Package ‘gggap’

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Type Package
Title Streamlined Creation of Segments on the Y-Axis of ‘ggplot2’ Plots
Version 1.0.1
Description The function gggap() streamlines the creation of segments on the y-axis of ‘ggplot2’ plots which is otherwise not a trivial task to accomplish.
Imports ggplot2, cowplot, grid
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Define Segments in y-Axis for 'ggplot2'

Description

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

Usage

```r
gggap(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

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

# single segments and missing tick_width
    gggap(
        plot = p,
        segments = c(5, 10),
        ylim = c(0, 50)
    )

# tick_width can be one or more numbers
```
```
```

### Description

Add a legend to a `ggplot2` plot modified by `gggap()`.

### Usage

```
gggap_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

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