Package 'meantables'

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Type Package

Title Make Quick Descriptive Tables for Continuous Variables

Description Quickly make tables of descriptive statistics (i.e., counts, means, confidence intervals) for continuous variables. This package is designed to work in a Tidyverse pipeline, and consideration has been given to get results from R to 'Microsoft Word' ® with minimal pain.

Version 0.1.2

Maintainer Brad Cannell <brad.cannell@gmail.com>

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Encoding UTF-8

Suggests knitr, rmarkdown, testthat

VignetteBuilder knitr

RoxygenNote 7.1.2

Imports dplyr, tibble, rlang, stringr

NeedsCompilation no

Author Brad Cannell [aut, cre, cph]

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Contents

mean_format *Format mean_table Output for Publication and Dissemination*

Description

The mean_format function is intended to make it quick and easy to format the output of the mean_table function for tables that may be used for publication. For example, a mean and 95 could be formatted as "24.00 (21.00 - 27.00)."

Usage

```
mean_format(.data, recipe, name = NA, digits = NA)
```

Arguments

.data	A data frame of class "mean_table" or "mean_table_grouped".
recipe	A recipe used to create a new column from existing mean_table columns. The recipe must be in the form of a quoted string. It may contain any combination of column names, spaces, and characters. For example: "mean (sd)" or "mean (lcl - ucl)".
name	An optional name to assign to the column created by the recipe. The default name is "formatted_stats"
digits	The number of decimal places to display.

Value

A tibble

Examples

```
## Not run:
library(dplyr)
library(meantables)

data(mtcars)

# Overall mean table with defaults

mtcars %>%
  mean_table(mpg) %>%
  mean_format("mean (sd)") %>%
  select(response_var, formatted_stats)

# A tibble: 1 × 2
  response_var formatted_stats
  <chr>        <chr>
1 mpg          20.09 (6.03)
```

```
# Grouped means table with defaults

mtcars %>%
  group_by(cyl) %>%
  mean_table(mpg) %>%
  mean_format("mean (sd)") %>%
  select(response_var:group_cat, formatted_stats)

  # A tibble: 3 × 4
  response_var group_var group_cat formatted_stats
  <chr>        <chr>         <dbl> <chr>
1 mpg          cyl               4 26.66 (4.51)
2 mpg          cyl               6 19.74 (1.45)
3 mpg          cyl               8 15.1 (2.56)

## End(Not run)
```

`mean_table` *Estimate Mean and 95 Percent Confidence Intervals in dplyr Pipelines*

Description

The mean_table function produces overall and grouped tables of means with related statistics. In addition to means, the mean_table missing/non-missing frequencies, the standard error of the mean (sem), the 95 value, and the maximum value. For grouped tibbles, mean_table displays these statistics for each category of the group_by variable.

Usage

```
mean_table(.data, .x, t_prob = 0.975, output = default, digits = 2, ...)
```

Arguments

`.data`	A tibble or grouped tibble.
`.x`	The continuous response variable for which the statistics are desired.
`t_prob`	(1 - alpha / 2). Default value is 0.975, which corresponds to an alpha of 0.05. Used to calculate a critical value from Student's t distribution with n - 1 degrees of freedom.
`output`	Options for this parameter are "default" and "all". Default output includes the n, mean, sem, and 95 the mean. Using output = "all" also returns the the number of missing values for .x and the critical t-value.
`digits`	Round mean, lcl, and ucl to digits. Default is 2.
`...`	Other parameters to be passed on.

Value

A tibble of class "mean_table" or "mean_table_grouped"

References

SAS documentation: http://support.sas.com/documentation/cdl/en/proc/65145/HTML/default/viewer.htm#p0klmrp4k89pz0n

Examples

```
## Not run:
library(dplyr)
library(meantables)

data(mtcars)

# Overall mean table with defaults

mtcars %>%
  mean_table(mpg)

# A tibble: 1 x 9
  response_var     n  mean    sd   sem   lcl   ucl   min   max
  <chr>        <int> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
1 mpg             32  20.1  6.03  1.07  17.9  22.3  10.4  33.9

# Grouped means table with defaults

mtcars %>%
  group_by(cyl) %>%
  mean_table(mpg)

# A tibble: 3 x 11
  response_var group_var group_cat     n  mean    sd   sem   lcl   ucl   min   max
  <chr>        <chr>         <dbl> <int> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
1 mpg          cyl               4    11  26.7  4.51 1.36   23.6  29.7  21.4  33.9
2 mpg          cyl               6     7  19.7  1.45 0.549  18.4  21.1  17.8  21.4
3 mpg          cyl               8    14  15.1  2.56 0.684  13.6  16.6  10.4  19.2

## End(Not run)
```

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