

Package ‘navigatr’

May 14, 2022

Type Package

Title Navigation Menu for Pipe-Friendly Data Processing

Version 0.1.2

Description Provides a navigation menu to enable pipe-friendly data processing for hierarchical data structures.
By activating the menu items, you can perform operations on each item while maintaining the overall structure in attributes.

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Encoding UTF-8

Imports cli, dplyr, pillar, purrr, rlang, tidyselect, vctrs

RoxygenNote 7.1.2

Suggests testthat (>= 3.0.0)

Config/testthat.edition 3

URL <https://github.com/UchidaMizuki/navigatr>,
<https://uchidamizuki.github.io/navigatr/>

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

NeedsCompilation no

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Repository CRAN

Date/Publication 2022-05-14 16:10:01 UTC

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activate	<i>Activate/deactivate a menu item</i>
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Description

Activates a menu item with the same syntax as `dplyr::pull()`. Activating a menu item allows you to perform operations on the active item. `activate()` turns a `navigatr_menu` object into an `navigatr_item` object, and `deactivate()` turns it back.

Usage

```
activate(.data, ..., .add = FALSE)

## S3 method for class 'navigatr_menu'
activate(.data, ..., .add = FALSE)

## S3 method for class 'navigatr_item'
activate(.data, ..., .add = FALSE)

deactivate(x, ..., deep = TRUE)

## S3 method for class 'navigatr_menu'
deactivate(x, ..., deep = TRUE)

## S3 method for class 'navigatr_item'
deactivate(x, ..., deep = TRUE)
```

Arguments

.data	A <code>navigatr_menu</code> object.
...	In <code>activate()</code> , one or more variables passed to <code>dplyr::pull()</code> . In <code>deactivate()</code> , unused (for extensibility).
.add	Whether to add new variables to the path indices. If FALSE (default value), the menu will be deactivated first by <code>deactivate()</code> .
x	A <code>navigatr_menu</code> object.
deep	If TRUE (default value), deactivate recursively.

Value

In `activate()`, An `navigatr_item` object. If it inherits from class `navigatr_menu`, the menu will be displayed hierarchically. Otherwise, the active data will be displayed. In `deactivate()`, A `navigatr_menu` object.

Examples

```
library(dplyr)

mn1 <- new_menu(key = c("band_members", "band_instruments"),
                 value = list(band_members, band_instruments))

mn1 %>%
  activate(band_members) %>%
  filter(band == "Beatles")

# Items can also be specified as integers
mn1 %>%
  activate(2)

mn1 %>%
  activate(-1) %>%
  deactivate()

# To activate items in a nested menu, specify multiple variables
mn2 <- new_menu(key = c("key1", "key2"),
                 value = list(mn1, mn1))
mn2 %>%
  activate(key1, band_members)
```

is_item	<i>Test if an object is an item</i>
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Description

Test if an object is an item

Usage

```
is_item(x)
```

Arguments

x	An object.
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Value

TRUE if the object inherits from the `navigatr_item` class.

<code>is_menu</code>	<i>Test if the object is a menu</i>
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Description

Test if the object is a menu

Usage

```
is_menu(x)
```

Arguments

<code>x</code>	An object.
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Value

TRUE if the object inherits from the `navigatr_menu` class.

<code>itemise</code>	<i>Update items</i>
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Description

Update items

Usage

```
itemise(.data, ...)
itemize(.data, ...)

## S3 method for class 'navigatr_menu'
itemise(.data, ...)

## S3 method for class 'navigatr_item'
itemise(.data, ...)
```

Arguments

<code>.data</code>	A <code>navigatr_menu</code> or <code>navigatr_item</code> object.
<code>...</code>	For <code>navigatr_menu</code> objects, use <code>key_name = item_value</code> . For <code>navigatr_item</code> objects, new item value.

Value

A `navigatr_menu` or `navigatr_item` object.

new_menu	<i>Build a new navigation menu</i>
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Description

To build a new navigation menu, give `new_menu()` unique keys and a list of their corresponding values. The top row shows the menu items (keys on the left, value summaries on the right). The summaries are `pillar::obj_sum` outputs, so you can change the printing methods. Each menu item can be accessed by `activate()`.

Usage

```
new_menu(  
  key = character(),  
  value = list(),  
  attrs = data_frame(.size = 1),  
  ...,  
  class = character()  
)
```

Arguments

key	A unique character vector. If the key is not a character vector, it is converted to a character vector by <code>as.character()</code> .
value	A list of values corresponding to the keys. If the value is not a list, it is converted to a list by <code>as.list()</code> .
attrs	A data frame for additional attributes of items (an empty data frame by default). When an item becomes active, the attrs will be added to its attributes.
...	Additional arguments passed to <code>vctrs::new_data_frame()</code> .
class	A character vector of subclasses passed to <code>vctrs::new_data_frame()</code> .

Value

A `navigatr_menu` object, a subclass of class `data.frame`.

See Also

[activate\(\)](#)

Examples

```
library(dplyr)  
  
band <- new_menu(key = c("band_members", "band_instruments"),  
                  value = list(band_members, band_instruments))  
band
```

```
# You can also build a nested menu
bands <- new_menu(key = c("key1", "key2"),
                  value = list(band, band))
bands
```

rekey*Rename key names*

Description

Rename key names

Usage

```
rekey(.data, ...)
## S3 method for class 'navigatr_menu'
rekey(.data, ...)

## S3 method for class 'navigatr_item'
rekey(.data, ...)
```

Arguments

.data A `navigatr_menu` or `navigatr_item` object.
... For `navigatr_menu` objects, use `new_name = old_name`. For `navigatr_item` objects, a scalar character of the new key name.

Value

A `navigatr_menu` or `navigatr_item` object.

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