

Package ‘r6methods’

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Type Package

Title Make Methods for R6 Classes

Version 0.1.0

Description Generate boilerplate code for R6 classes. Given R6 class create getters and/or setters for selected class fields or use RStudio addins to insert methods straight into class definition.

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Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

Imports glue, rstudioapi, miniUI, shiny, dplyr, magrittr, stringr,
purrr

Suggests R6, testthat (>= 3.0.0)

Config/testthat/edition 3

URL <https://github.com/jakubsob/r6methods>

BugReports <https://github.com/jakubsob/r6methods/issues>

NeedsCompilation no

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R topics documented:

extract_class	2
find_closing	3
get_cursor_pos	3
insert_methods	4
insert_methods_addin	4

insert_methods_addin_gadget	5
make_gadget	5
make_methods	6
make_methods_addin	7
make_methods_addin_gadget	7
make_method_str	7
source_class	8

Index**9****extract_class***Extract R6 Class***Description**

Extract R6 Class

Usage

```
extract_class(content, start_pos = 1)
```

Arguments

content	Character, content of a file or a string
start_pos	Integer, row position of cursor. Serves as starting point to search for class definition

Value

A list with fields

- class_contentCharacter, extracted class definition
- startInteger, start position of class definition within ‘content’
- endInteger, end position of class definition within ‘content’

<code>find_closing</code>	<i>Find Closing</i>
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Description

Find position of closing character to first encountered opening character

Usage

```
find_closing(text, opening = "\\"(, closing = "\\")")
```

Arguments

<code>text</code>	Character, text to search
<code>opening</code>	Opening character
<code>closing</code>	Closing character

Value

Integer, position of closing character

<code>get_cursor_pos</code>	<i>Get Cursor Position From Active Document</i>
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Description

Get Cursor Position From Active Document

Usage

```
get_cursor_pos(context)
```

Arguments

<code>context</code>	Active document context
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Value

Integer, position of cursor in text

insert_methods*Insert Methods***Description**

Insert Methods

Usage

```
insert_methods(
  content,
  start_pos = 1,
  field = c("all", "public", "private"),
  method = c("both", "get", "set"),
  add_roxygen = TRUE
)
```

Arguments

<code>content</code>	Character, content of the file or a string
<code>start_pos</code>	Integer, position of cursor within ‘content’. Number of characters before the cursor.
<code>field</code>	Character, fields for which to create method. May be "all", "public", "private" or name of class field. Multiple values allowed.
<code>method</code>	Character, methods to create. One of "both", "get", "set"
<code>add_roxygen</code>	Logical, whether to add roxygen description of method

Value

Character, modified content with injected methods

insert_methods_addin *An addin for inserting methods straigth into the source file***Description**

An addin for inserting methods straigth into the source file

Usage`insert_methods_addin()`**Value**

No return value, called for side effects

insert_methods_addin_gadget
Insert methods addin gadget

Description

Insert methods addin gadget

Usage

```
insert_methods_addin_gadget()
```

Value

No return value, called for side effects

make_gadget *Make Gadget*

Description

Create gadget for generating R6 methods. Action after clicking ‘Done’ button is defined by ‘done_fun’.

Usage

```
make_gadget(title, title_bar, done_fun)
```

Arguments

<code>title</code>	Character, title of gadget window
<code>title_bar</code>	Character, gadget title bar
<code>done_fun</code>	Function to be used after clicking ‘Done’ button

Value

Function creating and running a Shiny gadget

make_methods*Make methods***Description**

Make methods

Usage

```
make_methods(
  r6,
  field = c("all", "public", "private", names(r6$public_fields),
            names(r6$private_fields)),
  method = c("both", "get", "set"),
  add_roxygen = TRUE
)
```

Arguments

<code>r6</code>	R6 class for which to create methods
<code>field</code>	Character, fields for which to create method. May be "all", "public", "private" or name of class field. Multiple values allowed.
<code>method</code>	Character, methods to create. One of "both", "get", "set"
<code>add_roxygen</code>	Logical, whether to add roxygen description of method

Value

Character containing generated methods to put into class definition

Examples

```
Example <- R6::R6Class("Example", list(public_field = NULL), list(private_field = NULL))
make_methods(Example)
make_methods(Example, "private", "get")
make_methods(Example, "private_field", c("get", "set"))
make_methods(Example, "public_field", c("both"))
```

`make_methods_addin` *Make Methods Addin*

Description

Make Methods Addin

Usage

```
make_methods_addin()
```

Value

No return value, called for side effects

`make_methods_addin_gadget` *Make methods addin gadget*

Description

Make methods addin gadget

Usage

```
make_methods_addin_gadget()
```

Value

No return value, called for side effects

`make_method_str` *Make method string*

Description

Make method string

Usage

```
make_getter_method_str(field, is_public = TRUE, add_roxygen = TRUE)
```

```
make_setter_method_str(field, is_public = TRUE, add_roxygen = TRUE)
```

Arguments

field	Character name of class field
is_public	Logical, whether the field is in public list
add_roxygen	Logical, whether to add roxygen description of method

Value

Character containing method definition

source_class	<i>Source class</i>
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Description

Sources R6 class from text, prepends namespace to ‘R6Class‘ in order to not require ‘R6‘ to be loaded.

Usage

```
source_class(txt)
```

Arguments

txt	Character, text containing class definition
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Value

R6 class

Index

extract_class, 2
find_closing, 3
get_cursor_pos, 3
insert_methods, 4
insert_methods_addin, 4
insert_methods_addin_gadget, 5
make_gadget, 5
make_getter_method_str
 (make_method_str), 7
make_method_str, 7
make_methods, 6
make_methods_addin, 7
make_methods_addin_gadget, 7
make_setter_method_str
 (make_method_str), 7
source_class, 8