

Package ‘figuRes2’

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Type Package

Title Support for a Variety of Figure Production Tasks

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URL <https://github.com/gcicc/figures2>

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Description We view a figure as a collection of graphs/tables assembled on a page and optionally annotated with metadata (titles, headers and footers). Functions and supporting documentation are offered to streamline a variety of figure production task.

License GPL-2

Encoding UTF-8

LazyLoad no

Depends R (>= 3.5.0)

Imports survival, ggplot2, scales, stringr, plyr, grid, gridExtra, gtable, reshape2, grDevices, utils

Suggests RColorBrewer, knitr, rmarkdown, tidyverse, latex2exp

ByteCompile TRUE

VignetteBuilder knitr

RoxygenNote 7.2.1

NeedsCompilation no

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 annotate.page

annotate.page

Description

Optionally adds up to 4 lines for titles, 3 lines for right and left headers, and 5 lines of footnotes

Usage

```

annotate.page(
  page.height = 8.5,
  page.width = 11,
  top.margin = 1 - 0.5,
  bottom.margin = 1 - 0.5,
  right.margin = 0.75,
  left.margin = 0.75,
  foot.size = 10,
  head.size = 10,
  title.size = 14,
  add.fignum = TRUE,
  fnote.buffer = 0,
  header.buffer = 0,
  fignum.buffer = 1,
  title.buffer = 2,
  fignum = "1.100",
  title = list("If ggplot populates title, annotate.page's title argument gets a ",
    "list of whitespace text strings. If annotate.page is populating titles,",
    "use whitespaces and newline escape characters in ggplot titles",
    "to ensure ggplot object is shrunk titles do not stamp over your graphs"),
  ulh = list("Upper Left Header 1", "Upper Left Header 2", "Upper Left Header 3"),
  urh = list("Upper Right Header 1", "Upper Right Header 2", "Upper Right Header 3"),
  fnote = list("Footnote1: Up to five lines of footnotes can be annotated.",
    "Footnote2: Graphic region height can be flexed.", "Footnote3", "Footnote4",
    "Footnote5: In large-scale production, this may hold file name, time stamp, etc."),
  override = "",
  addTime = TRUE
)

```

Arguments

page.height	used by build.page and annotate.page; presumed to be inches
page.width	used by build.page and annotate.page; presumed to be inches
top.margin	used by build.page and annotate.page; presumed to be inches
bottom.margin	used by build.page and annotate.page
right.margin	used by build.page and annotate.page; presumed to be inches
left.margin	used by build.page and annotate.page; presumed to be inches

foot.size	default: 10; passed to grid.text via gp (annotate.page)
head.size	default: 10 (anotate.page)
title.size	default: 14; passed to grid.text via gp (annotate.page)
add.fignum	logical (annotate.page)
fnote.buffer	fine-control of vertical position (annotate.page)
header.buffer	fine-control of vertical position (anotate.page)
fignum.buffer	fine-control of vertical position (annotate.page)
title.buffer	fine-control of vertical position (annotate.page)
fignum	figure number (annotate.page)
title	vector of title lines (annotate.page)
ulh	vector for upper left headers (annotate.page)
urh	vector for upper right headers (annotate.page)
fnote	vector of 5 footnotes. 5th row is traditionally reserved for filepath, table reference and time stamp. Populate from bottom up. (annotate.page)
override	override
addTime	logical for ading time stamp (annotate.page)

Value

Following an application of build.page, this function stamps on meta-data.

Author(s)

Greg Cicconetti

bar.plot	<i>bar.plot</i>
----------	-----------------

Description

A function for creating harmonized ggplot2 bar charts

Usage

```
bar.plot(
  parent.df,
  category.col = "TRTGRP",
  category.label = "Treatment Group",
  x.label = "",
  y.col = "GWHRT",
  y.label = "Percentage of Subjects",
  y.limits = c(0, 0.7),
  y.ticks = seq(0, 0.3, 0.05),
```

```

    bar.position = "dodge",
    category.palette = c("red", "blue"),
    text.size = 3,
    text.buffer = 0.05,
    killMissing = TRUE
  )

```

Arguments

parent.df	data.frame used by ggplot
category.col	data.frame column associated with categorical variable (bar.plot, box.plot, cdf.plot, dot.plot, km.plot)
category.label	passed to x-axis label
x.label	value gets passed to labs
y.col	parent.df column associated with response variable
y.label	value gets passed to labs
y.limits	passed to scale_y_continuous
y.ticks	passed to scale_y_continuous
bar.position	passed to geom_bar (bar.plot)
category.palette	colors associated with categorical variable
text.size	value gets passed to geom_text
text.buffer	used by bar.plot to control text placement
killMissing	logical used by bar.plot

Value

A ggplot object is returned.

Author(s)

Greg Cicconetti

Examples

```

{
# Access dummy demography dataset
data(demog.data)
levels(demog.data$SEX) <- c("Female", "Male")

# A ggplot object is returned
p1 <- bar.plot(parent.df = demog.data, y.col = "SEX",
  x.label= "Gender", y.label = "Percentage of Subjects",
  category.col = "REGION", category.label = "Region",
  y.limits = c(0, 0.35), y.ticks = seq(0, 0.5, 0.05),
  bar.position= "dodge",
  category.palette = RColorBrewer::brewer.pal(n=5, name = "Dark2"),

```

```
text.size =4, text.buffer=.025, killMissing = TRUE)
print(p1)
}
```

benrisk2.data	<i>This is a dataset structured for building figures using forest.plot</i>
---------------	--

Description

This is a dataset structured for building figures using forest.plot

Author(s)

Greg Cicconetti

box.plot	<i>box.plot</i>
----------	-----------------

Description

A function for creating harmonized ggplot2 boxplots

Usage

```
box.plot(
  parent.df,
  y.col = "AGE",
  y.label = "AGE",
  category.col = "TRTGRP",
  category.label = "Treatment Group",
  y.limits = NULL,
  y.ticks = NULL,
  y.digits = 0,
  shape.palette = c(21, 22),
  category.palette = c(2, 3),
  text.size = 4
)
```

Arguments

parent.df	data.frame used by ggplot
y.col	parent.df column associated with response vairable
y.label	value gets passed to labs
category.col	data.frame column associated with categorical variable (bar.plot, box.plot, cdf.plot, dot.plot, km.plot)

category.label	passed to x-axis label
y.limits	passed to scale_y_continuous
y.ticks	passed to scale_y_continuous
y.digits	passed to scale_y_continuous label's, fmt (box.plot, line.plot)
shape.palette	values passed to scale_shape_manual
category.palette	
	colors assoicated with categorical variable
text.size	value gets passed to geom_text

Value

A ggplot object is returned.

Author(s)

Greg Cicconetti

Examples

```
{
  data(demog.data)
  # pre-processing

  levels(demog.data$SEX) <- c("Female", "Male")

  p1 <- box.plot(parent.df = demog.data,
    y.col = "BMI",
    y.label = expression(paste("BMI (m/kg",phantom()^2,")")),
    category.col = "SEX",
    category.label = "Gender",
    y.limits = c(0, 70),
    y.ticks = seq(0, 100, 10),
    y.digits = 0,
    shape.palette = c(20, 20),
    category.palette = rainbow(6),
    text.size = 4)
  print(p1)
}
```

boxplot.driver

This holds lines to a driver file created by the large-scale vignette

Description

This holds lines to a driver file created by the large-scale vignette

Author(s)

Greg Cicconetti

build.page

*build.page***Description**

Takes page dimensions, figure layout dimensions and an ordered list of grobs/ggplot objects orients them on a page

Usage

```
build.page(
  interior.h = c(1),
  interior.w = c(1),
  ncol = 1,
  nrow = 1,
  interior,
  test.dim = FALSE,
  page.height = 8.5,
  page.width = 11,
  right.margin = 0.75,
  left.margin = 0.75,
  top.margin = 1.4 - 0.5,
  bottom.margin = 1.75 - 0.5,
  pos = 1,
  envir = as.environment(pos)
)
```

Arguments

<code>interior.h</code>	a vector summing to 1 to indicate how to partition the heights (<code>build.page</code>)
<code>interior.w</code>	a vector summing to 1 to indicate how to partition the widths (<code>build.page</code>)
<code>ncol</code>	number of columns for the grid of graphics being built by <code>build.page</code>
<code>nrow</code>	number of rows for the grid of graphics being built by <code>build.page</code>
<code>interior</code>	a list of <code>nrow*ncol</code> grobs/ggplot objects to be displayed in the grid, ordered by row then col (<code>build.page</code>)
<code>test.dim</code>	logical. Assists with figure development. If TRUE it makes a call to <code>grid.show.layout</code> .
<code>page.height</code>	used by <code>build.page</code> and <code>annotate.page</code> ; presumed to be inches
<code>page.width</code>	used by <code>build.page</code> and <code>annotate.page</code> ; presumed to be inches
<code>right.margin</code>	used by <code>build.page</code> and <code>annotate.page</code> ; presumed to be inches
<code>left.margin</code>	used by <code>build.page</code> and <code>annotate.page</code> ; presumed to be inches
<code>top.margin</code>	used by <code>build.page</code> and <code>annotate.page</code> ; presumed to be inches
<code>bottom.margin</code>	used by <code>build.page</code> and <code>annotate.page</code>
<code>pos</code>	used internally by some functions
<code>envir</code>	used internally by some functions

Value

This writes graphics/grobs to a device.

Author(s)

Greg Cicconetti

Examples

```
{
# Commenting out calls to pdf and dev.off.
# pdf(file = "demonstrating build.page.pdf", width = 11, height = 8.5)
build.page(test.dim= TRUE)
build.page(interior.w = c(.5, .5), ncol=2, nrow=1, test.dim= TRUE)
build.page(interior.h = c(.5, .5), ncol=1, nrow=2, test.dim= TRUE)
build.page(interior.h = c(.5, .5), interior.w = c(.5, .5), ncol=2, nrow=2, test.dim= TRUE)
build.page(interior.h=c(1/3,1/3,1/3),
            interior.w=c(1),
            ncol=1, nrow=3,
            test.dim=TRUE)
build.page(interior.h=c(2, 1, 3)/6,
            interior.w=c(.6, .4),
            ncol=2, nrow=3,
            test.dim=TRUE)
build.page(interior.h=c(1/3,1/3,1/3),
            interior.w=c(.5, .5),
            ncol=2, nrow=3,
            test.dim=TRUE,
            top.margin=.1,
            bottom.margin=.1,
            right.margin=.1,
            left.margin=.1)

parabola.up <- ggplot2::ggplot(data.frame(x=-10:10, y=(-10:10)^2), ggplot2::aes(x=x,y=y))+
ggplot2::geom_line()
parabola.down <- ggplot2::ggplot(data.frame(x=-10:10, y=-(-10:10)^2), ggplot2::aes(x=x,y=y))+
ggplot2::geom_line()
cubic.up <- ggplot2::ggplot(data.frame(x=-10:10, y=(-10:10)^3), ggplot2::aes(x=x,y=y))+
ggplot2::geom_line()
cubic.down <- ggplot2::ggplot(data.frame(x=-10:10, y=-(-10:10)^3), ggplot2::aes(x=x,y=y))+
ggplot2::geom_line()

red.parabola.up <- ggplot2::ggplot(data.frame(x=-10:10, y=(-10:10)^2), ggplot2::aes(x=x,y=y))+
ggplot2::geom_line(color="red")
red.parabola.down <- ggplot2::ggplot(data.frame(x=-10:10, y=-(-10:10)^2), ggplot2::aes(x=x,y=y))+
ggplot2::geom_line(color="red")
red.cubic.up <- ggplot2::ggplot(data.frame(x=-10:10, y=(-10:10)^3), ggplot2::aes(x=x,y=y))+
ggplot2::geom_line(color="red")
red.cubic.down <- ggplot2::ggplot(data.frame(x=-10:10, y=-(-10:10)^3), ggplot2::aes(x=x,y=y))+
ggplot2::geom_line(color="red")
```



```

build.page(interior.h=c(1/3,1/3,1/3),
            interior.w=c(.5, .5),
            ncol=2, nrow=3,
            top.margin=.1,
            bottom.margin=.1,
            right.margin=.1,
            left.margin=.1,
            interior = list(parabola.up,
                            parabola.down,
                            cubic.up,
                            cubic.down,
                            red.parabola.down,
                            red.cubic.down))

# dev.off()

}

```

category_by_visit	<i>This is a dataset that would need some pre-processing ahead of using line.plot</i>
-------------------	---

Description

This is a dataset that would need some pre-processing ahead of using line.plot

Author(s)

Greg Cicconetti

cdf.data	<i>This is a dataset structured for building figures using cdf.plot</i>
----------	---

Description

This is a dataset structured for building figures using cdf.plot

Author(s)

Greg Cicconetti

cdf.plot

*cdf.plot***Description**

A function for creating harmonized ggplot2 cumulative distribution plots. Statistics computed by `stat_ecdf()`.

Usage

```
cdf.plot(
  parent.df,
  category.col,
  category.label,
  response.col,
  x.label = "",
  x.limits = NULL,
  x.ticks = NULL,
  y.label = "",
  y.limits = c(0, 1),
  y.ticks = seq(0, 1, 0.2),
  line.size = 0.75,
  category.palette = c("red", "blue")
)
```

Arguments

<code>parent.df</code>	data.frame used by ggplot
<code>category.col</code>	data.frame column associated with categorical variable (bar.plot, box.plot, cdf.plot, dot.plot, km.plot)
<code>category.label</code>	passed to x-axis label
<code>response.col</code>	used by cdf.plottttt
<code>x.label</code>	value gets passed to labs
<code>x.limits</code>	value gets passed to <code>scale_x_continuous</code>
<code>x.ticks</code>	value gets passed to <code>scale_x_continuous</code>
<code>y.label</code>	value gets passed to labs
<code>y.limits</code>	passed to <code>scale_y_continuous</code>
<code>y.ticks</code>	passed to <code>scale_y_continuous</code>
<code>line.size</code>	value gets passed to size within <code>geom_line</code> , <code>geom_step</code>
<code>category.palette</code>	colors assoicated with categorical variable

Value

A ggplot object is returned.

Author(s)

Greg Cicconetti

Examples

```
{
  data(demog.data)
  cdf.plot(parent.df= demog.data,
    category.col = "SEX",
    category.label = "Gender",
    response.col = "BMI",
    x.label = expression(paste("BMI (m/kg",phantom()^2,")")),
    x.limits=c(0,60),
    x.ticks=seq(0,60,5),
    y.label = "Percentage of Subjects",
    y.limits= c(0,1),
    y.ticks = seq(0,1,.2),
    line.size =.75,
    category.palette =c("red", "blue")
  )
}
```

check.ggplot.outliers *check.ggplot.outliers*

Description

Reports via cat statements when ggplot windows truncate data

Usage

```
check.ggplot.outliers(plot.object = NULL)
```

Arguments

plot.object the ggplot object to check

Details

Used in conjunction with log files created with start_session_log

Author(s)

David Wade

default.settings	<i>default.settings</i>
------------------	-------------------------

Description

Global Defaults

Usage

```
default.settings(  
  pos = 1,  
  envir = as.environment(pos),  
  my.path = getwd(),  
  main.theme = "theme_bw",  
  page.width = 11,  
  page.height = 8.5,  
  right.margin = 0.75,  
  left.margin = 0.75,  
  top.margin = 1.4 - 0.5,  
  bottom.margin = 1.75 - 0.5  
)
```

Arguments

pos	used internally by some functions
envir	used internally by some functions
my.path	path to main directory,
main.theme	text string name of theme to be called by theme_set,
page.width	used by build.page and annotate.page; presumed to be inches
page.height	used by build.page and annotate.page; presumed to be inches
right.margin	used by build.page and annotate.page; presumed to be inches
left.margin	used by build.page and annotate.page; presumed to be inches
top.margin	used by build.page and annotate.page; presumed to be inches
bottom.margin	used by build.page and annotate.page

Details

Global Defaults

Value

This function assigns character string objects to the global environment.

Value

The following are assigned to global environment upon calling:

- my.path
- dd
- cd
- od
- blankPanel
- page.width
- page.height
- right.margin
- left.margin
- top.margin
- bottom.margin
- graph.region.h
- graph.region.w

Author(s)

Greg Cicconetti

demog.data	<i>This is a dataset structured for building figures using bar.plot, box.plot, and cdf.plot</i>
------------	---

Description

This is a dataset structured for building figures using bar.plot, box.plot, and cdf.plot

Author(s)

Greg Cicconetti

dot.plot	<i>dot.plot</i>
----------	-----------------

Description

A function for creating harmonized ggplot2 dot plots with compatiability with table.plot and for-est.plot.

Usage

```
dot.plot(
  parent.df = dot.df.melt,
  category.col = "Treatment",
  y.rank.col = "rank",
  y.label.rank.col = "label.rank",
  y.label.col = "subgroup",
  Point.Est = "percent",
  x.limits = c(0, 1),
  x.ticks = seq(0, 1, 0.2),
  y.limits = NULL,
  shape.palette = c(16, 17),
  x.label = "Estimate",
  y.label = "Item",
  category.palette = c("red", "blue")
)
```

Arguments

parent.df	data.frame used by ggplot
category.col	data.frame column associated with categorical variable (bar.plot, box.plot, cdf.plot, dot.plot, km.plot)
y.rank.col	column holding ranks for line items in forest/dot/table plots
y.label.rank.col	column holding ranks for labels in forest/dot/table plots
y.label.col	column holding labels for forest/dot/table plots
Point.Est	point estimate
x.limits	value gets passed to scale_x_continuous
x.ticks	value gets passed to scale_x_continuous
y.limits	passed to scale_y_continuous
shape.palette	values passed to scale_shape_manual
x.label	value gets passed to labs
y.label	value gets passed to labs
category.palette	colors associated with categorical variable

Value

A ggplot object is returned.

Author(s)

Greg Cicconetti

driver1	<i>This holds lines to a driver file created by the large-scale vignette</i>
---------	--

Description

This holds lines to a driver file created by the large-scale vignette

Author(s)

Greg Cicconetti

driver10	<i>This holds lines to a driver file created by the large-scale vignette</i>
----------	--

Description

This holds lines to a driver file created by the large-scale vignette

Author(s)

Greg Cicconetti

driver2	<i>This holds lines to a driver file created by the large-scale vignette</i>
---------	--

Description

This holds lines to a driver file created by the large-scale vignette

Author(s)

Greg Cicconetti

driver3	<i>This holds lines to a driver file created by the large-scale vignette</i>
---------	--

Description

This holds lines to a driver file created by the large-scale vignette

Author(s)

Greg Cicconetti

driver4	<i>This holds lines to a driver file created by the large-scale vignette</i>
---------	--

Description

This holds lines to a driver file created by the large-scale vignette

Author(s)

Greg Cicconetti

driver5	<i>This holds lines to a driver file created by the large-scale vignette</i>
---------	--

Description

This holds lines to a driver file created by the large-scale vignette

Author(s)

Greg Cicconetti

driver6	<i>This holds lines to a driver file created by the large-scale vignette</i>
---------	--

Description

This holds lines to a driver file created by the large-scale vignette

Author(s)

Greg Cicconetti

driver7	<i>This holds lines to a driver file created by the large-scale vignette</i>
---------	--

Description

This holds lines to a driver file created by the large-scale vignette

Author(s)

Greg Cicconetti

driver8	<i>This holds lines to a driver file created by the large-scale vignette</i>
---------	--

Description

This holds lines to a driver file created by the large-scale vignette

Author(s)

Greg Cicconetti

driver9	<i>This holds lines to a driver file created by the large-scale vignette</i>
---------	--

Description

This holds lines to a driver file created by the large-scale vignette

Author(s)

Greg Cicconetti

facetAdjust	<i>FacetLabelAdjuster</i>
-------------	---------------------------

Description

This function takes a 'facet wrapped' ggplot and adds axis labels when a rxc grid is incomplete

Usage

```
facetAdjust(x, pos = c("up", "down"), newpage = is.null(vp), vp = NULL)
```

Arguments

x	a ggplot object
pos	maintain default
newpage	maintain default
vp	maintain default

Value

This function returns a ggplot object.

References

<<http://stackoverflow.com/questions/13297155/add-floating-axis-labels-in-facet-wrap-plot>>

figuRes2*figuRes2: A package for building and annotating multi-panel figures with application to large scale figure production*

Description

This package takes the view that a figure is a collection of graphs/tables assembled on a page and optionally annotated with metadata (titles, headers and footers). The steps to figure building can then be chunked as follows:

1. Data importation
2. Data pre-processing
3. Graph/table building (with subsequent processing necessary)
4. Assembling graph/tables on a page
5. Optional annotation to complete the figure

The figuRes2 package provides a suite of functions for producing harmonized figures using the ggplot2 packages. Additional ggplot themes are included. The package provides functions to assist with assembling multiple graphics on a page and annotating the page with headers and footnotes. Functions to facilitate data processing and mass figure production are included. Data sets are included to demonstrate how the functions work and this document contains a section that walks through the workflow for large scale figure production.

Details

All graphing functions in this package presume a data.frame is supplied with a specific data structure. In practice these can be either imported (e.g., as a .csv file) or generated with R (e.g., output of simulation or call to a probability distribution function).

Data pre-processing of imported files may be required to ensure the data.frames are organized properly, factors are properly organized and labeled appropriately, etc. To handle this, the user may wish to author functions to assist with this pre-processing. The demog.data data set and related process.bslchar function provide an example.

The build.page function is designed to help visualize how graphics are organized on a page, as well as execute the task. The graphics passed to this function can be created with the functions in this package or by the user. With the former, keep in mind that these are merely functions that facilitate the construction of ggplot objects.

In the simplest case a figure will consist of a single graphic.

Some figures call for augmenting a graphic with a table (e.g., forest plots, Kaplan-Meier curves). In these cases, the tables are built using either table.plot or nsubj.plot (or again, the user coded ggplot text table). In the case of Kaplan-Meier curves, it is standard practice to arrange the KM curve on top of a table reporting the Number at Risk. Other figures call for juxtaposing two figures. In these cases, the task is either to arrange 2 graphics in a 1 (row) x 2 (col) or a 2 x 1 grid. More generally, the task is to arrange a dashboard of graphics/tables on an nrow x ncol grid and place them on page with predefined margins.

Once the individual graphs/tables have been created for a figure, pre-processing may be required. E.g., there may be a need to align the y-axes when stacking graphics: if Graph A has the longest y-axis tick label, Graph B will need to be adjusted so graphics are aligned when arranging them on a 2 x 1 grid.

When the collection of graphs/tables have been pre-processed, they can be passed to the `build.page` function. This function requires the user to specify how the row widths and column heights should be specified as well as the order in which to populate the cells of the grid of graphics.

The defaults presume figures are being displayed on an 8.5 inch x 11 inch page, with landscape orientation and margins of 1.5 inches at the top and bottom and 1 inch margins at the left and right. These dimensions provide sufficient room for 2 lines of headers, 4 lines of footnotes and a effective central region for graphs and tables of size (8.5 - 3) inch x (11 - 2) inch. Generalizing from the defaults is straightforward. Trial and error will be required to fine tune aesthetic aspects.

The function `annotate.page` has been coded to optionally populate with blank entries (helpful when building graphics that don't require annotation and where margins are minimized), dummy entries (helpful in development phases) or entries coming from a `data.frame` called `outputplan` (helpful for mass figure production).

Author(s)

Greg Cicconetti

fmt

fmt

Description

A function to control number of digits used in graphics.

Usage

```
fmt(digits = 2)
```

Arguments

`digits` number of digits displayed

Details

This function is used within `ggplot`, e.g. (`scale_y_continuous(labels=fmt(digits=3))`) to control the number of digits presented. By default, axis labels will truncate zeros so that labels might read: 0, 2.5, 5, 7.5. Using this will result in labels: 0.0, 2.5, 5.0, 7.5.

Author(s)

Greg Cicconetti

forest.data

*This is a dataset structured for building figures using forest.plot***Description**

This is a dataset structured for building figures using forest.plot

Author(s)

Greg Cicconetti

forest.plot

*forest.plot***Description**

A function for creating harmonized forest.plots via ggplot2 offering compatiability with table.plot and dot.plot.

Usage

```
forest.plot(
  parent.df,
  y.rank.col = "rank",
  Point.Est = "hr",
  lower.lim = "low",
  upper.lim = "high",
  y.label.rank.col = "rank",
  y.label.col = "subcategory",
  x.label = "Estimate",
  y.label = "Item",
  log.trans = TRUE,
  x.limits = c(0.21, 5),
  x.ticks = 2^(-2:2),
  y.limits = NULL,
  category.color = "category",
  background.palette = c("red", "blue"),
  category.palette = c("red", "blue"),
  shape.palette = c(16, 16),
  flip.palette = FALSE
)
```

Arguments

<code>parent.df</code>	data.frame used by ggplot
<code>y.rank.col</code>	column holding ranks for line items in forest/dot/table plots
<code>Point.Est</code>	point estimate
<code>lower.lim</code>	column holding lower limit of CI
<code>upper.lim</code>	column holding upper limit of CI (forest.plot)
<code>y.label.rank.col</code>	column holding ranks for labels in forest/dot/table plots
<code>y.label.col</code>	column holding labels for forest/dot/table plots
<code>x.label</code>	value gets passed to labs
<code>y.label</code>	value gets passed to labs
<code>log.trans</code>	Logical; if TRUE log transformation is applied to x axis (ensure x.limits are positive!) (forest.plot)
<code>x.limits</code>	value gets passed to <code>scale_x_continuous</code>
<code>x.ticks</code>	value gets passed to <code>scale_x_continuous</code>
<code>y.limits</code>	passed to <code>scale_y_continuous</code>
<code>category.color</code>	data.frame column associated with aes color mapping (forest.plot, line.plot, nsubj.plot, table.plot)
<code>background.palette</code>	palette gets passed to <code>scale_fill_manual</code> (forest.plot)
<code>category.palette</code>	colors associated with categorical variable
<code>shape.palette</code>	values passed to <code>scale_shape_manual</code>
<code>flip.palette</code>	logical; if TRUE it reverse the order of colors used for background (forest.plot)

Value

A ggplot object is returned.

Author(s)

Greg Cicconetti

*gcurve**gcurve*

Description

A function to exploit base R's curve function. This returns a data.frame holding x and y values returned from a call to curve, but suppress the plotting of that function

Usage

```
gcurve(  
  expr,  
  from = NULL,  
  to = NULL,  
  n = 101,  
  add = FALSE,  
  type = "l",  
  xname = "x",  
  xlab = xname,  
  ylab = NULL,  
  log = NULL,  
  xlim = NULL,  
  category = NULL,  
  ...  
)
```

Arguments

expr	inherited from curve
from	inherited from curve
to	the range over which the function will be plotted.
n	inherited from curve
add	inherited from curve
type	inherited from curve
xname	inherited from curve
xlab	inherited from curve
ylab	inherited from curve
log	inherited from curve
xlim	inherited from curve
category	option to add a column populated with a factor (by gcurve)
...	inherited from curve

Value

A data.frame is returned. Columns include x, y, and optionally category.

Author(s)

Greg Cicconetti

See Also

graphics::curve

Examples

```
{
  require(ggplot2)
  curve(dnorm(x, mean=0, sd=1), from=-4, to = 4, n= 1001)
  ggplot(gcurve(expr = dnorm(x, mean=0, sd=1),from=-4, to = 4, n= 1001,
    category= "Standard Normal"), aes(x=x, y=y)) + geom_line()
}
```

get.top.xaxis

get.top.xaxis

Description

This takes two ggplot objects, steals the bottom x-axis from 2nd object and returns a gtable object with that bottom x-axis per object 1 and top x-axis per object 2

Usage

```
get.top.xaxis(bottom.axis.version, top.axis.version)
```

Arguments

```
bottom.axis.version
```

```
ggplot object with bottom x-axis (get.top.xaxis)
```

```
top.axis.version
```

```
ggplot object with intended top x-axis in bottom position (get.top.xaxis)
```

Value

This function returns a ggplot object.

Author(s)

Greg Cicconetti

graphic.params	<i>Standard graphics names</i>
----------------	--------------------------------

Description

This is a dummy function whose purpose is to serve as repository for arguments used by `figuRes2` functions.

Usage

```
graphic.params(  
  add.fignum,  
  addBars,  
  addTime,  
  at.risk.palette,  
  background.palette,  
  bar.position,  
  bar.width,  
  base_family,  
  base_size,  
  bottom.axis.version,  
  bottom.margin,  
  category,  
  category.color,  
  category.col,  
  category.label,  
  category.symbol.col,  
  category.palette,  
  cd,  
  censor.col,  
  centime.col,  
  dd,  
  envir,  
  fignum,  
  fignum.buffer,  
  filename,  
  flip.palette,  
  fnote,  
  fnote.buffer,  
  foot.size,  
  fromthetop,  
  gg.list,  
  head.size,  
  header.buffer,  
  interior,  
  interior.h,  
  interior.w,
```

```
killMissing,  
left.margin,  
linetype.col,  
line.size,  
linetype.palette,  
loadplan,  
logd,  
log.trans,  
lower.lim,  
main.theme,  
my.path,  
ncol,  
nrow,  
nsubj.plot.label,  
od,  
outfile,  
override,  
page.height,  
page.width,  
parent.df,  
pdval,  
Point.Est,  
pos,  
reportNR,  
response.col,  
right.margin,  
shape.label,  
shape.palette,  
source.code,  
text.buffer,  
test.dim,  
text.col,  
text.col1,  
text.col2,  
text.col3,  
text.col4,  
text.size,  
title,  
title.buffer,  
title.size,  
toBMP,  
toEPS,  
toJPEG,  
top.axis.version,  
top.margin,  
toPDF,  
toPNG,  
toWMF,
```

```

    ulh,
    upper.lim,
    urh,
    UseSubset,
    x.col,
    x.label,
    x.limits,
    x.ticks,
    x.ticks.labels,
    y.col,
    y.digits,
    y.label,
    y.label.col,
    y.label.rank.col,
    y.limits,
    y.rank.col,
    y.ticks,
    ymax.col,
    ymin.col
  )

```

Arguments

add.fignum	logical (annotate.page)
addBars	logical to add error bars (line.plot)
addTime	logical for adding time stamp (annotate.page)
at.risk.palette	colors to be associated with categorical variable in accompanying km.plot generated at.risk table
background.palette	palette gets passed to scale_fill_manual (forest.plot)
bar.position	passed to geom_bar (bar.plot)
bar.width	used by line.plot
base_family	used in set_theme calls
base_size	used in set_theme calls
bottom.axis.version	ggplot object with bottom x-axis (get.top.xaxis)
bottom.margin	used by build.page and annotate.page
category	option to add a column populated with a factor (by gcurve)
category.color	data.frame column associated with aes color mapping (forest.plot, line.plot, nsubj.plot, table.plot)
category.col	data.frame column associated with categorical variable (bar.plot, box.plot, cdf.plot, dot.plot, km.plot)
category.label	passed to x-axis label

<code>category.symbol.col</code>	used by <code>line.plot</code>
<code>category.palette</code>	colors associated with categorical variable
<code>cd</code>	directory where driver (code) files are stored
<code>sensor.col</code>	name of parent.df column associated with censor variable
<code>centime.col</code>	name of parent.df column associated with censored time
<code>dd</code>	directory where data is stored
<code>envir</code>	used internally by some functions
<code>fignum</code>	figure number (<code>annotate.page</code>)
<code>fignum.buffer</code>	fine-control of vertical position (<code>annotate.page</code>)
<code>filename</code>	<code>common_root.pdf</code> or <code>common_root.csv</code>
<code>flip.palette</code>	logical; if TRUE it reverse the order of colors used for background (<code>forest.plot</code>)
<code>fnote</code>	vector of 5 footnotes. 5th row is traditionally reserved for filepath, table reference and time stamp. Populate from bottom up. (<code>annotate.page</code>)
<code>fnote.buffer</code>	fine-control of vertical position (<code>annotate.page</code>)
<code>foot.size</code>	default: 10; passed to <code>grid.text</code> via <code>gp</code> (<code>annotate.page</code>)
<code>fromthetop</code>	logical. If TRUE KM curve decends from 1, if FALSE KM curve ascends from 0 Ensure you have an appropriate <code>sensor.col</code> passed above!
<code>gg.list</code>	a list of ggplot objects (<code>sync.ylab.widths</code>)
<code>head.size</code>	default: 10 (<code>anotate.page</code>)
<code>header.buffer</code>	fine-control of vertical position (<code>anotate.page</code>)
<code>interior</code>	a list of <code>nrow*ncol</code> grobs/ggplot objects to be displayed in the grid, ordered by row then col (<code>build.page</code>)
<code>interior.h</code>	a vector summing to 1 to indicate how to partition the heights (<code>build.page</code>)
<code>interior.w</code>	a vector summing to 1 to indicate how to partition the widths (<code>build.page</code>)
<code>killMissing</code>	logical used by <code>bar.plot</code>
<code>left.margin</code>	used by <code>build.page</code> and <code>annotate.page</code> ; presumed to be inches
<code>linetype.col</code>	name of parent.df column associated with <code>linetype</code>
<code>line.size</code>	value gets passed to <code>size</code> within <code>geom_line</code> , <code>geom_step</code>
<code>linetype.palette</code>	values passed to <code>scale_linetype_manual</code>
<code>loadplan</code>	logical; if TRUE then it loads from the filename
<code>logd</code>	directory where log files are sent
<code>log.trans</code>	Logical; if TRUE log transformation is applied to x axis (ensure <code>x.limits</code> are positive!) (<code>forest.plot</code>)
<code>lower.lim</code>	column holding lower limit of CI
<code>main.theme</code>	text string name of theme to be called by <code>theme_set</code> ,
<code>my.path</code>	path to main directory,

ncol	number of columns for the grid of graphics being built by build.page
nrow	number of rows for the grid of graphics being built by build.page
nsubj.plot.label	used in km.plot
od	directory where output files are sent
outfile	If (toPDF== TRUE & outfile == "") a .pdf file with root name taken from outputplan\$outfile[which(outputplan\$rcode ==source.code)]. Otherwise a .pdf will be created the value of outfile. The pdf is stored in mypath/od defined in setpaths.r.
override	override
page.height	used by build.page and annotate.page; presumed to be inches
page.width	used by build.page and annotate.page; presumed to be inches
parent.df	data.frame used by ggplot
pdval	value passed to position_dodge (lineplot)
Point.Est	point estimate
pos	used internally by some functions
reportNR	If TRUE, a plot with missing figure numbers and titles is produced
response.col	used by cdf.plottttt
right.margin	used by build.page and annotate.page; presumed to be inches
shape.label	value sets passed to labs
shape.palette	values passed to scale_shape_manual
source.code	This is intended to be a darapladib graphics driver file returning a graphic possibly with complete headers and footers.
text.buffer	used by bar.plot to control text placement
test.dim	logical. Assists with figure development. If TRUE it makes a call to grid.show.layout.
text.col	used by nsubj.plot
text.col1	name of column holding text for column 1 (table.plot)
text.col2	name of column holding text for column 2; can be NULL (table.plot)
text.col3	name of column holding text for column 3; can be NULL (table.plot)
text.col4	name of column holding text for column 4; can be NULL (table.plot)
text.size	value gets passed to geom_text
title	vector of title lines (annotate.page)
title.buffer	fine-control of vertical position (annotate.page)
title.size	default: 14; passed to grid.text via gp (annotate.page)
toBMP	Logical. If TRUE a .bmp file will be created. (run.specific)
toEPS	Logical. If TRUE a .eps file will be created. (run.specific)
toJPEG	Logical. If TRUE a .jpeg file will be created. (run.specific)
top.axis.version	ggplot object with intended top x-axis in bottom position (get.top.xaxis)

top.margin	used by build.page and annotate.page; presumed to be inches
toPDF	Logical. If TRUE a .pdf file will be created. If FALSE graphic is sent to screen. (run.specific)
toPNG	Logical. If TRUE a .png file will be created. (run.specific)
toWMF	Logical. If TRUE a .wmf file will be created. (run.specific)
ulh	vector for upper left headers (annotate.page)
upper.lim	column holding upper limit of CI (forest.plot)
urh	vector for upper right headers (annotate.page)
UseSubset	Corresponds to a column name in outputplan holding flags (all_in_one)
x.col	parent.df column associated with response variable (line.plot, nsubj.plot)
x.label	value gets passed to labs
x.limits	value gets passed to scale_x_continuous
x.ticks	value gets passed to scale_x_continuous
x.ticks.labels	passed to scale_x_continuous
y.col	parent.df column associated with response variable
y.digits	passed to scale_y_continuous label's, fmt (box.plot, line.plot)
y.label	value gets passed to labs
y.label.col	column holding labels for forest/dot/table plots
y.label.rank.col	column holding ranks for labels in forest/dot/table plots
y.limits	passed to scale_y_continuous
y.rank.col	column holding ranks for line items in forest/dot/table plots
y.ticks	passed to scale_y_continuous
ymin.col	name of parent.df column associated with ymax (line.plot errorbars)
ymax.col	name of parent.df column associated with ymin (line.plot errorbars)

Value

This function is just a convenient location to store argument names.

Author(s)

Greg Cicconetti

km.data

This is a dataset structured for building figures using km.plot

Description

This is a dataset structured for building figures using km.plot

Author(s)

Greg Cicconetti

km.plot

*km.plot***Description**

A function for creating harmonized Kaplan-Meier plots and accompanying At Risk table.

Usage

```
km.plot(
  parent.df,
  censor.col = "CENSOR",
  centime.col = "CENTIME.DAY",
  category.col = "REGION",
  category.palette = rainbow(5),
  at.risk.palette = rainbow(5),
  category.label = "Treatment Group",
  nsubj.plot.label = "Number at Risk",
  linetype.palette = 1:6,
  x.label = "Time Since Randomization",
  y.label = "Percentage of Subjects",
  x.limits = c(0, 48),
  x.ticks = seq(0, 48, 3),
  y.ticks = seq(0, 0.01, 0.005),
  y.limits = c(0, 0.01),
  line.size = 0.75,
  fromthetop = FALSE,
  text.size = 4
)
```

Arguments

parent.df	data.frame used by ggplot
censor.col	name of parent.df column associated with censor variable
centime.col	name of parent.df column associated with censored time
category.col	data.frame column associated with categorical variable (bar.plot, box.plot, cdf.plot, dot.plot, km.plot)
category.palette	colors associated with categorical variable
at.risk.palette	colors to be associated with categorical variable in accompanying km.plot generated at.risk table
category.label	passed to x-axis label
nsubj.plot.label	used in km.plot

linetype.palette	values passed to scale_linetype_manual
x.label	value gets passed to labs
y.label	value gets passed to labs
x.limits	value gets passed to scale_x_continuous
x.ticks	value gets passed to scale_x_continuous
y.ticks	passed to scale_y_continuous
y.limits	passed to scale_y_continuous
line.size	value gets passed to size within geom_line, geom_step
fromthetop	logical. If TRUE KM curve decends from 1, if FALSE KM curve ascends from 0 Ensure you have an appropriate censor.col passed above!
text.size	value gets passed to geom_text

Value

A ggplot object is returned.

Author(s)

Greg Cicconetti

See Also

sync.ylab.widths, nsubj.plot

Examples

```
{
require(ggplot2); require(gridExtra)
data(km.data)
working.df <- km.data
head(working.df)
km.M <- km.plot(parent.df = subset(working.df, SEX== "M"),
  centime.col = "CENTIME.DAY",
  category.col = "TRTGRP",
  category.palette = c("red", "blue"),
  at.risk.palette = c("red", "blue"),
  linetype.palette = c("solid", "dotted"),
  y.limits=c(0,.01),
  y.ticks=seq(0,.01,.005),
  x.limits=c(-3,48),
  x.ticks=seq(0,48,6))
print(km.M[[1]])
print(km.M[[2]])
grid.arrange(km.M[[1]] + theme(legend.position= "bottom"), km.M[[2]], ncol=1)
comeback <- sync.ylab.widths(list(km.M[[1]]+ theme(legend.position= "bottom"), km.M[[2]]))
grid.arrange(comeback[[1]] , comeback[[2]], ncol=1)
build.page(interior.h = c(.8, .2),
  interior.w = c(1),
```

```

      ncol=1, nrow=2,
      interior = list(comeback[[1]],
                     comeback[[2]]))
    }

```

line.plot

line.plot

Description

A function for creating harmonized line plots with optional errorbars.

Usage

```

line.plot(
  parent.df,
  category.palette = c("red", "blue"),
  linetype.palette = c("dotted", "blank", "solid", "blank"),
  line.size = 0.75,
  shape.palette = c(24, 21),
  x.label = "Visit",
  y.label = "Response",
  category.label = "Treatment Group",
  x.limits = NULL,
  x.ticks = NULL,
  x.ticks.labels = NULL,
  addBars = TRUE,
  bar.width = 1,
  pdval = 0.25,
  x.col = "XVALUES",
  y.col = "YVALUES",
  y.limits = NULL,
  y.ticks = NULL,
  category.color = "CATEGORY.COLOR",
  category.symbol.col = "CATEGORY.SYMBOL",
  y.digits = 0,
  ymin.col = "YMIN",
  ymax.col = "YMAX",
  linetype.col = "LTYPE"
)

```

Arguments

parent.df	data.frame used by ggplot
category.palette	colors assoicated with categorical variable

<code>linetype.palette</code>	values passed to <code>scale_linetype_manual</code>
<code>line.size</code>	value gets passed to <code>size</code> within <code>geom_line</code> , <code>geom_step</code>
<code>shape.palette</code>	values passed to <code>scale_shape_manual</code>
<code>x.label</code>	value gets passed to <code>labs</code>
<code>y.label</code>	value gets passed to <code>labs</code>
<code>category.label</code>	passed to x-axis label
<code>x.limits</code>	value gets passed to <code>scale_x_continuous</code>
<code>x.ticks</code>	value gets passed to <code>scale_x_continuous</code>
<code>x.ticks.labels</code>	passed to <code>scale_x_continuous</code>
<code>addBars</code>	logical to add error bars (<code>line.plot</code>)
<code>bar.width</code>	used by <code>line.plot</code>
<code>pdval</code>	value passed to <code>position_dodge</code> (<code>lineplot</code>)
<code>x.col</code>	parent.df column associated with response variable (<code>line.plot</code> , <code>nsubj.plot</code>)
<code>y.col</code>	parent.df column associated with response variable
<code>y.limits</code>	passed to <code>scale_y_continuous</code>
<code>y.ticks</code>	passed to <code>scale_y_continuous</code>
<code>category.color</code>	data.frame column associated with aes color mapping (<code>forest.plot</code> , <code>line.plot</code> , <code>nsubj.plot</code> , <code>table.plot</code>)
<code>category.symbol.col</code>	used by <code>line.plot</code>
<code>y.digits</code>	passed to <code>scale_y_continuous</code> label's, <code>fmt</code> (<code>box.plot</code> , <code>line.plot</code>)
<code>ymin.col</code>	name of parent.df column associated with <code>ymin</code> (<code>line.plot</code> errorbars)
<code>ymax.col</code>	name of parent.df column associated with <code>ymax</code> (<code>line.plot</code> errorbars)
<code>linetype.col</code>	name of parent.df column associated with <code>linetype</code>

Value

A ggplot object is returned.

Author(s)

Greg Cicconetti/David Wade

lineplot.data	<i>lineplot.data</i>
---------------	----------------------

Description

lineplot.data

Usage

```
data("lineplot.data")
```

Format

A data frame with 190 observations on the following 17 variables.

Analysis.Visit..N. a numeric vector

Analysis.Visit a factor with levels BASELINE DAY 1 SCREEN WEEK -2 SCREEN WEEK -4 WEEK 10
WEEK 12 WEEK 14 WEEK 16 WEEK 18 WEEK 2 WEEK 20 WEEK 21 WEEK 22 WEEK 23 WEEK 24 WEEK
28 FOLLOW-UP WEEK 4 WEEK 6 WEEK 8

tt_segorder a numeric vector

X. a factor with levels Analysis Value

Order.of.Statistical.List a numeric vector

X..1 a factor with levels 25th Percentile 75th Percentile LCLM Max. Mean Median Min. n SD
UCLM

Summary.Level.Variable.Added.by.TU_STATSWITHTOTAL a numeric vector

NAME.OF.FORMER.VARIABLE a factor with levels TT_RESULT

LABEL.OF.FORMER.VARIABLE a factor with levels Result - formatted

Not.Assigned..N.3. a numeric vector

Control..N.10. a numeric vector

X4.mg..N.11. a numeric vector

X6.mg..N.16. a numeric vector

X8.mg..N.8. a numeric vector

X10.mg..N.11. a numeric vector

X12.mg..N.6. a numeric vector

X.N.1. a numeric vector

Details

No details.

Examples

```
data(lineplot.data)
## maybe str(lineplot.data) ; plot(lineplot.data) ...
```

nsubj.plot

*nsubj.plot***Description**

A function to create tables to accompany KMs and lineplots

Usage

```
nsubj.plot(
  parent.df,
  category.palette = c("red", "blue"),
  x.label = "Number of Subjects",
  y.label = "Treatment\nGroup",
  text.size = 4,
  x.col = "XVALUES",
  text.col = "N",
  category.color = "CATEGORY",
  x.limits = c(0.5, 18),
  x.ticks = unique(parent.df$XVALUES),
  x.ticks.labels = unique(parent.df$XVALUES)
)
```

Arguments

parent.df	data.frame used by ggplot
category.palette	colors assoicated with categorical variable
x.label	value gets passed to labs
y.label	value gets passed to labs
text.size	value gets passed to geom_text
x.col	parent.df column associated with response vairable (line.plot, nsubj.plot)
text.col	used by nsubj.plot
category.color	data.frame column associated with aes color mapping (forest.plot, line.plot, nsubj.plot, table.plot)
x.limits	value gets passed to scale_x_continuous
x.ticks	value gets passed to scale_x_continuous
x.ticks.labels	passed to scale_x_continuous

Value

A ggplot object is returned.

Author(s)

Greg Cicconetti/David Wade

outputplan	<i>This is a dataset structured to facilitate mass figure production</i>
------------	--

Description

This is a dataset structured to facilitate mass figure production

Author(s)

Greg Cicconetti

raw.lineplot.data	<i>This is a dataset that would need some pre-processing ahead of using line.plot</i>
-------------------	---

Description

This is a dataset that would need some pre-processing ahead of using line.plot

Author(s)

Greg Cicconetti

refresh.outputplan	<i>Refresh the Output Plan</i>
--------------------	--------------------------------

Description

Reloads outputplan_study.csv file and applies canonical formatting changes.

Usage

```
refresh.outputplan(
  loadplan = TRUE,
  filename = "outputplan.csv",
  pos = 1,
  envir = as.environment(pos)
)
```

Arguments

loadplan	logical; if TRUE then it loads from the filename
filename	common_root.pdf or common_root.csv
pos	used internally by some functions
envir	used internally by some functions

Details

Ensure all columns are read in as character vectors. Ensure all missing entries are replaced with blank character string. Ensure all escape characters for carriage returns are respected. Grabs the 'modified time' from file attributes associated with .csv files named in the outputplan.

Value

This function returns a data.frame.

Author(s)

Greg Cicconetti

run.specific	<i>run.specific</i>
--------------	---------------------

Description

This function sources a .r driver file and sends its product to a newly opened 8.5in x 11in screen or a pdf file with 8.5in x 11in dimensions.

Usage

```
run.specific(  
  source.code = "g_AErr2.r",  
  outfile = "",  
  toPDF = FALSE,  
  toWMF = FALSE,  
  toJPEG = FALSE,  
  toPNG = FALSE,  
  toBMP = FALSE,  
  toEPS = FALSE,  
  dpires = 600,  
  use.log = FALSE  
)
```

Arguments

source.code	This is intended to be a darapladib graphics driver file returning a graphic possibly with complete headers and footers.
outfile	If (toPDF== TRUE & outfile == "") a .pdf file with root name taken from outputplan\$outfile[which(outputplan\$rcode ==source.code)]. Otherwise a .pdf will be created the value of outfile. The pdf is stored in mypath/od defined in setpaths.r.
toPDF	Logical. If TRUE a .pdf file will be created. If FALSE graphic is sent to screen. (run.specific)
toWMF	Logical. If TRUE a .wmf file will be created. (run.specific)

toJPEG	Logical. If TRUE a .jpeg file will be created. (run.specific)
toPNG	Logical. If TRUE a .png file will be created. (run.specific)
toBMP	Logical. If TRUE a .bmp file will be created. (run.specific)
toEPS	Logical. If TRUE a .eps file will be created. (run.specific)
dpires	passed to devices
use.log	logical to write a log file

Value

This function passes output to a device, be it the computer screen or to file.

Author(s)

David wade

start_session_log	<i>start_session_log</i>
-------------------	--------------------------

Description

A function to start logging the session history for a graphic driver run

Usage

```
start_session_log(
  x,
  outputfile = "example.PDF",
  pos = 1,
  envir = as.environment(pos),
  ...
)
```

Arguments

x	used internally
outputfile	passed to name the session history log file
pos	used internally by some functions
envir	used internally by some functions
...	additional params

Details

Note that the stop_session_log function is used to stop the logging and save the log file.

Value

This function works in conjunction with stop_session_log to create a log file.

Value

No objects are returned by this function.

Author(s)

David Wade

stop_session_log	<i>stop_session_log</i>
------------------	-------------------------

Description

A function to stop logging the session history for a graphic driver run and save the session history file

Usage

```
stop_session_log()
```

Details

Note that the start_session_log function is used to start the logging, and it must be called first.

Value

This function works in conjunction with start_session_log to create a log file.

Value

No objects are returned by this function.

Author(s)

David Wade

summary.lineplot.data	<i>This is a dataset that would need some pre-processing ahead of using line.plot</i>
-----------------------	---

Description

This is a dataset that would need some pre-processing ahead of using line.plot

Author(s)

Greg Cicconetti

sync.ylab.widths	<i>sync.ylab.widths</i>
------------------	-------------------------

Description

Aligns the widths of ggplot objects to ensure common plot regions. The maximum length required for y-axis labels among the list is determined and applied to the other plots. This assists in syncing the widths of ggplot objects for the purpose of align figures on a page.

Usage

```
sync.ylab.widths(gg.list, default.length = 2)
```

Arguments

`gg.list` a list of ggplot objects (sync.ylab.widths)
`default.length` set to 2

Value

A ggplot object is returned.

Author(s)

Greg Cicconetti

table.plot	<i>table.plot</i>
------------	-------------------

Description

A function for creating harmonized table plots with A function for plotting columns of text in a figure offering compatiability with forest.plot and dot.plot.

Usage

```
table.plot(
  parent.df,
  y.rank.col = "Subcategory",
  category.color = "Treatment",
  text.col1 = "Point_Est",
  text.col2 = NULL,
  text.col3 = NULL,
  text.col4 = NULL,
  text.size = 12,
  xtick.labs = c("", "", ""),
  x.limits = NULL,
  y.limits = NULL,
  x.label = "Text",
  y.label = "Item",
  y.label.rank.col = "rank",
  y.label.col = "subcategory",
  category.palette = c("red", "blue")
)
```

Arguments

parent.df	data.frame used by ggplot
y.rank.col	column holding ranks for line items in forest/dot/table plots
category.color	data.frame column associated with aes color mapping (forest.plot, line.plot, nsubj.plot, table.plot)
text.col1	name of column holding text for column 1 (table.plot)
text.col2	name of column holding text for column 2; can be NULL (table.plot)
text.col3	name of column holding text for column 3; can be NULL (table.plot)
text.col4	name of column holding text for column 4; can be NULL (table.plot)
text.size	value gets passed to geom_text
xtick.labs	xtick labels
x.limits	value gets passed to scale_x_continuous
y.limits	passed to scale_y_continuous
x.label	value gets passed to labs

y.label	value gets passed to labs
y.label.rank.col	column holding ranks for labels in forest/dot/table plots
y.label.col	column holding labels for forest/dot/table plots
category.palette	colors assoicated with categorical variable

Value

A ggplot object is returned.

Author(s)

Greg Cicconetti

theme_grey2_nomargins *figuRes2 themes*

Description

Adapts theme_grey() found in ggplot2

Usage

```
theme_grey2_nomargins(base_size = 12, base_family = "")
theme_grey2_default_margins(base_size = 12, base_family = "")
theme_bw2_nomargins(base_size = 12, base_family = "")
theme_bw2_default_margins(base_size = 12, base_family = "")
theme_table_nomargins(base_size = 12, base_family = "")
```

Arguments

base_size	used in set_theme calls
base_family	used in set_theme calls

Details

axis.text colour changed from "grey50" to "black"; legend.position changed from "right" to "bottom"; legend.direction changed to "horizontal"; plot.margin changed from default unit(c(1, 1, 0.5, 0.5), "lines") to unit(c(0, 0, 0, 0), "in")

Value

The returns a function that can be passed to ggplot2::theme_set

Functions

- `theme_grey2_default_margins()`: Same as `theme_grey2_nomargins` but with margins set to ggplot defaults, `unit(c(1, 1, 0.5, 0.5), "lines")`
- `theme_bw2_nomargins()`: Similar to `theme_grey2`
- `theme_bw2_default_margins()`: Similar to `theme_bw_nomargins` but with margins set to ggplot defaults, `unit(c(1, 1, 0.5, 0.5), "lines")`
- `theme_table_nomargins()`: alteration to `theme_grey`

Author(s)

Greg Cicconetti

Examples

```
{  
  ggplot2::theme_set(theme_grey2_nomargins())  
}
```

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