# Package 'xpectr'

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Title Generates Expectations for 'testthat' Unit Testing
Version 0.1.1
<b>Description</b> Helps systematize and ease the process of building unit tests with the 'testthat' package by providing tools for generating expectations.
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<pre>URL https://github.com/ludvigolsen/xpectr</pre>
<pre>BugReports https://github.com/ludvigolsen/xpectr/issues</pre>
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assertCollectionAddin

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 ${\tt assertCollectionAddin} \ \ \textit{Inserts code for a checkmate assert collection}$ 

# Description

RStudio Addin: Inserts code for initializing and reporting a checkmate assert collection. See Details for how to set a key command.

# Usage

```
assertCollectionAddin(add_comments = TRUE)
```

# Arguments

add\_comments Whether to add comments around. (Logical)

This makes it easy for a user to create their own addin without the comments.

# **Details**

# How to set up a key command in RStudio:

After installing the package. Go to:

Tools >> Addins >> Browse Addins >> Keyboard Shortcuts.

Find "dput() Selected" and press its field under Shortcut.

Press desired key command, e.g. Alt+C.

Press Apply.

Press Execute.

#### Value

```
Inserts the following (excluding the ----):
----
# Check arguments ####
assert_collection <-checkmate::makeAssertCollection()
# checkmate::assert_ ,add = assert_collection)
checkmate::reportAssertions(assert_collection)
# End of argument checks ####
----
Returns NULL invisibly.</pre>
```

#### Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

#### See Also

Other addins: dputSelectedAddin(), insertExpectationsAddin(), wrapStringAddin()

```
capture_parse_eval_side_effects

Capture side effects from parse eval
```

# **Description**

Wraps string in capture\_side\_effects() before parsing and evaluating it. The side effects (error, warnings, messages) are returned in a list.

When capturing an error, no other side effects are captured.

# Usage

```
capture_parse_eval_side_effects(string, envir = NULL)
```

# **Arguments**

string String of code that can be parsed and evaluated in envir.

envir Environment to evaluate in. Defaults to parent.frame().

#### Value

Named list with the side effects.

# Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

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#### **Examples**

```
# Attach package
library(xpectr)

capture_parse_eval_side_effects("stop('hi!')")
capture_parse_eval_side_effects("warning('hi!')")
capture_parse_eval_side_effects("message('hi!')")
```

# **Description**

Captures errors, warnings, and messages from an expression.

In case of an error, no other side effects are captured.

Simple wrapper for testthat's capture\_error(), capture\_warnings() and capture\_messages().

Note: Evaluates expr up to three times.

#### Usage

```
capture_side_effects(expr, envir = NULL, reset_seed = FALSE)
```

# **Arguments**

expr Expression.

envir Environment to evaluate expression in.

reset\_seed Whether to reset the random state on exit. (Logical)

#### Value

Named list with the side effects.

#### Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

```
# Attach packages
library(xpectr)

fn <- function(raise = FALSE){
   message("Hi! I'm Kevin, your favorite message!")
   warning("G'Day Mam! I'm a warning to the world!")
   message("Kevin is ma name! Yesss!")
   warning("Hopefully the whole world will see me :o")
   if (isTRUE(raise)){
     stop("Lord Evil Error has arrived! Yeehaaa")
   }</pre>
```

dputSelectedAddin 5

```
"the output"
}
capture_side_effects(fn())
capture_side_effects(fn(raise = TRUE))
```

dputSelectedAddin

Replaces selected code with its dput() output

#### **Description**

RStudio Addin: Runs dput() on the selected code and inserts it instead of the selection. See Details for how to set a key command.

# Usage

```
dputSelectedAddin(selection = NULL, insert = TRUE, indentation = 0)
```

# **Arguments**

selection String of code. (Character)

E.g. "stop('This gives an expect\_error test')".

**N.B.** Mainly intended for testing the addin programmatically.

insert Whether to insert the expectations via rstudioapi::insertText() or return

them. (Logical)

**N.B.** Mainly intended for testing the addin programmatically.

indentation Indentation of the selection. (Numeric)

**N.B.** Mainly intended for testing the addin programmatically.

# **Details**

**How:** Parses and evaluates the selected code string, applies dput() and inserts the output instead of the selection.

# How to set up a key command in RStudio:

After installing the package. Go to:

Tools >> Addins >> Browse Addins >> Keyboard Shortcuts.

Find "dput() Selected" and press its field under Shortcut.

Press desired key command, e.g. Alt+D.

Press Apply.

Press Execute.

# Value

Inserts the output of running dput() on the selected code.

Does not return anything.

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#### Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

#### See Also

Other addins: assertCollectionAddin(), insertExpectationsAddin(), wrapStringAddin()

element\_classes

Gets the class of each element

# Description

# **Experimental**

Applies class() to each element of x (without recursion).

#### Usage

```
element_classes(x, keep_names = FALSE)
```

# **Arguments**

x List with elements.

keep\_names Whether to keep names. (Logical)

#### **Details**

Simple wrapper for unlist(lapply(x, class)).

#### Value

The class of each element.

# Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

#### See Also

Other element descriptors: element\_lengths(), element\_types(), num\_total\_elements()

```
# Attach packages
library(xpectr)

l <- list("a" = c(1,2,3), "b" = "a", "c" = NULL)
element_classes(l)
element_classes(l, keep_names = TRUE)</pre>
```

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element\_lengths

Gets the length of each element

# **Description**

# **Experimental**

Applies length() to each element of x (without recursion).

# Usage

```
element_lengths(x, keep_names = FALSE)
```

# Arguments

x List with elements.

keep\_names Whether to keep names. (Logical)

# **Details**

Simple wrapper for unlist(lapply(x, length)).

# Value

The length of each element.

# Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

# See Also

Other element descriptors: element\_classes(), element\_types(), num\_total\_elements()

```
# Attach packages
library(xpectr)

1 <- list("a" = c(1,2,3), "b" = 1, "c" = NULL)
element_lengths(l)
element_lengths(l, keep_names = TRUE)</pre>
```

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element\_types

Gets the type of each element

# Description

# **Experimental**

Applies typeof() to each element of x (without recursion).

# Usage

```
element_types(x, keep_names = FALSE)
```

# Arguments

x List with elements.

keep\_names Whether to keep names. (Logical)

# **Details**

Simple wrapper for unlist(lapply(x, typeof)).

# Value

The type of each element.

# Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

# See Also

Other element descriptors: element\_classes(), element\_lengths(), num\_total\_elements()

```
# Attach packages
library(xpectr)

1 <- list("a" = c(1,2,3), "b" = "a", "c" = NULL)
element_types(1)
element_types(1, keep_names = TRUE)</pre>
```

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gxs\_function

Generate testhat expectations for argument values in a function

#### **Description**

# **Experimental**

Based on a set of supplied values for each function argument, a set of testthat expect\_\* statements are generated.

**Included tests**: The first value supplied for an argument is considered the *valid baseline* value. For each argument, we create tests for each of the supplied values, where the other arguments have their baseline value.

See supported objects in details.

#### Usage

```
gxs_function(
  fn,
  args_values,
  check_nulls = TRUE,
  indentation = 0,
  tolerance = "1e-4",
  round_to_tolerance = TRUE,
  strip = TRUE,
  sample_n = 30,
  envir = NULL,
  assign_output = TRUE,
  seed = 42,
  add_wrapper_comments = TRUE,
  add_test_comments = TRUE,
  start_with_newline = TRUE,
  end_with_newline = TRUE,
  out = "insert"
)
```

# **Arguments**

fn

Function to create tests for.

args\_values

The arguments and the values to create tests for. Should be supplied as a named list of lists, like the following:

```
args_values = list("x1" = list(1,2,3), "x2" = list("a", "b", "c"))
```

The first value for each argument (referred to as the 'baseline' value) should be valid (not throw an error/message/warning). **N.B.** This is not checked but should lead to more meaningful tests.

**N.B.** Please define the list directly in the function call. This is currently necessary.

check\_nulls

Whether to try all arguments with NULL. (Logical)

When enabled, you don't need to add NULL to your args\_values, unless it should be the baseline value.

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indentation Indentation of the selection. (Numeric) The tolerance for numeric tests as a string, like "1e-4". (Character) tolerance round\_to\_tolerance Whether to round numeric elements to the specified tolerance. (Logical) This is currently applied to numeric columns and vectors (excluding some lists). strip Whether to insert strip\_msg() and strip() in tests of side effects. (Logical) Sometimes testthat tests have differences in punctuation and newlines on different systems. By stripping both the error message and the expected message of non-alphanumeric symbols, we can avoid such failed tests. sample\_n The number of elements/rows to sample. Set to NULL to avoid sampling. Inserts smpl() in the generated tests when sampling was used. A seed is set internally, setting sample.kind as "Rounding" to ensure compatibility with R versions < 3.6.0. The order of the elements/rows is kept intact. No replacement is used, why no oversampling will take place. When testing a big data frame, sampling the rows can help keep the test files somewhat readable. Environment to evaluate in. envir assign\_output Whether to assign the output of a function call or long selection to a variable. This will avoid recalling the function and decrease cluttering. (Logical) Heuristic: when the selection isn't of a string and contains a parenthesis, it is considered a function call. A selection with more than 30 characters will be assigned as well. The tests themselves can be more difficult to interpret, as you will have to look at the assignment to see the object that is being tested. seed Seed to set. (Whole number) add\_wrapper\_comments Whether to add intro and outro comments. (Logical) add\_test\_comments Whether to add comments for each test. (Logical) start\_with\_newline Whether to have a newline in the beginning/end. (Logical) end\_with\_newline Whether to have a newline in the beginning/end. (Logical) Either "insert" or "return". out "insert" (Default): Inserts the expectations via rstudioapi::insertText(). "return": Returns the expectations in a list. These can be prepared for insertion with prepare\_insertion().

# **Details**

The following "types" are currently supported or intended to be supported in the future. Please suggest more types and tests in a GitHub issue!

Note: A set of fallback tests will be generated for unsupported objects.

Type	Supported	Notes
Side effects	Yes	Errors, warnings, and messages.
Vector	Yes	Lists are treated differently, depending on their structure.

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	Yes	Factor
List columns (like nested tibbles) are currently skipped.	Yes	Data Frame
Supported but could be improved.	Yes	Matrix
	Yes	Formula
	Yes	Function
	Yes	NULL
	No	Array
Base and lubridate.	No	Dates
This may be a challenge, but would be cool!	No	ggplot2

#### Value

Either NULL or the unprepared expectations as a character vector.

# Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

# See Also

Other expectation generators: gxs\_selection(), insertExpectationsAddin()

# **Examples**

 ${\tt gxs\_selection}$ 

Generate testhat expectations from selection

# Description

# **Experimental**

Based on the selection (string of code), a set of testthat expect\_\* statements are generated.

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Example: If the selected code is the name of a data frame object, it will create an expect\_equal test for each column, along with a test of the column names, types and classes, dimensions, grouping keys, etc.

See supported objects in details.

Feel free to suggest useful tests etc. in a GitHub issue!

Addin: insertExpectationsAddin()

#### Usage

```
gxs_selection(
  selection,
  indentation = 0,
  tolerance = "1e-4",
  round_to_tolerance = TRUE,
  strip = TRUE,
  sample_n = 30,
  envir = NULL,
  assign_output = TRUE,
  seed = 42,
  test_id = NULL,
  add_wrapper_comments = TRUE,
  add_test_comments = TRUE,
  start_with_newline = TRUE,
  end_with_newline = TRUE,
  out = "insert"
)
```

# **Arguments**

selection String of code. (Character)

E.g. "stop('This gives an expect\_error test')".

indentation Indentation of the selection. (Numeric)

tolerance The tolerance for numeric tests as a string, like "1e-4". (Character)

round\_to\_tolerance

Whether to round numeric elements to the specified tolerance. (Logical)

This is currently applied to numeric columns and vectors (excluding some lists).

strip Whether to insert strip\_msg() and strip() in tests of side effects. (Logical)

Sometimes testthat tests have differences in punctuation and newlines on different systems. By stripping both the error message and the expected message of

non-alphanumeric symbols, we can avoid such failed tests.

sample\_n The number of elements/rows to sample. Set to NULL to avoid sampling.

Inserts smpl() in the generated tests when sampling was used. A seed is set internally, setting sample.kind as "Rounding" to ensure compatibility with R

versions < 3.6.0.

The order of the elements/rows is kept intact. No replacement is used, why no oversampling will take place.

When testing a big data frame, sampling the rows can help keep the test files

somewhat readable.

envir Environment to evaluate in.

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assign\_output Whether to assign the output of a function call or long selection to a variable.

This will avoid recalling the function and decrease cluttering. (Logical)

Heuristic: when the selection isn't of a string and contains a parenthesis, it is considered a function call. A selection with more than 30 characters will be

assigned as well.

The tests themselves can be more difficult to interpret, as you will have to look

at the assignment to see the object that is being tested.

seed Seed to set. (Whole number)

test\_id Number to append to assignment names. (Whole number)

For instance used to create the "output" name: output\_<test\_id>.

add\_wrapper\_comments

Whether to add intro and outro comments. (Logical)

add\_test\_comments

Whether to add comments for each test. (Logical)

start\_with\_newline, end\_with\_newline

Whether to have a newline in the beginning/end. (Logical)

out Either "insert" or "return".

"insert" (Default): Inserts the expectations via rstudioapi::insertText().

"return": Returns the expectations in a list.

These can be prepared for insertion with prepare\_insertion().

#### **Details**

The following "types" are currently supported or intended to be supported in the future. Please suggest more types and tests in a GitHub issue!

Note: A set of fallback tests will be generated for unsupported objects.

Type	Supported	Notes
Side effects	Yes	Errors, warnings, and messages.
Vector	Yes	Lists are treated differently, depending on their structure.
Factor	Yes	
Data Frame	Yes	List columns (like nested tibbles) are currently skipped.
Matrix	Yes	Supported but could be improved.
Formula	Yes	
Function	Yes	
NULL	Yes	
Array	No	
Dates	No	Base and lubridate.
ggplot2	No	This may be a challenge, but would be cool!

# Value

Either NULL or the unprepared expectations as a character vector.

#### Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

#### See Also

Other expectation generators: gxs\_function(), insertExpectationsAddin()

#### **Examples**

insertExpectationsAddin

Creates testthat tests for selected code

#### **Description**

Inserts relevant expect\_\* tests based on the evaluation of the selected code.

Example: If the selected code is the name of a data frame object, it will create an expect\_equal test for each column, along with a test of the column names.

Currently supports side effects (error, warnings, messages), data frames, and vectors.

List columns in data frames (like nested tibbles) are currently skipped.

See Details for how to set a key command.

#### Usage

```
insertExpectationsAddin(selection = NULL, insert = TRUE, indentation = 0)
```

# **Arguments**

selection	String of code. (Character)
	E.g. "stop('This gives an expect_error test')".
	<b>N.B.</b> Mainly intended for testing the addin programmatically.
insert	Whether to insert the expectations via rstudioapi::insertText() or return them. (Logical)
	<b>N.B.</b> Mainly intended for testing the addin programmatically.
indentation	Indentation of the selection. (Numeric)
	<b>N.B.</b> Mainly intended for testing the addin programmatically.

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#### **Details**

**How:** Parses and evaluates the selected code string within the parent environment. Depending on the output, it creates a set of unit tests (like expect\_equal(data[["column"]],c(1,2,3))), and inserts them instead of the selection.

# How to set up a key command in RStudio:

After installing the package. Go to:

Tools >> Addins >> Browse Addins >> Keyboard Shortcuts.

Find "Insert Expectations" and press its field under Shortcut.

Press desired key command, e.g. Alt+E.

Press Apply.

Press Execute.

#### Value

```
Inserts testthat::expect_* unit tests for the selected code.

Returns NULL invisibly.
```

#### Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

#### See Also

```
Other expectation generators: gxs_function(), gxs_selection()
Other addins: assertCollectionAddin(), dputSelectedAddin(), wrapStringAddin()
```

num\_total\_elements

Total number of elements

# **Description**

#### **Experimental**

Unlists x recursively and finds the total number of elements.

# Usage

```
num_total_elements(x, deduplicated = FALSE)
```

#### **Arguments**

x List with elements.

deduplicated Whether to only count the unique elements. (Logical)

# Details

```
Simple wrapper for length(unlist(x,recursive = TRUE, use.names = FALSE)).
```

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#### Value

The total number of elements in x.

#### Author(s)

```
Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>
```

# See Also

```
Other element descriptors: element_classes(), element_lengths(), element_types()
```

# **Examples**

prepare\_insertion

Prepare expectations for insertion

# Description

# **Experimental**

Collapses a list/vector of expectation strings and adds the specified indentation.

# Usage

```
prepare_insertion(
   strings,
   indentation = 0,
   trim_left = FALSE,
   trim_right = FALSE
)
```

# Arguments

strings	Expectation strings. (List or Character)
	As returned with gxs_* functions with out = "return".
indentation	Indentation to add. (Numeric)
trim_left	Whether to trim whitespaces from the beginning of the collapsed string. (Logical)
trim_right	Whether to trim whitespaces from the end of the collapsed string. (Logical)

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#### Value

A string for insertion with rstudioapi::insertText().

#### Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

#### **Examples**

set\_test\_seed

Set random seed for unit tests

# **Description**

# **Experimental**

In order for tests to be compatible with R versions < 3.6.0, we set the sample.kind argument in set.seed() to "Rounding" when using R versions >= 3.6.0.

#### Usage

```
set_test_seed(seed = 42, ...)
```

#### **Arguments**

seed Random seed.
... Named arguments to set.seed().

#### **Details**

Initially contributed by R. Mark Sharp (github: @rmsharp).

# Value

NULL.

#### Author(s)

```
Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>
R. Mark Sharp
```

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simplified\_formals

Extract and simplify a function's formal arguments

# Description

# **Experimental**

Extracts formals and formats them as an easily testable character vector.

# Usage

```
simplified_formals(fn)
```

# **Arguments**

fn

Function.

# Value

A character vector with the simplified formals.

# Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

# **Examples**

```
# Attach packages
library(xpectr)

fn1 <- function(a = "x", b = NULL, c = NA, d){
  paste0(a, b, c, d)
}
simplified_formals(fn1)</pre>
```

smpl

Random sampling

# **Description**

#### **Experimental**

Sample a vector, factor or data frame. Useful to reduce size of testthat expect\_\* tests. Not intended for other purposes.

Wraps sample.int(). Data frames are sampled row-wise.

The seed is set within the function with sample.kind as "Rounding" for compatibility with R versions < 3.6.0. On exit, the random state is restored.

#### Usage

```
smpl(data, n, keep_order = TRUE, seed = 42)
```

stop\_if

#### **Arguments**

data Vector or data frame. (Logical)

n Number of elements/rows to sample.

**N.B.** No replacement is used, why n > the number of elements/rows in data

won't perform oversampling.

keep\_order Whether to keep the order of the elements. (Logical)

seed Seed to use.

The seed is set with sample.kind = "Rounding" for compatibility with R ver-

sions < 3.6.0.

#### Value

When data has <=n elements, data is returned. Otherwise, data is sampled and returned.

# Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

#### **Examples**

```
# Attach packages library(xpectr) smpl(c(1,2,3,4,5),\ n=3) \\ smpl(data.frame("a"=c(1,2,3,4,5),\ "b"=c(2,3,4,5,6),\ stringsAsFactors=FALSE),\ n=3)
```

stop\_if

Simple side effect functions

# **Description**

# **Experimental**

If the condition is TRUE, generate error/warning/message with the supplied message.

# Usage

```
stop_if(condition, message = NULL, sys.parent.n = 0L)
warn_if(condition, message = NULL, sys.parent.n = 0L)
message_if(condition, message = NULL, sys.parent.n = 0L)
```

#### **Arguments**

condition The condition to check. (Logical)

message Message. (Character)

Note: If NULL, the condition will be used as message.

sys.parent.n The number of generations to go back when calling message function.

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#### **Details**

stop\_if(): Throws error with the supplied message.

warn\_if(): Throws warning with the supplied message.

message\_if(): Generates message with the supplied message.

#### Value

Returns NULL invisibly.

#### Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

# **Examples**

```
# Attach packages
library(xpectr)

a <- 0
stop_if(a == 0, "'a' cannot be 0.")
warn_if(a == 0, "'a' was 0.")
message_if(a == 0, "'a' was so kind to be 0.")</pre>
```

strip

Strips strings of non-alphanumeric characters

# **Description**

# **Experimental**

- 1. Removes any character that is not alphanumeric or a space.
- 2. (Disabled by default): Remove numbers.
- 3. Reduces multiple consecutive whitespaces to a single whitespace and trims ends.

Can for instance be used to simplify error messages before checking them.

# Usage

```
strip(
  strings,
  replacement = "",
  remove_spaces = FALSE,
  remove_numbers = FALSE,
  allow_na = TRUE
)
```

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#### **Arguments**

```
strings Vector of strings. (Character)
replacement What to replace blocks of punctuation with. (Character)
remove_spaces Whether to remove all whitespaces. (Logical)
remove_numbers Whether to remove all numbers. (Logical)
allow_na Whether to allow strings to contain NAs. (Logical)
```

#### **Details**

```
    gsub("[^[:alnum:][:blank:]]",replacement,strings))
    gsub('[0-9]+','',strings) (Note: only if specified!)
    trimws(gsub("[[:blank:]]+"," ",strings)) (Or "" if remove_spaces is TRUE)
```

#### Value

The stripped strings.

#### Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

#### See Also

```
Other strippers: strip_msg()
```

# **Examples**

```
# Attach packages
library(xpectr)

strings <- c(
   "Hello! I am George. \n\rDon't call me Frank! 123",
   " \tAs that, is, not, my, name!"
)

strip(strings)
strip(strings, remove_spaces = TRUE)
strip(strings, remove_numbers = TRUE)</pre>
```

strip\_msg

Strips messages of non-alphanumeric characters and rethrows them

# **Description**

#### **Experimental**

Catches side effects (error, warnings, messages), strips the message strings of non-alphanumeric characters with strip() and regenerates them.

When numbers in error messages vary slightly between systems (and this variation isn't important to catch), we can strip the numbers as well.

Use case: Sometimes testthat tests have differences in punctuation and newlines on different systems. By stripping both the error message and the expected message (with strip()), we can avoid such failed tests.

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#### Usage

```
strip_msg(x, remove_spaces = FALSE, remove_numbers = FALSE)
```

#### **Arguments**

```
x Code that potentially throws warnings, messages, or an error.remove_spaces Whether to remove all whitespaces. (Logical)remove_numbers Whether to remove all numbers. (Logical)
```

#### Value

Returns NULL invisibly.

#### Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

#### See Also

```
Other strippers: strip()
```

# **Examples**

suppress\_mw

Suppress warnings and messages

# Description

#### **Experimental**

Run expression wrapped in both suppressMessages() and suppressWarnings().

#### Usage

```
suppress_mw(expr)
```

wrapStringAddin 23

# **Arguments**

expr

Any expression to run within suppressMessages() and suppressWarnings().

#### **Details**

```
suppressWarnings(suppressMessages(expr))
```

# Value

The output of expr.

# Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

# **Examples**

```
# Attach packages
library(xpectr)

fn <- function(a, b){
   warning("a warning")
   message("a message")
   a + b
}

suppress_mw(fn(1, 5))</pre>
```

wrapStringAddin

Wraps the selection with paste0

# Description

Splits the selection every n characters and inserts it in a paste0() call. See Details for how to set a key command.

# Usage

```
wrapStringAddin(
  selection = NULL,
  indentation = 0,
  every_n = NULL,
  tolerance = 10,
  insert = TRUE
)
```

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#### **Arguments**

selection String of code. (Character)

**N.B.** Mainly intended for testing the addin programmatically.

indentation Indentation of the selection. (Numeric)

**N.B.** Mainly intended for testing the addin programmatically.

every\_n Number of characters per split.

If NULL, the following is used to calculate the string width:

max(min(80 -indentation,70),50)

**N.B.** Strings shorter than every\_n + tolerance will not be wrapped.

tolerance Tolerance. Number of characters.

We may prefer not to split a string that's only a few characters too long. Strings

shorter than every\_n + tolerance will not be wrapped.

insert Whether to insert the wrapped text via rstudioapi::insertText() or return

it. (Logical)

**N.B.** Mainly intended for testing the addin programmatically.

#### **Details**

#### How to set up a key command in RStudio:

After installing the package. Go to:

Tools >> Addins >> Browse Addins >> Keyboard Shortcuts.

Find "Insert Expectations" and press its field under Shortcut.

Press desired key command, e.g. Alt+P.

Press Apply.

Press Execute.

#### Value

Inserts the following (with newlines and correct indentation):

paste0("first n chars", "next n chars")

Returns NULL invisibly.

# Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

## See Also

Other addins: assertCollectionAddin(), dputSelectedAddin(), insertExpectationsAddin()

xpectr

xpectr: A package for generating tests for testthat unit testing

# **Description**

A set of utilities and RStudio addins for generating tests.

# Author(s)

Ludvig Renbo Olsen, <r-pkgs@ludvigolsen.dk>

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