Package ‘roclang’

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Title Functions for Diffusing Function Documentations into 'Roxygen'
Comments

Version 0.1.2

Maintainer Xiurui Zhu <zxr6@163.com>

Description Efficient diffusing of content across function documentations. Sections, parameters or dot parameters are extracted from function documentations and turned into valid Rd character strings, which are ready to diffuse into the 'roxygen' comments of another function by inserting inline code.

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Suggests covr, testthat (>= 3.0.0)

Config/testthat/edition 3

Encoding UTF-8

RoxygenNote 7.1.1

Depends R (>= 4.0.0)

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URL https://github.com/zhuxr11/roclang

BugReports https://github.com/zhuxr11/roclang/issues

NeedsCompilation no

Author Xiurui Zhu [aut, cre]

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Description
The "roclang" package facilitates efficient diffusing of content across function documentations. Sections, parameters or dot parameters are extracted from function documentations and turned into valid Rd character strings, which are ready to diffuse into the 'roxygen' comments of another function by inserting inline code.

Functions

- Text extraction and manipulation function: `extract_roc_text`.
- Rd evaluation and compilation function: `roc_eval_text`.

Note
Change log:
- 0.1.1 Xiurui Zhu - Initiate the document.

Author(s)
Xiurui Zhu

`extract_roc_text`  
Extract a section, parameter or set of dot-parameters from a function documentation

Description
`extract_roc_text` cites sections or parameters from a function documentation in the syntax of @inherit, @inheritSection, @inheritParams or @inheritDotParams tag from roxygen2 package. See details about how to use this function.

Usage
```r
extract_roc_text(
  fun,
  type = c("general", "section", "param", "dot_params"),
  select = NULL,
  capitalize = NA
)
```
extract_roc_text

Arguments

fun Function or character (of length 1L) indicating function name.

type Type of extraction. Please choose one from the following table according to the @tag you would otherwise use if you would like to inherit the section, parameter or set of dot-parameters as a whole:

- @tag you would use
- type you should choose
  - @inherit "general"
  - @inheritSection "section"
  - @inheritParams "param"
  - @inheritDotParams "dot_params"

select Selection of extraction based on type.

- type = "general" Character (of length 1L) indicating the section to extract
- type = "section" Character (of length 1L) indicating the section title to extract
- type = "param" Character (of length 1L) indicating the name of parameter to extract
- type = "dot_params" Character (of length 1L) or character vector to add or remove (with ",") parameters as @inheritDotParams; if character vector provided, the elements are concatenated with spaces just as @inheritDotParams syntax, e.g. "x y" to inherit two parameters, "-z" to remove a parameter or c("-x", "-y") to remove two parameters

capitalize Logical (of length 1L) indicating whether the first letter of the return should be capitalized. Default to capitalize = NA, in which case the first letter of the return is left as is.

Details

To diffuse the function output into roxygen2 comments, one may write the function documentation with inline code like this:

```r
# ' Diffusion of function documentation with inline code
#'
#  @return Same as \code{\link[stats]{lm}}:
#  ' \r extract_roc_text(stats::lm, type = "general", select = "return")'
my_fun <- function() {}
```

or with code block like this:

```r
# ' Diffusion of function documentation with code block
#'
#  @param lm_arg Named list of
#  ' ```
#  #' extract_roc_text(stats::lm,
#  #' type = "dot_params",
```
# extract_roc_text

```r
define_my_function
```

\`
select = c("-formula", "-data"),
capitalize = FALSE)
```

my_fun <- function(lm_arg) {

Value

Character (of length 1L) as a valid Rd character string to diffuse into roxygen2 comments.

Note

Change log:

- 0.1.0 Xiurui Zhu - Initiate the function.
- 0.1.1 Xiurui Zhu - Change the default of capitalize from TRUE to NA.
- 0.1.1 Xiurui Zhu - Improve code security in evaluating the formal arguments of fun.

Author(s)

Xiurui Zhu

Examples

# Inherit a standard section, and leave the first letter as is
```r
cat(extract_roc_text(stats::lm, type = "general", select = "description", capitalize = NA))
```

# Inherit a self-defined section, and capitalize the first letter
```r
cat(extract_roc_text(stats::lm, type = "section", select = "Using time series", capitalize = TRUE))
```

# Inherit a parameter, and diffuse it into text
```r
cat(paste0("Here is the \texttt{\`formula\` argument of \`stats::lm\`, defined as: } ", extract_roc_text(stats::lm, type = "param", select = "formula", capitalize = FALSE))
```

# Inherit a set of dot params, and diffuse it into text
```r
cat(

)
Description

roc_eval_text is an upgraded version of roc_proc_text that evaluates inline and block code before generating Rd.

Usage

roc_eval_text(roclet, input)

Arguments

- **roclet**: Name of roclet to use for processing.
- **input**: Source string

Value

List with names as `fun_name.Rd`, where each element is the RoxyTopic for the corresponding function, same as the return of roc_proc_text.

Note

Change log:

- 0.1.0 Xiurui Zhu - Initiate the function.

Author(s)

Xiurui Zhu

Examples

```r
# Formulate a text version of a function with documentation
fun_text <- 'iris matrix has
\`\`\`(r results="hold")
```
#\' ncol(iris)
#\' ```
#\' columns.
print_iris <- function() iris

# Parse the 'roxygen' comments to Rd documentation
roc_eval_text(roxygen2::rd_roclet(), fun_text)[[1L]]
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