# 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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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.

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))
```

build_factory  

Easily Build Function Factories

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 quote. See examples.
**Value**

A function factory.

**Examples**

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