Package ‘meantables’

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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License MIT + file LICENSE
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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R topics documented:

mean_table .................................................. 2

Index 4
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#p0klmrp4k89pz0n1p72t0clpavyx.htm

Examples
library(dplyr)
library(meantables)
data(mtcars)

# Overall mean table with defaults
mtcars %>%
  mean_table(mpg)
mean_table

#> # 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
Index

mean_table, 2