

# Package ‘dotwhisker’

June 24, 2026

**Type** Package

**Title** Dot-and-Whisker Plots of Regression Results

**Version** 0.8.6

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**Description** Create quick and easy dot-and-whisker plots of regression results. It takes as input either (1) a coefficient table in standard form or (2) one (or a list of) fitted model objects (of any type that has methods implemented in the 'parameters' package). It returns 'ggplot' objects that can be further customized using tools from the 'ggplot2' package. The package also includes helper functions for tasks such as rescaling coefficients or relabeling predictor variables. See more methodological discussion of the visualization and data management methods used in this package in Kastel-  
lec and Leoni (2007) <doi:10.1017/S1537592707072209> and Gel-  
man (2008) <doi:10.1002/sim.3107>.

**Encoding** UTF-8

**URL** <https://fsolt.org/dotwhisker/>

**BugReports** <https://github.com/fsolt/dotwhisker/issues>

**Depends** R (>= 4.2.0), ggplot2 (>= 2.2.1),

**Imports** grid, gtable, gridExtra, stats, parameters, performance,  
patchwork, dplyr, stringr, rlang, purrr, marginaffects

**Suggests** ordinal, tibble, knitr, rmarkdown, broom, testthat (>= 3.0.0)

**License** MIT + file LICENSE

**VignetteBuilder** knitr

**Config/testthat/edition** 3

**Config/roxygen2/version** 8.0.0

**NeedsCompilation** no

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**Repository** CRAN

**Date/Publication** 2026-06-24 05:40:02 UTC

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add_brackets	<i>Add Labelled Brackets to Group Predictors in a Dot-and-Whisker Plot</i>
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## Description

add\_brackets draws brackets along the y-axis beyond the plotting area of a dot-and-whisker plot generated by dwplot, useful for labelling groups of predictors

## Usage

```
add_brackets(p, brackets, fontSize = 0.7, face = "italic", ...)
```

## Arguments

p	A plot generated by dwplot. Any ‘ggplot’ customization should be done before passing the plot to add_brackets. To pass the finalized plot to add_brackets without creating an intermediate object, simply wrap the code that generates it in braces ( <code>{`</code> and <code>`}</code> ).
brackets	A list of brackets; each element of the list should be a character vector consisting of (1) a label for the bracket, (2) the name of the topmost variable to be enclosed by the bracket, and (3) the name of the bottom most variable to be enclosed by the bracket.
fontSize	A number defining the size of the bracket label. The default value is .7.
face	A typeface for the bracket labels; options are "plain", "bold", "italic", "oblique", and "bold.italic".
...	Extra arguments to pass to <a href="#">gpar</a> .

**Details**

The brackets are drawn by ‘grid’ functions. Apart from font size and typeface, users can customize the appearance of the bracket labels by setting ‘gpar’ arguments in ‘add\_brackets’.

**Value**

The function returns a ggplot object.

**Examples**

```
library(dplyr)
m1 <- lm(mpg ~ wt + cyl + disp, data = mtcars)
two_brackets <- list(c("Engine", "Cylinder", "Displacement"),
                    c("Not Engine", "Intercept", "Weight"))

{dwplot(m1, show_intercept = TRUE) %>%
  relabel_predictors("(Intercept)" = "Intercept",
                    wt = "Weight",
                    cyl = "Cylinder",
                    disp = "Displacement") +
  theme_bw() + xlab("Coefficient") + ylab("") +
  theme(legend.position="none") +
  geom_vline(xintercept = 0, colour = "grey50", linetype = 2)} %>%
add_brackets(two_brackets)
```

by\_2sd

*Rescale regression results by multiplying by 2 standard deviations***Description**

by\_2sd rescales regression results to facilitate making dot-and-whisker plots using [dwplot](#).

**Usage**

```
by_2sd(df, dataset)
```

**Arguments**

df	A data frame including the variables term (names of independent variables), estimate (corresponding coefficient estimates), std.error (corresponding standard errors), and optionally model (when multiple models are desired on a single plot) such as generated those by <a href="#">tidy</a> .
dataset	The data analyzed in the models whose results are recorded in df, or (preferably) the <i>model matrix</i> used by the models in df; the information required for complex models can more easily be generated from the model matrix than from the original data set. In many cases the model matrix can be extracted from the original model via <a href="#">model.matrix</a> .

## Details

`by_2sd` multiplies the results from regression models saved as tidy data frames for predictors that are not binary by twice the standard deviation of these variables in the dataset analyzed. Standardizing in this way yields coefficients that are directly comparable to each other and to those for untransformed binary predictors (Gelman 2008) and so facilitates plotting using `dwplot`. Note that the current version of `by_2sd` does not subtract the mean (in contrast to Gelman's (2008) formula). However, all estimates and standard errors of the independent variables are the same as if the mean was subtracted. The only difference from Gelman (2008) is that for all variables in the model the intercept is shifted by the coefficient times the mean of the variable.

An alternative available in some circumstances is to pass a model object to `arm::standardize` before passing the results to `tidy` and then on to `dwplot`. The advantages of `by_2sd` are that (1) it takes a tidy data frame as its input and so is not restricted to only those model objects that `standardize` accepts and (2) it is much more efficient because it operates on the parameters rather than refitting the original model with scaled data.

## Value

A tidy data frame

## References

Gelman, Andrew. 2008. "Scaling Regression Inputs by Dividing by Two Standard Deviations." *Statistics in Medicine*, 27:2865-2873.

## Examples

```
library(broom)
library(dplyr)

data(mtcars)
m1 <- lm(mpg ~ wt + cyl + disp, data = mtcars)
m1_df <- tidy(m1) %>% by_2sd(mtcars) # create data frame of rescaled regression results
```

---

dwplot

*Dot-and-Whisker Plots of Regression Results*

---

## Description

`dwplot` is a function for quickly and easily generating dot-and-whisker plots of regression models saved in tidy data frames.

**Usage**

```
dwplot(  
  x,  
  ci = 0.95,  
  dodge_size = 0.4,  
  vars_order = NULL,  
  show_intercept = FALSE,  
  show_stats = FALSE,  
  stats_tb = NULL,  
  stats_digits = 3,  
  stats_compare = FALSE,  
  stats_verbose = FALSE,  
  stats_size = 10,  
  stats_padding = unit(c(4, 4), "mm"),  
  stats_layout = c(2, -1, 1),  
  margins = FALSE,  
  model_name = "model",  
  model_order = NULL,  
  style = c("dotwhisker", "distribution"),  
  by_2sd = FALSE,  
  vline = NULL,  
  dot_args = list(size = 1.2),  
  whisker_args = list(linewidth = 0.5),  
  dist_args = list(alpha = 0.5),  
  line_args = list(alpha = 0.75, linewidth = 1),  
  ...  
)  
  
dw_plot(  
  x,  
  ci = 0.95,  
  dodge_size = 0.4,  
  vars_order = NULL,  
  show_intercept = FALSE,  
  show_stats = FALSE,  
  stats_tb = NULL,  
  stats_digits = 3,  
  stats_compare = FALSE,  
  stats_verbose = FALSE,  
  stats_size = 10,  
  stats_padding = unit(c(4, 4), "mm"),  
  stats_layout = c(2, -1, 1),  
  margins = FALSE,  
  model_name = "model",  
  model_order = NULL,  
  style = c("dotwhisker", "distribution"),  
  by_2sd = FALSE,  
  vline = NULL,
```

```

dot_args = list(size = 1.2),
whisker_args = list(linewidth = 0.5),
dist_args = list(alpha = 0.5),
line_args = list(alpha = 0.75, linewidth = 1),
...
)

```

## Arguments

<code>x</code>	Either a model object to be tidied with <a href="#">tidy</a> , or a list of such model objects, or a tidy data frame of regression results (see 'Details').
<code>ci</code>	A number indicating the level of confidence intervals; the default is <code>.95</code> .
<code>dodge_size</code>	A number indicating how much vertical separation should be between different models' coefficients when multiple models are graphed in a single plot. Lower values tend to look better when the number of independent variables is small, while a higher value may be helpful when many models appear on the same plot; the default is <code>0.4</code> . Note that when using the <a href="#">add_brackets</a> to group the coefficients, a 'dodge_size' above 1 might cause an overlap of the brackets.
<code>vars_order</code>	A vector of variable names that specifies the order in which the variables are to appear along the y-axis of the plot. Note that the order will be overwritten by <a href="#">relabel_predictors</a> , if the function is following called.
<code>show_intercept</code>	A logical constant indicating whether the coefficient of the intercept term should be plotted. The default is <code>FALSE</code> .
<code>show_stats</code>	A logical constant indicating whether to show a table of model fitness statistics under the dot-whisker plot. The default is <code>TRUE</code> .
<code>stats_tb</code>	Customized table of model fit. The table should be in a <code>data.frame</code> .
<code>stats_digits</code>	A numeric value specifying the digits to display in the fitness table. This parameter is relevant only when <code>show_stats = TRUE</code> . Default is <code>3</code> , providing a balance between precision and readability.
<code>stats_compare</code>	A logical constant to enable comparison of statistics in the fitness table. Applicable only when <code>show_stats = TRUE</code> . The default value is <code>FALSE</code> . That is, it presents all the statistics across different modeling methods, yet potentially expanding the table's breadth. When set to <code>TRUE</code> , only the shared, comparable statistics are remained.
<code>stats_verbose</code>	A logical constant to turn on/off the toggle warnings and messages of model fits. The default is <code>FALSE</code> .
<code>stats_size</code>	A numeric value determining the font size in the fitness table, effective only if <code>show_stats = TRUE</code> . The standard setting is <code>10</code> .
<code>stats_padding</code>	Defining the internal margins of the fitness table. Relevant when <code>show_stats = TRUE</code> . Set by default to <code>unit(c(4, 4), "mm")</code> , allowing for a balanced layout. Further customization options refer to <a href="#">tableGrob</a> .
<code>stats_layout</code>	Adjusting the spacing between the dotwhisker plot and the fitness table. Effective when <code>show_stats = TRUE</code> . The initial configuration is <code>c(2, -1, 1)</code> , ensuring a coherent visual flow. Additional layout settings refer to <a href="#">plot_layout</a> .

<code>margins</code>	A logical value indicating whether presenting the average marginal effects of the estimates. See the Details for more information.
<code>model_name</code>	The name of a variable that distinguishes separate models within a tidy data frame.
<code>model_order</code>	A character vector defining the order of the models when multiple models are involved.
<code>style</code>	Either "dotwhisker" or "distribution". "dotwhisker", the default, shows the regression coefficients' point estimates as dots with confidence interval whiskers. "distribution" shows the normal distribution with mean equal to the point estimate and standard deviation equal to the standard error, underscored with a confidence interval whisker.
<code>by_2sd</code>	When <code>x</code> is model object or list of model objects, should the coefficients for predictors that are not binary be rescaled by twice the standard deviation of these variables in the dataset analyzed, per Gelman (2008)? Defaults to FALSE. Note that when <code>x</code> is a tidy data frame, one can use <code>by_2sd</code> to rescale similarly.
<code>vline</code>	A <code>geom_vline()</code> object, typically with <code>xintercept = 0</code> , to be drawn behind the coefficients.
<code>dot_args</code>	When <code>style</code> is "dotwhisker", a list of arguments specifying the appearance of the dots representing mean estimates. For supported arguments, see <a href="#">geom_point</a> .
<code>whisker_args</code>	When <code>style</code> is "dotwhisker", a list of arguments specifying the appearance of the whiskers representing the confidence intervals. For supported arguments, see <a href="#">geom_linerange</a> .
<code>dist_args</code>	When <code>style</code> is "distribution", a list of arguments specifying the appearance of normally distributed regression estimates. For supported arguments, see <a href="#">geom_polygon</a> .
<code>line_args</code>	When <code>style</code> is "distribution", a list of arguments specifying the appearance of the line marking the confidence interval beneath the normal distribution. For supported arguments, see <a href="#">geom_linerange</a> .
<code>...</code>	Extra arguments to pass to <a href="#">parameters</a> .

## Details

`dwplot` visualizes regression model objects or regression results saved in tidy data frames as dot-and-whisker plots generated by [ggplot](#).

Tidy data frames to be plotted should include the variables `term` (names of predictors), `estimate` (corresponding estimates of coefficients or other quantities of interest), `std.error` (corresponding standard errors), and optionally `model` (when multiple models are desired on a single plot; a different name for this last variable may be specified using the `model_name` argument). In place of `std.error` one may substitute `conf.low` (the lower bounds of the confidence intervals of each estimate) and `conf.high` (the corresponding upper bounds).

For convenience, `dwplot` also accepts as input those model objects that can be tidied by [tidy](#) (or [parameters](#) (with proper formatting)), or a list of such model objects.

By default, the plot will display 95-percent confidence intervals. To display a different interval when passing a model object or objects, specify a `ci` argument. When passing a data frame of results, include the variables `conf.low` and `conf.high` describing the bounds of the desired interval.

Because the function can take a data frame as input, it is easily employed for a wide range of models, including those not supported by broom or parameters. And because the output is a ggplot object, it can easily be further customized with any additional arguments and layers supported by ggplot2. Together, these two features make dwplot extremely flexible.

dwplot provides an option to present the average marginal effect directly. Users can alter the confidence intervals of the margins through the `ci` argument. The `'margins'` argument also works for `small_multiple` and `secret_weapon`. Note that for models with categorical outcome variables (such as ordered logit or multinomial regression), each category (level) has its own average marginal effects. To maintain visualization consistency with models with continuous or binary outcomes, dwplot only displays marginal effects for the first category.

To minimize the need for lengthy, distracting regression tables (often relegated to an appendix for dot-whisker plot users), dwplot incorporates optimal model fit statistics directly beneath the dot-whisker plots. These statistics are derived using the excellent `performance` functions and integrated at the plot's base via `patchwork` and `tableGrob` functions. For added flexibility, dwplot includes the `stats_tb` feature, allowing users to input customized statistics. Furthermore, a suite of `stats_*` functions is available for fine-tuning the presentation of these statistics, enhancing user control over the visual output.

## Value

The function returns a ggplot object.

## References

- Kastellec, Jonathan P. and Leoni, Eduardo L. 2007. "Using Graphs Instead of Tables in Political Science." *Perspectives on Politics*, 5(4):755-771.
- Gelman, Andrew. 2008. "Scaling Regression Inputs by Dividing by Two Standard Deviations." *Statistics in Medicine*, 27:2865-2873.

## Examples

```
library(dplyr)
# Plot regression coefficients from a single model object
data(mtcars)
m1 <- lm(mpg ~ wt + cyl + disp, data = mtcars)
dwplot(m1, vline = geom_vline(xintercept = 0, colour = "grey50", linetype = 2)) +
  xlab("Coefficient")
# using 99% confidence interval
dwplot(m1, ci = .99)
# Plot regression coefficients from multiple models
m2 <- update(m1, . ~ . - disp)
dwplot(list(full = m1, nodisp = m2))
# Change the appearance of dots and whiskers
dwplot(m1, dot_args = list(size = 3, pch = 21, fill = "white"))
# Plot regression coefficients from multiple models on the fly
mtcars %>%
  split(.$am) %>%
  purrr::map(~ lm(mpg ~ wt + cyl + disp, data = .x)) %>%
  dwplot() %>%
  relabel_predictors(c(wt = "Weight", cyl = "Cylinders", disp = "Displacement")) +
```

```

theme_bw() + xlab("Coefficient") + ylab("") +
geom_vline(xintercept = 0, colour = "grey60", linetype = 2) +
ggtitle("Predicting Gas Mileage, OLS Estimates") +
theme(plot.title = element_text(face = "bold"),
      legend.position = c(.995, .99),
      legend.justification = c(1, 1),
      legend.background = element_rect(colour="grey80"),
      legend.title.align = .5) +
scale_colour_grey(start = .4, end = .8,
                  name = "Transmission",
                  breaks = c("Model 0", "Model 1"),
                  labels = c("Automatic", "Manual"))

```

---

relabel_predictors	<i>Relabel the Predictors in a Tidy Data Frame of Regression Results</i>
--------------------	--

---

## Description

`relabel_predictors` is a convenience function for relabeling the predictors in a tidy data frame to be passed to `dwplot` or a plot generated by `dwplot`

## Usage

```
relabel_predictors(x, ...)
```

## Arguments

<code>x</code>	Either a tidy data frame to be passed to <code>dwplot</code> or a plot generated by <code>dwplot</code> .
<code>...</code>	Named replacements, as in <code>recode</code> . The argument names should be the current values to be replaced, and the argument values should be the new (replacement) values. For backwards compatibility, a named character vector, with new values as values, and old values as names may also be used. The order of the named replacements will be preserved, so this function also serves the purpose of re-ordering variables.

## Value

The function returns an object of the same type as it is passed: a tidy data frame or a plot generated by `dwplot`.

## Examples

```

library(broom)
library(dplyr)

data(mtcars)
m1 <- lm(mpg ~ wt + cyl + disp, data = mtcars)
m1_df <- broom::tidy(m1) %>%

```

```
relabel_predictors("(Intercept)" = "Intercept",
                  wt = "Weight",
                  disp = "Displacement",
                  cyl = "Cylinder")
dwplot(m1_df)

dwplot(m1, show_intercept = TRUE) %>%
  relabel_predictors("(Intercept)" = "Intercept",
                  wt = "Weight",
                  disp = "Displacement",
                  cyl = "Cylinder")
```

---

relabel\_y\_axis

*Relabel the Y-Axis of a Dot-Whisker Plot*

---

### Description

`relabel_y_axis` DEPRECATED. A convenience function for relabeling the predictors on the y-axis of a dot-whisker plot created by `dwplot`. It is deprecated; use `relabel_predictors` instead.

### Usage

```
relabel_y_axis(x)
```

### Arguments

`x` A vector of labels for predictors, listed from top to bottom

### Value

The function returns an object of the same type as it is passed: a plot generated by `dwplot`.

### See Also

[relabel\\_predictors](#) to relabel predictors on the y-axis of a dot-whisker plot or in a tidy data.frame

---

secret_weapon	<i>Generate a 'Secret Weapon' Plot of Regression Results from Multiple Models</i>
---------------	---

---

### Description

secret\_weapon is a function for plotting regression results of multiple models as a 'secret weapon' plot

### Usage

```
secret_weapon(x, var = NULL, ci = 0.95, margins = FALSE, by_2sd = FALSE, ...)
```

### Arguments

x	Either a model object to be tidied with <a href="#">tidy</a> , or a list of such model objects, or a tidy data frame of regression results (see 'Details').
var	The predictor whose results are to be shown in the 'secret weapon' plot
ci	A number indicating the level of confidence intervals; the default is .95.
margins	A logical value indicating whether presenting the average marginal effects of the estimates. See the Details of <a href="#">dwplot</a> for more information.
by_2sd	When x is a list of model objects, should the coefficients for predictors that are not binary be rescaled by twice the standard deviation of these variables in the dataset analyzed, per Gelman (2008)? Defaults to TRUE. Note that when x is a tidy data frame, one can use <a href="#">by_2sd</a> to rescale similarly.
...	Arguments to pass to <a href="#">dwplot</a> .

### Details

Andrew Gelman has coined the term "the secret weapon" for dot-and-whisker plots that compare the estimated coefficients for a single predictor across many models or datasets. secret\_weapon takes a tidy data frame of regression results or a list of model objects and generates a dot-and-whisker plot of the results of a single variable across the multiple models.

Tidy data frames to be plotted should include the variables term (names of predictors), estimate (corresponding estimates of coefficients or other quantities of interest), std.error (corresponding standard errors), and model (identifying the corresponding model). In place of std.error one may substitute lb (the lower bounds of the confidence intervals of each estimate) and ub (the corresponding upper bounds).

Alternately, secret\_weapon accepts as input a list of model objects that can be tidied by [tidy](#) (or [parameters](#) (with proper formatting)), or a list of such model objects.

### Value

The function returns a ggplot object.

**Examples**

```

library(dplyr)
library(broom)

# Estimate models across many samples, put results in a tidy data frame
by_clarity <- diamonds %>% group_by(clarity) %>%
  do(tidy(lm(price ~ carat + cut + color, data = .))) %>%
  ungroup %>% rename(model = clarity)

# Generate a 'secret weapon' plot of the results of diamond size
secret_weapon(by_clarity, "carat")

```

---

small\_multiple

*Generate a 'Small Multiple' Plot of Regression Results*


---

**Description**

small\_multiple is a function for plotting regression results of multiple models as a 'small multiple' plot

**Usage**

```

small_multiple(
  x,
  ci = 0.95,
  margins = FALSE,
  dodge_size = 0.4,
  show_intercept = FALSE,
  show_stats = FALSE,
  stats_tb = NULL,
  stats_digits = 3,
  stats_compare = FALSE,
  stats_verbose = FALSE,
  stats_size = 10,
  stats_padding = unit(c(4, 4), "mm"),
  stats_layout = c(2, -1, 1),
  model_order = NULL,
  submodel_order = NULL,
  axis_switch = FALSE,
  by_2sd = FALSE,
  dot_args = list(size = 0.3),
  ...
)

```

**Arguments**

x	Either a model object to be tidied with <a href="#">tidy</a> , or a list of such model objects, or a tidy data frame of regression results (see 'Details').
ci	A number indicating the level of confidence intervals; the default is .95.
margins	A logical value indicating whether presenting the average marginal effects of the estimates. See the Details of <code>dwplot</code> for more information.
dodge_size	A number indicating how much horizontal separation should appear between different submodels' coefficients when multiple submodels are graphed in a single plot; the default is .4. Lower values tend to look better when the number of models is small, while a higher value may be helpful when many submodels appear on the same plot.
show_intercept	A logical constant indicating whether the coefficient of the intercept term should be plotted.
show_stats	A logical constant indicating whether to show a table of model fitness statistics under the dot-whisker plot. The default is TRUE.
stats_tb	Customized table of model fitness. The table should be in a <code>data.frame</code> .
stats_digits	A numeric value specifying the digits to display in the fitness table. This parameter is relevant only when <code>show_stats = TRUE</code> . Default is 3, providing a balance between precision and readability.
stats_compare	A logical constant to enable comparison of statistics in the fitness table. Applicable only when <code>show_stats = TRUE</code> . The default value is FALSE. That is, it presents all the statistics across different modeling methods, yet potentially expanding the table's breadth. When set to TRUE, only the shared, comparable statistics are remained.
stats_verbose	A logical constant to turn on/off the toggle warnings and messages of model fits. The default is FALSE.
stats_size	A numeric value determining the font size in the fitness table, effective only if <code>show_stats = TRUE</code> . The standard setting is 10.
stats_padding	Defining the internal margins of the fitness table. Relevant when <code>show_stats = TRUE</code> . Set by default to <code>unit(c(4, 4), "mm")</code> , allowing for a balanced layout. Further customization options refer to <a href="#">tableGrob</a> .
stats_layout	Adjusting the spacing between the dotwhisker plot and the fitness table. Effective when <code>show_stats = TRUE</code> . The initial configuration is <code>c(2, -1, 1)</code> , ensuring a coherent visual flow. Additional layout settings refer to <a href="#">plot_layout</a> .
model_order	A character vector defining the order in which the models appear along the x-axis when multiple models are involved. The entries should match the model labels; for an unnamed list of model objects these are "Model 1", "Model 2", and so on.
submodel_order	A character vector defining the order of the submodels (mapped to colour) when multiple submodels are involved. The entries should match the submodel labels.
axis_switch	A logical constant indicating the position of variable labels and y axis ticks. Default is FALSE, when the variable label is on the right side, and y axis ticks is on the left size.

by_2sd	When <code>x</code> is model object or list of model objects, should the coefficients for predictors that are not binary be rescaled by twice the standard deviation of these variables in the dataset analyzed, per Gelman (2008)? Defaults to <code>FALSE</code> . Note that when <code>x</code> is a tidy data frame, one can use <code>by_2sd</code> to rescale similarly.
dot_args	A list of arguments specifying the appearance of the dots representing mean estimates. For supported arguments, see <code>geom_pointrange</code> .
...	Arguments to pass to <code>dwplot</code> .

## Details

`small_multiple`, following [Kastellec and Leoni \(2007\)](#), provides a compact means of representing numerous regression models in a single plot.

Tidy data frames to be plotted should include the variables `term` (names of predictors), `estimate` (corresponding estimates of coefficients or other quantities of interest), `std.error` (corresponding standard errors), and `model` (identifying the corresponding model). In place of `std.error` one may substitute `conf.low` (the lower bounds of the confidence intervals of each estimate) and `conf.high` (the corresponding upper bounds).

Alternately, `small_multiple` accepts as input a list of model objects that can be tidied by `tidy` (or `parameters` (with proper formatting)), or a list of such model objects.

Optionally, more than one set of results can be clustered to facilitate comparison within each model; one example of when this may be desirable is to compare results across samples. In that case, the data frame should also include a variable `submodel` identifying the submodel of the results.

To minimize the need for lengthy, distracting regression tables (often relegated to an appendix for dot-whisker plot users), `dwplot` incorporates optimal model fit statistics directly beneath the dot-whisker plots. These statistics are derived using the excellent `performance` functions and integrated at the plot's base via `patchwork` and `tableGrob` functions. For added flexibility, `dwplot` includes the `stats_tb` feature, allowing users to input customized statistics. Furthermore, a suite of `stats_*` functions is available for fine-tuning the presentation of these statistics, enhancing user control over the visual output.

## Value

The function returns a `ggplot` object.

## References

Kastellec, Jonathan P. and Leoni, Eduardo L. 2007. "Using Graphs Instead of Tables in Political Science." *\*Perspectives on Politics\**, 5(4):755-771.

## Examples

```
m1 <- lm(mpg ~ wt + cyl + disp + gear, data = mtcars)
m2 <- update(m1, . ~ . + hp)

# Generate a 'small multiple' plot
small_multiple(list(m1, m2))
```

```
# Customize the order in which the models appear along the x-axis
small_multiple(list(full = m1, with_hp = m2),
               model_order = c("with_hp", "full"))
```

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