

Package ‘timbr’

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Type Package

Title Forest Data Frames

Version 0.1.0

Description Provides data frames for forest (or tree) data structures. You can create forest data structures from data frames and process them based on their hierarchies.

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Encoding UTF-8

RoxygenNote 7.1.2

Imports dplyr, memoise, pillar, purrr, rlang, tibble, tidygraph, tidyselect, vctrs

Suggests covr, testthat (>= 3.0.0), tidyr

Config/testthat/edition 3

URL <https://github.com/UchidaMizuki/timbr>

BugReports <https://github.com/UchidaMizuki/timbr/issues>

NeedsCompilation no

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Description

timbr: Forest Data Frames

as_forest	<i>Coerce to a forest</i>
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Description

Coerce to a forest

Usage

```
as_forest(x, ...)  
  
## S3 method for class 'rowwise_df'  
as_forest(x, ...)  
  
## S3 method for class 'grouped_df'  
as_forest(x, ...)
```

Arguments

x	An object.
...	Unused, for extensibility.

Value

A forest.

children	<i>Children of the forest</i>
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Description

Convert a forest into a forest consisting of its child nodes.

Usage

```
children(data, name = NULL)
```

Arguments

data	A forest.
name	'NULL' (default) or a scalar character specifying the node name of child nodes.

Value

A forest.

climb	<i>Climb a forest from parents to children</i>
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Description

Climb a forest from parents to children with one or more node names.

Usage

```
climb(.data, ..., .deep = TRUE)
```

Arguments

.data	A forest.
...	A list of node names to climb the forest.
.deep	Whether to search deeply for node names or not?

Value

A forest.

dplyr

dplyr methods for forest objects

Description

dplyr methods for forest objects.

Usage

```
## S3 method for class 'forest'  
mutate(.data, ...)  
  
## S3 method for class 'forest'  
summarise(.data, ..., .node = NULL)  
  
## S3 method for class 'forest'  
select(.data, ...)  
  
## S3 method for class 'forest'  
relocate(.data, ...)  
  
## S3 method for class 'forest'  
rows_update(x, y, by = NULL, ...)  
  
## S3 method for class 'forest'  
rows_patch(x, y, by = NULL, ...)
```

Arguments

<code>.data</code>	A forest.
<code>...</code>	Other arguments.
<code>.node</code>	'NULL' (default) or a vector to create new nodes.
<code>x</code>	A forest.
<code>y</code>	A data frame.
<code>by</code>	An unnamed character vector giving the key columns.

Value

A forest.

forest_by	<i>Constructs a forest by one or more variables</i>
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Description

'forest_by()' constructs a forest by one or more variables.

Usage

```
forest_by(.data, ...)
```

Arguments

.data	A data frame.
...	Variables.

Value

A forest.

is_forest	<i>Test if an object is a forest</i>
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Description

Test if an object is a forest

Usage

```
is_forest(x)
```

Arguments

x	An object.
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Value

'TRUE' if an object inherits from 'forest' class.

modify.forest	<i>Modify a forest hierarchically</i>
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Description

Modifies nodes of a forest in the climbing or descending direction.

Usage

```
## S3 method for class 'forest'  
modify(.x, .f, ..., .climb = FALSE)
```

Arguments

.x	A forest
.f	A function, formula, or vector (not necessarily atomic).
...	Additional arguments passed on to the mapped function.
.climb	Climbing or descending?

Value

A forest.

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