Package ‘carpenter’

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Type Package
Title Build Common Tables of Summary Statistics for Reports
Version 0.2.2
Description Mainly used to build tables that are commonly presented for bio-medical/health research, such as basic characteristic tables or descriptive statistics.
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add_rows

Add rows to the table with summary statistics.

Description
Add rows to the table with summary statistics.

Usage
add_rows(data, row_vars, stat, digits = 1)

Arguments
- **data**: Output from the `outline_table` object.
- **row_vars**: The variables that you want added to the table. Must be from `outline_table`.
- **stat**: The summary statistic or any other function. A list of built functions can be found in `table_stats()`.
- **digits**: What to round the value to.

Value
Adds a row with summary statistics for a variable. Is a `tibble`.

See Also
- `carpenter()` for a list of all functions, examples, and accessing the introduction tutorial vignette.
- See `table_stats()` for a list of `carpenter` builtin statistics.

build_table

Build the final table.

Description
Output can be to common formats such as rmarkdown, html, etc, based on the style argument of the `pander::pander()` function.

Usage
build_table(data, caption = NULL, style = "rmarkdown", split = Inf, missing = "", alignment = "center", finish = TRUE)
Arguments

- **data**: The draft table object.
- **caption**: Table caption.
- **style**: What output style (rmarkdown, grid, simple, etc) should the table be.
- **split**: When should the table split when it is too wide? (Inf means never).
- **missing**: How to deal with missing values in the table (removed by default).
- **alignment**: Table column alignment.
- **finish**: Generate the final table in markdown formatted form.

Value

Creates a `pander::pander()` created table.

See Also

- `carpenter()` for a list of all functions, examples, and accessing the introduction tutorial vignette.

Description

Build common tables for your research needs!

See Also

- `add_rows()` to add rows to the table, `renaming()` for renaming of columns and rows, `build_table()`, `table_stats()` for a list of built-in summary statistics. For a more detailed walkthrough of carpenter, see the introduction vignette using `vignette('carpenter')`.

Examples

```r
library(magrittr)
outline_table(iris, 'Species') %>%
  add_rows(c('Sepal.Length', 'Petal.Length'), stat_meanSD) %>%
  add_rows('Sepal.Width', stat_medianIQR) %>%
  renaming('rows', function(x) gsub('Sepal\.' , 'Sepal ', x)) %>%
  renaming('header', c('Measures', 'Setosa', 'Versicolor', 'Virginica')) %>%
  build_table(caption = 'A caption for the table')
```
**outline_table**

*Make an outline of the table you want to create.*

**Description**

Make an outline of the table you want to create.

**Usage**

```
outline_table(data, header = NULL)
```

**Arguments**

- `data` Dataset to use to create the table
- `header` Column or variable(s) that will make up the rows

**Value**

Dataframe ready for further carpentry work, like adding rows, summary statistics, renaming, etc.

**See Also**

`carpenter()` for a list of all functions, examples, and accessing the introduction tutorial vignette.

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**renaming**

*Renaming row and header variables.*

**Description**

Renaming row and header variables.

**Usage**

```
renaming(data, type = c("rows", "header"), replace)
```

**Arguments**

- `data` The table_draft object.
- `type` Whether to rename the row column or the headers.
- `replace` If type is ‘row’, needs to be a function (anonymous or otherwise) using the `base::gsub()` function to substitute patterns, words, characters, or symbols, etc. If type is 'header', needs to be a string of equal length as the header to replace the header variables.
**Value**

Adds to the table outline to rename the rows and/or header variables in the final table.

**See Also**

`carpenter()` for a list of all functions, examples, and accessing the introduction tutorial vignette.

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**table_stats**  
*Common summary statistics to use in `add_rows()`.*

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**Description**

Common summary statistics to use in `add_rows()`.

**Usage**

```r
stat_median(x, digits = 1)
stat_iqr(x, digits = 1)
stat_medianIQR(x, digits = 1)
stat_mean(x, digits = 1)
stat_stddev(x, digits = 1)
stat_meanSD(x, digits = 1)
stat_npct(x, digits = 0)
```

**Arguments**

- `x` Numeric vector to use to calculate the statistic
- `digits` Number of digits to use

**Value**

Create a single character string with the summary statistic

**See Also**

`carpenter()` for a list of all functions, examples, and accessing the introduction tutorial vignette.
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