

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 0.1.0

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Encoding UTF-8

LazyData true

Suggests knitr, rmarkdown, testthat

VignetteBuilder knitr

RoxygenNote 7.1.0

Imports dplyr, tibble, rlang

NeedsCompilation no

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Repository CRAN

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 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

<code>.data</code>	A tibble or grouped tibble.
<code>x</code>	The continuous response variable for which the statistics are desired.
<code>t_prob</code>	(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.
<code>output</code>	Options for this parameter are "default" and "all". Default output includes the n, mean, sem, and 95 the mean. Using <code>output = "all"</code> also returns the the number of missing values for x and the critical t-value.
<code>digits</code>	Round mean, lcl, and ucl to digits. Default is 2.
<code>...</code>	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#p0klmrp4k89pz0>

Examples

```
library(dplyr)
library(meantables)
```

```
data(mtcars)
```

```
# Overall mean table with defaults
```

```
mtcars %>%
  mean_table(mpg)
```

```
#> # A tibble: 1 x 8
#>   response_var      n mean      sem    lcl    ucl    min    max
#>   <chr> <int> <dbl>    <dbl> <dbl> <dbl> <dbl> <dbl>
#> 1      mpg     32 20.09 1.065424 17.92 22.26  10.4  33.9

# Grouped means table with defaults

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

#> # A tibble: 3 x 10
#>   response_var group_var group_cat      n mean      sem    lcl    ucl    min    max
#>   <chr>         <chr>    <dbl> <int> <dbl>    <dbl> <dbl> <dbl> <dbl> <dbl>
#> 1      mpg         cyl         4     11 26.66 1.3597642 23.63 29.69 21.4  33.9
#> 2      mpg         cyl         6      7 19.74 0.5493967 18.40 21.09 17.8  21.4
#> 3      mpg         cyl         8     14 15.10 0.6842016 13.62 16.58 10.4  19.2
```

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