Package 'gg.gap'

October 13, 2022

Type Package

Title Define Segments in y-Axis for 'ggplot2'

Version 1.3

Description It is not very easy to define segments for y-
axis in a 'ggplot2' plot. gg.gap() function in this package can carry it out.

Imports ggplot2, cowplot, grid

License GPL-3

Encoding UTF-8

LazyData true

RoxygenNote 6.1.1

URL https://github.com/ChrisLou-bioinfo/gg.gap

BugReports https://github.com/ChrisLou-bioinfo/gg.gap/issues

NeedsCompilation no

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R topics documented:

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add.legend   *Add Legend to gg.gap()*

Description

Add legend to gg.gap().

Usage

```
add.legend(plot, margin = c(top = 200, right = 200, bottom = 200, left =
  200))
```

Arguments

plot   A 'ggplot2' plot.

margin   Margins around the text.

Value

A legend-added picture

Examples

```
library(ggplot2)
mtcars$gear <- factor(mtcars$gear)
bp <- ggplot(data = mtcars, aes(x = gear, fill = gear)) +
    geom_bar() +
    ggtitle("Number of Cars by Gear") +
    xlab("Gears")
gg.gap(plot = bp,
       ylim = c(0,16),
       segments = c(6,8))
add.legend(plot = bp,
           margin = c(top=1,right=1,bottom=1,left=460))
```

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gg.gap   *Define Segments in y-Axis for 'ggplot2'*

Description

Easy to define segments in y-axis for 'ggplot2'.

Usage

```
gg.gap(plot, ylim, segments, tick_width, rel_heights, vjust = 0,
  margin = c(top = 1, right = 2, bottom = 1, left = 1), ...)
```

Arguments

`plot`	A 'ggplot2' plot.
`ylim`	The y-axis limits.
`segments`	The interval of a segment. If more than one intervals are given, please use list() to concatenate them.
`tick_width`	One or more numbers for each segmented y-axis.
`rel_heights`	Numerical vector of relative segmented y-axis and segments heights, default is 1 and 0.
`vjust`	Vertical justification. Default = 0 (baseline at y).
`margin`	Margins around the text.
`...`	Arguments will be handed to plot_grid() in 'cowplot'.

Value

A segmented picture.

Examples

```
data(mtcars)
library(ggplot2)
p<-ggplot(data = mtcars, aes(x = gear, fill = gear)) +
    geom_bar() +
    ggtitle("Number of Cars by Gear") +
    xlab("Gears")

#single segments and missing tick_width
gg.gap(plot=p,
       segments=c(5,10),
       ylim=c(0,50))
#tick_width can be one or more numbers
gg.gap(plot=p,
       segments=c(5,10),
       tick_width = c(1,10),
       ylim=c(0,50))
#segments list cantains more than one number vectors
gg.gap(plot=p,
       segments=list(c(2.5,4),c(5,10)),
       tick_width = c(1,0.5,10),
       ylim=c(0,50))
#rel_heights can set the relative height for segments and segmented y-axis
gg.gap(plot=p,
       segments=list(c(2.5,4),c(5,10)),
       tick_width = c(1,0.5,10),
       rel_heights=c(0.2,0,0.2,0,1),
       ylim=c(0,50))
#reversed y-axis
p<-ggplot(data = mtcars, aes(x = gear, fill = gear)) +
    geom_bar() +
    ggtitle("Number of Cars by Gear") +
```

```
    xlab("Gears")+
    scale_y_continuous(trans = 'reverse')
#single segments and missing tick_width
gg.gap(plot=p,
       segments=c(10,5),
       ylim=c(15,0))
```

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