

# Package ‘factory’

August 21, 2019

**Type** Package

**Title** Build Function Factories

**Version** 0.1.0

**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.

**URL** <https://github.com/jonthegeek/factory>

**BugReports** <https://github.com/jonthegeek/factory/issues>

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.1.1

**Imports** purrr (>= 0.3.2), rlang (>= 0.4.0)

**Suggests** testthat (>= 2.1.0), covr, roxygen2, knitr, rmarkdown, ggplot2

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

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body_replace	<i>Replace Parts of a Function Body</i>
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**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 <code>body(fun)</code> ).
target	A quoted expression to replace.
replacement	A quoted expression with which the target should be replaced.

**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))
```

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build_factory	<i>Easily Build Function Factories</i>
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**Description**

Easily Build Function Factories

**Usage**

```
build_factory(fun, ...)
```

**Arguments**

fun	An anonymous 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 <code>quote</code> . See examples.

**Value**

A function factory.

**Examples**

```
y <- 2
power <- build_factory(
  fun = function(x) {
    x^exponent
  },
  exponent
)
square <- power(y)
square(2)
y <- 7
square(2)
```

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