# Package 'where'

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Type Package			
Title Vectorised Substitution and Evaluation			
Version 1.0.0			
<b>Description</b> 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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<pre>URL https://github.com/KiwiMateo/where</pre>			
BugReports https://github.com/KiwiMateo/where/issues			
<b>Suggests</b> data.table, dplyr, ggplot2, knitr, rmarkdown, testthat (>= 3.0.0)			
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## Capture expressions

## Description

Capture expressions

## Usage

.(...)

## Arguments

... code

#### Value

a list

## **Examples**

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

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'
е	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'

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#### **Details**

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#### 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)</pre>
run(df[subgroup, lapply(.SD, functions), keyby = "Species",
      .SDcols = Sepal.Length:Petal.Width],
   subgroup = subgroups,
   functions = functions)
library(ggplot2)
plots <- run(</pre>
  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)
```

4 %with%

%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**

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```