

# Package ‘setter’

October 14, 2022

**Title** Mutators that Work with Pipes

**Version** 0.0-1

**Date** 2016-03-30

**Description** Mutators to set attributes of variables, that work well in a pipe (much like stats::setName()).

**URL** <https://bitbucket.org/richierocks/setter>

**BugReports** <https://bitbucket.org/richierocks/setter/issues>

**Depends** R (>= 3.0.0), assertive.base (>= 0.0-5)

**Suggests** magrittr, testthat

**License** Unlimited

**LazyData** true

**RoxygenNote** 5.0.1

**NeedsCompilation** no

**Author** Richard Cotton [aut, cre]

**Maintainer** Richard Cotton <[richierocks@gmail.com](mailto:richierocks@gmail.com)>

**Repository** CRAN

**Date/Publication** 2016-03-30 08:14:34

## R topics documented:

setter . . . . . 2

**Index** . . . . . 5

---

setter

*Set attributes of variables*

---

### **Description**

Set attributes of a variable, then return that variable.

### **Usage**

`set_class(x, value)`

`copy_class(x, from)`

`set_mode(x, value)`

`copy_mode(x, from)`

`set_storage_mode(x, value)`

`copy_storage_mode(x, from)`

`set_dim(x, value)`

`copy_dim(x, from)`

`set_length(x, value)`

`copy_length(x, from)`

`set_names(x, value)`

`copy_names(x, from)`

`set_colnames(x, value)`

`copy_colnames(x, from)`

`set_rownames(x, value)`

`copy_rownames(x, from)`

`set_dimnames(x, value)`

`copy_dimnames(x, from)`

`set_levels(x, value)`

```

copy_levels(x, from)

set_comment(x, value)

copy_comment(x, from)

set_attributes(x, ..., .dots = list())

copy_attributes(x, from, attribs)

copy_all_attributes(x, from)

copy_most_attributes(x, from)

```

### Arguments

|         |  |
|---------|--|
| x       | An R variable.                               |
| value   | A value to set the attribute to.             |
| from    | A variable to take the attribute value from. |
| ...     | Name-value pairs of attributes to set.       |
| .dots   | A named list of attributes to set.           |
| attribs | A character vector of attributes to copy.    |

### Value

x is returned, with updated attributes.

### See Also

[attributes](#), [attr](#)

### Examples

```

if(requireNamespace("magrittr"))
{
  `%>%` <- magrittr::`%>%`
  # Convert a vector to a matrix by setting the dimensions and their names.
  m <- 1:12 %>%
    set_dim(3:4) %>%
    set_dimnames(list(letters[1:3], LETTERS[1:4])) %>%
    print

  # Copy attributes from one variable to another using copy_* fns.
  month.abb %>%
    copy_dim(m) %>%
    copy_dimnames(m) %>%
    print

  # Same again, using copy_attributes

```

```
month.abb %>%
  copy_attributes(m, c("dim", "dimnames"))

# Same again, in this case you can copy most/all the attributes from m.
month.abb %>%
  copy_most_attributes(m)
month.abb %>%
  copy_all_attributes(m)

# To quickly convert a list into a data.frame, set the class and row names.
list(a = (1:5) ^ 2, b = pi ^ (1:5)) %>%
  set_class("data.frame") %>%
  set_rownames() %>% # data.frames have a default
  print

# Or equivalently, using attributes
list(a = (1:5) ^ 2, b = pi ^ (1:5)) %>%
  set_attributes(class = "data.frame", row.names = .set_row_names(5)) %>%
  print
} else
{
  message('This example requires the magrittr package. Please run install.packages("magrittr").')
}
```

# Index

`attr`, 3

`attributes`, 3

`copy_all_attributes` (setter), 2

`copy_attributes` (setter), 2

`copy_class` (setter), 2

`copy_colnames` (setter), 2

`copy_comment` (setter), 2

`copy_dim` (setter), 2

`copy_dimnames` (setter), 2

`copy_length` (setter), 2

`copy_levels` (setter), 2

`copy_mode` (setter), 2

`copy_most_attributes` (setter), 2

`copy_names` (setter), 2

`copy_rownames` (setter), 2

`copy_storage_mode` (setter), 2

`mutator` (setter), 2

`set_attributes` (setter), 2

`set_class` (setter), 2

`set_colnames` (setter), 2

`set_comment` (setter), 2

`set_dim` (setter), 2

`set_dimnames` (setter), 2

`set_length` (setter), 2

`set_levels` (setter), 2

`set_mode` (setter), 2

`set_names` (setter), 2

`set_rownames` (setter), 2

`set_storage_mode` (setter), 2

`setter`, 2

`setters` (setter), 2