

# 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.

**License** MIT + file LICENSE

**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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**Repository** CRAN

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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’

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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

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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

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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

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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*

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**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**

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

**Value**

Function creating and running a Shiny gadget

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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"))
```

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`make_methods_addin`      *Make Methods Addin*

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**Description**

Make Methods Addin

**Usage**

`make_methods_addin()`

**Value**

No return value, called for side effects

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`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

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`make_method_str`      *Make method string*

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**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

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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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