Package 'document'

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Title Run 'roxygen2' on (Chunks of) Single Code Files
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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.
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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.

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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

```
The name of the R code file to be documented.
file_name
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?
runit
                  Convert the text received from the help files if running RUnit? Do not bother,
                  this is for Unit testing only.
check_package
                 Run R CMD check the sources? See Note below.
                  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?
                 Delete the working directory?
clean
                  For internal use only: Summarize errors for travis?
debug
```

Arguments passed to get_lines_between_tags.

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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

get_dpd

A Convenience Wrapper

Description

Just a wrapper to getOption("document_package_directory")

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Usage

```
get_dpd()
```

Value

```
getOption("document_package_directory")
```

```
get_lines_between_tags
```

Cut Code Chunks From a File

Description

Get all lines between tagged lines. The tagged lines themselves may be in- or excluded from the selection.

Usage

```
get_lines_between_tags(file_name, keep_tagged_lines = TRUE,
  begin_pattern = "ROXYGEN_START", end_pattern = "ROXYGEN_STOP",
  from_first_line = TRUE, to_last_line = TRUE)
```

Arguments

file_name The name of the R code file to be parsed.

keep_tagged_lines

Keep tagged lines output?

begin_pattern A pattern that marks the line beginning a roxygen2 chunk.

end_pattern A pattern that marks the line ending a roxygen2 chunk.

from_first_line

Use first line as tagged line if first tag found matches the end_pattern?

Value

A character vector of matching lines.

Note

If you know the file to contain valid **roxygen2** code only, you do not need to tag any lines if you keep from_first_line and to_last_line both TRUE: in this case the whole file will be returned.

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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

"

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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) {
    u <- usage()
    message("Usage is: ", u)
}
foo()

# usage without assignment operator:
bar <- function(x) {
    message(usage(n = -2))
}
bar()</pre>
```

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