Package 'document'

June 14, 2023
Title Run 'roxygen2' on (Chunks of) Single Code Files
Version 4.0.0
Description Have you ever been tempted to create 'roxygen2'-style documentation comments for one of your functions that was not part of one of your packages (yet)? This is exactly what this package is about: running 'roxygen2' on (chunks of) a single code file.
Depends R (>= 3.3.0)
License BSD_2_clause + file LICENSE
<pre>URL https://gitlab.com/fvafrcu/document</pre>
Encoding UTF-8
Imports callr, checkmate, desc, fritools, rcmdcheck, roxygen2, rstudioapi
Suggests knitr, pkgload, rmarkdown, RUnit, testthat
VignetteBuilder knitr
RoxygenNote 7.2.3
NeedsCompilation no
Author Andreas Dominik Cullmann [aut, cre]
Maintainer Andreas Dominik Cullmann <fvafrcu@mailbox.org></fvafrcu@mailbox.org>
Repository CRAN
Date/Publication 2023-06-14 10:42:07 UTC
R topics documented:
document-package document man usage
Index

2 document-package

document-package

Document a Single R Code File

Description

Have you ever been tempted to create **roxygen2**-style documentation comments for one of your functions that was not part of one of your packages (yet)? This is exactly what this package is about: running **roxygen2**::roxygenize on (chunks of) a single code file. This package enables you to

- 1. create function documentation with roxygen2
- 2. detect code/documentation mismatches
- 3. save the documentation to disk
- 4. view the documentation in your interactive R session

You will probably be looking for document and man, the remaining functions are mainly for internal use.

Details

R is a programming language that supports and checks documentation for program libraries (called 'packages'). The package **roxygen2** provides a tool for creating documentation from annotated source code - much like doxygen, javadoc and docstrings/pydoc do.

And R is a free software environment for statistical computing and graphics, used by people like me who start out hacking down code, eventually pouring chunks of code into functions (and sometimes even ending up creating and documenting packages). Along that work flow you cannot use R's documentation system, let alone **roxygen2**, unless you have come to forge your code into a package.

I am fully aware of the fact that **roxygen2** is meant to document packages, not single code chunks. So should you. Nevertheless I feel the temptation to use **roxygen2**-style comments in code chunks that are not part of any package. And to convert them to pdf for better readability.

Warning

This package writes to disk, so **never** run as superuser.

Note

This package is basically a wrapper to

- 1. **roxygen2**. It internally creates a temporary package from the code file provided (using utils::package.skeleton) which it then passes to roxygen2::roxygenize.
- 2. R CMD commands run by callr.

document 3

See Also

docstring (https://cran.r-project.org/package=docstring) also creates temporary help pages as well but using a different technical approach (allowing you to view them in the RStudio help pane). But it creates them from python style docstring-like comments it then parses into **roxy-gen2**. And it does not write to file so far.

document

Document (Chunks of) an R Code File

Description

Document (Chunks of) an R Code File

Usage

```
document(
   file_name,
   working_directory = NULL,
   output_directory = tempdir(),
   dependencies = NULL,
   sanitize_Rd = TRUE,
   runit = FALSE,
   check_package = TRUE,
   check_as_cran = check_package,
   stop_on_check_not_passing = check_package,
   clean = FALSE,
   debug = TRUE,
   ...
)
```

Arguments

```
file_name
                 The name of the R code file to be documented.
working_directory
                  A working directory. Keep the default.
output_directory
                  The directory to put the documentation into. You might want to use dirname(file_name).
dependencies
                  A character vector of package names the functions depend on.
sanitize_Rd
                  Remove strange characters from Rdconv?
                  Convert the text received from the help files if running RUnit? Do not bother,
runit
                  this is for Unit testing only.
                 Run R CMD check the sources? See Note below.
check_package
                 Use the --as-cran flag with R CMD check?
check_as_cran
stop_on_check_not_passing
                  Stop if R CMD check does not pass?
```

4 document

```
clean Delete the working directory?

debug For internal use only: Summarize errors for travis?

Arguments passed to get_lines_between_tags.
```

Value

A list containing

```
pdf_path The path to the pdf file produced,
txt_path The path to the text file produced,
html_path The path to the html file produced,
check_result The return value of rcmdcheck::rcmdcheck()
```

Note

One of the main features of R CMD check is checking for code/documentation mismatches (it behaves pretty much like doxygen). No build system can check whether your documentation is useful, but R CMD check checks if it is formally matching your code. This check is the basic idea behind **document**. The possibility to disable the R CMD check is there to disable CPU consuming checks while testing the package. Stick with the default! And do not forget to export your functions using the line

```
#' @export should you provide examples.
```

Examples

man 5

man

Display a Help Page From a File's Documentation

Description

Display a help-like page from an existing R documentation (*.Rd) file, a topic from a temporary package with options ("document_package_directory") set or a topic from an R code file containing **roxygen2** documentation.

Usage

```
man(x, topic = NA, force_Rd = FALSE)
```

Arguments

Х

One of the following:

- A path to an R documentation (*.Rd) file.
- A path to a code file containing comments for roxygen2.
- A help topic if options("document_package_directory") is set (by document).

topic

A help topic if x is a path to a code file containing comments for roxygen2.

force_Rd

if x is a file's path, then is_Rd_file is used to decide whether the file is an R documentation file and call document otherwise. Set to TRUE to disable this check and force the file to be assumed to be an R documentation file. is_Rd_file may produce false negatives.

Value

Invisibly the status of display_Rd.

Examples

Di

6 usage

usage

Return the Usage of a Function From Within the Function

Description

Get a usage template for a function from within the function. If you encounter misguided usage, you can display the template.

Usage

```
usage(n = -1, usage = FALSE)
```

Arguments

n

A negative integer giving the number of from to frames/environments to go back (passed as which to sys.call). Set to -2 if you want to encapsulate the call to usage into a function (like print or assign) within the function you want to obtain the usage for. Use the <- assignment operator with the default, see examples below.

usage

Give this functions usage (as a usage example ...) and exit?

Value

A character string giving the Usage as help would do.

Examples

```
# usage with assignment operator:
foo <- function(x) {</pre>
    u <- usage()
    message("Usage is: ", u)
}
foo()
# usage without assignment operator:
bar <- function(x) {</pre>
    message(usage(n = -2))
bar()
```

Index

```
* package
     document-package, 2
\mathsf{assign}, \textcolor{red}{6}
dirname, 3
{\tt display\_Rd}, {\color{red} 5}
document, 2, 3, 5
document-package, 2
get_lines_between_tags, 4
help, 5, 6
is_Rd_file, 5
man, 2, 5
print, 6
rcmdcheck::rcmdcheck(), 4
roxygen2::roxygenize, 2
sys.call, 6
usage, 6
utils::package.skeleton,2
```