

Package ‘setter’

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Title Mutators that Work with Pipes

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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

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NeedsCompilation no

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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").')
}
```

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