Package 'tribe'

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Type Package

Title Play with the Tribe of Attributes

Version 0.1.8

Description Functions to make manipulation of object attributes easier. It also contains a few functions that extend the 'dplyr' package for data manipulation, and it provides new pipe operators, including the pipe '%@>%' similar to the 'magrittr' '%>%', but with the additional functionality to enable attributes propagation.

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LazyData TRUE

ByteCompile TRUE

Depends R (>= 3.2)

Imports dplyr, lazyeval, magrittr, rlang, rstudioapi, utils

VignetteBuilder knitr Suggests knitr, testthat

URL https://github.com/paulponcet/tribe

BugReports https://github.com/paulponcet/tribe/issues

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at_mutate

Manipulate attributes in a dplyr fashion

Description

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The function at_mutate adds or changes attributes to obj.

The function at_select selects attributes of obj, and removes the others.

The function at_rename renames attributes of obj.

The function at_slice chooses a specific attribute and returns it.

Usage

```
at_mutate(obj, ...)
at_mutate_(obj, ..., .dots)
at_select(obj, ...)
at_select_(obj, ..., .dots)
at_rename(obj, ...)
at_rename_(obj, ..., .dots)
at_slice(obj, at)
at_slice_(obj, at)
```

Arguments

```
obj An object.
... Comma separated list of unquoted expressions.
.dots Used to work around non-standard evaluation.
at Attribute to be obtained.
```

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Value

at_slice returns the attribute chosen. The other functions return obj with possibly modified attributes.

See Also

```
structure, attributes
```

Examples

```
library(dplyr)
df <- data.frame(x = sample(10, 5, rep = TRUE),</pre>
                 y = sample(10, 5, rep = TRUE)) %>%
  at_mutate(example = "yes",
            package = "dplyr")
tribe(df)
at_slice(df, names)
at_slice_(df, "class")
at_slice_(df, ~ package)
df <- df %>%
  at_mutate_(package = ~ NULL,
             example = ~ "no")
tribe(df)
df <- df %>%
  at_mutate_(.dots = list(x = \sim 2, y = \sim c(3,4)))
tribe(df)
```

make_pipe

Create a pipe operator.

Description

This function is used to create magrittr like pipe operators.

Usage

```
make_pipe(propagate, keep_also = NULL, try = FALSE)
lhs %@>% rhs
lhs %<@>% rhs
lhs %try>% rhs
```

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Arguments

propagate	character. See the eponymous argument in shield.
keep_also	character. See the eponymous argument in shield.
try	logical. If TRUE and the pipe $x > f$ generates an error, then the pipe $x try> f$ returns x unchanged silently.
lhs	Left-hand side of the pipe.
rhs	Right-hand side of the pipe.

Author(s)

Stefan Milton Bache and Hadley Wickham for the original pipe function in package **magrittr**; Paul Poncet for the modifications introduced.

See Also

shield in this package.

Examples

shield

Attributes protection

Description

The function shield is made to facilitate the propagation of attributes of an object obj through R operations.

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Usage

```
shield(obj, at, propagate = "some", keep_also = NULL)
```

Arguments

obj An object.

at A named list, the attributes to be possibly added to obj.

propagate character. The method to be applied, one of "all", "most", "some", "none",

"many".

If propagate="some" (the default), the attributes of obj are kept unchanged (up to the value of keep_also).

If propagate="all" (not advised), the attributes of the returned object are exactly at (up to the value of keep_also).

If propagate="none" (not advised either), the attributes of the returned object

are NULL (up to the value of keep_also).

If propagate="most", new attributes taken from at will be added to obj; however, attributes found in at that have the same name as attributes of obj are not

considered.

keep_also character. A vector of named attributes to be added to the final result.

Value

The object obj with possibly different attributes.

Examples

```
library(dplyr)
df \leftarrow data.frame(x = sample(10, 5, rep = TRUE),
                 y = sample(10, 5, rep = TRUE)) %>%
 at_mutate(example = "yes",
            package = "dplyr"
            class = c("my_tbl", "data.frame"))
tribe(df)
# Attributes are lost when the object passes through dplyr verbs
df2 <- df %>%
 mutate(z = 3)
tribe(df2)
# Most attributes are kept
df3 <- shield(df2, tribe(df), propagate = "most")</pre>
tribe(df3)
# To keep the class, use 'keep_also'
df4 <- shield(df2, tribe(df), propagate = "most", keep_also = "class")</pre>
tribe(df4)
```

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stick_to

Work on a specific attribute within a pipeline

Description

The functions stick_to and unstick enable to select an attribute within a pipe and work on it. It must be combined with the %@>% pipe to work properly, see the example below.

Usage

```
stick_to(obj, at)
stick_to_(obj, at)
unstick(x)
```

Arguments

obj An object with an at attribute.

at The name of the attribute to be considered.

x An object to be unsticked. Must have ".obj_stick" and ".at_stick" at-

tributes.

Value

stick_to basically inverses the roles of .data and at, meaning that .data becomes an attribute of the selected attribute. unstick makes the inverse operation.

Examples

```
## Not run:
library(dplyr)
library(observer)

df <- ggplot2::diamonds
   mutate(depth2 = 100*2*z/(x+y))
   observe_if(abs(depth-depth2) < 1)

observations(df)

df
   stick_to(observations)
   mutate(Id = 2)
   select(Id, Status)
   unstick()

observations(df)</pre>
```

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```
## End(Not run)
```

tribe

Object attribute list

Description

The function tribe is identical to attributes, expect that it always returns a named list (thus, when attributes will return NULL, tribe will return an empty named list).

Usage

```
tribe(obj, keep_obj = FALSE)
tribe(obj) <- value
untribe(x)</pre>
```

Arguments

obj An object.

keep_obj logical. If TRUE, obj is passed as an attribute to the result (useful in combination

of untribe).

value An appropriate named list of attributes, or NULL.

x A list (of attributes) to be untribed.

Value

A named list, the attributes of obj.

See Also

```
attributes, attributes<-, mostattributes<-.
```

Examples

```
## Not run:
library(lplyr)
A <- c(x = 1, y = 2, z = 3)
   at_mutate(package = "trib?")
A
   tribe(keep_obj = TRUE)
   mutate(package = "tribe")
   untribe()
## End(Not run)</pre>
```

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