

Package ‘where’

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Type Package

Title Vectorised Substitution and Evaluation

Version 1.0.0

Description Provides a clean syntax for vectorising the use of Non-Standard Evaluation (NSE), for example in 'ggplot2', 'dplyr', or 'data.table'.

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URL <https://github.com/KiwiMateo/where>

BugReports <https://github.com/KiwiMateo/where/issues>

Suggests data.table, dplyr, ggplot2, knitr, rmarkdown, testthat (>= 3.0.0)

VignetteBuilder knitr

Config/testthat/edition 3

Encoding UTF-8

RoxygenNote 7.3.2

NeedsCompilation no

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Repository CRAN

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Contents

.....	2
run	2
%with%	4
Index	5

Capture expressions

Description

Capture expressions

Usage

```
.(...)
```

Arguments

```
... code
```

Value

a list

Examples

```
.(a = 1, b = x^2, c = filter(iris, Species == "versicolor"))
```

run *Run interpolated code*

Description

Vectorised substitution of expressions into a large code block and execution.

Usage

```
run(expr, ..., e = parent.frame())
```

```
expr %for% x
```

```
expr %where% pars
```

Arguments

expr the code to run

... named values to be substituted by name into ‘expr’

e environment, for evaluation; defaults to ‘parent.frame()’

x list of expressions to be substituted for ‘x’ in ‘expr’

pars a named list of values to be substituted by name into ‘expr’

Details

‘ ‘

Value

A list.

Examples

```

library(dplyr)

subgroups = .(all      = TRUE,
              long_sepal = Sepal.Length > 6,
              long_petal = Petal.Length > 5.5)
functions = .(mean, sum, prod)

run(
  iris %>%
    filter(subgroup) %>%
    summarise(across(Sepal.Length:Petal.Width,
                    summary),
              .by = Species),
  subgroup = subgroups,
  summary = functions
)

library(data.table)
df <- as.data.table(iris)

run(df[subgroup, lapply(.SD, functions), keyby = "Species",
                      .SDcols = Sepal.Length:Petal.Width],

    subgroup = subgroups,
    functions = functions)

library(ggplot2)

plots <- run(
  ggplot(filter(iris, subgroup),
          aes(Sepal.Length, Sepal.Width)) +
    geom_point() +
    theme_minimal(),
  subgroup = subgroups
)
Map(function(plot, name) plot + ggtitle(name), plots, names(plots))

(
  iris %>%
    filter(subgroup) %>%
    summarise(across(Sepal.Length:Petal.Width,
                    summary),
              .by = Species)

```

```
) %where%  
  list(subgroup = subgroups,  
        summary = functions)  
  
library(ggplot2)  
(  
  ggplot(filter(iris, x),  
          aes(Sepal.Length, Sepal.Width)) +  
    geom_point() +  
    theme_minimal()  
) %for% subgroups
```

%with% *Posterior variable declaration*

Description

Posterior variable declaration

Usage

```
expr %with% variables
```

Arguments

expr	expression to evaluate
variables	expression with variable assignments

Value

The value of the evaluated expression.

Examples

```
(a + b) %with% {  
  a = 1  
  b = 2  
}
```

Index

., 2
%for% (run), 2
%where% (run), 2
%with%, 4
run, 2