

Package ‘descriptr’

December 9, 2020

Type Package

Title Generate Descriptive Statistics

Version 0.5.2

Description Generate descriptive statistics such as measures of location, dispersion, frequency tables, cross tables, group summaries and multiple one/two way tables.

Depends R(>= 3.3.0)

Imports dplyr, ggplot2, magrittr, rlang, scales, stats, tibble, tidyverse, utils

Suggests covr, gridExtra, knitr, rmarkdown, testthat, vdiff, xplorerr

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URL <https://descriptr.rsquaredacademy.com/>,

<https://github.com/rsquaredacademy/descriptr>

BugReports <https://github.com/rsquaredacademy/descriptr/issues>

Encoding UTF-8

LazyData true

VignetteBuilder knitr

RoxygenNote 7.1.1

NeedsCompilation no

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Repository CRAN

Date/Publication 2020-12-09 17:10:02 UTC

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descriptr**descriptr package**

Description

Generate descriptive statistics and explore statistical distributions

ds_auto_freq_table *Multiple One & Two Way Tables*

Description

ds_auto_freq_table creates multiple one way tables by creating a frequency table for each categorical variable in a data frame. ds_auto_cross_table creates multiple two way tables by creating a cross table for each unique pair of categorical variables in a data frame.

Usage

```
ds_auto_freq_table(data, ...)  
ds_auto_cross_table(data, ...)
```

Arguments

data	A <code>data.frame</code> or <code>tibble</code> .
...	Column(s) in data.

Details

ds_auto_freq_table is a extension of the `ds_freq_table` function. It creates a frequency table for each categorical variable in the data frame. ds_auto_cross_table is a extension of the `ds_cross_table` function. It creates a two way table for each unique pair of categorical variables in the data frame.

Deprecated Functions

`ds_oway_tables()` and `ds_tway_tables()` have been deprecated. Instead use `ds_auto_freq_table()` and `ds_auto_cross_table()`.

See Also

`link{ds_freq_table}` `link{ds_cross_table}`

Examples

```
# multiple one way tables  
ds_auto_freq_table(mtcarz)  
ds_auto_freq_table(mtcarz, cyl, gear)  
  
# multiple two way tables  
ds_auto_cross_table(mtcarz)  
ds_auto_cross_table(mtcarz, cyl, gear, am)
```

ds_auto_group_summary *Tabulation*

Description

Generate summary statistics for all continuous variables in data.

Usage

```
ds_auto_group_summary(data, ...)
```

Arguments

- | | |
|-------------------|--|
| <code>data</code> | A <code>data.frame</code> or <code>tibble</code> . |
| <code>...</code> | Column(s) in data. |

Examples

```
ds_auto_group_summary(mtcarz, cyl, gear, mpg, disp)
```

ds_auto_summary_stats *Descriptive statistics and frequency tables*

Description

Generate summary statistics & frequency table for all continuous variables in data.

Usage

```
ds_auto_summary_stats(data, ...)
```

Arguments

- | | |
|-------------------|--|
| <code>data</code> | A <code>data.frame</code> or <code>tibble</code> . |
| <code>...</code> | Column(s) in data. |

Examples

```
ds_auto_summary_stats(mtcarz)
ds_auto_summary_stats(mtcarz, disp, hp)
```

ds_cross_table	<i>Two way table</i>
----------------	----------------------

Description

Creates two way tables of categorical variables. The tables created can be visualized as barplots and mosaicplots.

Usage

```
ds_cross_table(data, var1, var2)

## S3 method for class 'ds_cross_table'
plot(x, stacked = FALSE, proportional = FALSE, print_plot = TRUE, ...)

ds_twoway_table(data, var1, var2)
```

Arguments

data	A <code>data.frame</code> or a <code>tibble</code> .
var1	First categorical variable.
var2	Second categorical variable.
x	An object of class <code>cross_table</code> .
stacked	If FALSE, the columns of height are portrayed as stacked bars, and if TRUE the columns are portrayed as juxtaposed bars.
proportional	If TRUE, the height of the bars is proportional.
print_plot	logical; if TRUE, prints the plot else returns a plot object.
...	Further arguments to be passed to or from methods.

Examples

```
k <- ds_cross_table(mtcars, cyl, gear)
k

# bar plots
plot(k)
plot(k, stacked = TRUE)
plot(k, proportional = TRUE)

# alternate
ds_twoway_table(mtcars, cyl, gear)
```

ds_css	<i>Corrected Sum of Squares</i>
--------	---------------------------------

Description

Compute the corrected sum of squares

Usage

```
ds_css(x, data = NULL, na.rm = FALSE)
```

Arguments

<code>x</code>	a numeric vector.
<code>data</code>	a <code>data.frame</code> or <code>tibble</code> .
<code>na.rm</code>	a logical value indicating whether NA values should be stripped before the computation proceeds.

Examples

```
ds_css(mtcars$mpg)
ds_css(mpg, mtcars)
```

ds_cvar	<i>Coefficient of Variation</i>
---------	---------------------------------

Description

Compute the coefficient of variation

Usage

```
ds_cvar(x, data = NULL, na.rm = FALSE)
```

Arguments

<code>x</code>	a numeric vector
<code>data</code>	a <code>data.frame</code> or <code>tibble</code>
<code>na.rm</code>	a logical value indicating whether NA values should be stripped before the computation proceeds.

Examples

```
ds_cvar(mtcars$mpg)
ds_cvar(mpg, mtcars)
```

ds_extreme_obs	<i>Extreme observations</i>
----------------	-----------------------------

Description

Returns the most extreme observations.

Usage

```
ds_extreme_obs(data, column)
```

Arguments

data	A <code>data.frame</code> or <code>tibble</code> .
column	Column in data.

Examples

```
ds_extreme_obs(mtcars, mpg)
```

ds_freq_table	<i>Frequency table</i>
---------------	------------------------

Description

Frequency table for categorical and continuous data and returns the frequency, cumulative frequency, frequency percent and cumulative frequency percent. `plot.ds_freq_table()` creates bar plot for the categorical data and histogram for continuous data.

Usage

```
ds_freq_table(data, variable, bins = 5)

## S3 method for class 'ds_freq_table'
plot(x, print_plot = TRUE, ...)
```

Arguments

data	A <code>data.frame</code> or a <code>tibble</code> .
variable	Column in data.
bins	Number of intervals into which the data must be split.
x	An object of class <code>ds_freq_table</code> .
print_plot	logical; if <code>TRUE</code> , prints the plot else returns a plot object.
...	Further arguments to be passed to or from methods.

See Also

[ds_cross_table](#)

Examples

```
# categorical data
ds_freq_table(mtcarz, cyl)

# barplot
k <- ds_freq_table(mtcarz, cyl)
plot(k)

# continuous data
ds_freq_table(mtcarz, mpg)

# barplot
k <- ds_freq_table(mtcarz, mpg)
plot(k)
```

ds_gmean

Geometric Mean

Description

Computes the geometric mean

Usage

```
ds_gmean(x, data = NULL, na.rm = FALSE, ...)
```

Arguments

<code>x</code>	a numeric vector
<code>data</code>	a <code>data.frame</code> or <code>tibble</code>
<code>na.rm</code>	a logical value indicating whether NA values should be stripped before the computation proceeds.
<code>...</code>	further arguments passed to or from other methods

See Also

[ds_hmean](#) [mean](#)

Examples

```
ds_gmean(mtcars$mpg)
ds_gmean(mpg, mtcars)
```

ds_group_summary *Groupwise descriptive statistics*

Description

Descriptive statistics of a continuous variable for the different levels of a categorical variable. boxplot.group_summary() creates boxplots of the continuous variable for the different levels of the categorical variable.

Usage

```
ds_group_summary(data, gvar, cvar)

## S3 method for class 'ds_group_summary'
plot(x, print_plot = TRUE, ...)
```

Arguments

data	A <code>data.frame</code> or a <code>tibble</code> .
gvar	Column in <code>data</code> .
cvar	Column in <code>data</code> .
x	An object of the class <code>ds_group_summary</code> .
print_plot	logical; if <code>TRUE</code> , prints the plot else returns a plot object.
...	Further arguments to be passed to or from methods.

Value

`ds_group_summary()` returns an object of class "ds_group_summary". An object of class "ds_group_summary" is a list containing the following components:

stats	A data frame containing descriptive statistics for the different levels of the factor variable.
tidy_stats	A <code>tibble</code> containing descriptive statistics for the different levels of the factor variable.
plotdata	Data for boxplot method.

See Also

[ds_summary_stats](#)

Examples

```
# ds_group_summary
ds_group_summary(mtcars, cyl, mpg)

# boxplot
k <- ds_group_summary(mtcars, cyl, mpg)
plot(k)

# tibble
k$tidy_stats
```

ds_group_summary_interact

Category wise descriptive statistics

Description

Descriptive statistics of a continuous variable for the combination of levels of two or more categorical variables.

Usage

```
ds_group_summary_interact(data, cvar, ...)
```

Arguments

- data A `data.frame` or a `tibble`.
- cvar Column in data; continuous variable.
- ... Columns in data; categorical variables.

See Also

[ds_group_summary](#)

Examples

```
ds_group_summary_interact(mtcars, mpg, cyl, gear)
```

ds_hmean

Harmonic Mean

Description

Computes the harmonic mean

Usage

```
ds_hmean(x, data = NULL, na.rm = FALSE, ...)
```

Arguments

- | | |
|-------|--|
| x | a numeric vector. |
| data | a <code>data.frame</code> or <code>tibble</code> . |
| na.rm | a logical value indicating whether NA values should be stripped before the computation proceeds. |
| ... | further arguments passed to or from other methods |

See Also

[ds_gmean](#) [mean](#)

Examples

```
ds_hmean(mtcars$mpg)  
ds_hmean(mpg, mtcars)
```

ds_kurtosis

Kurtosis

Description

Compute the kurtosis of a probability distribution.

Usage

```
ds_kurtosis(x, data = NULL, na.rm = FALSE)
```

Arguments

- | | |
|-------|--|
| x | a numeric vector |
| data | a <code>data.frame</code> or <code>tibble</code> |
| na.rm | a logical value indicating whether NA values should be stripped before the computation proceeds. |

References

Sheskin, D.J. (2000) Handbook of Parametric and Nonparametric Statistical Procedures, Second Edition. Boca Raton, Florida: Chapman & Hall/CRC.

See Also

`ds_skewness`

Examples

```
ds_kurtosis(mtcars$mpg)  
ds_kurtosis(mpg, mtcars)
```

`ds_launch_shiny_app` *Launch Shiny App*

Description

Launches shiny app

Usage

```
ds_launch_shiny_app()
```

Deprecated Function

`launch_descriptr()` has been deprecated. Instead use `ds_launch_shiny_app()`.

Examples

```
## Not run:  
ds_launch_shiny_app()  
  
## End(Not run)
```

ds_mdev	<i>Mean Absolute Deviation</i>
---------	--------------------------------

Description

Compute the mean absolute deviation about the mean

Usage

```
ds_mdev(x, data = NULL, na.rm = FALSE)
```

Arguments

x	a numeric vector
data	a <code>data.frame</code> or <code>tibble</code>
na.rm	a logical value indicating whether NA values should be stripped before the computation proceeds.

Details

The `ds_mdev` function computes the mean absolute deviation about the mean. It is different from `mad` in `stats` package as the statistic used to compute the deviations is not `median` but `mean`. Any NA values are stripped from `x` before computation takes place

See Also

[mad](#)

Examples

```
ds_mdev(mtcars$mpg)
ds_mdev(mpg, mtcars)
```

ds_measures_location	<i>Measures of location</i>
----------------------	-----------------------------

Description

Returns the measures of location such as mean, median & mode.

Usage

```
ds_measures_location(data, ..., trim = 0.05)
```

Arguments

data	A <code>data.frame</code> or <code>tibble</code> .
...	Column(s) in <code>data</code> .
trim	The fraction of values to be trimmed before computing the mean.

Examples

```
ds_measures_location(mtcarz)
ds_measures_location(mtcarz, mpg)
ds_measures_location(mtcarz, mpg, disp)
```

`ds_measures_symmetry` *Measures of symmetry*

Description

Returns the measures of symmetry such as skewness and kurtosis.

Usage

```
ds_measures_symmetry(data, ...)
```

Arguments

data	A <code>data.frame</code> or <code>tibble</code> .
...	Column(s) in <code>data</code> .

Examples

```
ds_measures_symmetry(mtcarz)
ds_measures_symmetry(mtcarz, mpg)
ds_measures_symmetry(mtcarz, mpg, disp)
```

ds_measures_variation *Measures of variation*

Description

Returns the measures of location such as range, variance and standard deviation.

Usage

```
ds_measures_variation(data, ...)
```

Arguments

data	A <code>data.frame</code> or <code>tibble</code> .
...	Column(s) in <code>data</code> .

Examples

```
ds_measures_variation(mtcarz)
ds_measures_variation(mtcarz, mpg)
ds_measures_variation(mtcarz, mpg, disp)
```

ds_mode *Mode*

Description

Compute the sample mode

Usage

```
ds_mode(x, na.rm = FALSE)
```

Arguments

x	a numeric vector containing the values whose mode is to be computed
na.rm	a logical value indicating whether NA values should be stripped before the computation proceeds.

Details

Any NA values are stripped from x before computation takes place.

Value

Mode of x

See Also[mean](#) [median](#)**Examples**

```
ds_mode(mtcars$mpg)  
ds_mode(mtcars$cyl)
```

ds_percentiles *Percentiles*

Description

Returns the percentiles

Usage

```
ds_percentiles(data, ...)
```

Arguments

data	A <code>data.frame</code> or <code>tibble</code> .
...	Column(s) in data.

Examples

```
ds_percentiles(mtcarz)  
ds_percentiles(mtcarz, mpg)  
ds_percentiles(mtcarz, mpg, disp)
```

ds_plot_bar *Generate bar plots*

Description

Creates bar plots if the data has categorical variables.

Usage

```
ds_plot_bar(data, ..., fill = "blue", print_plot = TRUE)
```

Arguments

data	A <code>data.frame</code> or <code>tibble</code> .
...	Column(s) in <code>data</code> .
fill	Color of the bars.
print_plot	logical; if <code>TRUE</code> , prints the plot else returns a plot object.

Examples

```
ds_plot_bar(mtcars)
ds_plot_bar(mtcars, cyl)
ds_plot_bar(mtcars, cyl, gear)
```

ds_plot_bar_grouped *Generate grouped bar plots*

Description

Creates grouped bar plots if the data has categorical variables.

Usage

```
ds_plot_bar_grouped(data, ..., print_plot = TRUE)
```

Arguments

data	A <code>data.frame</code> or <code>tibble</code> .
...	Column(s) in <code>data</code> .
print_plot	logical; if <code>TRUE</code> , prints the plot else returns a plot object.

Examples

```
mt <- dplyr::select(mtcars, cyl, gear, am)
ds_plot_bar_grouped(mt)
ds_plot_bar_grouped(mtcars, cyl, gear)
```

`ds_plot_bar_stacked` *Generate stacked bar plots*

Description

Creates stacked bar plots if the data has categorical variables.

Usage

```
ds_plot_bar_stacked(data, ..., print_plot = TRUE)
```

Arguments

<code>data</code>	A <code>data.frame</code> or <code>tibble</code> .
<code>...</code>	Column(s) in <code>data</code> .
<code>print_plot</code>	logical; if <code>TRUE</code> , prints the plot else returns a plot object.

Examples

```
mt <- dplyr::select(mtcars, cyl, gear, am)
ds_plot_bar_stacked(mt)
ds_plot_bar_stacked(mtcars, cyl, gear)
```

`ds_plot_box_group` *Compare distributions*

Description

Creates box plots if the data has both categorical & continuous variables.

Usage

```
ds_plot_box_group(data, ..., print_plot = TRUE)
```

Arguments

<code>data</code>	A <code>data.frame</code> or <code>tibble</code> .
<code>...</code>	Column(s) in <code>data</code> .
<code>print_plot</code>	logical; if <code>TRUE</code> , prints the plot else returns a plot object.

Examples

```
mt <- dplyr::select(mtcars, cyl, disp, mpg)
ds_plot_box_group(mt)
ds_plot_box_group(mtcars, cyl, gear, mpg)
```

ds_plot_box_single *Generate box plots*

Description

Creates box plots if the data has continuous variables.

Usage

```
ds_plot_box_single(data, ..., print_plot = TRUE)
```

Arguments

data	A <code>data.frame</code> or <code>tibble</code> .
...	Column(s) in data.
print_plot	logical; if <code>TRUE</code> , prints the plot else returns a plot object.

Examples

```
ds_plot_box_single(mtcarz)
ds_plot_box_single(mtcarz, mpg)
ds_plot_box_single(mtcarz, mpg, disp, hp)
```

ds_plot_density *Generate density plots*

Description

Creates density plots if the data has continuous variables.

Usage

```
ds_plot_density(data, ..., color = "blue", print_plot = TRUE)
```

Arguments

data	A <code>data.frame</code> or <code>tibble</code> .
...	Column(s) in data.
color	Color of the plot.
print_plot	logical; if <code>TRUE</code> , prints the plot else returns a plot object.

Examples

```
ds_plot_density(mtcarz)
ds_plot_density(mtcarz, mpg)
ds_plot_density(mtcarz, mpg, disp, hp)
```

`ds_plot_histogram` *Generate histograms*

Description

Creates histograms if the data has continuous variables.

Usage

```
ds_plot_histogram(data, ..., bins = 5, fill = "blue", print_plot = TRUE)
```

Arguments

<code>data</code>	A <code>data.frame</code> or <code>tibble</code> .
<code>...</code>	Column(s) in <code>data</code> .
<code>bins</code>	Number of bins in the histogram.
<code>fill</code>	Color of the histogram.
<code>print_plot</code>	logical; if <code>TRUE</code> , prints the plot else returns a plot object.

Examples

```
ds_plot_histogram(mtcarz)
ds_plot_histogram(mtcarz, mpg)
ds_plot_histogram(mtcarz, mpg, disp, hp)
```

`ds_plot_scatter` *Generate scatter plots*

Description

Creates scatter plots if the data has continuous variables.

Usage

```
ds_plot_scatter(data, ..., print_plot = TRUE)
```

Arguments

<code>data</code>	A <code>data.frame</code> or <code>tibble</code> .
<code>...</code>	Column(s) in <code>data</code> .
<code>print_plot</code>	logical; if <code>TRUE</code> , prints the plot else returns a plot object.

Examples

```
ds_plot_scatter(mtcarz)
ds_plot_scatter(mtcarz, mpg, disp)
```

ds_range

Range

Description

Compute the range of a numeric vector

Usage

```
ds_range(x, data = NULL, na.rm = FALSE)
```

Arguments

- | | |
|-------|--|
| x | a numeric vector or column name. |
| data | a <code>data.frame</code> or <code>tibble</code> . |
| na.rm | a logical value indicating whether NA values should be stripped before the computation proceeds. |

Value

Range of x

See Also

[range](#)

Examples

```
ds_range(mtcars$mpg)
ds_range(mpg, mtcars)
```

ds_rindex*Index Values***Description**

Returns index of values.

Usage

```
ds_rindex(data, values)
```

Arguments

<code>data</code>	a numeric vector
<code>values</code>	a numeric vector containing the values whose index is returned

Value

Index of the values in `data`. In case, `data` does not contain `index`, `NULL` is returned.

Examples

```
ds_rindex(mtcars$mpg, 21)
ds_rindex(mtcars$mpg, 22)
```

ds_screener*Screen data***Description**

Screen data and return details such as variable names, class, levels and missing values. `plot.ds_screener()` creates bar plots to visualize of missing observations for each variable in a data set.

Usage

```
ds_screener(data)

## S3 method for class 'ds_screener'
plot(x, ...)
```

Arguments

<code>data</code>	A <code>tibble</code> or a <code>data.frame</code> .
<code>x</code>	An object of class <code>ds_screener</code> .
<code>...</code>	Further arguments to be passed to or from methods.

Value

`ds_screener()` returns an object of class "ds_screener". An object of class "ds_screener" is a list containing the following components:

Rows	Number of rows in the data frame.
Columns	Number of columns in the data frame.
Variables	Names of the variables in the data frame.
Types	Class of the variables in the data frame.
Count	Length of the variables in the data frame.
nlevels	Number of levels of a factor variable.
levels	Levels of factor variables in the data frame.
Missing	Number of missing observations in each variable.
MissingPer	Percent of missing observations in each variable.
MissingTotal	Total number of missing observations in the data frame.
MissingTotPer	Total percent of missing observations in the data frame.
MissingRows	Total number of rows with missing observations in the data frame.
MissingCols	Total number of columns with missing observations in the data frame.

Examples

```
# screen data
ds_screener(mtcars)
ds_screener(airquality)

# plot
x <- ds_screener(airquality)
plot(x)
```

ds_skewness

*Skewness***Description**

Compute the skewness of a probability distribution.

Usage

```
ds_skewness(x, data = NULL, na.rm = FALSE)
```

Arguments

x	a numeric vector
data	a <code>data.frame</code> or <code>tibble</code>
na.rm	a logical value indicating whether NA values should be stripped before the computation proceeds.

References

Sheskin, D.J. (2000) Handbook of Parametric and Nonparametric Statistical Procedures, Second Edition. Boca Raton, Florida: Chapman & Hall/CRC.

See Also

kurtosis

Examples

```
ds_skewness(mtcars$mpg)  
ds_skewness(mpg, mtcars)
```

ds_std_error *Standard error of mean*

Description

Returns the standard error of mean.

Usage

```
ds_std_error(x)
```

Arguments

x A numeric vector.

Examples

```
ds_std_error(mtcars$mpg)
```

ds_summary_stats *Descriptive statistics*

Description

Range of descriptive statistics for continuous data.

Usage

```
ds_summary_stats(data, ...)
```

Arguments

- data A `data.frame` or `tibble`.
... Column(s) in `data`.

See Also

[summary](#) [ds_freq_table](#) [ds_cross_table](#)

Examples

```
ds_summary_stats(mtcars, mpg)
```

ds_tailobs

Tail Observations

Description

Returns the n highest/lowest observations from a numeric vector.

Usage

```
ds_tailobs(data, n, type = c("low", "high"))
```

Arguments

- data a numeric vector
n number of observations to be returned
type if `low`, the n lowest observations are returned, else the highest n observations are returned

Details

Any NA values are stripped from `data` before computation takes place.

Value

n highest/lowest observations from `data`

See Also

[top_n](#)

Examples

```
ds_tailobs(mtcars$mpg, 5)  
ds_tailobs(mtcars$mpg, 5, type = "high")
```

ds_tidy_stats	<i>Tidy descriptive statistics</i>
---------------	------------------------------------

Description

Descriptive statistics for multiple variables.

Usage

```
ds_tidy_stats(data, ...)
```

Arguments

data	A tibble or a data.frame.
...	Columns in x.

Value

A tibble.

Deprecated Functions

`ds_multi_stats()` have been deprecated. Instead use `ds_tidy_stats()`.

Examples

```
ds_tidy_stats(mtcarz)
ds_tidy_stats(mtcarz, mpg, disp, hp)
```

hsb	<i>High School and Beyond Data Set</i>
-----	--

Description

A dataset containing demographic information and standardized test scores of high school students.

Usage

```
hsb
```

Format

A data frame with 200 rows and 10 variables:

id id of the student
female gender of the student
race ethnic background of the student
ses socio-economic status of the student
schtyp school type
prog program type
read scores from test of reading
write scores from test of writing
math scores from test of math
science scores from test of science
socst scores from test of social studies

Source

<https://nces.ed.gov/surveys/hsb/>

mtcarzmtcarz

Description

Copy of mtcars data set with modified variable types

Usage

mtcarz

Format

An object of class `data.frame` with 32 rows and 11 columns.

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