Package 'coveffectsplot'

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Title Produce Forest Plots to Visualize Covariate Effects

Version 1.0.6

Description Produce forest plots to visualize covariate effects using either the command line or an interactive 'Shiny' application.

URL https://smouksassi.github.io/coveffectsplot/, https://github.com/smouksassi/coveffectsplot

BugReports https://github.com/smouksassi/coveffectsplot/issues

Depends R (>= 4.0.0), data.table (>= 1.9.8)

Imports colourpicker, egg, grid, ggplot2 (>= 3.3.2), shiny, stats, utils

Suggests markdown, dplyr, tidyr, shinyjs, shinymeta, table1, clipr, formatR, MASS, knitr, rmarkdown, mrgsolve, GGally, ggridges, ggrepel, ggstance, patchwork, plotly, scales, shinyAce, Rcpp, gamlss.dist, ggdist, ggh4x, ggpmisc, quantreg

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SystemRequirements pandoc with https support

LazyData true

VignetteBuilder knitr

RoxygenNote 7.3.2

Encoding UTF-8

NeedsCompilation no

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Contents

`covdatasim` *Correlated Covariates data*

Description

A example dataset used to illustrate multivariate joint covariate effects.

Usage

```
covdatasim
```

Format

A dataset with 2000 rows and 5 variables

ID Subject ID

AGE Age in years

WT Weight in kg

Sex 0=male; 1=female

ALB Albumin in g/dL

Source

simulated based on a real dataset

`deltamethod` *The delta method*

Description

This is a copy of msm deltamethod function with the modification to add an environment to make it usable within a function or within a shiny app. Delta method for approximating the standard error of a transformation $g(X)$ of a random variable $X = (x_1, x_2, \ldots)$, given estimates of the mean and covariance matrix of X.

Usage

```
deltamethod(g, mean, cov, ses = TRUE, envir = parent.frame())
```

Arguments

`g`	A formula representing the transformation. The variables must be labelled `x1`, `x2`, ...{} For example,
	`~ 1 / (x1 + x2)`
	If the transformation returns a vector, then a list of formulae representing $(g_1, g_2, \ldots)$ can be provided, for example
	`list( ~ x1 + x2, ~ x1 / (x1 + x2) )`

`mean`	The estimated mean of X
`cov`	The estimated covariance matrix of X
`ses`	If `TRUE`, then the standard errors of $g_1(X), g_2(X), \ldots$ are returned. Otherwise the covariance matrix of $g(X)$ is returned.
`envir`	defaults to `parent.frame()`

Details

The delta method expands a differentiable function of a random variable about its mean, usually with a first-order Taylor approximation, and then takes the variance. For example, an approximation to the covariance matrix of $g(X)$ is given by

$$Cov(g(X)) = g'(\mu)Cov(X)[g'(\mu)]^T$$

where μ is an estimate of the mean of X. This function uses symbolic differentiation via `deriv`.

A limitation of this function is that variables created by the user are not visible within the formula g. To work around this, it is necessary to build the formula as a string, using functions such as `sprintf`, then to convert the string to a formula using `as.formula`. See the example below.

If you can spare the computational time, bootstrapping is a more accurate method of calculating confidence intervals or standard errors for transformations of parameters. Simulation from the asymptotic distribution of the MLEs (see e.g. Mandel 2013) is also a convenient alternative.

Value

A vector containing the standard errors of $g_1(X), g_2(X), \ldots$ or a matrix containing the covariance of $g(X)$.

Author(s)

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References

Oehlert, G. W. (1992) *A note on the delta method.* American Statistician 46(1).

Mandel, M. (2013) *Simulation based confidence intervals for functions with complicated derivatives.* The American Statistician 67(2):76-81.

Examples

```
## Simple linear regression, E(y) = alpha + beta x
x <- 1:100
y <- rnorm(100, 4*x, 5)
toy.lm <- lm(y ~ x)
estmean <- coef(toy.lm)
estvar <- summary(toy.lm)$cov.unscaled * summary(toy.lm)$sigma^2

## Estimate of (1 / (alphahat + betahat))
1 / (estmean[1] + estmean[2])
## Approximate standard error
deltamethod (~ 1 / (x1 + x2), estmean, estvar)

## We have a variable z we would like to use within the formula.
z <- 1
## deltamethod (~ z / (x1 + x2), estmean, estvar) will not work.
## Instead, build up the formula as a string, and convert to a formula.
form <- sprintf("~ %f / (x1 + x2)", z)
form
deltamethod(as.formula(form), estmean, estvar)
```

---

draw_key *Horizontal key drawing functions from ggstance in case it is deprecated*

Description

Horizontal key drawing functions from ggstance in case it is deprecated

Usage

```
draw_key_hpath(data, params, size)

draw_key_pointrangeh(data, params, size)
```

Arguments

data	A single row data frame containing the scaled aesthetics to display in this key
params	A list of additional parameters supplied to the geom.
size	Width and height of key in mm.

Value

A grid grob.

---

expand_modelframe *Expand covariate values choices and reference values varying one at a time*

Description

Expand covariate values choices and reference values varying one at a time

Usage

```
expand_modelframe(rv, covcol = "covname", ...)
```

Arguments

rv	a data.frame with columns names of covariate(s) and values equal reference
covcol	column name for the covariate being varied
...	Arguments to be passed to methods

Value

A data.frame with combination of covariates

Examples

```
reference.values <- data.frame(WT = 85, ALB = 45, SEX = 0)
covcomb <- expand_modelframe(
  WT  = c(56, 72, 98, 128), # P05, P25, P75, P95 # ref is P50
ALB = c(40, 50),          # P05, P95 # ref is P50
  SEX = c(1),               # Reference is for SEX=0 (female)
  rv = reference.values)
covcomb
```

forest_plot *Forest plot*

Description

Produce forest plots to visualize covariate effects

Usage

```
forest_plot(
  data,
  facet_formula = "covname~paramname",
  xlabel = "",
  ylabel = "",
  x_facet_text_size = 13,
  y_facet_text_size = 13,
  x_facet_text_angle = 0,
  y_facet_text_angle = 0,
  x_facet_text_vjust = 0.5,
  y_facet_text_vjust = 0.5,
  x_facet_text_hjust = 0.5,
  y_facet_text_hjust = 0.5,
  x_facet_text_col = "black",
  y_facet_text_col = "black",
  xy_facet_text_bold = TRUE,
  x_label_text_size = 16,
  y_label_text_size = 16,
  legend_title_size = 12,
  break_ylabel = FALSE,
  y_label_text_width = 25,
  table_text_size = 7,
  table_text_colour_overwrite = FALSE,
  table_text_colour = "none",
  base_size = 22,
  theme_benrich = FALSE,
  table_title = "",
  table_title_size = 15,
  ref_legend_text = "",
  area_legend_text = "",
  interval_legend_text = "",
  interval_legend_title = "",
  shape_legend_title = "",
  legend_order = c("pointinterval", "ref", "area", "shape"),
  combine_area_ref_legend = TRUE,
  combine_interval_shape_legend = FALSE,
  legend_position = "top",
  show_ref_area = TRUE,
```

```
  ref_area = c(0.8, 1.25),
  ref_area_col = "#BEBEBE50",
  show_ref_value = TRUE,
  ref_value = 1,
  ref_value_col = "black",
  ref_value_size = 1,
  ref_value_linetype = "dashed",
  ref_value_by_panel = FALSE,
  ref_value_by_panel_data = NULL,
  interval_col = "blue",
  interval_size = 1,
  interval_fatten = 4,
  interval_linewidth = 1,
  interval_shape = "circle small",
  bsv_col = "red",
  bsv_shape = "circle small",
  bsv_text_id = c("BSV", "bsv", "IIV", "Bsv"),
  interval_bsv_text = "",
  strip_col = "#E5E5E5",
  paramname_shape = FALSE,
  paramname_color = FALSE,
  legend_shape_reverse = FALSE,
  legend_color_reverse = FALSE,
  facet_switch = c("both", "y", "x", "none"),
  facet_scales = c("fixed", "free_y", "free_x", "free"),
  facet_space = c("fixed", "free_x", "free_y", "free"),
  facet_labeller = "label_value",
  label_wrap_width = 55,
  facet_labeller_multiline = FALSE,
  strip_placement = c("inside", "outside"),
  strip_outline = TRUE,
  facet_spacing = 5.5,
  major_x_ticks = NULL,
  major_x_labels = NULL,
  minor_x_ticks = NULL,
  x_range = NULL,
  logxscale = FALSE,
  show_yaxis_gridlines = TRUE,
  show_xaxis_gridlines = TRUE,
  show_table_facet_strip = "none",
  table_facet_switch = c("both", "y", "x", "none"),
  show_table_yaxis_tick_label = FALSE,
  reserve_table_xaxis_label_space = TRUE,
  table_panel_border = TRUE,
  table_position = c("right", "below", "none"),
  plot_table_ratio = 4,
  vertical_dodge_height = 0.8,
  legend_space_x_mult = 1,
```

```
  legend_ncol_interval = 1,
  legend_ncol_shape = 1,
  plot_margin = c(5.5, 5.5, 5.5, 5.5),
  table_margin = c(5.5, 5.5, 5.5, 5.5),
  legend_margin = c(0, 0.1, -0.1, 0),
  parse_xlabel = FALSE,
  parse_ylabel = FALSE,
  plot_title = "\n",
  return_list = FALSE
)
```

Arguments

data	Data to use.
facet_formula	Facet formula.
xlabel	X axis title.
ylabel	Y axis title.
x_facet_text_size	Facet text size X.
y_facet_text_size	Facet text size Y.
x_facet_text_angle	Facet text angle X.
y_facet_text_angle	Facet text angle Y.
x_facet_text_vjust	Facet text vertical justification.
y_facet_text_vjust	Facet text vertical justification.
x_facet_text_hjust	Facet text horizontal justification.
y_facet_text_hjust	Facet text horizontal justification.
x_facet_text_col	Facet text color default to black.
y_facet_text_col	Facet text color default to black.
xy_facet_text_bold	Bold Facet text. Logical TRUE FALSE.
x_label_text_size	X axis labels size.
y_label_text_size	Y axis labels size.
legend_title_size	Legend title size if present.
break_ylabel	Split Y axis labels into multiple lines. Logical FALSE TRUE.

`y_label_text_width`
: Number of characters to break Y axis labels.

`table_text_size`
: Table text size.

`table_text_colour_overwrite`
: Logical TRUE FALSE.

`table_text_colour`
: Table text color to be used and overwrites mapped color

`base_size`
: theme_bw base_size for the plot and table.

`theme_benrich`
: apply Benjamin Rich's theming.

`table_title`
: What text to use for table title (theme_benrich has a default).

`table_title_size`
: table title size.

`ref_legend_text`
: Reference legend text.

`area_legend_text`
: Area legend text.

`interval_legend_text`
: Pointinterval legend text.

`interval_legend_title`
: Pointinterval legend title defaults to empty.

`shape_legend_title`
: Shape legend title defaults to empty.

`legend_order`
: Legend order. A four-element vector with the following items ordered in your desired order: "pointinterval", "ref", "area", "shape". if an item is absent the legend will be omitted.

`combine_area_ref_legend`
: Combine reference and area legends if they share the same text?

`combine_interval_shape_legend`
: Combine interval and shape legends?

`legend_position`
: where to put the legend: "top", "bottom","right","none"

`show_ref_area`
: Show reference window?

`ref_area`
: Reference area. Two-element numeric vector multiplying the ref_value.

`ref_area_col`
: Reference area background color.

`show_ref_value`
: Show reference line?

`ref_value`
: X intercept of reference line.

`ref_value_col`
: Reference line color.

`ref_value_size`
: Reference line size.

`ref_value_linetype`
: Reference line linetype.

`ref_value_by_panel`
: The ref_value vary by panel TRUE or FALSE.

`ref_value_by_panel_data`
: if ref_value_by_panel is TRUE, data.frame to use for Reference (lines).

`interval_col`
: Point range color. One or Multiple values.

`interval_size`
: Point range size. Default to 1

`interval_fatten`
: Point range fatten. Default to 4

`interval_linewidth`
: Point range line width. Default to 1

`interval_shape`
: Shape used for the Point Range. Default to "circle small".

`bsv_col`
: BSV pointinterval color. One value.

`bsv_shape`
: Shape used for the BSV Point Range. Default to "circle small".

`bsv_text_id`
: Text string(s) to identify BSV. Default to c("BSV","bsv","IIV","Bsv")

`interval_bsv_text`
: BSV legend text.

`strip_col`
: Strip background color.

`paramname_shape`
: Map symbol to parameter(s) name? TRUE or FALSE.

`paramname_color`
: Map color to parameter(s) name? TRUE or FALSE.

`legend_shape_reverse`
: TRUE or FALSE.

`legend_color_reverse`
: TRUE or FALSE.

`facet_switch`
: Facet switch to near axis. Possible values: "both", "y", "x", "none".

`facet_scales`
: Facet scales. Possible values: "free_y", "fixed", "free_x", "free".

`facet_space`
: Facet spaces. Possible values: "fixed", "free_x", "free_y", "free".

`facet_labeller`
: Facet Labeller. Default "label_value" any other valid ‘facet_grid‘ labeller can be specified.

`label_wrap_width`
: How many characters before breaking the line. Numeric value. any other valid ‘facet_grid‘ labeller can be specified.

`facet_labeller_multiline`
: break facet strips into multiple lines. Logical TRUE FALSE.

`strip_placement`
: Strip placement. Possible values: "inside", "outside".

`strip_outline`
: Draw rectangle around the Strip. Logical TRUE FALSE.

`facet_spacing`
: Control the space between facets in points.

`major_x_ticks`
: X axis major ticks. Numeric vector.

`major_x_labels`
: X axis labels. Character vector should be same length as major_x_ticks.

`minor_x_ticks`
: X axis minor ticks. Numeric vector.

`x_range`
: Range of X values. Two-element numeric vector.

`logxscale` X axis log scale. Logical TRUE FALSE.

`show_yaxis_gridlines`
Draw the y axis gridlines. Logical TRUE FALSE.

`show_xaxis_gridlines`
Draw the x axis gridlines. Logical TRUE FALSE.

`show_table_facet_strip`
Possible values: "none", "both", "y", "x".

`table_facet_switch`
Table facet switch to near axis. Possible values: "both", "y", "x", "none".

`show_table_yaxis_tick_label`
Show table y axis ticks and labels?

`reserve_table_xaxis_label_space`
keep space for the x axis label to keep alignment.

`table_panel_border`
Draw the panel border for the table. Logical TRUE FALSE.

`table_position` Table position. Possible values: "right", "below", "none".

`plot_table_ratio`
Plot-to-table ratio. Suggested value between 1-5.

`vertical_dodge_height`
Amount of vertical dodging to apply on segments and table text.

`legend_space_x_mult`
Multiplier to adjust the spacing between legend items.

`legend_ncol_interval`
Control the number of columns for the pointinterval legend.

`legend_ncol_shape`
Control the number of columns for the shape legend.

`plot_margin` Control the white space around the main plot. Vector of four numeric values for the top, right, bottom and left sides.

`table_margin` Control the white space around the table. Vector of four numeric values for the top, right, bottom and left sides.

`legend_margin` Control the white space around the plot legend. Vector of four numeric values for the top, right, bottom and left sides.

`parse_xlabel` treat xlabel as an expression. Logical FALSE TRUE.

`parse_ylabel` treat ylabel as an expression. Logical FALSE TRUE.

`plot_title` main plot title default to a line break.

`return_list` What to return if True a list of the main and table plots is returned instead of the gtable/plot.

Examples

```
library(dplyr)
library(ggplot2)

# Example 1
```

```
plotdata <- get_sample_data("forest-plot-table.csv")
plotdata <- plotdata %>%
  mutate(midlabel = format(round(mid,2), nsmall = 2),
         lowerlabel = format(round(lower,2), nsmall = 2),
         upperlabel = format(round(upper,2), nsmall = 2),
         LABEL = paste0(midlabel, " [", lowerlabel, "-", upperlabel, "]"))
param <- "BZD AUC"
plotdata <-  filter(plotdata,paramname==param)
plotdata$covname <- reorder(plotdata$covname,plotdata$upper,FUN =max)
plotdata$label <- reorder(plotdata$label,plotdata$scen)
covs <- c("WEIGHT","AGE")
plotdata <-  filter(plotdata,covname%in%covs)
forest_plot(plotdata,
            ref_legend_text = "Reference (vertical line)",
            area_legend_text = "Reference (vertical line)",
            xlabel = paste("Fold Change in", param, "Relative to Reference"),
            logxscale = TRUE, major_x_ticks =c(0.1,1,1.5),
            show_ref_area = FALSE,
            paramname_color =TRUE,
            interval_col =c("steelblue","red","steelblue","red"),
            facet_formula = "covname~.",
            facet_scales = "free_y",
            facet_space = "free_y",
            show_table_facet_strip = "none",
            table_position = "right",
            plot_title = "",
            plot_table_ratio = 4)

# Example 2

plotdata <- get_sample_data("forest-plot-table.csv")
plotdata <- plotdata %>%
  mutate(midlabel = format(round(mid,2), nsmall = 2),
         lowerlabel = format(round(lower,2), nsmall = 2),
         upperlabel = format(round(upper,2), nsmall = 2),
         LABEL = paste0(midlabel, " [", lowerlabel, "-", upperlabel, "]"))
param <- c("BZD AUC","BZD Cmax")
plotdata <-  filter(plotdata,paramname%in%param)
plotdata <-  filter(plotdata,covname%in%"WEIGHT")
plotdata$covname <- reorder(plotdata$covname,plotdata$upper,FUN =max)
plotdata$label <- reorder(plotdata$label,plotdata$scen)
forest_plot(plotdata,
            ref_legend_text = "Reference (vertical line)",
            area_legend_text = "Reference (vertical line)",
            xlabel = paste("Fold Change of Parameter", "Relative to Reference"),
            show_ref_area = FALSE,
            facet_formula = "covname~paramname",
            facet_scales = "free_y",
            facet_space = "free_y",
            x_facet_text_size = 10,
            y_facet_text_size = 10,
            y_label_text_size = 10,
```

```
            y_label_text_width = 15,
            x_label_text_size = 10,
            facet_switch = "both",
            show_table_facet_strip = "both",
            show_table_yaxis_tick_label = TRUE,
            table_position = "below",
            plot_title = "",
            plot_table_ratio = 1)
## Not run:

# Example 3a

plotdata <- get_sample_data("forest-plot-table.csv")
plotdata <- plotdata %>%
  mutate(midlabel = format(round(mid,2), nsmall = 2),
         lowerlabel = format(round(lower,2), nsmall = 2),
         upperlabel = format(round(upper,2), nsmall = 2),
         LABEL = paste0(midlabel, " [", lowerlabel, "-", upperlabel, "]"))
plotdata$covname <- reorder(plotdata$covname,plotdata$upper,FUN =max)
plotdata$label <- reorder(plotdata$label,plotdata$scen)

plotdata$compound <- c(rep("1-OH",30),rep("BZD",30))
plotdata$paramname <- c(rep("AUC",15),rep("CMAX",15),rep("AUC",15),rep("CMAX",15))

forest_plot(plotdata,
            ref_area = c(0.8, 1.2),
           x_facet_text_size = 13,
           y_facet_text_size = 13,
           ref_legend_text = "Reference (vertical line)\n+/- 20% limits (colored area)",
          area_legend_text = "Reference (vertical line)\n+/- 20% limits (colored area)",
            xlabel = "Fold Change Relative to Parameter",
            facet_formula = covname~compound,
            facet_switch = "both",
            facet_scales = "free",
            facet_space = "fixed",
            paramname_shape = TRUE,
            legend_shape_reverse = TRUE,
            interval_shape = c("square","triangle"),
            paramname_color =  FALSE,
            combine_interval_shape_legend = FALSE,
            table_position = "right", plot_title = "",
        ref_area_col = rgb( col2rgb("gray50")[1], col2rgb("gray50")[2],col2rgb("gray50")[3],
                            max = 255, alpha = 0.1*255 ) ,
            interval_col = c("steelblue"),
            strip_col = "lightblue",
            plot_table_ratio = 1.5)

# Example 3b

plotdata$paramname <- c(rep("1-OH",30),rep("BZD",30))
plotdata$paramname2 <- c(rep("AUC",15),rep("CMAX",15),rep("AUC",15),rep("CMAX",15))
forest_plot(plotdata,
           show_ref_area = TRUE,
```

```
            x_facet_text_size = 13,
            y_facet_text_size = 13,
            ref_legend_text = "Reference (vertical line)",
            area_legend_text = "Reference (vertical line)",
            xlabel = "Fold Change Relative to Parameter",
            facet_formula = covname~paramname2,
            facet_switch = "both",
            facet_scales = "free",
            facet_space = "free",
            legend_order = c("shape","pointinterval","ref"),
            paramname_shape = TRUE,
            interval_shape = c("diamond","diamond filled",
                               "diamond","diamond filled"),
            paramname_color =  TRUE,
            combine_interval_shape_legend = TRUE,
            legend_shape_reverse = TRUE,
            legend_color_reverse = TRUE,
            interval_legend_title="Median (points)\n95% CI (horizontal lines)",
            table_position = "right", plot_title = "",
            ref_area_col = "gray85" ,
            interval_col = c("#ee3124", "#fdbb2f"),
            strip_col = "#475c6b",
            y_facet_text_col = "white",x_facet_text_col = "white",
            major_x_labels         = c("1/2", "0.8","1", "1.25", "2"),
            logxscale = TRUE, major_x_ticks =c(0.5,0.8,1,1.25,2),
            table_text_size = 5,
            plot_table_ratio = 1.5,
            ref_value_by_panel = TRUE,
            ref_value_by_panel_data = as.data.frame(
            plotdata %>%
            distinct(paramname2,covname) %>%
            dplyr::mutate(xintercept=ifelse(paramname2=="CMAX",1,1.2))))

# Example 3

plotdata <- get_sample_data("forestplotdatacpidata.csv")
forest_plot(plotdata,
             ref_area = c(0.8, 1.2),
             x_facet_text_size = 12,
             y_facet_text_size = 12,
             y_label_text_size = 10,
             x_label_text_size = 10,
             table_text_size = 6,
             plot_table_ratio = 1.5,
            ref_legend_text = "Reference (vertical line)\n+/- 20% limits (colored area)",
           area_legend_text = "Reference (vertical line)\n+/- 20% limits (colored area)",
             xlabel = "Fold Change Relative to RHZE",
             facet_formula = "covname~paramname",
             table_position = "below",
             show_table_facet_strip = "both",
             show_table_yaxis_tick_label = TRUE)

# Example 4
```

```
plotdata <- get_sample_data("dataforest.csv")
plotdata <- plotdata %>%
  dplyr::mutate(midlabel = format(round(mid,2), nsmall = 2),
         lowerlabel = format(round(lower,2), nsmall = 2),
         upperlabel = format(round(upper,2), nsmall = 2),
         LABEL = paste0(midlabel, " [", lowerlabel, "-", upperlabel, "]"))
plotdata <- plotdata %>%
  filter(covname%in%c("Weight"))
plotdata$label <- as.factor(as.character(plotdata$label))
plotdata$label <- factor(plotdata$label, c("36.2 kg","66 kg","110 kg"))
forest_plot(plotdata,
            ref_area = c(0.8, 1.2),
            x_facet_text_size = 13,
            y_facet_text_size = 13,
           ref_legend_text = "Reference (vertical line)\n+/- 20% limits (colored area)",
          area_legend_text = "Reference (vertical line)\n+/- 20% limits (colored area)",
            xlabel = "Fold Change Relative to Parameter",
            facet_formula = "covname~paramname",
            facet_switch = "both",
            facet_scales = "free",
            facet_space = "fixed",
            table_position = "below",
            plot_table_ratio = 1,
            show_table_facet_strip = "both",
            show_table_yaxis_tick_label = TRUE)

# Example 5

forest_plot(plotdata,
            ref_area = c(0.8, 1.2),
            x_facet_text_size = 13,
            y_facet_text_size = 13,
           ref_legend_text = "Reference (vertical line)\n+/- 20% limits (colored area)",
          area_legend_text = "Reference (vertical line)\n+/- 20% limits (colored area)",
            xlabel = "Fold Change Relative to Parameter",
            facet_formula = "covname~.",
            facet_switch = "both",
            facet_scales = "free",
            facet_space = "fixed",
            paramname_shape = TRUE,
            table_position = "none",
        ref_area_col = rgb( col2rgb("gray50")[1], col2rgb("gray50")[2],col2rgb("gray50")[3],
            max = 255, alpha = 0.1*255 ) ,
            interval_col = "steelblue",
            strip_col = "lightblue",
            plot_table_ratio = 1)

## End(Not run)
```

`get_sample_data` *Get sample dataset*

Description

Get a sample dataset that is included with the package to plot a forest plot.

Usage

```
get_sample_data(dataset = "dfall.csv")
```

Arguments

dataset	A sample dataset file.

`prezista` *Prezista Drug Label Data*

Description

A dataset containing an excerpt from the official Prezista FDA Drug Label to help in the app exploration.

Usage

```
prezista
```

Format

A dataset with 33 rows and 6 variables

covname Covariate Name, a character variable with two values Protease Inihibitors and Other Antiretrovirals

label Covariate value label, a character variable with several possible values

paramname Parameter on which the effects are shown, a character variable with three possible values Cmax, AUC and Cmin

mid Middle value for the effects, the median from the uncertainty distribution

lower Lower value for the effects usually the 5% from the uncertainty distribution

upper Upper value for the effects usually the 95% from the uncertainty distribution

Source

Table 16 from https://www.accessdata.fda.gov/drugsatfda_docs/label/2017/021976s045_202895s020lbl.pdf

run_interactiveforestplot *Run the interactiveforestplot application*

Description

Run the `interactiveforestplot` application.

Usage

```
run_interactiveforestplot(data = NULL)
```

Arguments

`data`	optional data to load when the app is launched

Examples

```
if (interactive()) {
  run_interactiveforestplot()
}
```

wtage *Weight Age CDC growth charts data*

Description

Weight-for-age, 2 to 20 years, LMS parameters and selected smoothed weight percentiles in kilograms, by sex and age.

Usage

```
wtage
```

Format

A dataset with 436 rows and 14 variables

Sex 1=male; 2=female

Agemos Age in months

L skewness distribution parameter

M location distribution parameter

S scale distribution parameter

P3 Smoothed third percentile

P5 Smoothed fifth percentile

P10 Smoothed tenth percentile

P25 Smoothed twenty fifth percentile

P50 Smoothed fiftieth percentile

P75 Smoothed seventy fifth percentile

P90 Smoothed ninetieth percentile

P95 Smoothed ninety fifth percentile

P97 Smoothed ninety seventh percentile

Source

CDC website https://www.cdc.gov/growthcharts/data/zscore/wtage.csv

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