

Package ‘r6methods’

May 9, 2026

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

Author Jakub Sobolewski [aut, cre]

Maintainer Jakub Sobolewski <jakupsob@gmail.com>

Repository CRAN

Date/Publication 2021-03-16 08:30:02 UTC

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extract_class	<i>Extract R6 Class</i>
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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’

find_closing	<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

text	Character, text to search
opening	Opening character
closing	Closing character

Value

Integer, position of closing character

get_cursor_pos	<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

context	Active document context
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Value

Integer, position of cursor in text

insert_methods	<i>Insert Methods</i>
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Description

Insert Methods

Usage

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

Arguments

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

Value

Character, modified content with injected methods

insert_methods_addin	<i>An addin for inserting methods straight into the source file</i>
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Description

An addin for inserting methods straight 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	<i>Make methods</i>
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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

r6	R6 class for which to create methods
field	Character, fields for which to create method. May be "all", "public", "private" or name of class field. Multiple values allowed.
method	Character, methods to create. One of "both", "get", "set"
add_roxygen	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

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