Package ‘carpenter’

October 12, 2022

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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LazyData TRUE
Imports dplyr, magrittr, tidyr, pander, utils, stats, lazyeval, tibble
RoxygenNote 6.1.1
Suggests knitr, rmarkdown, testthat, covr
VignetteBuilder knitr
URL https://github.com/lwjohnst86/carpenter
BugReports https://github.com/lwjohnst86/carpenter/issues
Encoding UTF-8
NeedsCompilation no
Author Luke Johnston [aut, cre] (<https://orcid.org/0000-0003-4169-2616>)
Maintainer Luke Johnston <lwjohnst@gmail.com>
Repository CRAN
Date/Publication 2019-02-05 08:43:30 UTC

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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.

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### carpenter

*Build common tables for your research needs!*

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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

```r
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

```r
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.

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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