

# Package ‘spAddins’

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**Type** Package

**Title** A Set of RStudio Addins

**Version** 0.2.0

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**Description** A set of RStudio addins that are designed to be used in combination with user-defined RStudio keyboard shortcuts. These addins either:

- 1) insert text at a cursor position (e.g. insert operators `%>%`, `<<-`, `%$%`, etc.),
- 2) replace symbols in selected pieces of text (e.g., convert backslashes to forward slashes which results in strings like ```c:\data\` converted into ``c:/data/`) or`
- 3) enclose text with special symbols (e.g., converts ```bold` into ``**bold**`) which is convenient for editing R Markdown files.`

**URL** <https://github.com/GegznaV/spAddins>

**BugReports** <https://github.com/GegznaV/spAddins/issues>

**License** MIT + file LICENSE

**LazyData** TRUE

**ByteCompile** TRUE

**Encoding** UTF-8

**RoxygenNote** 6.0.1

**VignetteBuilder** knitr

**Depends** R (>= 3.2)

**Imports** rstudioapi, magrittr, stringr, purrr

**Suggests** knitr, rmarkdown, rebus

**NeedsCompilation** no

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 format\_rmd

*Add-ins for basic R Markdown formatting*


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### Description

RStudio add-ins, which enclose selected text with symbols that have special interpretation in R Markdown. Function, symbols and interpretation

- `rmd_bold()`: between `**` and `**` as bold;
- `rmd_italics()`: between `_` and `_` as italics;
- `rmd_bold_italics()`: between `**_` and `_**` as bold italics;
- `rmd_bold2()`: between `__` and `__` as bold;
- `rmd_italics2()`: between `*` and `*` as italics;
- `rmd_code_inline()`: between back-ticks (`"`) as inline code;
- `rmd_r_code_inline()`: formats text as inline R code to evaluate;
- `rmd_superscript()`: between `^` and `^` as superscript;
- `rmd_subscript()`: between `~` and `~` as subscript;
- `rmd_strikethrough()`: between `~~` and `~~` as strike-through text.

**Usage**

```
rmd_a_bold()
rmd_a_italics()
rmd_a_bold_italics()
rmd_a_bold2()
rmd_a_italics2()
rmd_code_inline()
rmd_code_inline_r()
rmd_a_superscript()
rmd_a_subscript()
rmd_a_strikethrough()
```

**See Also**

Other R Markdown formatting add-ins: [rmd\\_equations](#), [rmd\\_list](#)

---

insert_arrows	<i>Insert arrow (-&gt;, -&gt;&gt;, &lt;-, &lt;&lt;-)</i>
---------------	--

---

**Description**

RStudio add-in to insert either ->, ->>, <- or <<- at the cursor position.

**Usage**

```
rs_insert_arrow_rl()
rs_insert_arrow_rl2()
rs_insert_arrow_lr()
rs_insert_arrow_lr2()
```

**Note**

use hotkeys combination ALT + - to insert <- in RStudio.

## See Also

Assignment operators [assignOps](#).

Other 'Insert at cursor position' addins: [insert\\_symbol\\_sequences](#)

## Examples

```
## Not run:
\donttest{
library(spAddins)

rs_insert_arrow_rl()
## <-

rs_insert_arrow_rl2()
## <<-

rs_insert_arrow_lr()
## ->

rs_insert_arrow_lr2()
## ->>
}

## End(Not run)
```

---

insert\_magrittr\_operators

*Insert %>%, %<>%, %\$% and %T>%*

---

## Description

These add-ins insert operators %>%, %<>%, %\$%, and %T>% at the cursor position. The operators are defined in package **magrittr**.

## Usage

```
rs_insert_pipe()

rs_insert_update_pipe()

rs_insert_exposition_pipe()

rs_insert_tee_pipe()
```

## Note

Operator does not work unless package **magrittr** or equivalent is loaded.

**See Also**

- Forward pipeline operator `%>%`
- Compound assignment pipe operator `%<>%`
- Exposition pipe operator `$$%` and operator `$`
- Tee operator `%T>%`

Other 'Insert at cursor position' add-ins: [rs\\_insert\\_infix\\_R](#), [rs\\_insert\\_infix\\_in](#), [rs\\_insert\\_infix\\_not\\_in](#), [rs\\_insert\\_matrix\\_multiplication](#)

---

insert\_symbol\_sequences

*Insert various lines*

---

**Description**

Use `rs_insert_ss_line()` to insert `-----`;  
`rs_insert_ds_line()` to insert `=====`;  
`rs_insert_dw_line()` to insert `~~~~~` at the cursor position.

**Usage**

```
rs_insert_line_ss(start = rs_get_ind_first_selected_col(), end = 79)
```

```
rs_insert_line_ds(start = rs_get_ind_first_selected_col(), end = 79)
```

```
rs_insert_line_sw(start = rs_get_ind_first_selected_col(), end = 79)
```

**Arguments**

`start` (numeric) The number of column the line begins at.  
`end` (numeric) The number of column the line ends at.

**See Also**

Other 'Insert at cursor position' add-ins: [insert\\_arrows](#)

---

repeat_symbol	<i>Repeat sequence of symbols</i>
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---

**Description**

Repeat sequence of symbols

**Usage**

```
repeat_symbol(text, length.out)
```

**Arguments**

text	(character) The symbol (or sequence of symbols) to be repeated until desired length of string.
length.out	(integer) The length of the sequence.

**Value**

String of defined length.

**Examples**

```
repeat_symbol(".", 10)
repeat_symbol("..+", 10)
```

---

replace_slash	<i>Replace slash</i>
---------------	----------------------

---

**Description**

RStudio add-in to manage various types of slashes. Select a piece of text with a cursor and do the necessary replacement operation in the selected text:

- rs\_replace\_slash\_bs2d single back-slash into double back-slash;
- rs\_replace\_slash\_bd2s double back-slash into single back-slash;
- rs\_replace\_slash\_b2fw back-slash into forward-slash;
- rs\_replace\_slash\_fw2b forward-slash into back-slash.

**Usage**

```
rs_replace_slash_bs2d()
```

```
rs_replace_slash_bd2s()
```

```
rs_replace_slash_b2fw()
```

```
rs_replace_slash_fw2b()
```

---

rmd_code_block	<i>Convert rows into the block of code</i>
----------------	--

---

**Description**

RStudio add-in to insert selected lines into code block:

- `rmd_r_code_block()` - R code block;
- `rmd_code_block()` - verbatim code block.

`rs_enclose_all_with_lines` - function that adds lines above and below the selection.

**Usage**

```
rmd_code_block_r()
```

```
rmd_code_block()
```

---

rmd_equations	<i>Format as LaTeX equation</i>
---------------	---------------------------------

---

**Description**

Select a piece of text with a cursor and call these functions as an add-in to enclose the text with special symbols. Text between `$. $` is interpreted as an inline equation and between `$$.$$` or `\[. \]` as a block equation in R Markdown.

**Usage**

```
rmd_equation_inline()
```

```
rmd_equation_block()
```

```
rmd_equation_block2()
```

**See Also**

Other R Markdown formatting add-ins: [format\\_rmd](#), [rmd\\_list](#)

---

`rmd_headings`*Format text as R Markdown headings*

---

**Description**

RStudio add-ins to format text as R Markdown headings.

**Usage**`rmd_b_heading_1()``rmd_b_heading_2()``rmd_b_heading_3()``rmd_b_heading_4()``rmd_b_heading_5()``rmd_b_heading_6()``rmd_b_heading_1_title()``rmd_b_heading_2_subtitle()`

---

`rmd_list`*Format text as R Markdown list*

---

**Description**

RStudio add-ins which convert text into R Markdown lists. For the first-level lists:

- `rmd_list()` - the main function, that make lists;
- `rmd_unordered_list()` - unordered list;
- `rmd_numbered_list()` - numbered list;
- `rmd_lettered_list()` - lettered list (non-capital English letters);
- `rmd_master_list()` - master list (which numbering continues throughout the document).

**Usage**

```
rmd_list(type = "unordered", level = 1)

rmd_list_unordered()

rmd_list_unordered_2()

rmd_list_numbered()

rmd_list_numbered_2()

rmd_list_lettered()

rmd_list_lettered_2()

rmd_master_list()
```

**Arguments**

type	(character) the type of list "unordered", "numbered", "lettered", "LETTERED", "master".
level	(integer) the level of list.

**See Also**

Other R Markdown formatting add-ins: [format\\_rmd](#), [rmd\\_equations](#)

---

```
rs_enclose_all_with_lines
Enclose selection with lines
```

---

**Description**

Enclose selected rows with lines above and below:

- `rs_enclose_all_with_lines()` - all selected rows;
- `rs_enclose_first_row_with_lines()` - the first selected row only.

**Usage**

```
rs_enclose_all_with_lines(above = NA, below = NA)

rs_enclose_first_row_with_lines(above = NA, below = NA)
```

**Arguments**

above	(character) Text to be inserted in the row above the selection.
below	(character) Text to be inserted in the row below the selection (or the first row).

---

rs\_enclose\_selection\_with

*Enclose selection of text with indicated symbols*

---

**Description**

Enclose selection of text with indicated symbols

**Usage**

```
rs_enclose_selection_with(symbol = "", symbol_before = symbol,  
    symbol_after = symbol)
```

**Arguments**

symbol (character) A sequence of symbols to add on both sides of selection.  
symbol\_before (character) A sequence of symbols to before the selection (overrides value of symbol).  
symbol\_after (character) A sequence of symbols to add after the selection (overrides value of symbol).

---

rs\_get\_ind\_first\_selected\_col

*Get index of the first column in the selection*

---

**Description**

Get index of the first column in the selection

**Usage**

```
rs_get_ind_first_selected_col()
```

---

rs\_get\_ind\_first\_selected\_row

*Get index of the first row in the selection*

---

**Description**

Get index of the first row in the selection

**Usage**

```
rs_get_ind_first_selected_row()
```

---

`rs_insert_at_row_start`*Insert text at the beginning of the row*

---

**Description**

Insert text at the beginning of the row

**Usage**

```
rs_insert_at_row_start(row, text = NULL)
```

**Arguments**

<code>row</code>	(integer) The index of the row.
<code>text</code>	(character) The text to add.

---

`rs_insert_infix_in`     *Insert %in%*

---

**Description**

Call this function as an add-in to insert %in% at the cursor position.

**Usage**

```
rs_insert_infix_in()
```

**See Also**

Operator [%in%](#).

Other 'Insert at cursor position' add-ins: [insert\\_magrittr\\_operators](#), [rs\\_insert\\_infix\\_R](#), [rs\\_insert\\_infix\\_not\\_in](#), [rs\\_insert\\_matrix\\_multiplication](#)

---

rs\_insert\_infix\_not\_in  
*Insert %!in%*

---

**Description**

Call this function as an add-in to insert %!in% at the cursor position.

**Usage**

rs\_insert\_infix\_not\_in()

**Note**

Operator does not work unless a package which contains this operator is loaded.

**See Also**

Operator %in%.

Other 'Insert at cursor position' add-ins: [insert\\_magrittr\\_operators](#), [rs\\_insert\\_infix\\_R](#), [rs\\_insert\\_infix\\_in](#), [rs\\_insert\\_matrix\\_multiplication](#)

---

rs\_insert\_infix\_R      *Insert %R%*

---

**Description**

Call this function as an add-in to insert %R% at the cursor position.

**Usage**

rs\_insert\_infix\_R()

**Note**

Operator does not work unless library which contains this operator is loaded.

**See Also**

Operator %R% in **rebus**.

Other 'Insert at cursor position' add-ins: [insert\\_magrittr\\_operators](#), [rs\\_insert\\_infix\\_in](#), [rs\\_insert\\_infix\\_not\\_in](#), [rs\\_insert\\_matrix\\_multiplication](#)

---

rs\_insert\_matrix\_multiplication  
*Insert %\*%*

---

**Description**

Call this function as an add-in to insert %\*% at the cursor position.

**Usage**

```
rs_insert_matrix_multiplication()
```

**See Also**

Operator %\*% for matrix multiplication.

Other 'Insert at cursor position' add-ins: [insert\\_magrittr\\_operators](#), [rs\\_insert\\_infix\\_R](#), [rs\\_insert\\_infix\\_in](#), [rs\\_insert\\_infix\\_not\\_in](#)

---

rs\_insert\_symbol\_seq *Insert a sequence of symbols*

---

**Description**

Insert a sequence of symbols

**Usage**

```
rs_insert_symbol_seq(symbol, start_column = 1, end_column = 80)
```

**Arguments**

symbol	(character) A sequence of symbols to be repeated
start_column	(integer) Column position where the sequence begins.
end_column	(integer) Column position where the sequence stops.

rs\_replace\_in\_selection  
*Replace text in selection*

---

**Description**

Replace text in selection

**Usage**

```
rs_replace_in_selection(pattern, replacement)
```

**Arguments**

pattern (character) A fixed pattern of text to be replaced (not a regular expression).  
replacement (character) The replacement text.

---

spAddins *A Set of RStudio Add-ins*

---

**Description**

spAddins provides a set of RStudio add-ins that are designed to be used in combination with user-defined RStudio keyboard shortcuts. These add-ins either insert text at the cursor position (e.g. insert operators `%>%`, `<<-`, `$$`, etc.), replace symbols in selected pieces of text, e.g., convert backslashes to forward-slashes or enclose text with special symbols (e.g., converts "bold" into `***bold**`) which is convenient for editing R Markdown files.

License: MIT

URL: <https://github.com/GegznaV/spAddins>

Bug reports and suggestions: <https://github.com/GegznaV/spAddins/issues>

Author: Vilmantas Gegzna

**See Also**

Use the links below to learn more about RStudio add-ins and especially how to use them in combination with user-defined keyboard shortcuts:

1. [RStudio add-ins](#);
2. [Keyboard shortcuts](#);
3. [Customizing keyboard shortcuts](#).

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