# Package: ggforestplotR (via r-universe)

June 9, 2026

**Title** Publication-Ready Forest Plots with 'ggplot2'

**Version** 0.2.2

**Description** Transform model coefficients into flexible forest plots using 'ggplot2'. Provides helpers to standardize coefficient data from a range of modelling workflows and render publication-ready forest plots with a consistent interface.

**License** MIT + file LICENSE

**Encoding** UTF-8

**Roxygen** list(markdown = TRUE)

**Imports** ggplot2, patchwork, rlang

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

**VignetteBuilder** knitr

**Config/testthat/edition** 3

**Config/Needs/website** pkgdown

**URL** `https://thatoneguy006.github.io/ggforestplotR/`, `https://github.com/thatoneguy006/ggforestplotR`

**BugReports** `https://github.com/thatoneguy006/ggforestplotR/issues`

**Config/roxygen2/version** 8.0.0

**Repository** https://thatoneguy006.r-universe.dev

**Date/Publication** 2026-06-09 13:10:12 UTC

**RemoteUrl** https://github.com/thatoneguy006/ggforestplotr

**RemoteRef** HEAD

**RemoteSha** 7745dbb9e78c2c636a90a6d3beebf8e2f55722d0

# Contents

add_forest_table . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2
add_split_table . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 5
as_forest_data . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 8
ggforestplot . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 9
tidy_forest_model . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 12

**Index** **14**

---

## `add_forest_table` *Add a summary table to a forest plot*

### Description

Compose a summary table onto a forest plot.

### Usage

```
add_forest_table(
  plot = NULL,
  position = c("left", "right"),
  show_terms = TRUE,
  show_n = NULL,
  show_events = NULL,
  show_estimate = TRUE,
  show_p = FALSE,
  columns = NULL,
  term_header = "Term",
  n_header = "N",
  events_header = "Events",
  estimate_label = NULL,
  p_header = "P-value",
  column_labels = NULL,
  digits = NULL,
  estimate_digits = NULL,
  interval_digits = NULL,
  p_digits = NULL,
  estimate_fmt = NULL,
  ci_fmt = NULL,
  text_size = NULL,
  header_text_size = NULL,
  header_fontface = "bold",
  header_family = NULL,
  striped_rows = NULL,
  stripe_fill = NULL,
  stripe_colour = NULL,
  stripe_alpha = NULL,
```

```
  grid_lines = FALSE,
  grid_line_colour = "black",
  grid_line_size = 0.3,
  grid_line_linetype = 1
)
```

## Arguments

| | |
|---|---|
| `plot` | A plot created by `ggforestplot()`. Leave as `NULL` to use `+ add_forest_table(...)` syntax. |
| `position` | Whether to place the table on the left or right of the forest plot. |
| `show_terms` | Deprecated. Whether to show the term column in the table. Use `columns` instead. |
| `show_n` | Deprecated. Whether to show the `N` column. Use `columns` instead. |
| `show_events` | Deprecated. Whether to show the `Events` column. Use `columns` instead. |
| `show_estimate` | Deprecated. Whether to show the formatted estimate and confidence interval column. Use `columns` instead. |
| `show_p` | Deprecated. Whether to display the p-value column. Use `columns` instead. |
| `columns` | Optional explicit columns to display in the side table, in the order they should appear. Accepts built-in names such as `"term"`, `"n"`, `"events"`, `"estimate"`, `"ci"`, and `"p"`, arbitrary original dataframe columns, or positions corresponding to the built-in columns. `"conf.low"` and `"conf.high"` are accepted as aliases for `"ci"`. When supplied, this overrides the default `show_*` column selection. |
| `term_header` | Header text for the term column. |
| `n_header` | Header text for the `N` column. |
| `events_header` | Header text for the `Events` column. |
| `estimate_label` | Header label for the estimate column. Defaults to the model-derived label when available. |
| `p_header` | Header text for the p-value column. |
| `column_labels` | Optional named vector used to relabel table column headers. Names should match values supplied to `columns` after column resolution, such as `"term"`, `"estimate"`, `"ci"`, `"p"`, or an arbitrary original dataframe column. |
| `digits` | Deprecated. Number of digits used when formatting estimates and p-values. Defaults to `2`. Use `estimate_digits`, `interval_digits`, and `p_digits` for separate control. |
| `estimate_digits` | Number of digits used for point estimates. |
| `interval_digits` | Number of digits used for confidence interval bounds. |
| `p_digits` | Number of digits used for p-values. |
| `estimate_fmt` | Format string for the estimate column. Use `{estimate}`, `{conf.low}`, and `{conf.high}` as placeholders. The shorthand `{conf.low, conf.high}` is also supported. Defaults to `"{estimate} ({conf.low}, {conf.high})"`, or `"{estimate}"` when `columns` includes `"ci"`. |

| | |
|---|---|
| `ci_fmt` | Format string for the confidence interval column when `columns` includes `"ci"`. Use `{conf.low}` and `{conf.high}` as placeholders. The shorthand `{conf.low, conf.high}` is also supported. Defaults to `"({conf.low}, {conf.high})"`. |
| `text_size` | Text size for table contents. Defaults to `3.2`. |
| `header_text_size` | Header text size for table column labels. Defaults to `11`. |
| `header_fontface` | Font face used for table column labels. Defaults to `"bold"`. |
| `header_family` | Optional font family used for table column labels. |
| `striped_rows` | Whether to draw alternating row stripes behind the table. Defaults to the stripe setting used in `ggforestplot()`. |
| `stripe_fill` | Fill colour used for striped rows. Defaults to the stripe fill used in `ggforestplot()`. |
| `stripe_colour` | Outline colour for striped rows. Defaults to the stripe outline used in `ggforestplot()`. |
| `stripe_alpha` | Transparency for striped rows. Defaults to the stripe alpha used in `ggforestplot()`. |
| `grid_lines` | Whether to draw black horizontal grid lines in the table. |
| `grid_line_colour` | Colour used for the table grid lines. |
| `grid_line_size` | Line width used for the table grid lines. |
| `grid_line_linetype` | Line type used for the table grid lines. |

## Value

A patchwork-composed plot containing the forest plot and side table, or a ggplot add-on object when `plot = NULL`.

## Examples

```
coefs <- data.frame(
  term = c("Age", "BMI", "Treatment"),
  estimate = c(0.3, -0.2, 0.4),
  conf.low = c(0.1, -0.4, 0.2),
  conf.high = c(0.5, 0.0, 0.6),
  sample_size = c(120, 115, 98),
  p_value = c(0.012, 0.031, 0.004)
)

p <- ggforestplot(coefs, n = "sample_size", p.value = "p_value")
add_forest_table(
  p,
  position = "left",
  columns = c("term", "n", "estimate", "p"),
  estimate_label = "Beta"
)

ggforestplot(coefs, n = "sample_size", p.value = "p_value") +
  add_forest_table(
    position = "right",
```

```
  columns = c("term", "n", "estimate", "p"),
  estimate_label = "Beta"
)
```

---

## add_split_table *Add split tables around a forest plot*

### Description

Compose split table blocks around a forest plot so that summary data appear on both sides of the plotting panel.

### Usage

```
add_split_table(
  plot = NULL,
  show_terms = TRUE,
  show_n = NULL,
  show_events = NULL,
  show_estimate = TRUE,
  show_p = FALSE,
  left_columns = NULL,
  right_columns = NULL,
  term_header = "Term",
  n_header = "N",
  events_header = "Events",
  estimate_label = NULL,
  p_header = "P-value",
  column_labels = NULL,
  digits = NULL,
  estimate_digits = NULL,
  interval_digits = NULL,
  p_digits = NULL,
  estimate_fmt = NULL,
  ci_fmt = NULL,
  text_size = NULL,
  header_text_size = NULL,
  header_fontface = "bold",
  header_family = NULL,
  striped_rows = NULL,
  stripe_fill = NULL,
  stripe_colour = NULL,
  stripe_alpha = NULL,
  left_width = NULL,
  plot_width = NULL,
  right_width = NULL
)
```

## Arguments

| | |
|---|---|
| `plot` | A plot created by `ggforestplot()`. Leave as `NULL` to use `+ add_split_table(...)` syntax. |
| `show_terms` | Whether to include the term column in the default left-side selection when `left_columns` is not supplied. |
| `show_n` | Whether to include the `N` column in the default left-side selection when `left_columns` is not supplied. Defaults to `TRUE` when the underlying plot data include an `n` column. |
| `show_events` | Whether to include the `Events` column in the default left-side selection when `left_columns` is not supplied. Defaults to `TRUE` when the underlying plot data include an `events` column. |
| `show_estimate` | Whether to include the formatted estimate and confidence interval column in the default right-side selection when `right_columns` is not supplied. |
| `show_p` | Whether to include the p-value column in the default right-side selection when `right_columns` is not supplied. |
| `left_columns` | Optional explicit columns to place on the left side of the forest plot. Accepts built-in names such as `"term"`, `"n"`, `"events"`, `"estimate"`, `"ci"`, and `"p"`, arbitrary original dataframe columns, or positions corresponding to the built-in columns. `"conf.low"` and `"conf.high"` are accepted as aliases for `"ci"`. |
| `right_columns` | Optional explicit columns to place on the right side of the forest plot. Accepts built-in names such as `"estimate"`, `"ci"`, and `"p"`, arbitrary original dataframe columns, or positions corresponding to the built-in columns. `"conf.low"` and `"conf.high"` are accepted as aliases for `"ci"`. |
| `term_header` | Header text for the term column. |
| `n_header` | Header text for the `N` column. |
| `events_header` | Header text for the `Events` column. |
| `estimate_label` | Header label for the estimate column. Defaults to the model-derived label when available. |
| `p_header` | Header text for the p-value column. |
| `column_labels` | Optional named vector used to relabel table column headers. Names should match values supplied to `left_columns` or `right_columns` after column resolution, such as `"term"`, `"estimate"`, `"ci"`, `"p"`, or an arbitrary original dataframe column. |
| `digits` | Deprecated. Number of digits used when formatting estimates and p-values. Defaults to `2`. Use `estimate_digits`, `interval_digits`, and `p_digits` for separate control. |
| `estimate_digits` | Number of digits used for point estimates. |
| `interval_digits` | Number of digits used for confidence interval bounds. |
| `p_digits` | Number of digits used for p-values. |

| | |
|---|---|
| `estimate_fmt` | Format string for the estimate column. Use `{estimate}`, `{conf.low}`, and `{conf.high}` as placeholders. The shorthand `{conf.low, conf.high}` is also supported. Defaults to `"{estimate} ({conf.low}, {conf.high})"`, or `"{estimate}"` when table columns include `"ci"`. |
| `ci_fmt` | Format string for the confidence interval column when table columns include `"ci"`. Use `{conf.low}` and `{conf.high}` as placeholders. The shorthand `{conf.low, conf.high}` is also supported. Defaults to `"({conf.low}, {conf.high})"`. |
| `text_size` | Text size for table contents. Defaults to `3.2`. |
| `header_text_size` | Header text size for table column labels. Defaults to `11`. |
| `header_fontface` | Font face used for table column labels. Defaults to `"bold"`. |
| `header_family` | Optional font family used for table column labels. |
| `striped_rows` | Whether to draw alternating row stripes behind the split table layout. Defaults to the stripe setting used in `ggforestplot()`. |
| `stripe_fill` | Fill colour used for striped rows. Defaults to the stripe fill used in `ggforestplot()`. |
| `stripe_colour` | Outline colour for striped rows. Defaults to the stripe outline used in `ggforestplot()`. |
| `stripe_alpha` | Transparency for striped rows. Defaults to the stripe alpha used in `ggforestplot()`. |
| `left_width` | Optional width allocated to the left table block. By default this is derived from the number of displayed left-side columns relative to `plot_width`. |
| `plot_width` | Optional width allocated to the forest plot panel. Defaults to `2.5`. |
| `right_width` | Optional width allocated to the right table block. By default this is derived from the number of displayed right-side columns relative to `plot_width`. |

## Value

A patchwork-composed plot containing a left table, the forest plot, and a right table, or a ggplot add-on object when `plot = NULL`.

## Examples

```
coefs <- data.frame(
  term = c("Age", "BMI", "Treatment"),
  estimate = c(0.3, -0.2, 0.4),
  conf.low = c(0.1, -0.4, 0.2),
  conf.high = c(0.5, 0.0, 0.6),
  sample_size = c(120, 115, 98),
  p_value = c(0.012, 0.031, 0.004)
)

p <- ggforestplot(coefs, n = "sample_size", p.value = "p_value")
add_split_table(
  p,
  left_columns = c("term", "n"),
  right_columns = c("estimate", "p"),
  estimate_label = "HR"
)
```

```
ggforestplot(coefs, n = "sample_size", p.value = "p_value") +
  add_split_table(
    left_columns = c(1, 2),
    right_columns = c(4, 5),
    estimate_label = "HR"
  )
```

---

## `as_forest_data` *Standardize coefficient data for forest plots*

### Description

Standardizes a coefficient table into the internal forest-plot data structure used throughout `ggforestplotR`.

### Usage

```
as_forest_data(
  data,
  term,
  estimate,
  conf.low,
  conf.high,
  label = term,
  term_labels = NULL,
  group = NULL,
  grouping = NULL,
  separate_groups = NULL,
  n = NULL,
  events = NULL,
  p.value = NULL,
  exponentiate = FALSE,
  sort_terms = c("none", "descending", "ascending")
)
```

### Arguments

| | |
|---|---|
| `data` | A data frame containing coefficient estimates and intervals. |
| `term` | Column name holding the model term identifier. |
| `estimate` | Column name holding the point estimate. |
| `conf.low` | Column name holding the lower confidence bound. |
| `conf.high` | Column name holding the upper confidence bound. |
| `label` | Optional column name used for the displayed row label. |
| `term_labels` | Optional named vector used to relabel displayed terms. Names should match values in the term column and values are the labels to display. |
| `group` | Optional column name used for color-grouping multiple estimates per row. |

| | |
|---|---|
| `grouping` | Optional column name used to split rows into grouped plot sections. |
| `separate_groups` | Optional column name used to identify labeled variable blocks that can be outlined with separator lines. |
| `n` | Optional column name holding sample sizes or other N labels for table helpers. |
| `events` | Optional column name holding event counts or event labels for table helpers. |
| `p.value` | Optional column name holding p-values. |
| `exponentiate` | Logical; if `TRUE`, require positive values for estimates and intervals. |
| `sort_terms` | How to sort rows: `"none"`, `"descending"`, or `"ascending"`. |

## Value

A standardized data frame ready for `ggforestplot()` and the table composition helpers. Original dataframe columns are retained for table helpers so they can be displayed with `add_forest_table(columns = ...)`.

## Examples

```
raw <- data.frame(
  variable = c("Age", "BMI", "Treatment"),
  beta = c(0.10, -0.08, 0.34),
  lower = c(0.02, -0.16, 0.12),
  upper = c(0.18, 0.00, 0.56)
)

as_forest_data(
  data = raw,
  term = "variable",
  estimate = "beta",
  conf.low = "lower",
  conf.high = "upper"
)
```

---

# `ggforestplot` *Draw a ggplot2 forest plot*

## Description

Builds a forest plot from standardized coefficient data or directly from a fitted model.

## Usage

```
ggforestplot(
  data,
  term = "term",
  estimate = "estimate",
  conf.low = "conf.low",
```

```
    conf.high = "conf.high",
    label = term,
    term_labels = NULL,
    group = NULL,
    facet = NULL,
    facet_strip_position = c("left", "right"),
    grouping = NULL,
    grouping_strip_position = NULL,
    separate_groups = NULL,
    n = NULL,
    events = NULL,
    p.value = NULL,
    exponentiate = NULL,
    sort_terms = c("none", "descending", "ascending"),
    point_size = 2.3,
    point_shape = 19,
    linewidth = 0.5,
    line_size = NULL,
    staple_width = 0.2,
    dodge_width = 0.6,
    separate_lines = FALSE,
    separator_line_linetype = 2,
    separator_line_colour = "black",
    separator_line_size = 0.4,
    striped_rows = FALSE,
    stripe_fill = "grey95",
    stripe_colour = NA,
    stripe_alpha = 1,
    ref_line = NULL,
    ref_label = NULL,
    ref_linetype = 2,
    ref_color = "grey60"
  )
```

## Arguments

| | |
|---|---|
| `data` | Either a tidy coefficient data frame or a model object supported by `broom::tidy()`. |
| `term` | Column name holding the model term identifiers. |
| `estimate` | Column name holding the point estimates. |
| `conf.low` | Column name holding the lower confidence bounds. |
| `conf.high` | Column name holding the upper confidence bounds. |
| `label` | Optional column name used for the displayed row labels. |
| `term_labels` | Optional named vector used to relabel displayed terms. Names should match values in the term column and values are the labels to display. |
| `group` | Optional column name used for color-grouping estimates. |
| `facet` | Optional column name used to split rows into faceted plot sections. If this column is a factor, its levels control facet order. |

| | |
|---|---|
| `facet_strip_position` | Positioning for facet strip labels. |
| `grouping` | Deprecated. Use `facet` instead. |
| `grouping_strip_position` | Deprecated. Use `facet_strip_position` instead. |
| `separate_groups` | Optional column name used to identify labeled variable blocks that can be outlined with grid lines. |
| `n` | Optional column name holding sample sizes or other N labels for table helpers. |
| `events` | Optional column name holding event counts or event labels for table helpers. |
| `p.value` | Optional column name holding p-values. |
| `exponentiate` | Logical; if `TRUE`, transform the estimates and draw the axis on the log scale with the reference line at 1. For model objects, `NULL` uses the canonical scale when it can be inferred, such as hazard ratios for Cox models. |
| `sort_terms` | How to sort rows: `"none"`, `"descending"`, or `"ascending"`. |
| `point_size` | Point size for coefficient markers. |
| `point_shape` | Shape used for coefficient markers. |
| `linewidth` | Line width for confidence intervals. |
| `line_size` | Deprecated. Use `linewidth` instead. |
| `staple_width` | Width of the terminal staples on confidence interval lines. |
| `dodge_width` | Horizontal dodging used for grouped estimates. |
| `separate_lines` | Logical; if `TRUE`, draw grid lines around each labeled block identified by `separate_groups`. |
| `separator_line_linetype` | Line type used for separator lines. |
| `separator_line_colour` | Colour used for separator lines. |
| `separator_line_size` | Line width used for separator lines. |
| `striped_rows` | Logical; if `TRUE`, shade alternating rows. |
| `stripe_fill` | Fill color used for shaded rows. |
| `stripe_colour` | Border color for shaded rows. |
| `stripe_alpha` | Transparency for shaded rows. |
| `ref_line` | Numeric x-value where the reference line is drawn, or `NULL` to hide it. When omitted, defaults to `0` for additive effects and `1` for exponentiated effects. |
| `ref_label` | Optional label drawn alongside the reference line. |
| `ref_linetype` | Line type for the reference line. |
| `ref_color` | Color for the reference line. |

## Value

A `ggplot` object. Use standard `ggplot2` functions such as `ggplot2::labs()` for plot labels, and add composition helpers after styling the main plot.

### Examples

```
coefs <- data.frame(
  term = c("Age", "BMI", "Treatment"),
  estimate = c(0.10, -0.08, 0.34),
  conf.low = c(0.02, -0.16, 0.12),
  conf.high = c(0.18, 0.00, 0.56)
)

ggforestplot(coefs)

ggforestplot(coefs, striped_rows = TRUE, point_shape = 17)
```

---

## `tidy_forest_model` *Tidy a model object for forest plotting*

### Description

Uses `broom::tidy()` to convert a fitted model into forest-plot data.

### Usage

```
tidy_forest_model(
  model,
  conf.int = TRUE,
  conf.level = 0.95,
  exponentiate = NULL,
  intercept = FALSE,
  term_labels = NULL,
  sort_terms = c("none", "descending", "ascending")
)
```

### Arguments

| | |
|---|---|
| `model` | A fitted model object supported by `broom::tidy()`. |
| `conf.int` | Logical; if `TRUE`, request confidence intervals from `broom::tidy()`. |
| `conf.level` | Confidence level for intervals. |
| `exponentiate` | Logical; passed through to `broom::tidy()`. |
| `intercept` | Logical; if `FALSE`, drop the intercept term. |
| `term_labels` | Optional named vector used to relabel displayed terms. Names should match model term names and values are the labels to display. |
| `sort_terms` | How to sort rows: `"none"`, `"descending"`, or `"ascending"`. |

### Value

A standardized coefficient data frame ready for `ggforestplot()`.

## Examples

```
if (requireNamespace("broom", quietly = TRUE)) {
  fit <- lm(mpg ~ wt + hp + qsec, data = mtcars)
  tidy_forest_model(fit)

  set.seed(123)
  logit_data <- data.frame(
    age = rnorm(250, mean = 62, sd = 8),
    bmi = rnorm(250, mean = 28, sd = 4),
    treatment = factor(rbinom(250, 1, 0.45), labels = c("Control", "Treatment"))
  )
  linpred <- -9 + 0.09 * logit_data$age + 0.11 * logit_data$bmi +
    0.9 * (logit_data$treatment == "Treatment")
  logit_data$event <- rbinom(250, 1, plogis(linpred))
  logit_fit <- glm(event ~ age + bmi + treatment, data = logit_data, family = binomial())

  tidy_forest_model(logit_fit, exponentiate = TRUE)
}
```

# Index

add_forest_table, 2
add_split_table, 5
as_forest_data, 8

broom::tidy(), *10*, *12*

ggforestplot, 9
ggforestplot(), *3, 4*, *6, 7*, *9*, *12*
ggplot2::labs(), *11*

tidy_forest_model, 12