Package 'meantables'

October 13, 2022

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	
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License MIT + file LICENSE	
Encoding UTF-8	
Suggests knitr, rmarkdown, testthat	
VignetteBuilder knitr	
RoxygenNote 7.1.2	
Imports dplyr, tibble, rlang, stringr	
NeedsCompilation no	
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Repository CRAN	
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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

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```
# 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 \times 4
  response_var group_var group_cat formatted_stats
                           <dbl> <chr>
  <chr>
               <chr>
                                 4 26.66 (4.51)
1 mpg
               cyl
2 mpg
               cyl
                                 6 19.74 (1.45)
               cyl
                                 8 15.1 (2.56)
3 mpg
## End(Not run)
```

mean_table

Estimate Mean and 95 Percent Confidence Intervals in aplyr 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"

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References

SAS documentation: http://support.sas.com/documentation/cdl/en/proc/65145/HTML/default/viewer.htm#p0klmrp4k89pz0r

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
         <int> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <
             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
                                         sd sem lcl ucl min
 response_var group_var group_cat
                                n mean
           1 mpg
                        4 11 26.7 4.51 1.36 23.6 29.7 21.4 33.9
            cyl
                               7 19.7 1.45 0.549 18.4 21.1 17.8 21.4
            cyl
                          6
2 mpg
                             14 15.1 2.56 0.684 13.6 16.6 10.4 19.2
3 mpg
            cyl
## End(Not run)
```

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