

Package ‘ggforestplotR’

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Title Publication-Ready Forest Plots with 'ggplot2'

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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.

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URL <https://thatoneguy006.github.io/ggforestplotR/>,
<https://github.com/thatoneguy006/ggforestplotR>

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add_forest_table	<i>Add a summary table to a forest plot</i>
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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 = "Estimate",
  p_header = "P-value",
  digits = NULL,
  text_size = NULL,
  header_text_size = NULL,
  header_fontface = "bold",
  header_family = NULL,
  striped_rows = NULL,
  stripe_fill = NULL,
  stripe_colour = NULL,
  grid_lines = FALSE,
  grid_line_colour = "black",
  grid_line_size = 0.3,
  grid_line_linetype = 1
)
```

Arguments

plot	A plot created by <code>ggforestplot()</code> . Leave as NULL to use + <code>add_forest_table(...)</code> syntax.
position	Whether to place the table on the left or right of the forest plot.
show_terms	Whether to show the term column in the table.
show_n	Whether to show the N column. Defaults to TRUE when the underlying plot data includes an n column.

show_events	Whether to show the Events column. Defaults to TRUE when the underlying plot data includes an events column.
show_estimate	Whether to show the formatted estimate and confidence interval column.
show_p	Whether to display the p-value column.
columns	Optional explicit columns to display in the side table, in the order they should appear. Accepts names such as "n", "events", and "term", or positions 1:5 corresponding to term, n, events, estimate, and p. 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.
p_header	Header text for the p-value column.
digits	Number of digits used when formatting estimates and p-values. Defaults to 2.
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 <code>ggforestplot()</code> .
stripe_fill	Fill colour used for striped rows. Defaults to the stripe fill used in <code>ggforestplot()</code> .
stripe_colour	Outline colour for striped rows. Defaults to the stripe outline used in <code>ggforestplot()</code> .
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",
  show_n = TRUE,
  show_p = TRUE,
  estimate_label = "Beta"
)

ggforestplot(coefs, n = "sample_size", p.value = "p_value") +
  add_forest_table(
    position = "right",
    show_n = TRUE,
    show_p = TRUE,
    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 = "Estimate",
  p_header = "P-value",
  digits = NULL,
  text_size = NULL,
  header_text_size = NULL,
  header_fontface = "bold",

```

```

    header_family = NULL,
    striped_rows = NULL,
    stripe_fill = NULL,
    stripe_colour = NULL,
    left_width = NULL,
    plot_width = NULL,
    right_width = NULL
  )

```

Arguments

plot	A plot created by <code>ggforestplot()</code> . Leave as NULL to use + <code>add_split_table(...)</code> syntax.
show_terms	Whether to include the term column in the default left-side selection when <code>left_columns</code> is not supplied.
show_n	Whether to include the N column in the default left-side selection when <code>left_columns</code> 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 <code>left_columns</code> 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 <code>right_columns</code> is not supplied.
show_p	Whether to include the p-value column in the default right-side selection when <code>right_columns</code> is not supplied.
left_columns	Optional explicit columns to place on the left side of the forest plot. Accepts names such as "term", "n", and "events", or positions 1:5 corresponding to term, n, events, estimate, and p.
right_columns	Optional explicit columns to place on the right side of the forest plot. Accepts names such as "estimate" and "p", or positions 1:5 corresponding to term, n, events, estimate, and p.
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.
p_header	Header text for the p-value column.
digits	Number of digits used when formatting estimates and p-values. Defaults to 2.
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.

<code>striped_rows</code>	Whether to draw alternating row stripes behind the split table layout. Defaults to the stripe setting used in <code>ggforestplot()</code> .
<code>stripe_fill</code>	Fill colour used for striped rows. Defaults to the stripe fill used in <code>ggforestplot()</code> .
<code>stripe_colour</code>	Outline colour for striped rows. Defaults to the stripe outline used in <code>ggforestplot()</code> .
<code>left_width</code>	Optional width allocated to the left table block. By default this is derived from the number of displayed left-side columns relative to <code>plot_width</code> .
<code>plot_width</code>	Optional width allocated to the forest plot panel. Defaults to 2.5.
<code>right_width</code>	Optional width allocated to the right table block. By default this is derived from the number of displayed right-side columns relative to <code>plot_width</code> .

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,
  group = NULL,
  grouping = NULL,
  separate_groups = NULL,
  n = NULL,
  events = NULL,
  p.value = NULL,
  exponentiate = FALSE,
  sort_terms = c("none", "descending", "ascending")
)
```

Arguments

<code>data</code>	A data frame containing coefficient estimates and intervals.
<code>term</code>	Column name holding the model term identifier.
<code>estimate</code>	Column name holding the point estimate.
<code>conf.low</code>	Column name holding the lower confidence bound.
<code>conf.high</code>	Column name holding the upper confidence bound.
<code>label</code>	Optional column name used for the displayed row label.
<code>group</code>	Optional column name used for color-grouping multiple estimates per row.
<code>grouping</code>	Optional column name used to split rows into grouped plot sections.
<code>separate_groups</code>	Optional column name used to identify labeled variable blocks that can be outlined with separator lines.
<code>n</code>	Optional column name holding sample sizes or other N labels for table helpers.
<code>events</code>	Optional column name holding event counts or event labels for table helpers.
<code>p.value</code>	Optional column name holding p-values.
<code>exponentiate</code>	Logical; if TRUE, require positive values for estimates and intervals.
<code>sort_terms</code>	How to sort rows: "none", "descending", or "ascending".

Value

A standardized data frame ready for `ggforestplot()` and the table composition helpers.

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,
  group = NULL,
  grouping = NULL,
  grouping_stripe_position = c("left", "right"),
  separate_groups = NULL,
  n = NULL,
  events = NULL,
  p.value = NULL,
  exponentiate = FALSE,
  sort_terms = c("none", "descending", "ascending"),
  point_size = 2.3,
  point_shape = 19,
  line_size = 0.5,
  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,
zero_line = TRUE,
zero_line_linetype = 2,
zero_line_colour = "grey60"
)

```

Arguments

<code>data</code>	Either a tidy coefficient data frame or a model object supported by <code>broom::tidy()</code> .
<code>term</code>	Column name holding the model term identifiers.
<code>estimate</code>	Column name holding the point estimates.
<code>conf.low</code>	Column name holding the lower confidence bounds.
<code>conf.high</code>	Column name holding the upper confidence bounds.
<code>label</code>	Optional column name used for the displayed row labels.
<code>group</code>	Optional column name used for color-grouping estimates.
<code>grouping</code>	Optional column name used to split rows into grouped plot sections.
<code>grouping_stripe_position</code>	Positioning for grouped section strips.
<code>separate_groups</code>	Optional column name used to identify labeled variable blocks that can be outlined with grid lines.
<code>n</code>	Optional column name holding sample sizes or other N labels for table helpers.
<code>events</code>	Optional column name holding event counts or event labels for table helpers.
<code>p.value</code>	Optional column name holding p-values.
<code>exponentiate</code>	Logical; if TRUE, transform the estimates and draw the axis on the log scale with the null line at 1.
<code>sort_terms</code>	How to sort rows: "none", "descending", or "ascending".
<code>point_size</code>	Point size for coefficient markers.
<code>point_shape</code>	Shape used for coefficient markers.
<code>line_size</code>	Line width for confidence intervals.
<code>staple_width</code>	Width of the terminal staples on confidence interval lines.
<code>dodge_width</code>	Horizontal dodging used for grouped estimates.
<code>separate_lines</code>	Logical; if TRUE, draw grid lines around each labeled block identified by <code>separate_groups</code> .
<code>separator_line_linetype</code>	Line type used for separator lines.
<code>separator_line_colour</code>	Colour used for separator lines.
<code>separator_line_size</code>	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.
`zero_line` Logical; if TRUE, draw a null reference line.
`zero_line_linetype`
 Line type for the null reference line.
`zero_line_colour`
 Color for the null 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 = FALSE,
  intercept = FALSE,
  sort_terms = c("none", "descending", "ascending")
)

```

Arguments

model	A fitted model object supported by <code>broom::tidy()</code> .
conf.int	Logical; if TRUE, request confidence intervals from <code>broom::tidy()</code> .
conf.level	Confidence level for intervals.
exponentiate	Logical; passed through to <code>broom::tidy()</code> .
intercept	Logical; if FALSE, drop the intercept term.
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)
}
```

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