Package ‘gg.gap’

September 30, 2019

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
Author Jiacheng Lou [aut, cre],
  Jing Zhang [aut],
  Yizhu Lvy [aut],
  Zhi Jin [aut]
Maintainer Jiacheng Lou <loujiacheng1986@foxmail.com>
Repository CRAN
Date/Publication 2019-09-30 16:10:02 UTC

R topics documented:

 add.legend .................................................. 2
 gg.gap ................................................... 2

Index 5
Description

Add legend to gg.gap().

Usage

\texttt{add.legend(plot, margin = c(top = 200, right = 200, bottom = 200, left = 200))}

Arguments

- \texttt{plot} A 'ggplot2' plot.
- \texttt{margin} Margins around the text.

Value

A legend-added picture

Examples

\begin{verbatim}
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))
\end{verbatim}

---

\textbf{gg.gap} \textit{Define Segments in y-Axis for 'ggplot2'}

Description

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

Usage

\texttt{gg.gap(plot, ylim, segments, tick_width, rel_heights, vjust = 0,}
\texttt{ 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") +
Index

add.legend, 2

gg.gap, 2