# Package: factory (via r-universe)

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Type Package

Title Build Function Factories	
<b>Version</b> 0.1.0.9000	
Description Function factories are functions that make functions. They can be confusing to construct. Straightforward techniques can produce functions that are fragile or hard to understand. While more robust techniques exist to construct function factories, those techniques can be confusing. This package is designed to make it easier to construct function factories.	
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BugReports https://github.com/jonthegeek/factory/issues	
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body\_insert

Insert Into a Function Body

## Description

Insert quoted insertions at the start of a function body (after the opening of the function).

## Usage

```
body_insert(fn_body, insertion, before = NULL)
```

## Arguments

fn\_body The body of a function (as found via body(fun)).

insertion A quoted expression to add at the beginning of the function.

#### Value

A function body with the insertion. Note: If before is specified and is not found anywhere in fn\_body, fn\_body is returned unaltered.

#### **Examples**

```
fun <- function(x) {
  x + 1
}
body_insert(body(fun), quote(x + 2))</pre>
```

body\_replace

Replace Parts of a Function Body

## **Description**

Replace quoted targets in the body of a function with quoted replacements.

#### Usage

```
body_replace(fn_body, target, replacement)
```

#### **Arguments**

fn\_body The body of a function (as found via body(fun)).

target A quoted expression to replace.

replacement A quoted expression with which the target should be replaced.

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#### Value

A function body with the target replaced anywhere it occurs.

#### **Examples**

```
fun <- function(x) {
   x^exp
}
body_replace(body(fun), quote(exp), quote(!!exp))</pre>
```

build\_factory

Easily Build Function Factories

# Description

Easily Build Function Factories

### Usage

```
build_factory(fun, ..., .pass_dots = FALSE, .internal_variables = NULL)
```

## **Arguments**

fun A function to turn into a factory.

Arguments for the factory function. Things on the RHS will be evaluated before

building your factory unless explicitly quoted with quote. See examples.

.pass\_dots A logical indicating whether the factory should accept additional arguments (...)

to pass on to methods. In order for this to work, the manufactured function \*must\* also include dots, and the input fun must indicate where those dots are

used.

.internal\_variables

A named list of additional code to run to create additional variables used by the factory.

## Value

A function factory.

## **Examples**

```
y <- 2
power <- build_factory(
  fun = function(x) {
    x^exponent
  },
  exponent
)
square <- power(y)</pre>
```

build\_factory

```
square(2)
y <- 7
square(2)
base_bins <- build_factory(</pre>
  .internal_variables = list(
    nclass_fun = switch(
      type,
      Sturges = nclass.Sturges,
      scott = nclass.scott,
      FD = nclass.FD,
      stop("Unknown type", call. = FALSE)
  ),
  fun = function(x) {
    (\max(x) - \min(x) / \text{nclass\_fun}(x))
  },
  type
)
base_bins("Sturges")
```

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