

# Package ‘gg.gap’

July 22, 2025

**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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**Date/Publication** 2019-09-30 16:10:02 UTC

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add.legend	<i>Add Legend to gg.gap()</i>
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**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	<i>Define Segments in y-Axis for 'ggplot2'</i>
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**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 contains 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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