

Package ‘modelssummary’

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Type Package

Title Summary Tables and Plots for Statistical Models and Data: Beautiful, Customizable, and Publication-Ready

Description Create beautiful and customizable tables to summarize several statistical models side-by-side. Draw coefficient plots, multi-level cross-tabs, dataset summaries, balance tables (a.k.a. “Table 1s”), and correlation matrices. This package supports dozens of statistical models, and it can produce tables in HTML, LaTeX, Word, Markdown, PDF, PowerPoint, Excel, RTF, JPG, or PNG. Tables can easily be embedded in ‘Rmarkdown’ or ‘knitr’ dynamic documents.

Version 0.6.6

URL <https://vincentarelbundock.github.io/modelssummary/>

BugReports <https://github.com/vincentarelbundock/modelssummary/issues/>

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glue,
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performance,
tables

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<code>coef_rename</code>	<i>Rename model terms</i>
--------------------------	---------------------------

Description

A convenience function which can be passed to the `'coef_rename'` argument of the `'modelsummary'` function.

Usage

```
coef_rename(
  x,
  factor = TRUE,
  factor_name = TRUE,
  backticks = TRUE,
  titlecase = TRUE,
  underscore = TRUE,
  asis = TRUE
)
```

Arguments

- `x` character vector of term names to transform
- `factor` boolean remove the "factor()" label
- `factor_name` boolean remove the "factor()" label and the name of the variable
- `backticks` boolean remove backticks
- `titlecase` boolean convert to title case
- `underscore` boolean replace underscores by spaces
- `asis` boolean remove the 'I' from as-is formula calls

<code>datasummary</code>	<i>Summary tables using 2-sided formulae: crosstabs, frequencies, table 1s and more.</i>
--------------------------	--

Description

`'datasummary'` can use any summary function which produces one numeric or character value per variable. The examples section of this documentation shows how to define custom summary functions. The package also ships with several shortcut summary functions: `Min`, `Max`, `Mean`, `Median`, `Var`, `SD`, `NPercent`, `NUnique`, `Ncol`, `P0`, `P25`, `P50`, `P75`, `P100`.

Usage

```

datasummary(
  formula,
  data,
  output = "default",
  fmt = 2,
  title = NULL,
  notes = NULL,
  align = NULL,
  add_columns = NULL,
  add_rows = NULL,
  sparse_header = TRUE
)

```

Arguments

formula	A two-sided formula to describe the table: rows ~ columns. See the Examples section for a mini-tutorial and the Details section for more resources.
data	A data.frame (or tibble)
output	filename or object type (character string) <ul style="list-style-type: none"> • Supported filename extensions: .html, .tex, .md, .txt, .png, .jpg. • Supported object types: "default", "html", "markdown", "latex", "latex_tabular", "data.frame", "gt", "kableExtra", "huxtable", "flextable". • Warning: the 'output' argument <i>cannot</i> be used when customizing tables with external packages. See the 'Details' section below.
fmt	determines how to format numeric values <ul style="list-style-type: none"> • integer: the number of digits to keep after the period 'format(round(x, fmt), nsmall=fmt)' • character: passed to the 'sprintf' function (e.g., '%.3f' keeps 3 digits with trailing zero). See '?sprintf' • function: returns a formatted character string.
title	string
notes	list or vector of notes to append to the bottom of the table.
align	A character string of length equal to the number of columns in the table. "lcr" means that the first column will be left-aligned, the 2nd column center-aligned, and the 3rd column right-aligned.
add_columns	a data.frame (or tibble) with the same number of rows as your main table.
add_rows	a data.frame (or tibble) with the same number of columns as your main table. By default, rows are appended to the bottom of the table. You can define a "position" attribute of integers to set the row positions. See Examples section below.
sparse_header	TRUE or FALSE. TRUE eliminates column headers which have a unique label across all columns, except for the row immediately above the data. FALSE keeps all headers. The order in which terms are entered in the formula determines the order in which headers appear. For example, 'x~mean*z' will print the 'mean'-related header above the 'z'-related header.'

Details

Visit the 'modelssummary' website for more usage examples: <https://vincentarelbundock.github.io/modelssummary>

The 'datasummary' function is a thin wrapper around the 'tabular' function from the 'tables' package. More details about table-making formulas can be found in the 'tables' package documentation: `?tables::tabular`

Hierarchical or "nested" column labels are only available for these output formats: `kableExtra`, `gt`, `html`, `rtf`, and `LaTeX`. When saving tables to other formats, nested labels will be combined to a "flat" header.

Examples

```
## Not run:

# The left-hand side of the formula describes rows, and the right-hand side
# describes columns. This table uses the "mpg" variable as a row and the "mean"
# function as a column:

datasummary(mpg ~ mean, data = mtcars)

# This table uses the "mean" function as a row and the "mpg" variable as a column:

datasummary(mean ~ mpg, data = mtcars)

# Display several variables or functions of the data using the "+"
# concatenation operator. This table has 2 rows and 2 columns:

datasummary(hp + mpg ~ mean + sd, data = mtcars)

# Nest variables or statistics inside a "factor" variable using the "*" nesting
# operator. This table shows the mean of "hp" and "mpg" for each value of
# "cyl":

mtcars$cyl <- as.factor(mtcars$cyl)
datasummary(hp + mpg ~ cyl * mean, data = mtcars)

# If you don't want to convert your original data
# to factors, you can use the 'Factor()'
# function inside 'datasummary' to obtain an identical result:

datasummary(hp + mpg ~ Factor(cyl) * mean, data = mtcars)

# You can nest several variables or statistics inside a factor by using
# parentheses. This table shows the mean and the standard deviation for each
# subset of "cyl":

datasummary(hp + mpg ~ cyl * (mean + sd), data = mtcars)

# Summarize all numeric variables with 'All()'
datasummary(All(mtcars) ~ mean + sd, data = mtcars)

# Define custom summary statistics. Your custom function should accept a vector
```

```

# of numeric values and return a single numeric or string value:

minmax <- function(x) sprintf("[%.2f, %.2f]", min(x), max(x))
mean_na <- function(x) mean(x, na.rm = TRUE)

datasummary(hp + mpg ~ minmax + mean_na, data = mtcars)

# To handle missing values, you can pass arguments to your functions using
# '*Arguments()'

datasummary(hp + mpg ~ mean * Arguments(na.rm = TRUE), data = mtcars)

# For convenience, 'modelsummary' supplies several convenience functions
# with the argument `na.rm=TRUE` by default: Mean, Median, Min, Max, SD, Var,
# P0, P25, P50, P75, P100, NUnique, Histogram

datasummary(hp + mpg ~ Mean + SD + Histogram, data = mtcars)

# These functions also accept a 'fmt' argument which allows you to
# round/format the results

datasummary(hp + mpg ~ Mean * Arguments(fmt = "%.3f") + SD * Arguments(fmt = "%.1f"), data = mtcars)

# Save your tables to a variety of output formats:
f <- hp + mpg ~ Mean + SD
datasummary(f, data = mtcars, output = 'table.html')
datasummary(f, data = mtcars, output = 'table.tex')
datasummary(f, data = mtcars, output = 'table.md')
datasummary(f, data = mtcars, output = 'table.docx')
datasummary(f, data = mtcars, output = 'table.pptx')
datasummary(f, data = mtcars, output = 'table.jpg')
datasummary(f, data = mtcars, output = 'table.png')

# Display human-readable code
datasummary(f, data = mtcars, output = 'html')
datasummary(f, data = mtcars, output = 'markdown')
datasummary(f, data = mtcars, output = 'latex')

# Return a table object to customize using a table-making package
datasummary(f, data = mtcars, output = 'gt')
datasummary(f, data = mtcars, output = 'kableExtra')
datasummary(f, data = mtcars, output = 'flectable')
datasummary(f, data = mtcars, output = 'huxtable')

# add_rows
new_rows <- data.frame(a = 1:2, b = 2:3, c = 4:5)
attr(new_rows, 'position') <- c(1, 3)
datasummary(mpg + hp ~ mean + sd, data = mtcars, add_rows = new_rows)

## End(Not run)

```

datasummary_balance *Balance table: Summary statistics for different subsets of the data (e.g., control and treatment groups)*

Description

Balance table: Summary statistics for different subsets of the data (e.g., control and treatment groups)

Usage

```
datasummary_balance(
  formula,
  data,
  output = "default",
  fmt = 1,
  title = NULL,
  notes = NULL,
  align = NULL,
  add_columns = NULL,
  add_rows = NULL,
  dinm = TRUE,
  dinm_statistic = "std.error",
  ...
)
```

Arguments

formula	a one-sided formula with the "condition" or "column" variable on the right-hand side.
data	A data.frame (or tibble). If this data includes columns called "blocks", "clusters", and/or "weights", the 'estimatr' package will consider them when calculating the difference in means.
output	filename or object type (character string) <ul style="list-style-type: none"> Supported filename extensions: .html, .tex, .md, .txt, .png, .jpg. Supported object types: "default", "html", "markdown", "latex", "latex_tabular", "data.frame", "gt", "kableExtra", "huxtable", "flextable". Warning: the 'output' argument <i>cannot</i> be used when customizing tables with external packages. See the 'Details' section below.
fmt	determines how to format numeric values <ul style="list-style-type: none"> integer: the number of digits to keep after the period 'format(round(x, fmt), nsmall=fmt)' character: passed to the 'sprintf' function (e.g., '%.3f' keeps 3 digits with trailing zero). See '?sprintf' function: returns a formatted character string.

<code>title</code>	string
<code>notes</code>	list or vector of notes to append to the bottom of the table.
<code>align</code>	A character string of length equal to the number of columns in the table. "lcr" means that the first column will be left-aligned, the 2nd column center-aligned, and the 3rd column right-aligned.
<code>add_columns</code>	a data.frame (or tibble) with the same number of rows as your main table.
<code>add_rows</code>	a data.frame (or tibble) with the same number of columns as your main table. By default, rows are appended to the bottom of the table. You can define a "position" attribute of integers to set the row positions. See Examples section below.
<code>dinm</code>	TRUE calculates a difference in means with uncertainty estimates. This option is only available if the 'estimatr' package is installed. If 'data' includes columns named "blocks", "clusters", or "weights", this information will be taken into account automatically by 'estimatr::difference_in_means'.
<code>dinm_statistic</code>	string: "std.error" or "p.value"
<code>...</code>	all other arguments are passed through to the extractor and table-making functions. This allows users to specify additional options such as set 'broom::tidy(exponentiate=TRUE)' to exponentiate logistic regression coefficients or 'kableExtra::kbl(escape=FALSE)' to avoid escaping math characters in 'kableExtra' tables.

Examples

```
## Not run:
datasummary_balance(~am, mtcars)

## End(Not run)
```

```
datasummary_correlation
```

Generate a correlation table for all numeric variables in your dataset.

Description

Generate a correlation table for all numeric variables in your dataset.

Usage

```
datasummary_correlation(
  data,
  output = "default",
  fmt = 2,
  title = NULL,
  notes = NULL
)
```


Arguments

data	A data.frame (or tibble)
output	filename or object type (character string) <ul style="list-style-type: none"> Supported filename extensions: .html, .tex, .md, .txt, .png, .jpg. Supported object types: "default", "html", "markdown", "latex", "latex_tabular", "data.frame", "gt", "kableExtra", "huxtable", "flextable". Warning: the 'output' argument <i>cannot</i> be used when customizing tables with external packages. See the 'Details' section below.
fmt	determines how to format numeric values <ul style="list-style-type: none"> integer: the number of digits to keep after the period 'format(round(x, fmt), nsmall=fmt)' character: passed to the 'sprintf' function (e.g., '%.3f' keeps 3 digits with trailing zero). See '?sprintf' function: returns a formatted character string.
title	string
notes	list or vector of notes to append to the bottom of the table.

datasummary_df

Draw a table from a data.frame

Description

Draw a table from a data.frame

Usage

```
datasummary_df(
  data,
  output = "default",
  fmt = 2,
  align = NULL,
  hrule = NULL,
  title = NULL,
  notes = NULL,
  add_rows = NULL,
  add_columns = NULL,
  ...
)
```

Arguments

data	A data.frame (or tibble)
output	filename or object type (character string) <ul style="list-style-type: none"> Supported filename extensions: .html, .tex, .md, .txt, .png, .jpg. Supported object types: "default", "html", "markdown", "latex", "latex_tabular", "data.frame", "gt", "kableExtra", "huxtable", "flextable". Warning: the 'output' argument <i>cannot</i> be used when customizing tables with external packages. See the 'Details' section below.
fmt	determines how to format numeric values <ul style="list-style-type: none"> integer: the number of digits to keep after the period 'format(round(x, fmt), nsmall=fmt)' character: passed to the 'sprintf' function (e.g., '%.3f' keeps 3 digits with trailing zero). See '?sprintf' function: returns a formatted character string.
align	A character string of length equal to the number of columns in the table. "lcr" means that the first column will be left-aligned, the 2nd column center-aligned, and the 3rd column right-aligned.
hrule	position of horizontal rules (integer vector)
title	string
notes	list or vector of notes to append to the bottom of the table.
add_rows	a data.frame (or tibble) with the same number of columns as your main table. By default, rows are appended to the bottom of the table. You can define a "position" attribute of integers to set the row positions. See Examples section below.
add_columns	a data.frame (or tibble) with the same number of rows as your main table.
...	all other arguments are passed through to the extractor and table-making functions. This allows users to specify additional options such as set 'broom::tidy(exponentiate=TRUE)' to exponentiate logistic regression coefficients or 'kableExtra::kbl(escape=FALSE)' to avoid escaping math characters in 'kableExtra' tables.

 datasummary_skim

Quick overview of numeric or categorical variables

Description

This function was inspired by the excellent 'skimr' package for R.

Usage

```

datasummary_skim(
  data,
  type = "numeric",
  output = "default",
  fmt = "%.1f",
  histogram = TRUE,
  title = NULL,
  notes = NULL,
  align = NULL,
  ...
)

```

Arguments

data	A data.frame (or tibble)
type	of variables to summarize: "numeric" or "categorical" (character)
output	filename or object type (character string) <ul style="list-style-type: none"> • Supported filename extensions: .html, .tex, .md, .txt, .png, .jpg. • Supported object types: "default", "html", "markdown", "latex", "latex_tabular", "data.frame", "gt", "kableExtra", "huxtable", "flextable". • Warning: the 'output' argument <i>cannot</i> be used when customizing tables with external packages. See the 'Details' section below.
fmt	determines how to format numeric values <ul style="list-style-type: none"> • integer: the number of digits to keep after the period 'format(round(x, fmt), nsmall=fmt)' • character: passed to the 'sprintf' function (e.g., '%.3f' keeps 3 digits with trailing zero). See '?sprintf' • function: returns a formatted character string.
histogram	include a histogram (TRUE/FALSE). Supported for: <ul style="list-style-type: none"> • type = "numeric" • output is "html", "default", "jpg", "png", or "kableExtra" • PDF and HTML documents compiled via Rmarkdown or knitr • See the examples section below for an example of how to use 'datasummary' to include histograms in other formats such as markdown.
title	string
notes	list or vector of notes to append to the bottom of the table.
align	A character string of length equal to the number of columns in the table. "lcr" means that the first column will be left-aligned, the 2nd column center-aligned, and the 3rd column right-aligned.
...	all other arguments are passed through to the extractor and table-making functions. This allows users to specify additional options such as set 'broom::tidy(exponentiate=TRUE)' to exponentiate logistic regression coefficients or 'kableExtra::kbl(escape=FALSE)' to avoid escaping math characters in 'kableExtra' tables.

Examples

```
## Not run:
dat <- mtcars
dat$vs <- as.logical(dat$vs)
dat$cyl <- as.factor(dat$vs)
datasummary_skim(dat)
datasummary_skim(dat, "categorical")

# You can use `datasummary` to produce a similar table in different formats.
# Note that the `Histogram` function relies on unicode characters. These
# characters will only display correctly in some operating systems, under some
# locales, using some fonts. Displaying such histograms on Windows computers
# is notoriously tricky. The `modelsummary` authors cannot provide support to
# display these unicode histograms.

f <- All(mtcars) ~ Mean + SD + Min + Median + Max + Histogram
datasummary(f, mtcars, output="markdown")

## End(Not run)
```

get_estimates	<i>Extract model estimates. A mostly internal function with some potential uses outside.</i>
---------------	--

Description

Extract model estimates. A mostly internal function with some potential uses outside.

Usage

```
get_estimates(model, conf_level = 0.95, ...)
```

Arguments

model	a single model object
conf_level	confidence level to use for confidence intervals
...	all other arguments are passed through to the extractor and table-making functions. This allows users to specify additional options such as set <code>'broom::tidy(exponentiate=TRUE)'</code> to exponentiate logistic regression coefficients or <code>'kableExtra::kbl(escape=FALSE)'</code> to avoid escaping math characters in <code>'kableExtra'</code> tables.

get_gof	<i>Extract model gof A mostly internal function with some potential uses outside.</i>
---------	---

Description

Extract model gof A mostly internal function with some potential uses outside.

Usage

```
get_gof(model, ...)
```

Arguments

model	a single model object
...	all other arguments are passed through to the extractor and table-making functions. This allows users to specify additional options such as set <code>'broom::tidy(exponentiate=TRUE)'</code> to exponentiate logistic regression coefficients or <code>'kableExtra::kbl(escape=FALSE)'</code> to avoid escaping math characters in <code>'kableExtra'</code> tables.

glance_custom	<i>Extract custom information from a model object and turn it into a tidy data.frame or tibble with a single row.</i>
---------------	---

Description

To customize the output of a model of class `'lm'`, you can define a new method called `'glance_custom.lm'` which returns a one-row `data.frame`.

Usage

```
glance_custom(x)
```

Arguments

x	model or other R object to convert to single-row data frame
---	---

Methods

No methods found in currently loaded packages.

`gof_map`*Data.frame used to clean up and format goodness-of-fit statistics*

Description

By default, this data frame is passed to the 'gof_map' argument of the 'modelsummary' function. Users can modify this data frame to customize the list of statistics to display and their format. See example below.

Usage`gof_map`**Format**

data.frame with 4 columns of character data: raw, clean, fmt, omit

Examples

```
## Not run:

library(modelsummary)
mod <- lm(wt ~ drat, data = mtcars)
gm <- modelsummary::gof_map
gm$omit[gm$raw == 'deviance'] <- FALSE
gm$fmt[gm$raw == 'r.squared'] <- "%.5f"
modelsummary(mod, gof_map = gm)

## End(Not run)
```

`Histogram`*datasummary statistic shortcut*

Description

This function uses Unicode characters to create a histogram. This can sometimes be useful, but is generally discouraged. Unicode characters can only display a limited number of heights for bars, and the accuracy of output is highly dependent on the platform (typeface, output type, windows vs. mac, etc.). We recommend you use the 'kableExtra::spec_hist' function instead.

Usage`Histogram(x, bins = 10)`

Arguments

x	variable to summarize
bins	number of histogram bars

Max	<i>datasummary statistic shortcut</i>
-----	---------------------------------------

Description

datasummary statistic shortcut

Usage

```
Max(x, fmt = NULL, na.rm = TRUE, ...)
```

Arguments

x	variable to summarize
fmt	passed to the 'modelsummary:::rounding' function
na.rm	a logical value indicating whether 'NA' values should be stripped before the computation proceeds.
...	unused

Examples

```
## Not run:
datasummary(mpg + hp ~ Mean + Median + P0 + P25 + P50 + P75 + P100 +
             Min + Max + SD + Var,
             data = mtcars)

## End(Not run)
```

Mean	<i>datasummary statistic shortcut</i>
------	---------------------------------------

Description

datasummary statistic shortcut

Usage

```
Mean(x, fmt = NULL, na.rm = TRUE, ...)
```

Arguments

x	variable to summarize
fmt	passed to the ‘modelsummary:::rounding’ function
na.rm	a logical value indicating whether ‘NA’ values should be stripped before the computation proceeds.
...	unused

Examples

```
## Not run:
datasummary(mpg + hp ~ Mean + P0 + P25 + P50 + P75 + P100 +
             Min + Max + SD + Var,
             data = mtcars)

## End(Not run)
```

Median	<i>datasummary statistic shortcut</i>
--------	---------------------------------------

Description

datasummary statistic shortcut

Usage

```
Median(x, fmt = NULL, na.rm = TRUE, ...)
```

Arguments

x	variable to summarize
fmt	passed to the ‘modelsummary:::rounding’ function
na.rm	a logical value indicating whether ‘NA’ values should be stripped before the computation proceeds.
...	unused

Examples

```
## Not run:
datasummary(mpg + hp ~ Mean + Median + P0 + P25 + P50 + P75 + P100 +
             Min + Max + SD + Var,
             data = mtcars)

## End(Not run)
```

Min	<i>datasummary statistic shortcut</i>
-----	---------------------------------------

Description

datasummary statistic shortcut

Usage

```
Min(x, fmt = NULL, na.rm = TRUE, ...)
```

Arguments

x	variable to summarize
fmt	passed to the 'modelsummary::rounding' function
na.rm	a logical value indicating whether 'NA' values should be stripped before the computation proceeds.
...	unused

Examples

```
## Not run:
datasummary(mpg + hp ~ Mean + Median + P0 + P25 + P50 + P75 + P100 +
             Min + Max + SD + Var,
             data = mtcars)

## End(Not run)
```

modelplot	<i>Plot model coefficients using points or point-ranges</i>
-----------	---

Description

Plot model coefficients using points or point-ranges

Usage

```
modelplot(
  models,
  conf_level = 0.95,
  coef_map = NULL,
  coef_omit = NULL,
  coef_rename = NULL,
  vcov = NULL,
  add_rows = NULL,
```

```

facet = FALSE,
draw = TRUE,
background = NULL,
...
)

```

Arguments

<code>models</code>	a model or (optionally named) list of models
<code>conf_level</code>	confidence level to use for confidence intervals
<code>coef_map</code>	named character vector. Values refer to the variable names that will appear in the table. Names refer to the original term names stored in the model object, e.g. <code>c("hp:mpg"="hp X mpg")</code> for an interaction term. Coefficients that are omitted from this vector will be omitted from the table. The table will be ordered in the same order as this vector.
<code>coef_omit</code>	string regular expression. Omits all matching coefficients from the table using <code>'grepl(perl=TRUE)'</code> .
<code>coef_rename</code>	named character vector. Values refer to the variable names that will appear in the table. Names refer to the original term names stored in the model object, e.g. <code>c("hp:mpg"="hp X mpg")</code> for an interaction term.
<code>vcov</code>	robust standard errors and other manual statistics. The <code>'vcov'</code> argument accepts five types of input (see the <code>'Details'</code> and <code>'Examples'</code> sections below): <ul style="list-style-type: none"> • string, vector, or list of strings: <code>"robust"</code>, <code>"HC"</code>, <code>"HC0"</code>, <code>"HC1"</code>, <code>"HC2"</code>, <code>"HC3"</code>, <code>"HC4"</code>, <code>"HC4m"</code>, <code>"HC5"</code>, <code>"stata"</code>, or <code>"classical"</code> (alias <code>"constant"</code> or <code>"iid"</code>). • formula or list of formulas with the cluster variable(s) on the right-hand side (e.g., <code>~clusterid</code>). • function or list of functions which return variance-covariance matrices with row and column names equal to the names of your coefficient estimates (e.g., <code>'stats::vcov'</code>, <code>'sandwich::vcovHC'</code>). • list of <code>'length(models)'</code> variance-covariance matrices with row and column names equal to the names of your coefficient estimates. • a list of <code>length(models)</code> vectors with names equal to the names of your coefficient estimates. See <code>'Examples'</code> section below.
<code>add_rows</code>	a <code>data.frame</code> (or <code>tibble</code>) with the same number of columns as your main table. By default, rows are appended to the bottom of the table. You can define a <code>"position"</code> attribute of integers to set the row positions. See <code>Examples</code> section below.
<code>facet</code>	<code>TRUE</code> or <code>FALSE</code> . When the <code>'models'</code> argument includes several model objects, <code>TRUE</code> draws terms in separate facets, and <code>FALSE</code> draws terms side-by-side (<code>dodged</code>).
<code>draw</code>	<code>TRUE</code> returns a <code>'ggplot2'</code> object, <code>FALSE</code> returns the <code>data.frame</code> used to draw the plot.
<code>background</code>	A list of <code>'ggplot2'</code> geoms to add to the background of the plot. This is especially useful to display annotations "behind" the <code>'geom_pointrange'</code> that <code>'modelplot'</code> draws.

... all other arguments are passed through to the extractor and table-making functions. This allows users to specify additional options such as set `'broom::tidy(exponentiate=TRUE)'` to exponentiate logistic regression coefficients or `'kableExtra::kbl(escape=FALSE)'` to avoid escaping math characters in `'kableExtra'` tables.

Examples

```
## Not run:

library(modelsummary)

# single model
mod <- lm(hp ~ vs + drat, mtcars)
modelplot(mod)

# omit terms with string matches or regexes
modelplot(mod, coef_omit = 'Interc')

# rename, reorder and subset with 'coef_map'
cm <- c('vs' = 'V-shape engine',
        'drat' = 'Rear axle ratio')
modelplot(mod, coef_map = cm)

# several models
models <- list()
models[['Small model']] <- lm(hp ~ vs, mtcars)
models[['Medium model']] <- lm(hp ~ vs + factor(cyl), mtcars)
models[['Large model']] <- lm(hp ~ vs + drat + factor(cyl), mtcars)
modelplot(models)

# add_rows: add an empty reference category

mod <- lm(hp ~ factor(cyl), mtcars)

add_rows = data.frame(
  term = "factory(cyl)4",
  model = "Model 1",
  estimate = NA)
attr(add_rows, "position") = 3
modelplot(mod, add_rows = add_rows)

# customize your plots with 'ggplot2' functions
library(ggplot2)

modelplot(models) +
  scale_color_brewer(type = 'qual') +
  theme_classic()

# pass arguments to 'geom_pointrange' through the ... ellipsis
modelplot(mod, color = 'red', size = 1, fatten = .5)
```

```
# add geoms to the background, behind geom_pointrange
b <- list(geom_vline(xintercept = 0, color = 'orange'),
  annotate("rect", alpha = .1,
    xmin = -.5, xmax = .5,
    ymin = -Inf, ymax = Inf),
  geom_point(aes(y = term, x = estimate), alpha = .3,
    size = 10, color = 'red', shape = 'square'))
modelplot(mod, background = b)

## End(Not run)
```

modelssummary

Simple, Beautiful, and Customizable Model Summaries

Description

Simple, Beautiful, and Customizable Model Summaries

Usage

```
modelssummary(  
  models,  
  output = "default",  
  fmt = 3,  
  estimate = "estimate",  
  statistic = "std.error",  
  vcov = NULL,  
  conf_level = 0.95,  
  stars = FALSE,  
  coef_map = NULL,  
  coef_omit = NULL,  
  coef_rename = NULL,  
  gof_map = NULL,  
  gof_omit = NULL,  
  add_rows = NULL,  
  align = NULL,  
  notes = NULL,  
  title = NULL,  
  ...  
)
```

Arguments

models	a model or (optionally named) list of models
output	filename or object type (character string) <ul style="list-style-type: none">• Supported filename extensions: .html, .tex, .md, .txt, .png, .jpg.

	<ul style="list-style-type: none"> • Supported object types: "default", "html", "markdown", "latex", "latex_tabular", "data.frame", "gt", "kableExtra", "huxtable", "flextable". • Warning: the 'output' argument <i>cannot</i> be used when customizing tables with external packages. See the 'Details' section below.
fmt	<p>determines how to format numeric values</p> <ul style="list-style-type: none"> • integer: the number of digits to keep after the period 'format(round(x, fmt), nsmall=fmt)' • character: passed to the 'sprintf' function (e.g., '%.3f' keeps 3 digits with trailing zero). See '?sprintf' • function: returns a formatted character string.
estimate	<p>string or 'glue' string of the estimate to display (or a vector with one string per model). Valid entries include any column name of the data.frame produced by 'get_estimates(model)'. Examples:</p> <ul style="list-style-type: none"> • "estimate" • "{estimate} (std.error){stars}" • "{estimate} [{conf.low}, {conf.high}]"
statistic	<p>vector of strings or 'glue' strings which select uncertainty statistics to report vertically below the estimate. NULL omits all uncertainty statistics.</p> <ul style="list-style-type: none"> • "conf.int", "std.error", "statistic", "p.value", "conf.low", "conf.high", or any column name produced by: 'get_estimates(model)' • 'glue' package strings with braces, such as: <ul style="list-style-type: none"> – "{p.value} [{conf.low}, {conf.high}]" – "Std.Error: {std.error}" • Note: Parentheses are added automatically unless the string includes 'glue' curly braces {}. • Note: To report uncertainty statistics <i>next</i> to coefficients, you can supply a 'glue' string to the 'estimate' argument.
vcov	<p>robust standard errors and other manual statistics. The 'vcov' argument accepts five types of input (see the 'Details' and 'Examples' sections below):</p> <ul style="list-style-type: none"> • string, vector, or list of strings: "robust", "HC", "HC0", "HC1", "HC2", "HC3", "HC4", "HC4m", "HC5", "stata", or "classical" (alias "constant" or "iid"). • formula or list of formulas with the cluster variable(s) on the right-hand side (e.g., ~clusterid). • function or list of functions which return variance-covariance matrices with row and column names equal to the names of your coefficient estimates (e.g., 'stats::vcov', 'sandwich::vcovHC'). • list of 'length(models)' variance-covariance matrices with row and column names equal to the names of your coefficient estimates. • a list of length(models) vectors with names equal to the names of your coefficient estimates. See 'Examples' section below.
conf_level	<p>confidence level to use for confidence intervals</p>
stars	<p>to indicate statistical significance</p>

	<ul style="list-style-type: none"> • FALSE (default): no significance stars. • TRUE: *=.1, **=.05, ***=.01 • Named numeric vector for custom stars such as <code>c('*' = .1, '+' = .05)</code>
<code>coef_map</code>	named character vector. Values refer to the variable names that will appear in the table. Names refer to the original term names stored in the model object, e.g. <code>c("hp:mpg"="hp X mpg")</code> for an interaction term. Coefficients that are omitted from this vector will be omitted from the table. The table will be ordered in the same order as this vector.
<code>coef_omit</code>	string regular expression. Omits all matching coefficients from the table using <code>'grepl(perl=TRUE)'</code> .
<code>coef_rename</code>	named character vector. Values refer to the variable names that will appear in the table. Names refer to the original term names stored in the model object, e.g. <code>c("hp:mpg"="hp X mpg")</code> for an interaction term.
<code>gof_map</code>	<ul style="list-style-type: none"> • NULL (default): the <code>'modelssummary::gof_map'</code> dictionary is used for formatting, and all unknown statistic are included. • data.frame with 3 columns named "raw", "clean", "fmt". Unknown statistics are omitted. See the 'Examples' section below. • list of lists, each of which includes 3 elements named "raw", "clean", "fmt". Unknown statistics are omitted. See the 'Examples section below'.
<code>gof_omit</code>	string regular expression. Omits all matching gof statistics from the table (using <code>'grepl(perl=TRUE)'</code>).
<code>add_rows</code>	a data.frame (or tibble) with the same number of columns as your main table. By default, rows are appended to the bottom of the table. You can define a "position" attribute of integers to set the row positions. See Examples section below.
<code>align</code>	A character string of length equal to the number of columns in the table. "lcr" means that the first column will be left-aligned, the 2nd column center-aligned, and the 3rd column right-aligned.
<code>notes</code>	list or vector of notes to append to the bottom of the table.
<code>title</code>	string
<code>...</code>	all other arguments are passed through to the extractor and table-making functions. This allows users to specify additional options such as set <code>'broom::tidy(exponentiate=TRUE)'</code> to exponentiate logistic regression coefficients or <code>'kableExtra::kbl(escape=FALSE)'</code> to avoid escaping math characters in <code>'kableExtra'</code> tables.

Details

`'output'` argument:

When a file name is supplied to the `'output'` argument, the table is written immediately to file. If you want to customize your table by post-processing it with an external package, you need to choose a different output format and saving mechanism. Unfortunately, the approach differs from package to package:

- `'gt'`: set `'output="gt"'`, post-process your table, and use the `'gt::gtsave'` function.

- ‘kableExtra’: set ‘output’ to your destination format (e.g., "latex", "html", "markdown"), post-process your table, and use ‘kableExtra::save_kable’ function.

‘vcov’ argument:

To use a string such as "robust" or "HC0", your model must be supported by the ‘sandwich’ package. This includes objects such as: lm, glm, survreg, coxph, mlogit, polr, hurdle, zeroinfl, and more.

"classical", "iid", and "constant" are aliases which do not modify uncertainty estimates and simply report the default standard errors stored in the model object.

One-sided formulas such as ‘~clusterid’ are passed to the ‘sandwich::vcovCL’ function.

Matrices and functions producing variance-covariance matrices are first passed to ‘lmtest’. If this does not work, ‘modelsummary’ attempts to take the square root of the diagonal to adjust "std.error", but the other uncertainty estimates are not be adjusted.

Numeric vectors are formatted according to ‘fmt’ and placed in brackets. Character vectors printed as given, without parentheses.

If your model type is supported by the ‘lmtest’ package, the ‘vcov’ argument will try to use that package to adjust all the uncertainty estimates, including "std.error", "statistic", "p.value", and "conf.int". If your model is not supported by ‘lmtest’, only the "std.error" will be adjusted by, for example, taking the square root of the matrix’s diagonal.

Value

a regression table in a format determined by the ‘output’ argument.

Examples

```
## Not run:

# The `modelsummary` website includes \emph{many} examples and tutorials:
# https://vincentarelbundock.github.io/modelsummary

library(modelsummary)

# load data and estimate models
data(trees)
models <- list()
models[['Bivariate']] <- lm(Girth ~ Height, data = trees)
models[['Multivariate']] <- lm(Girth ~ Height + Volume, data = trees)

# simple table
modelsummary(models)

# statistic
modelsummary(models, statistic = NULL)
modelsummary(models, statistic = 'p.value')
modelsummary(models, statistic = 'statistic')
modelsummary(models, statistic = 'conf.int', conf_level = 0.99)
modelsummary(models, statistic = c("t = {statistic}",
                                   "se = {std.error}",
                                   "conf.int"))
```

```

# estimate
modelsummary(models,
  statistic = NULL,
  estimate = "{estimate} [{conf.low}, {conf.high}]"
)
modelsummary(models,
  estimate = c("{estimate}{stars}",
    "{estimate} ({std.error})")

# vcov
modelsummary(models, vcov = "robust")
modelsummary(models, vcov = list("classical", "stata"))
modelsummary(models, vcov = sandwich::vcovHC)
modelsummary(models,
  vcov = list(stats::vcov, sandwich::vcovHC))
modelsummary(models,
  vcov = list(c("(Intercept)"="!", "Height"="!!"),
    c("(Intercept)"="!", "Height"="!!", "Volume"="!!!")))

# coef_rename
modelsummary(models, coef_map = c('Volume' = 'Large', 'Height' = 'Tall'))

# coef_map
modelsummary(models, coef_map = c('Volume' = 'Large', 'Height' = 'Tall'))

# title
modelsummary(models, title = 'This is the title')

# add_rows
rows <- tibble::tribble(~term, ~Bivariate, ~Multivariate,
  'Empty row', '-', '-',
  'Another empty row', '?', '?')
attr(rows, 'position') <- c(1, 3)
modelsummary(models, add_rows = rows)

# notes
modelsummary(models, notes = list('A first note', 'A second note'))

# gof_map: data.frame
gm <- modelsummary::gof_map
gof_custom$omit[gof_custom$raw == 'deviance'] <- FALSE
gof_custom$fmt[gof_custom$raw == 'r.squared'] <- "%.5f"
modelsummary(models, gof_map = gof_custom)

# gof_map: list of lists
f1 <- function(x) format(round(x, 3), big.mark=",")
f2 <- function(x) format(round(x, 0), big.mark=",")
gm <- list(
  list("raw" = "nobs", "clean" = "N", "fmt" = f2),
  list("raw" = "AIC", "clean" = "aic", "fmt" = f1))
modelsummary(models,
  fmt = f1,
  gof_map = gm)

```



```
## End(Not run)
```

modelsummary_wide *Simple, Beautiful, and Customizable Model Summaries*

Description

‘modelsummary_wide’ is a specialized function to display groups of parameters from a single model in separate columns. This can be useful, for example, to display the different levels of coefficients in a multinomial regression model (e.g., ‘nnet::multinom’). The ‘coef_group’ argument specifies the name of the group identifier.

Usage

```
modelsummary_wide(
  models,
  output = "default",
  fmt = 3,
  estimate = "estimate",
  statistic = "std.error",
  vcov = NULL,
  conf_level = 0.95,
  stars = FALSE,
  coef_group = NULL,
  coef_map = NULL,
  coef_omit = NULL,
  coef_rename = NULL,
  gof_map = NULL,
  gof_omit = NULL,
  add_rows = NULL,
  align = NULL,
  notes = NULL,
  title = NULL,
  stacking = "horizontal",
  ...
)
```

Arguments

models	a model or (optionally named) list of models
output	filename or object type (character string) <ul style="list-style-type: none"> Supported filename extensions: .html, .tex, .md, .txt, .png, .jpg. Supported object types: "default", "html", "markdown", "latex", "latex_tabular", "data.frame", "gt", "kableExtra", "huxtable", "flextable".

	<ul style="list-style-type: none"> Warning: the ‘output’ argument <i>cannot</i> be used when customizing tables with external packages. See the ‘Details’ section below.
fmt	<p>determines how to format numeric values</p> <ul style="list-style-type: none"> integer: the number of digits to keep after the period ‘format(round(x, fmt), nsmall=fmt)’ character: passed to the ‘sprintf’ function (e.g., ‘%.3f’ keeps 3 digits with trailing zero). See ‘?sprintf’ function: returns a formatted character string.
estimate	<p>string or ‘glue’ string of the estimate to display (or a vector with one string per model). Valid entries include any column name of the data.frame produced by ‘get_estimates(model)’. Examples:</p> <ul style="list-style-type: none"> "estimate" "{estimate} ({std.error}){stars}" "{estimate} [{conf.low}, {conf.high}]"
statistic	<p>vector of strings or ‘glue’ strings which select uncertainty statistics to report vertically below the estimate. NULL omits all uncertainty statistics.</p> <ul style="list-style-type: none"> "conf.int", "std.error", "statistic", "p.value", "conf.low", "conf.high", or any column name produced by: ‘get_estimates(model)’ ‘glue’ package strings with braces, such as: <ul style="list-style-type: none"> – "{p.value} [{conf.low}, {conf.high}]" – "Std.Error: {std.error}" Note: Parentheses are added automatically unless the string includes ‘glue’ curly braces {}. Note: To report uncertainty statistics <i>next</i> to coefficients, you can supply a ‘glue’ string to the ‘estimate’ argument.
vcov	<p>robust standard errors and other manual statistics. The ‘vcov’ argument accepts five types of input (see the ‘Details’ and ‘Examples’ sections below):</p> <ul style="list-style-type: none"> string, vector, or list of strings: "robust", "HC", "HC0", "HC1", "HC2", "HC3", "HC4", "HC4m", "HC5", "stata", or "classical" (alias "constant" or "iid"). formula or list of formulas with the cluster variable(s) on the right-hand side (e.g., ~clusterid). function or list of functions which return variance-covariance matrices with row and column names equal to the names of your coefficient estimates (e.g., ‘stats::vcov’, ‘sandwich::vcovHC’). list of ‘length(models)’ variance-covariance matrices with row and column names equal to the names of your coefficient estimates. a list of length(models) vectors with names equal to the names of your coefficient estimates. See ‘Examples’ section below.
conf_level	<p>confidence level to use for confidence intervals</p>
stars	<p>to indicate statistical significance</p> <ul style="list-style-type: none"> FALSE (default): no significance stars. TRUE: *=.1, **=.05, ***=.01

	<ul style="list-style-type: none"> Named numeric vector for custom stars such as <code>'c('*' = .1, '+' = .05)'</code>
<code>coef_group</code>	the name of the coefficient groups to use as columns (NULL or character). If <code>'coef_group'</code> is NULL, <code>'modelsummary'</code> tries to guess the correct coefficient group identifier. To be valid, this identifier must be a column in the data.frame produced by <code>'tidy(model)'</code> . Note: you may have to load the <code>'broom'</code> or <code>'broom.mixed'</code> package before executing <code>'tidy(model)'</code> .
<code>coef_map</code>	named character vector. Values refer to the variable names that will appear in the table. Names refer to the original term names stored in the model object, e.g. <code>c("hp:mpg"="hp X mpg")</code> for an interaction term. Coefficients that are omitted from this vector will be omitted from the table. The table will be ordered in the same order as this vector.
<code>coef_omit</code>	string regular expression. Omits all matching coefficients from the table using <code>'grepl(perl=TRUE)'</code> .
<code>coef_rename</code>	named character vector. Values refer to the variable names that will appear in the table. Names refer to the original term names stored in the model object, e.g. <code>c("hp:mpg"="hp X mpg")</code> for an interaction term.
<code>gof_map</code>	<ul style="list-style-type: none"> NULL (default): the <code>'modelsummary::gof_map'</code> dictionary is used for formatting, and all unknown statistic are included. data.frame with 3 columns named "raw", "clean", "fmt". Unknown statistics are omitted. See the 'Examples' section below. list of lists, each of which includes 3 elements named "raw", "clean", "fmt". Unknown statistics are omitted. See the 'Examples section below'.
<code>gof_omit</code>	string regular expression. Omits all matching gof statistics from the table (using <code>'grepl(perl=TRUE)'</code>).
<code>add_rows</code>	a data.frame (or tibble) with the same number of columns as your main table. By default, rows are appended to the bottom of the table. You can define a "position" attribute of integers to set the row positions. See Examples section below.
<code>align</code>	A character string of length equal to the number of columns in the table. "lcr" means that the first column will be left-aligned, the 2nd column center-aligned, and the 3rd column right-aligned.
<code>notes</code>	list or vector of notes to append to the bottom of the table.
<code>title</code>	string
<code>stacking</code>	direction in which models are stacked: "horizontal" or "vertical"
<code>...</code>	all other arguments are passed through to the extractor and table-making functions. This allows users to specify additional options such as set <code>'broom::tidy(exponentiate=TRUE)'</code> to exponentiate logistic regression coefficients or <code>'kableExtra::kbl(escape=FALSE)'</code> to avoid escaping math characters in <code>'kableExtra'</code> tables.

Value

a regression table in a format determined by the `'output'` argument.

N *datasummary statistic shortcut*

Description

datasummary statistic shortcut

Usage

N(x)

Arguments

x variable to summarize

Examples

```
## Not run:  
datasummary(Factor(cyl) ~ N, data = mtcars)  
  
## End(Not run)
```

Ncol *datasummary statistic shortcut*

Description

datasummary statistic shortcut

Usage

Ncol(x, ...)

Arguments

x variable to summarize
... unused

NPercent	<i>datasummary statistic shortcut</i>
----------	---------------------------------------

Description

datasummary statistic shortcut

Usage

```
NPercent(x, y)
```

Arguments

x	variable to summarize
y	denominator variable

NUnique	<i>datasummary statistic shortcut</i>
---------	---------------------------------------

Description

datasummary statistic shortcut

Usage

```
NUnique(x, ...)
```

Arguments

x	variable to summarize
...	unused

Examples

```
## Not run:  
datasummary(cyl + hp ~ NUnique, data = mtcars)  
  
## End(Not run)
```

P0 *datasummary statistic shortcut*

Description

datasummary statistic shortcut

Usage

```
P0(x, fmt = NULL, na.rm = TRUE, ...)
```

Arguments

x	variable to summarize
fmt	passed to the 'modelsummary::rounding' function
na.rm	a logical value indicating whether 'NA' values should be stripped before the computation proceeds.
...	unused

Examples

```
## Not run:
datasummary(mpg + hp ~ Mean + Median + P0 + P25 + P50 + P75 + P100 +
             Min + Max + SD + Var,
             data = mtcars)

## End(Not run)
```

P100 *datasummary statistic shortcut*

Description

datasummary statistic shortcut

Usage

```
P100(x, fmt = NULL, na.rm = TRUE, ...)
```

Arguments

x	variable to summarize
fmt	passed to the 'modelsummary::rounding' function
na.rm	a logical value indicating whether 'NA' values should be stripped before the computation proceeds.
...	unused

Examples

```
## Not run:
datasummary(mpg + hp ~ Mean + Median + P0 + P25 + P50 + P75 + P100 +
            Min + Max + SD + Var,
            data = mtcars)

## End(Not run)
```

P25

datasummary statistic shortcut

Description

datasummary statistic shortcut

Usage

```
P25(x, fmt = NULL, na.rm = TRUE, ...)
```

Arguments

x	variable to summarize
fmt	passed to the 'modelsummary:::rounding' function
na.rm	a logical value indicating whether 'NA' values should be stripped before the computation proceeds.
...	unused

Examples

```
## Not run:
datasummary(mpg + hp ~ Mean + Median + P0 + P25 + P50 + P75 + P100 +
            Min + Max + SD + Var,
            data = mtcars)

## End(Not run)
```

P50 *datasummary statistic shortcut*

Description

`datasummary statistic shortcut`

Usage

```
P50(x, fmt = NULL, na.rm = TRUE, ...)
```

Arguments

<code>x</code>	variable to summarize
<code>fmt</code>	passed to the <code>'modelsummary::rounding'</code> function
<code>na.rm</code>	a logical value indicating whether <code>'NA'</code> values should be stripped before the computation proceeds.
<code>...</code>	unused

Examples

```
## Not run:
datasummary(mpg + hp ~ Mean + Median + P0 + P25 + P50 + P75 + P100 +
            Min + Max + SD + Var,
            data = mtcars)

## End(Not run)
```

P75 *datasummary statistic shortcut*

Description

`datasummary statistic shortcut`

Usage

```
P75(x, fmt = NULL, na.rm = TRUE, ...)
```

Arguments

<code>x</code>	variable to summarize
<code>fmt</code>	passed to the <code>'modelsummary::rounding'</code> function
<code>na.rm</code>	a logical value indicating whether <code>'NA'</code> values should be stripped before the computation proceeds.
<code>...</code>	unused

Examples

```
## Not run:
datasummary(mpg + hp ~ Mean + Median + P0 + P25 + P50 + P75 + P100 +
            Min + Max + SD + Var,
            data = mtcars)

## End(Not run)
```

PercentMissing	<i>datasummary statistic shortcut</i>
----------------	---------------------------------------

Description

datasummary statistic shortcut

Usage

PercentMissing(x)

Arguments

x variable to summarize

SD	<i>datasummary statistic shortcut</i>
----	---------------------------------------

Description

datasummary statistic shortcut

Usage

SD(x, fmt = NULL, na.rm = TRUE, ...)

Arguments

x variable to summarize

fmt passed to the 'modelsummary::rounding' function

na.rm a logical value indicating whether 'NA' values should be stripped before the computation proceeds.

... unused

Examples

```
## Not run:
datasummary(mpg + hp ~ Mean + Median + P0 + P25 + P50 + P75 + P100 +
            Min + Max + SD + Var,
            data = mtcars)

## End(Not run)
```

supported_models	<i>List of model objects from which 'modelssummary' can extract estimates and statistics</i>
------------------	--

Description

List of model objects from which 'modelssummary' can extract estimates and statistics

Usage

```
supported_models()
```

tidy_custom	<i>Extract custom information from a model object and turn it into a tidy data.frame or tibble</i>
-------------	--

Description

To customize the output of a model of class 'lm', you can define a method called 'tidy_custom.lm' which returns a data.frame with a column called "term", and the other columns you want to use as "estimate" or "statistic" in your 'modelssummary()' call. The output of this method must be similar to the result of 'tidy(model)'.

Usage

```
tidy_custom(x)
```

Arguments

x An object to be converted into a tidy data.frame or tibble.

Value

A data.frame or tibble with information about model components.

Var	<i>datasummary statistic shortcut</i>
-----	---------------------------------------

Description

datasummary statistic shortcut

Usage

```
Var(x, fmt = NULL, na.rm = TRUE, ...)
```

Arguments

x	variable to summarize
fmt	passed to the 'modelsummary::rounding' function
na.rm	a logical value indicating whether 'NA' values should be stripped before the computation proceeds.
...	unused

Examples

```
## Not run:  
datasummary(mpg + hp ~ Mean + Median + P0 + P25 + P50 + P75 + P100 +  
  Min + Max + SD + Var,  
  data = mtcars)  
  
## End(Not run)
```

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