Package: forplot (via r-universe)

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Title Forest plots

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Description The package generates forest plots.

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`b_axis` *Modify axis in boxplot (b) items of a forest plot object (fobj)*

Description

Passed to `axis`.

Usage

```
b_axis(fobj, item = NULL, ...)
```

Arguments

`fobj`	a forest plot object of class 'fobj'
`item`	item to be modified, either a number or the name of the column in fobj$dat. If NULL (the default), all items of type 'b' are affected.
`...`	options to be passed to `axis`.

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","b","t","f","t"),
dat = forplotdata, obs = forplotdata_bp,
 lwidths = c(0.6,0.4,0.6,0.4,0.6,1,1,1,0.5))
fobj<-b_axis(fobj, at = seq(2,10,by=2))
plotfobj(fobj)
```

`b_boxplot` *Modify boxplot (b) items of a forest plot object (fobj)*

Description

Passed to `boxplot`.

Usage

```
b_boxplot(fobj, item = NULL, ...)
```

Arguments

`fobj`	a forest plot object of class 'fobj'
`item`	item to be modified, either a number or the name of the column in fobj$dat. If NULL (the default), all items of type 'b' are affected
`...`	options to be passed to `boxplot`

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","b","t","f","t"),
dat = forplotdata, obs = forplotdata_bp,
 lwidths = c(0.6,0.4,0.6,0.4,0.6,1,1,1,0.5))
fobj<-b_boxplot(fobj, boxwex = 0.2)
plotfobj(fobj)
```

combinefobj *Combine multiple forest plot objects (fobj)*

Description

Combines a list of fobj. Changes the fobj to an cfobj.

Usage

```
combinefobj(
  lfobj,
  atrows = NA,
  subtitle = NA,
  lheights = NA,
  keepiheadfoot = c(TRUE, TRUE)
)
```

Arguments

lfobj	a list of forest plot objects of class 'fobj'
atrows	number of the row(s) at which the fibj should be split. The split is always before the indicated rows.
subtitle	optional character vector with subtitles, has to be of the same length as atrows
lheights	Optional numeric vector with the relative heights of header, subtitles, main panels and footer. The length has to correspond to 3 + 2*number of inserted subtitles.
keepiheadfoot	logical of length 2, whether the header and footers of the individual fobjs are kept.

Value

a combined forest plot object of class 'cfobj'

Examples

```
fobj1<-genfobj(dat = forplotdata[1:5,],
 layout = c("t","t","t","t","t","t","f","t"),
 lwidths = c(0.8,0.4,0.6,0.4,0.6,1,1,0.5))

fobj2<-genfobj(dat = forplotdata[6:10,],
 layout = c("t","t","t","t","t","t","f","t"),
 lwidths = c(0.8,0.4,0.6,0.4,0.6,1,1,0.5))

cfobj<-combinefobj(list(fobj1,fobj2))
plotfobj(cfobj)
```

d_axis — *Modify axis in density (d) items of a forest plot object (fobj)*

Description

Passed to axis.

Usage

```
d_axis(fobj, item = NULL, ...)
```

Arguments

fobj	a forest plot object of class 'fobj'
item	item to be modified, either a number or the name of the column in fobj$dat. If NULL (the default), all items of type 'b' are affected.
...	options to be passed to axis.

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","d","t","f","t"),
dat = forplotdata, obs = forplotdata_bp,
 lwidths = c(0.6,0.4,0.6,0.4,0.6,1,1,1,0.5))
fobj<-d_axis(fobj, at = seq(2,10,by=2))
plotfobj(fobj)
```

d_lines — *Modify lines in density (d) items of a forest plot object (fobj)*

Description

Passed to lines.

Usage

```
d_lines(fobj, item = NULL, linenr = NULL, ...)
```

Arguments

fobj	a forest plot object of class 'fobj'
item	item to be modified, either a number or the name of the column in fobj$dat. If NULL (the default), all items of type 's' are affected
linenr	lines to be modified. A vector of length 2 refering to the variable and the arm. If NULL (the default), all lines are affected. If one number is NA, all lines are affected.
...	options to be passed to lines

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","d","t","f","t"),
dat = forplotdata, obs = forplotdata_bp,
 lwidths = c(0.6,0.4,0.6,0.4,0.6,1,1,1,0.5))
#all lines:
fobj<-d_lines(fobj=fobj, lw=2)
plotfobj(fobj)

#only one arm:
fobj<-d_lines(fobj=fobj, linenr=c(NA,2), col=1)
plotfobj(fobj)
```

---

f_arrows — *Modify arrows (confidence intervals) in forest (f) items of a forest plot object (fobj)*

Description

Passed to arrows.

Usage

```
f_arrows(fobj, item = NULL, ...)
```

Arguments

fobj	a forest plot object of class 'fobj'
item	item to be modified, either a number or the name of the column in fobj$dat. If NULL (the default), all items of type 'f' are affected
...	options to be passed to arrows

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","t","f","t"),
 dat = forplotdata, lwidths = c(0.8,0.4,0.6,0.4,0.6,1,1,0.5))
fobj<-f_arrows(fobj = fobj, col = 2)
plotfobj(fobj)
```

---

f_axis — *Modify axis in forest (f) items of a forest plot object (fobj)*

Description

Passed to axis.

Usage

```
f_axis(fobj, item = NULL, ...)
```

Arguments

fobj	a forest plot object of class 'fobj'
item	item to be modified, either a number or the name of the column in fobj$dat. If NULL (the default), all items of type 'f' are affected
...	options to be passed to axis

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","t","f","t"),
 dat = forplotdata, lwidths = c(0.8,0.4,0.6,0.4,0.6,1,1,0.5))
fobj<-f_axis(fobj = fobj, at = seq(-1,0.2, by=0.4),
tck=-0.03, mgp = c(2,0.5,0))
plotfobj(fobj)
```

`f_cutarrows` *Adds arrowheads to confidence intervals which extend beyond the x-axis limits in forest (f) items of a forest plot object (fobj)*

Description

Adds arrowheads to confidence intervals which extend beyond the x-axis limits in forest (f) items of a forest plot object (fobj)

Usage

```
f_cutarrows(fobj, item = NULL)
```

Arguments

`fobj`	a forest plot object of class 'fobj'
`item`	item to be modified, either a number or the name of the column in fobj$dat. If NULL (the default), all items of type 'f' are affected

Value

a forest plot object of class 'fobj'

Examples

```
#Modify data
dat<-forplotdata
dat$beta_lci[1]<-c(-3)
dat$beta_uci[2]<-c(3)
dat[3,c("beta_lci","beta_uci")]<-c(-3,3)
dat[4,c("beta","beta_lci")]<-c(-2,-3)
dat$beta_format<-paste0(sprintf("%2.2f",dat$beta),
" (",sprintf("%2.2f",dat$beta_lci)," to ",
sprintf("%2.2f",dat$beta_uci),")")

#Generat fobj
fobj<-genfobj(layout = c("t","t","t","t","t","t","f","t"),
dat = dat, lwidths = c(0.8,0.4,0.6,0.4,0.6,1,1,0.5))

#Cut arrows
fobj<-f_axis(fobj, xlim=c(-1.5,1))
fobj<-f_cutarrows(fobj)
plotfobj(fobj)
```

f_direction — *Add and modify direction indicator in forest (f) items of a forest plot object (fobj)*

Description

Passed to mtext.

Usage

```
f_direction(fobj, item = NULL, ...)
```

Arguments

fobj	a forest plot object of class 'fobj'
item	item to be modified, either a number or the name of the column in fobj$dat. If NULL (the default), all items of type 'f' are affected
...	options to be passed to mtext

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","t","f","t"),
 dat = forplotdata, lwidths = c(0.8,0.4,0.6,0.4,0.6,1,1,0.5))
fobj<-f_direction(fobj = fobj, text = "A better    B better",
 line = 1.6)
plotfobj(fobj)
```

f_points — *Modify points in forest (f) items of a forest plot object (fobj)*

Description

Passed to points.

Usage

```
f_points(fobj, item = NULL, ...)
```

Arguments

fobj	a forest plot object of class 'fobj'
item	item to be modified, either a number or the name of the column in fobj$dat. If NULL (the default), all items of type 'f' are affected
...	options to be passed to points

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","t","f","t"),
 dat = forplotdata, lwidths = c(0.8,0.4,0.6,0.4,0.6,1,1,0.5))
fobj<-f_points(fobj = fobj, pch = 16, cex = 1.5)
plotfobj(fobj)
```

---

f_refline — *Add and modify the reference line in forest (f) items of a forest plot object (fobj)*

Description

Passed to abline.

Usage

```
f_refline(fobj, item = NULL, ...)
```

Arguments

fobj	a forest plot object of class 'fobj'
item	item to be modified, either a number or the name of the column in fobj$dat. If NULL (the default), all items of type 'f' are affected
...	options to be passed to abline

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","t","f","t"),
 dat = forplotdata, lwidths = c(0.8,0.4,0.6,0.4,0.6,1,1,0.5))
fobj<-f_refline(fobj = fobj, v = 0)
plotfobj(fobj)
```

forplotdata — *Demonstration data set with continous outcomes*

Description

Simulated summary data from 10 outcomes to be presented in a forest plot. Each row represents the summary of one outcome variable for two treatment groups with columns for the variable name (vlabel), number of observations and mean (sd) for each group (n1, n2, n3 and n4), the difference between groups with 95% CI as a formatted text column (beta_format) and as numeric variables to draw the forest (beta, beta_lci, beta_uci), and a p-value (p1)

Usage

```
forplotdata
```

Format

A data frame with 10 columns: `vlabel`, `n1`, `n2`, `n3`, `n4`, `beta_format`, `beta`, `beta_lci`, `beta_uci` and `p1`.

forplotdata_bp — *Raw data for continous outcomes*

Description

Simulated raw data from 10 outcomes in a long format. Includes columns for the outcome values (value), the outcome variable (variable) as factor, and the treatment arm (arm) as a factor.

Usage

```
forplotdata_bp
```

Format

A data frame with 3 columns: `value`, `variable` and `arm`.

forplotdata_prop *Demonstration data set with binary outcomes*

Description

Simulated summary data from 10 outcomes to be presented in a forest plot. Each row represents the summary of one outcome variable for two treatment groups with columns for the variable name (vlabel), number of observations and n (%) for each group (n1, n2, n3 and n4), the crude proporion in each group (prop1, prop2) the risk difference between groups (beta), with 95% CI (beta_lci and beta_uci), the formatted risk differnce (beta_format) and a p-value (p1)

Usage

```
forplotdata_prop
```

Format

A data frame with 12 columns: `vlabel`, `n1`, `n2`, `n3`, `n4`, `prop1`, `prop2`, `beta`, `beta_lci`, `beta_uci`, `beta_format` and `p1`.

fplot *Produce forest plots*

Description

This function is deprecated. We recommend using genfobj and friends instead

Usage

```
fplot(
  dat,
  nrows = 1,
  ncols = NA,
  nns = NA,
  lheights = c(0.1, 1, 0.05),
  lwidths = NA,
  y.at = NA,
  font = NA,
  arrow = TRUE,
  arrow_length = 0.05,
  arrow_angle = 30,
  cap_length = 0,
  shift_label_col = 0,
  center_label_col = NA,
  shift_textbeta_col = 0,
```

```
  shift_ymax = 0,
  shift_ymin = 0,
  xlim = NA,
  xlab = NA,
  xlab_text = NA,
  plim = NA,
  plab = NA,
  plab_text = NA,
  xlab_cex = 0.6,
  xlab_line = 0,
  tck = -0.04,
  shift_xaxis = 0,
  xtitle = NA,
  lwd = 1,
  pcol = rgb(0.1, 0.1, 0.1, 0.2),
  lscale = FALSE,
  ps = NA,
  prps = NA,
  header = NA,
  ref = list(x = NA, extend = 0, lty = 2, col = "grey50", lwd = lwd),
  bottomline = NA,
  headline = NA,
  headline_pos = c(0, 1),
  sideline = FALSE,
  bpdat = NULL,
  bpopt = NA,
  bplim = NA,
  bplab = NA,
  bplab_text = NA,
  beta2 = NULL,
  xlab2 = NA,
  xlab_text2 = NA,
  xlim2 = NA,
  xtitle2 = NA,
  ...
)
```

Arguments

dat	data frame with variables called vlabel (labels), nx with x=1,2,... (num or chr columns with strings, e.g. number of observations or descriptives), beta, beta_lci, beta_uci (num columns with point estimates and confidence interval) optionally beta_format (num or chr column with formatted text to be printed along forest, generated from beta if not given) px with x=1,2,.. (num or chr columns with p-value(s)) propx with x=1,2,.. (num columns with proportion in the groups, generates simple scatter plot)
nrows	number of rows, setting for layout, default is 1
ncols	number of columns, setting for layout, typically derived from the data

nns	number of n columns, derived from data if not given
lheights	lheights: relative height of rows, length is typically 3 (header, data ,footer)
lwidths	lwidths: relative width of columns, length correpsonds to columns in forest plus 2 (left and right margin)
y.at	position of lines, 1:nrow(dat) by default
font	font for variable vlabel, length has to correspond to rows of dat, default is rep(1,nrow(dat))
arrow	logical, whether to use arrows if xlim does not include confidence interval limits
arrow_length	length of the edges of the arrow head (in inches)
arrow_angle	angle from the shaft of the arrow to the edge of the arrow head
cap_length	length of the confidence interval cap, 0 if none
shift_label_col	inset of labels in the first column, default is 0
center_label_col	centering of label in first column
shift_textbeta_col	inset of formatted effects (beta_format)
shift_ymax	down-shift of maximal y-value, smaller space to top
shift_ymin	up-shift of minimal y-value, smaller space to bottom
xlim	limits for x-axis in forest plots, derived from beta by default
xlab	position of labels for x-axis, derived from beta by default
xlab_text	text at the labels, derived from beta by default
plim	limits for x-axis of the proportion scatterplot (if any), c(0,1) by default
plab	position of labels for x-axis of the proportion scatterplot (if any), pretty(plim) by default
plab_text	text at the labels, 100*plab by default (percentages from proportion)
xlab_cex	size of x-axis labels (not title)
xlab_line	position of x-axis label (not title)
tck	x-axis tick length
shift_xaxis	shift position of x-axis
xtitle	x axis title and format, list with x (xpos), y (ypos), textr and textl (text at the right/left side), cex (text size)
lwd	line widths
pcol	color if symbols are used, not active
lscale	logicial, beta given on log scale, use exp to format beta, default is FALSE
ps	points for plot, list with pch, cex, and col
prps	points for proportion scatterplot, list with pch, cex, and col
header	for table, either a character vector or a list with any of x (vector with xpos), y (single y-position), text (character vector with labels), cex (text size), col (text colour), the list can be >1 to define more than one header line

ref	reference line, list with x (xposition), extend (extension on top), lty (line type), col (line color), lwd (line width)
bottomline	line at the bottom if not NA
headline	line for header if not NA, 1 for one line at the bottom, 2 for a line at the bottom and top
headline_pos	vector with position of lower and upper headline (if applicable), default c(0,1)
sideline	logical, whether to show lines at the side of the proportion scatterplot
bpdat	Optional data frame in a long format used to generate boxplots, must have columns value (the outcome value), variable (the outcome variable, safest as a factor to preserve the order in the plot), and arm (the treatment arm, safest as a factor to preserve the order in the plot)
bpopt	List of options to pass to boxplot, with elements "col" and "boxwex"
bplim	limits for x-axis of the boxplot (if any), c(min,max) by default
bplab	position of labels for x-axis of the boxplot (if any), pretty(bplim) by default
bplab_text	text at the labels, bplab by default
beta2	if not NULL a second forest is generated, needs variables beta2, beta_lci2 and beta_uci2 in dat
xlab2	see xlab for 2nd forest
xlab_text2	see xlab_text for 2nd forest
xlim2	see xlim for 2nd forest
xtitle2	see xtitle for 2nd forest
...	options passed to ff_ci for formatting the effects (if beta_format not given)

Details

required input is a data frame with a column called vlabel, beta, beta_lci and beta_uci.

Value

forest plot

Examples

```
data(forplotdata)
# Minimal example
 fplot(dat=forplotdata[,c("vlabel","beta","beta_lci","beta_uci")])

# Standard example
fplot(dat=forplotdata)

# Set widths and heights
lwidths<-c(0.05,0.5,0.2,0.8,0.2,0.8,1.2,1.2,0.5,0.05)
lheights<-c(0.14,1,0.08)
fplot(dat=forplotdata,lwidths=lwidths,lheights=lheights)
```

```
# Include header:
header<-c("","Group1\nN","Group1\nmean (sd)","Group2\nN","Group2\nmean (sd)",
"Mean difference\n95% CI","","P-value")
fplot(dat=forplotdata,lwidths=lwidths,lheights=lheights,header=header)

header<-list(list(y=0.7,
 text=c("Group1","Group2","Mean difference (95% CI)","P-value"),
 x=c(0.10,0.32,0.7,0.98)),
 list(y=0.3,text=c("N","mean (sd)","N","mean (sd)"),
 x=c(0.07,0.18,0.28,0.38)))
fplot(dat=forplotdata,header=header,lwidths=lwidths,lheights=lheights)

# Reference line and xlim
xtitle<-list(x=0.86,y=0.2,textl="Group 1 better  ",textr="  Group 2 better")
fplot(dat=forplotdata,header=header,lwidths=lwidths,lheights=lheights,
xtitle=xtitle,ref=list(x=0),xlim=c(-1,0.5))

# Shift x-axis, labels and title
xtitle<-list(x=0.86,y=0.6,textl="Group 1 better  ",textr="  Group 2 better")
fplot(dat=forplotdata,header=header,lwidths=lwidths,lheights=lheights,
ref=list(x=0,col=2,extend=2),
xtitle=xtitle,xlim=c(-1,0.5),shift_xaxis=0.3,xlab_line=-0.8)

# Lines at header and bottom
fplot(dat=forplotdata,header=header,lwidths=lwidths,lheights=lheights,
  ref=list(x=0,col=2,extend=2),
 xtitle=xtitle,xlim=c(-1,0.5),shift_xaxis=0.3,xlab_line=-0.8,
 headline=2,bottomline=1)

#Add boxplot for continuous outcomes
lwidths<-c(0.05,0.5,0.3,0.6,0.3,0.6,0.8,1.2,1.2,0.5,0.05)
lheights<-c(0.08,1,0.04)

header<-list(list(y=0.7,
 text=c("Group1","Group2","Mean difference (95% CI)","P-value"),
 x=c(0.10,0.3,0.7,0.98),col=c("red","blue","black","black")),
 list(y=0.3,text=c("N","mean (sd)","N","mean (sd)"),
 x=c(0.07,0.15,0.25,0.32)))

xtitle<-list(x=0.88,y=0.3,textl="Group 1 better  ",textr="  Group 2 better")

fplot(dat=forplotdata,header=header,lwidths=lwidths,lheights=lheights,
   ref=list(x=0,col=2,extend=2),
 xtitle=xtitle,xlim=c(-1,0.5),shift_ymin=0.5, shift_xaxis=0.5,xlab_line=-1,
 headline=2,bottomline=1,
 bpdat=forplotdata_bp)

#Add a scatterplot for proportions
data(forplotdata)
lwidths<-c(0.05,0.5,0.2,0.6,0.2,0.6,1.0,1.2,1.0,0.5,0.05)
lheights<-c(0.08,1,0.04)
header<-list(list(y=0.7,
 text=c("Group1","Group2","Proportions (%)","Risk difference in %","P-value"),
```

```
 x=c(0.10,0.25,0.45,0.7,0.98)),
 list(y=0.3,text=c("N","n (%)","N","n (%)","(1: red, 2: blue)", "(95% CI)"),
 x=c(0.07,0.15,0.22,0.30,0.45,0.7)))
 xtitle<-list(x=0.83,y=0.4,textl="Group 1 better  ",textr="  Group 2 better")

prps<-list(list(pch=16,cex=1.5,col=rgb(1,0,0,0.5)),
           list(pch=16,cex=1.5,col=rgb(0,0,1,0.5)))

fplot(dat=forplotdata_prop,lwidths=lwidths,lheights=lheights,
 header=header,
 prps=prps,
 xtitle=xtitle,ref=list(x=0),
 xlab_line=-1.0,xlab=c(-0.2,0,0.2,0.4), xlab_text=c(-20,0,20,40),
 headline=2,bottomline=1,sideline=TRUE,
 shift_ymin=0.5, shift_xaxis=0.5)
```

---

genfobj *Create a forest plot object (fobj)*

Description

First step to generate a forest plot. Generates a fobj that can be plotted.

Usage

```
genfobj(
  layout,
  dat,
  obs = NULL,
  lwidths = NA,
  lheights = NA,
  y.at = NA,
  ylim = NA
)
```

Arguments

layout	layout of the plot, character vector with 't' (text), 'f' (forest), 's' (strip), 'b' (boxplot) or 'd' (density plot).
dat	data frame that should be plotted
obs	Optional data frame with the observations for the boxplot. Required of layout includes 'b' or 'd'.
lwidths	Optional numeric vector with the relative widths of the columns. Must have the same length as layout.
lheights	Optional numeric vector of length 3 with the relative heights of header, main panel and footer.
y.at	Optional numeric vector with the position of the rows. Usually not required.
ylim	Optional limits of the rows. Usually not required.

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","t","f","t"),
 dat = forplotdata,
lwidths = c(0.8,0.4,0.6,0.4,0.6,1,1,0.5))
plotfobj(fobj)
```

---

gridlines — *Customize horizontal lines in a forest plot object (fobj)*

Description

Passed to abline.

Usage

```
gridlines(fobj, ...)
```

Arguments

fobj	a forest plot object of class 'fobj'
...	options to be passed to Passed to abline.

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","t","f","t"),
 dat = forplotdata,
lwidths = c(0.8,0.4,0.6,0.4,0.6,1,1,0.5))
fobj<-gridlines(fobj = fobj)
plotfobj(fobj)
```

header *Modify the header of a forest plot object (fobj)*

Description

Passed to text.

Usage

```
header(fobj, hlayout = NULL, headernr = NULL, ...)
```

Arguments

fobj	a forest plot object of class 'fobj'
hlayout	layout of header columns. Numeric vector with the same length as the labels.
headernr	header row to be modified. If NULL (the default), all header rows are affected
...	options to be passed to text

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","t","f","t"),
 dat = forplotdata,
lwidths = c(0.8,0.4,0.6,0.4,0.6,1,1,0.5))
#Custom names
fobj<-header(fobj = fobj,
 labels = c("","Group1\nN","Group1\nmean (sd)","Group2\nN","Group2\nmean (sd)",
"Mean difference\n95% CI","","P-value"),
 y = 0.6)
plotfobj(fobj)

#Several lines
fobj<-header(fobj = fobj, hlayout = c(1,2,2,3,3,4,4,5),  headernr = 1,
labels=c("","Arm A","Arm B","Mean diff (95% CI)","P-value"),
y = 0.9)
fobj<-header(fobj = fobj, hlayout = c(1,2,3,4,5,6,7,8), headernr = 2,
labels=c("","N","Mean (sd)","N","Mean (sd)","","","",y=0.3)
plotfobj(fobj)
```

insert_subtitle *Insert subtitles over the whole width of an fobj*

Description

Changes to fobj to an cfobj.

Usage

```
insert_subtitle(fobj, atrows, subtitle = NA, lheights = NA)
```

Arguments

fobj	a forest plot object of class 'fobj'
atrows	number of the row(s) at which the fibj should be split. The split is always before the indicated rows.
subtitle	optional character vector with subtitles, has to be of the same length as atrows
lheights	Optional numeric vector with the relative heights of over header, subtitles, main panels and overall footer.

Value

a combined forest plot object of class 'cfobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","t","f","t"),
 dat = forplotdata,
lwidths = c(0.8,0.4,0.6,0.4,0.6,1,1,0.5))
cfobj<-insert_subtitle(fobj,
atrows=c(3, 5),
subtitle=c("A first long title is added here",
 "A second even longer title is added here"))
 plotfobj(cfobj)
```

plotfobj *Plot a forest plot object (fobj)*

Description

Plot a forest plot object (fobj)

Usage

```
plotfobj(fobj)
```

Arguments

fobj	a forest plot object or a combined forest plot object

Value

a plot

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","t","f","t"),
 dat = forplotdata,
lwidths = c(0.8,0.4,0.6,0.4,0.6,1,1,0.5))
plotfobj(fobj)
```

---

s_axis *Modify axis of stripchart (s) items of a forest plot object (fobj)*

Description

Passed to axis.

Usage

```
s_axis(fobj, item = NULL, ...)
```

Arguments

fobj	a forest plot object of class 'fobj'
item	item to be modified, either a number or the name of the column in fobj$dat. If NULL (the default), all items of type 's' are affected
...	options to be passed to axis

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","s2","t","f","t"),
dat = forplotdata_prop,
lwidths = c(0.6,0.4,0.6,0.4,0.6,1.0,1.2,1,0.5))
fobj<-s_axis(fobj=fobj, xlim = c(0,1),
 at = seq(0,1,by=0.25), labels = seq(0,100,by=25))
plotfobj(fobj)
```

s_borders — *Customize borders of stripchart (s) item of a forest plot object (fobj)*

Description

Passed to abline. Without options two vertical lines are plotted at x-axis limits.

Usage

```
s_borders(fobj, item = NULL, ...)
```

Arguments

fobj	a forest plot object of class 'fobj'
item	item to be modified, either a number or the name of the column in fobj$dat. If NULL (the default), all items of type 's' are affected
...	options to be passed to abline

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","s2","t","f","t"),
dat = forplotdata_prop,
lwidths = c(0.6,0.4,0.6,0.4,0.6,1.0,1.2,1,0.5))
fobj<-s_borders(fobj=fobj)
plotfobj(fobj)
```

s_hline — *Modify the hiorzontal line in stripchart (s) items of forest plot object (fobj)*

Description

Passed to abline.

Usage

```
s_hline(fobj, item = NULL, ...)
```

Arguments

fobj	a forest plot object of class 'fobj'
item	item to be modified, either a number or the name of the column in fobj$dat. If NULL (the default), all items of type 's' are affected
...	options to be passed to abline

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","s2","t","f","t"),
dat = forplotdata_prop,
lwidths = c(0.6,0.4,0.6,0.4,0.6,1.0,1.2,1,0.5))
fobj<-s_hline(fobj=fobj, lty = 4)
plotfobj(fobj)
```

---

s_points — *Modify points in stripchart (s) items of a forest plot object (fobj)*

Description

Passed to points.

Usage

```
s_points(fobj, item = NULL, pointnr = NULL, ...)
```

Arguments

fobj	a forest plot object of class 'fobj'
item	item to be modified, either a number or the name of the column in fobj$dat. If NULL (the default), all items of type 's' are affected
pointnr	points to be modified. If NULL (the default), all points are affected.
...	options to be passed to points

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","s2","t","f","t"),
dat = forplotdata_prop,
lwidths = c(0.6,0.4,0.6,0.4,0.6,1.0,1.2,1,0.5))
fobj<-s_points(fobj=fobj, pch = 16, cex=1.5)
fobj<-s_points(fobj=fobj, pointnr = 1, col = "red")
fobj<-s_points(fobj=fobj, pointnr = 2, col = "blue")
plotfobj(fobj)
```

---

stripes *Customize stripes in a forest plot object (fobj)*

Description

Passed to `rect`.

Usage

```
stripes(fobj, ...)
```

Arguments

`fobj`	a forest plot object of class 'fobj'
`...`	options to be passed to `rect`

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","t","f","t"),
 dat = forplotdata,
lwidths = c(0.8,0.4,0.6,0.4,0.6,1,1,0.5))
fobj<-stripes(fobj = fobj)
plotfobj(fobj)
```

`t_options` *Modify text (t) items of a forest plot object (fobj)*

Description

Passed to `text`.

Usage

```
t_options(fobj, item = NULL, ...)
```

Arguments

`fobj`	a forest plot object of class fobj
`item`	item to be modified, either a number or the name of the column in fobj$dat. If NULL (the default), all items of type 't' are affected
`...`	options to be passed to `text`

Value

a forest plot object of class 'fobj'

Examples

```
fobj<-genfobj(layout = c("t","t","t","t","t","t","f","t"),
 dat = forplotdata, lwidths = c(0.8,0.4,0.6,0.4,0.6,1,1,0.5))
fobj<-t_options(fobj = fobj, item = 1, col = 2)
plotfobj(fobj)
```

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