

Package ‘pBrackets’

May 9, 2026

Version 1.0.1

Date 2021-05-17

Title Plot Brackets

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Depends R (>= 4.0.0)

Imports grid, stats, graphics

Suggests knitr, rmarkdown

Description Adds different kinds of brackets to a plot, including braces, chevrons, parentheses or square brackets.

VignetteBuilder knitr

License GPL (>= 3.0)

NeedsCompilation no

Repository CRAN

Date/Publication 2021-05-18 16:50:05 UTC

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pBrackets-package *Plot Brackets*

Description

Adds different kinds of brackets to a plot, including braces, chevrons, parentheses or square brackets.

Details

Package: pBrackets
Type: Package
Version: 1.1
Date: 2021-05-17
License: GPL version 2 or newer

Author(s)

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brackets *Add brackets to a plot.*

Description

Draw different kinds of brackets between pairs of points.

Usage

```
brackets(x1, y1, x2, y2, h = NULL, ticks = 0.5, curvature = 0.5, type = 1,  
col = 1, lwd = 1, lty = 1, xpd = FALSE)
```

Arguments

x1, y1 coordinates of points from which to draw.
x2, y2 coordinates of points to which to draw.
h brackets height (with ticks), given in euclidean distance. For horizontal brackets it is the height in y-units, for vertical brackets it is the width in x-units. Generally it is the euclidean distance: $\sqrt{x^2+y^2}$.

ticks	A single value or a vector of values in (0, 1), gives the relative position of the ticks on the bracket. Use NA or NULL to make a bracket without ticks. Negative values resulting in ticks inside of brackets. Values 0 or 1, flip the starting or end edges of the brackets.
curvature	A value in [0, 1], gives the amount of space on the bracket that is used for the curve, it is getting automatically smaller if many ticks are specified or the tick is near the edge.
type	A value in: 1 to 5 for different brackets forms, see example. <ul style="list-style-type: none"> • 1: braces • 2: braces 2 • 3: stump brackets • 4: square brackets • 5: parentheses
col	color code or name of color.
lwd	line width
lty	line type
xpd	A logical value. If FALSE, all plotting is clipped to the plot region, if TRUE, all plotting is clipped to the figure region.

Examples

```

par(mar=c(1,1,1,1))
plot(0,0, type='n', xlim=c(0,20), ylim=c(0,20), axes=FALSE, xlab='', ylab='')
abline(h=seq(0,20), v=seq(0, 7), col=rgb(0.8, 0.9, 0.95))

brackets(0, 18, 7, 20, lwd=2)
text(8, 20, labels=expression(paste(bold('Braces:'), ' default')), adj=c(0,0))

brackets(0, 16, 7, 18, lwd=2, curvatur=1, type=2)
text(8, 18, labels=expression(paste(bold('Braces 2:'), ' curvatur=1, type=2')), adj=c(0,0))

brackets(0, 14, 7, 16, lwd=2, ticks=NA, curvatur=1, type=5)
text(8, 16, labels=expression(paste(bold('Parentheses:'), ' ticks=NA, curvature=1, type=5')),
  adj=c(0,0))

brackets(0, 12, 7, 14, lwd=2, ticks=NA, type=4, h=0.5)
text(8, 14, labels=expression(paste(bold('Square brackets:'), ' ticks=NA, type=4')), adj=c(0,0))

brackets(0, 10, 7, 12, lwd=2, ticks=NA, curvature=1, type=3)
text(8, 12, labels=expression(paste(bold('Chevrons:'), ' ticks=NA, curvature=1, type=3')),
  adj=c(0,0))

brackets(0, 8, 7, 10, lwd=2, ticks=NA, type=3, curvature=0.2, h=0.75)
text(8, 10, labels=expression(paste(bold('Stump brackets:'), ' ticks=NA, curvature=0.2, type=3')),
  adj=c(0,0))

brackets(0, 6, 7, 8, lwd=2, type=4)
text(8, 8, labels=expression(paste(bold('Square brackets with tick:'), ' type=4')), adj=c(0,0))

```

```
brackets(0, 4, 7, 6, lwd=2, ticks=c(0.25, 0.75))
text(8, 6, labels=expression(paste(bold('Double tick braces:'), ' ticks=c(0.25, 0.75)')),
adj=c(0,0))

brackets(0, 2, 7, 4, lwd=2, ticks=-0.5, h=0.5)
text(8, 4, labels=expression(paste(bold('Negative tick braces:'), ' ticks=-0.5')), adj=c(0,0))

brackets(0, 0, 7, 2, lwd=2, ticks=c(-0.2, -0.4, -0.6, -0.8, 1), type=4)
text(8,2,labels=expression(paste(bold('Multiples ticks:'),'ticks=c(-0.2,-0.4,-0.6,-0.8,1),type=4')),
adj=c(0,0))
```

grid.brackets	<i>Add brackets to a grid pannel.</i>
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Description

Draw brackets between pairs of points. (grid)

Usage

```
grid.brackets(x1, y1, x2, y2, h = NULL, ticks = 0.5, curvature = 0.5,
type = 1, col = 1, lwd = 1, lty = "solid")
```

Arguments

x1, y1	coordinates of points from which to draw.
x2, y2	coordinates of points to which to draw.
h	brackets height (with ticks), given in npc units.
ticks	A single value or a vector of values in (0, 1), gives the relative position of the ticks on the bracket. Use NA or NULL to make a bracket without ticks. Negative values resulting in ticks inside of brackets. Values 0 or 1, flip the starting or end edges of the brackets.
curvature	A value in [0, 1], gives the amount of space on the bracket that is used for the curve, it is getting automatically smaller if many ticks are specified or the tick is near the edge.
type	A value in: 1 to 5 for different brackets forms, see example. <ul style="list-style-type: none"> • 1: braces • 2: braces 2 • 3: stump brackets • 4: square brackets • 5: parentheses
col	color code or name of color.
lwd	line width
lty	line type

Note

To plot brackets outside of plotting region use `trellis.focus("panel", 1, 1, clip.off=TRUE)`

Examples

```
library(grid)
grid.newpage()
pushViewport(plotViewport(margins=c(0.5, 0.5, 0.5, 0.5), xscale = c(-1, 21), yscale = c(-1, 21)))
grid.grill(h=unit(seq(0,20),'native'), v=unit(seq(0,7),'native'), gp=gpar(col=rgb(0.8, 0.9, 0.95)))

grid.brackets(0, 18, 7, 20, lwd=2)
grid.text(x=unit(8, 'native'), y=unit(20, 'native'), label=expression(paste(bold('Braces:'),
' default')), hjust = 0, vjust=0)

grid.brackets(0, 16, 7, 18, lwd=2, curvatur=1, type=2)
grid.text(x=unit(8, 'native'), y=unit(18, 'native'), label=expression(paste(bold('Braces 2:'),
' curvatur=1, type=2')), hjust = 0, vjust=0)

grid.brackets(0, 14, 7, 16, lwd=2, ticks=NA, curvatur=1, type=5)
grid.text(x=unit(8, 'native'), y=unit(16, 'native'), label=expression(paste(bold('Parentheses:'),
' ticks=NA, curvature=1, type=5')), hjust = 0, vjust=0)

grid.brackets(0, 12, 7, 14, lwd=2, ticks=NA, type=4, h=0.03)
grid.text(x=unit(8, 'native'), y=unit(14, 'native'), label=expression(paste(bold('Square brackets:'),
' ticks=NA, type=4')), hjust = 0, vjust=0)

grid.brackets(0, 10, 7, 12, lwd=2, ticks=NA, curvature=1, type=3)
grid.text(x=unit(8, 'native'), y=unit(12, 'native'), label=expression(paste(bold('Chevrons:'),
' ticks=NA, curvature=1, type=3')), hjust = 0, vjust=0)

grid.brackets(0, 8, 7, 10, lwd=2, ticks=NA, type=3, curvature=0.2, h=0.04)
grid.text(x=unit(8, 'native'), y=unit(10, 'native'), label=expression(paste(bold('Stump brackets:'),
' ticks=NA, curvature=0.2, type=3')), hjust = 0, vjust=0)

grid.brackets(0, 6, 7, 8, lwd=2, type=4)
grid.text(x=unit(8, 'native'), y=unit(8, 'native'),
label=expression(paste(bold('Square brackets with tick:'), ' type=4')), hjust = 0, vjust=0)

grid.brackets(0, 4, 7, 6, lwd=2, ticks=c(0.25, 0.75))
grid.text(x=unit(8, 'native'), y=unit(6, 'native'),
label=expression(paste(bold('Double tick braces:'), ' ticks=c(0.25, 0.75)')), hjust = 0, vjust=0)

grid.brackets(0, 2, 7, 4, lwd=2, ticks=-0.5, h=0.03)
grid.text(x=unit(8, 'native'), y=unit(4, 'native'),
label=expression(paste(bold('Negative tick braces:'), ' ticks=-0.5')), hjust = 0, vjust=0)

grid.brackets(0, 0, 7, 2, lwd=2, ticks=c(-0.2, -0.4, -0.6, -0.8, 1), type=4)
grid.text(x=unit(8, 'native'), y=unit(2, 'native'), label=expression(paste(bold('Multiples ticks:'),
' ticks=c(-0.2,-0.4,-0.6,-0.8, 1), type=4')), hjust = 0, vjust=0)

popViewport()
```

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