After the source package is roxygenized, this function will build the package. Optionally it also installs or checks the package, reformats the code in the example sections. Note `rab` is an alias of `roxygen_and_build`.

Usage

```
roxygen_and_build(
  pkg,
  build = TRUE,
  build.opts = "--no-manual",
  install = FALSE,
  install.opts = if (build) "" else "--with-keep.source",
  check = FALSE,
  check.opts = "--as-cran --no-manual",
  remove.check = TRUE,
  reformat = TRUE,
  before = NULL,
  ...
)

rab(
  pkg,
  build = TRUE,
  build.opts = "--no-manual",
  install = FALSE,
  install.opts = if (build) "" else "--with-keep.source",
  check = FALSE,
  check.opts = "--as-cran --no-manual",
  remove.check = TRUE,
  reformat = TRUE,
  before = NULL,
  ...
)
```

Arguments

pkg	the root directory of the source package
build	whether to build the package
build.opts	options to be passed to R CMD build
install	whether to install the package
install.opts	options to be passed to R CMD INSTALL
check	whether to check the package
check.opts	options to check the package (e.g. "--no-examples")
remove.check	whether to remove the directory generated by R CMD check
reformat	whether to reformat the example code; see reformat_code
before	an R expression to be evaluated under the package root directory before the package is roxygenized and built
...	other arguments passed to roxygenize

Value

NULL

Author(s)

Yihui Xie <https://yihui.org>

Examples

```
## Not run:
roxygen_and_build("Rd2roxygen", install = TRUE)
## or simply
rab("Rd2roxygen", install = TRUE)

## End(Not run)
```

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