Package 'wrappr'

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Title A Collection of Helper and Wrapper Functions

Version 0.1.0

Description Helper functions to easily add functionality to functions. The package can assign functions to have an lazy evaluation allowing you to save and update the arguments before and after each function call. You can set a temporary working directory within functions and wrap console messages around other functions.
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2 get_cache_or_create

Description

Checks if variable exists in environment and returns back or creates a new variable

Usage

```
get_cache_or_create(
  var,
  func,
  ...,
  exists_func_args = NA,
  get_func_args = NA,
  warning_msg = NA_character_
)
```

Arguments

```
character. The name of the variable to check in the global environment.

func function. A function that returns a value.

Additional arguments to be passed to the param func.

exists_func_args
list. A list of arguments to use in base::exists.

get_func_args
list. A list of arguments to use in bass::get.

warning_msg
character. Message sent to stop function if an error occurs.
```

Value

Unknown. The return type from the param func or the existing variable in global environment.

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lazy_eval

save and Delay a function call with the option to change the function and arguments when called

Description

save and Delay a function call with the option to change the function and arguments when called

Usage

```
lazy_eval(..., .f)
```

Arguments

... Additional arguments to be passed to the param .f. Also in closure function returned.

.f function. A function that will be called when needed. Also in closure function returned.

Value

closure function with same param names plus the param names overwrite_args Boolean and return_new_closure Boolean.

Examples

```
numbers <- c(1,2,3,4,5)
func <- lazy_eval(numbers, .f = sum)
sum_result <- func()
max_result <- func(.f = max)
mean_result <- func(.f = mean)
range_result <- func(.f = function(...) { max(...) - min(...)})
add_more_num_result <- func(4,5,6, NA, na.rm = TRUE)</pre>
```

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```
updated_func <- func(na.rm = TRUE, return_new_closure = TRUE)
updated_func_result <- updated_func()</pre>
```

msg_wrap

Wraps a message before and/or after a function

Description

Wraps a message before and/or after a function

Usage

```
msg_wrap(
  func,
  ...,
  before_func_msg = "",
  after_func_msg = "",
  print_func = print,
  use_msg = "both",
  print_return_var = FALSE
)
```

Arguments

print argument from param print_func.

Value

Unknown. The return type from the param func.

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Examples

```
numbers <- c(1,2,3,4,5)
answer <- msg_wrap(</pre>
                    sum,
                   numbers,
                   before_func_msg = "Currently summing the numbers",
                   after_func_msg = "Summing the numbers complete"
                    )
numbers\_with\_na <- c(1,2,3,NA,5)
answer_na_removed <- msg_wrap(</pre>
                               sum,
                               numbers,
                               na.rm = TRUE,
                               before_func_msg = "Sum with na.rm set to TRUE",
                               use_msg = "before"
                               )
numbers_to_sum <- c(10, 20, 30)
msg\_wrap((function(x) sum(x[x%2 == 1])),
         x = numbers_to_sum,
         before_func_msg = "Result from sum of odd numbers",
         use_msg = "before",
         print_return_var = TRUE
```

set_temp_wd

Sets a temporary working directory within the function scope

Description

Sets a temporary working directory within the function scope

Usage

```
set_temp_wd(
  temp_cwd,
  func,
  ...,
  err_msg = "An error has occured in the function set_temp_wd"
)
```

set_temp_wd

Arguments

temp_cwd character. Folder path to temporarily set the working directory function. A function that used a directory path

... Additional arguments to be passed to the param func.
err_msg character. Message sent to stop function if an error occurs.

Value

Unknown. The return type from the param func.

Examples

```
## Not run:
temp_wd <- "example/folder/address/to/change"
get_data <- set_temp_wd(temp_wd, read.csv, file = "file.csv")
## End(Not run)</pre>
```

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