# Package 'carpenter'

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**Type** Package

**Title** Build Common Tables of Summary Statistics for Reports

**Version** 0.2.3

**Description** Mainly used to build tables that are commonly presented for bio-medical/health research, such as basic characteristic tables or descriptive statistics.

**License** MIT + file LICENSE

**Imports** dplyr, magrittr, tidyr, pander, utils, stats, tibble, rlang

**RoxygenNote** 7.3.3

**Suggests** knitr, rmarkdown, testthat

**VignetteBuilder** knitr

**URL** https://github.com/lwjohnst86/carpenter, http://lwjohnst86.github.io/carpenter/

**BugReports** https://github.com/lwjohnst86/carpenter/issues

**Encoding** UTF-8

**Language** en-US

**NeedsCompilation** no

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**Repository** CRAN

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`add_rows` *Add rows to the table with summary statistics.*

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## 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.

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`build_table` *Build the final table.*

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## 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.

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## carpenter *Build common tables for your research needs!*

---

### 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

```
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.

## 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.

---

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

---

## Description

Common summary statistics to use in add_rows().

## Usage

```
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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