Package ‘fdistr’
December 2, 2019

Type Package
Title Frequency Distribution Tables
Version 0.1.0
Date 2019-11-06
Description Provides functionality to generate a frequency distribution table from a set of observations and plot the frequency distribution using a Pareto chart.
Depends R (>= 3.6)
License MIT + file LICENSE
URL https://github.com/dtminnick/fdistr
BugReports https://github.com/dtminnick/fdistr/issues
Encoding UTF-8
LazyData true
Imports dplyr (>= 0.8.3), ggplot2 (>= 3.2.1), magrittr (>= 1.5), stats (>= 3.6.1), usethis (>= 1.5.1), utils (>= 3.6.1)
Suggests knitr (>= 1.22), rmarkdown (>= 1.12), testthat (>= 2.2.1)
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create_pareto  
Create Pareto Chart

Description
create_pareto generates a Pareto chart using the group, frequency and cumulative frequency columns of a frequency distribution table.

Usage
create_pareto(df, title = "Pareto Chart", subtitle = "", caption = "", x_label = "Groups", y_label = "Frequency")

Arguments
- **df**: Data frame containing a frequency distribution table.
- **title**: Character string; title to be displayed on Pareto chart. Default is "Pareto Chart".
- **subtitle**: Character string; subtitle to be displayed on chart. Default is "".
- **caption**: Character string; caption to be displayed on the chart. Default is "".
- **x_label**: Character string; x axis label to be displayed on the chart. Default is "Groups".
- **y_label**: Character string; y axis label to be displayed on the chart. Default is "Frequency".

Value
A plot containing a Pareto chart. If an error or warning occurs, a message will be printed to the console and the function will return NULL.

Examples
source <- c(1, 1, 1, 1, 2, 2, 2, 3, 3, 4)
table <- create_table(source, dec_pos = 3)
plot <- create_pareto(table)

create_table  
Create Table

Description
create_table generates a frequency distribution table from a vector, list or data frame input.

Usage
create_table(source, dec_pos = 2)
Arguments

source Vector, list or data frame input. If the source is of class list, it will be simplified to a vector using unlist.

dec_pos Number of positions to return in the frequency and cumulative frequency variables. Defaults to two positions following the decimal.

Details

create_table returns a data frame that includes five variables: group, count, frequency, cumulative count and cumulative frequency.

Value

A data frame containing the frequency distribution table. If an error or warning occurs, a message will be printed to the console and the function will return NULL.

Examples

source <- c(1, 1, 1, 1, 2, 2, 2, 3, 3, 4)
table <- create_table(source, dec_pos = 3)

words

Words Dataset

Description

A sample set of words taken from the first paragraph of James Joyce’s short story "The Dead" to demonstrate the functionality in this package.

Usage

data(words)

Format

A data frame with 55 observations and 4 variables.

Details

The dataset includes the four variables.

word Character, word in the sample.

first_letter Character, first letter of the word.

last_letter Character, last letter of the word.

letter_count Integer, number of letters in the word.
Author(s)

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