

Package: rdoxygen (via r-universe)

September 1, 2024

Title Create Doxygen Documentation for Source Code

Version 2.0.0

Description Create 'doxygen' documentation for source code in R packages, and optionally make it accessible as an R vignette. Includes a 'RStudio' Addin to easily trigger the doxygenize process.

Date 2019-06-06

Depends R (>= 3.3)

License GPL (>=2)

Encoding UTF-8

LazyData true

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

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

RoxxygenNote 6.1.1

Imports tools, utils, rprojroot, desc, yaml, usethis

Suggests testthat, knitr, rmarkdown, pkgbuild

SystemRequirements doxygen

VignetteBuilder knitr

Repository <https://mlysy.r-universe.dev>

RemoteUrl <https://github.com/mlysy/rdoxygen>

RemoteRef HEAD

RemoteSha 90f947d1826886a5290607b86ba76da79c4b6731

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doxy *Calls doxygen for an R package*

Description

Creates doxygen documentation and optionally wraps it as an R vignette.

Usage

```
doxy(pkg = ".", doxyfile = "inst/doxygen/Doxyfile", options = c(),
      vignette = FALSE, verbose = TRUE)
```

Arguments

pkg	A string with the path to any subfolder of the R package root directory. Default: ".".
doxyfile	A string with the path to the Doxyfile relative to the package root folder indicated by pkg. Default: "inst/doxygen/Doxyfile".
options	A named vector with new settings. The names represent the tags. A list of options can be found here: http://www.doxygen.nl/manual/config.html .
vignette	A boolean. Should a vignette be added with doxy_vignette? Default: FALSE.
verbose	Logical. If FALSE, suppresses Doxygen output. Default: TRUE.

Details

This function will first create a Doxyfile with `doxy_init` if it doesn't yet exist. Next, it runs Doxygen on the Doxyfile, and if `vignette = TRUE`, creates a vignette allowing the Doxygen documentation to be viewed from within R with a call to `vignette()`. The Doxygen vignette is created with default options. To modify these options, see `doxy_vignette`.

Value

NULL

doxy_edit *Edits an existing Doxyfile*

Description

Changes options in doxygen config files.

Usage

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

Arguments

pkg	A string with the path to any subfolder of the R package root directory. Default: ".".
doxyfile	A string with the path to the Doxyfile relative to the package root folder indicated by pkg. Default: "inst/doxygen/Doxyfile".
options	A named vector with new settings. The names represent the tags. A list of options can be found here: http://www.doxygen.nl/manual/config.html .

Value

NULL

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

Creates a Doxygen configuration file and sets a few options:

- INPUT = src/ inst/include
- OUTPUT_DIRECTORY = inst/doxygen/
- GENERATE_LATEX = NO
- HIDE_UNDOC_MEMBERS = YES
- USE_MATHJAX = YES
- PROJECT_NAME = name_of_R_package

Usage

```
doxy_init(pkg = ".", doxyfile = "inst/doxygen/Doxyfile",
  verbose = TRUE)
```

Arguments

pkg	A string with the path to any subfolder of the R package root directory. Default: ".".
doxyfile	A string with the path to the Doxyfile relative to the package root folder indicated by pkg. Default: "inst/doxygen/Doxyfile".
verbose	Logical. If FALSE, suppresses Doxygen output. Default: TRUE.

Details

While the package developer is free to change the OUTPUT_DIRECTORY to wherever they like, the default value above is suggested for compatibility with the **devtools** package authoring workflow. See [doxy_vignette](#) for details.

Value

NULL.

Examples

```
## Not run:
doxy_init()

## End(Not run)
```

doxy_vignette	<i>Creates a doxygen vignette</i>
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Description

Creates an R Markdown wrapper for the doxygen documentation, so that it can be viewed from within R with a call to `vignette()`.

Usage

```
doxy_vignette(pkg = ".", index = "html", viname, vientry)
```

Arguments

pkg	A string with the path to any subfolder of the R package root directory. Default: ".".
index	A string with the path relative to <code>inst/doxygen</code> of the doxygen <code>index.html</code> file. Default: <code>html</code> (see Note).
viname	A string giving the name of the <code>.Rmd</code> vignette file wrapping the documentation, as well as the name by which to retrieve the documentation using <code>vignette()</code> . Default: <code>"pkgName-Doxygen.Rmd"</code> .
vientry	A character string specifying the vignette Index Entry to use. Default: <code>"pkg-Name C++ library documentation"</code> .

Details

This function creates the file `vignettes/viname.Rmd` in the package root folder, containing the necessary meta-data for viewing the Doxygen HTML documentation from within R with a call to `vignette()`.

Value

NULL

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