

Package ‘rdoxygen’

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Title Create Doxygen Documentation for Source Code

Version 1.0.0

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Description Create doxygen documentation for source code in R packages.
Includes a RStudio Addin, that allows to trigger the doxygenize process.

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Depends R (>= 3.3.3)

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Encoding UTF-8

LazyData true

URL <https://github.com/nevrome/rdoxygen>

BugReports <https://github.com/nevrome/rdoxygen/issues>

RoxygenNote 6.0.1

Imports devtools (>= 1.12.0)

Suggests testthat

SystemRequirements doxygen

NeedsCompilation yes

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check_for_doxygen	<i>check for doxygen</i>
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Description

helper function to check if doxygen is in the system path

Usage

```
check_for_doxygen()
```

Value

TRUE

c_test	<i>R frontend of the C function bar</i>
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Description

A mask function to test if the dummy C code in src/bar.c works.

Usage

```
c_test(x)
```

Arguments

x a numeric vector

Details

$c_test(x) = x^2$.

Value

a numeric vector x^2

Examples

```
## Not run:  
x <- rnorm(10)  
c_test(x)  
  
## End(Not run)
```

doxy	<i>Calls doxygen for an R package</i>
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Description

Triggers doxygen documentation for the code in src/. Triggers also the setup (with doxy_init()) at the first run.

Usage

```
doxy(doxygen = file.exists("src"), roxygen = FALSE,
     pathToDoxyfile = "./inst/doxygen/Doxyfile")
```

Arguments

doxygen	A boolean: should doxygen be ran on documents in src/? Default: TRUE if a src folder exist and FALSE if not
roxygen	A boolean: should devtools::document() be ran after the creation of the doxygen documentation? Default: FALSE
pathToDoxyfile	A string with the relative path to the Doxyfile. Default: "./inst/doxygen/Doxyfile"

Value

NULL or the value returned by devtools::document()

Examples

```
## Not run:
doxy()

## End(Not run)
```

doxy_edit	<i>Edits an existing Doxyfile</i>
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Description

Changes options in doxygen config files.

Usage

```
doxy_edit(pathToDoxyfile = "./inst/doxygen/Doxyfile", options = c())
```

Arguments

`pathToDoxyfile` A string with the relative path to the Doxyfile. Default: `"/inst/doxygen/Doxyfile"`

`options` A named vector with new settings. The names represent the tags. A list of options can be found here: <https://www.stack.nl/~dimitri/doxygen/manual/config.html>

Examples

```
## Not run:  
doxy_edit(options = c("EXTRACT_PRIVATE" = "YES"))  
  
## End(Not run)
```

<code>doxy_init</code>	<i>Prepares the R package structure for use with doxygen</i>
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Description

Creates a configuration file in `inst/doxygen/` and sets a few options:

- `EXTRACT_ALL = YES`
- `INPUT = src/`
- `OUTPUT_DIRECTORY = inst/doxygen/`

Usage

```
doxy_init(rootFolder = ".")
```

Arguments

`rootFolder` A string with the path to the root directory of the R package. Default: `."`

Examples

```
## Not run:  
doxy_init()  
  
## End(Not run)
```

replace_tag	<i>Updates and adds doxygen options in a line string vector</i>
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Description

Scans the lines and changes the value for the named tag if one line has this tag, adds a line at the end if no line has this tag and returns a warning if several lines match the tag.

Usage

```
replace_tag(fileStrings, tag, newVal)
```

Arguments

fileStrings	A vector with each string containing a line of the file
tag	A string with the tag to be searched for
newVal	A string with the new value for the tag

Value

The vector of strings with the new value

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