

Package ‘txtplot’

February 20, 2015

Type Package

Title Text based plots

Version 1.0-3

Date 2012-07-25

Author Bjoern Bornkamp

Maintainer Bjoern Bornkamp <bbnkmp@gmail.com>

Description Provides functions to produce rudimentary ascii graphics directly in the terminal window. Provides a basic plotting function (and equivalents of curve, density, acf and barplot) as well as a boxplot function.

License LGPL

LazyLoad yes

Repository CRAN

Date/Publication 2012-07-25 05:19:59

NeedsCompilation no

R topics documented:

txtboxplot	1
txtplot	2
Index	5

txtboxplot	<i>Text based boxplot</i>
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Description

Produces rudimentary ascii boxplots. The boxplot statistics are produced using the `boxplot.stats` function.

Usage

```
txtboxplot(..., range = 1.5, legend = NULL, xlab = NULL,
           width = round(options()$width * 0.8))
```

Arguments

...	Numeric vectors for which a boxplot should be produced
range	This determines how far the plot whiskers extend out from the box. See boxplot.stats and the <code>coef</code> function for details.
legend	Logical determining whether a legend should be drawn. If <code>legend</code> is <code>NULL</code> there will be a legend drawn in case there is more than one boxplot.
xlab	label for x-axis of boxplot, if <code>NULL</code> no x-label will be plotted
width	Width of the plot

Note

Due to rounding to a relatively crude grid results can only be approximate. E.g. the equally spaced axis ticks may be non-equally spaced in the plot.

Author(s)

Bjoern Bornkamp

See Also

[txtplot](#)

Examples

```
rand1 <- rnorm(100, 1, 2)
rand2 <- rnorm(50, 2, 2)
rand3 <- rnorm(50, 2, 5)
txtboxplot(rand1)
txtboxplot(rand1, rand2, rand3)
```

txtplot

Ascii graphics

Description

Provides a function to produce rudimentary ascii graphics directly in the terminal window.

`txtplot` provides the basic plotting function of two numeric vectors. All other functions below are based on this.

`txtcurve` is a text based equivalent of the `curve` function

`txtdensity` is a text based density estimation function based on the `density` function

`txtacf` is a text based equivalent of the `acf` function and based on the `acf` function.

`txtbarchart` is a text based barplot and plots the relative frequencies of the occurrences of the different levels of a factor (in percent)

Usage

```

txtplot(x, y = NULL, pch = "*", width = round(options()$width*0.8),
        height = round(0.25*width), xlab = NULL, ylab = NULL,
        xlim = NULL, ylim = NULL)

txtcurve(expr, from = NULL, to = NULL, n = 101,
         pch = "*", width = round(options()$width*0.8),
         height = round(0.25*width), xlab = NULL, ylab = NULL)

txtdensity(x, pch = "*", width = round(options()$width*0.8),
           height = round(0.25*width), xlab = NULL, ylab = NULL)

txtacf(x, pch = "*", lag.max = 20, type = c("correlation", "covariance", "partial"),
       na.action = na.fail, demean = TRUE, width = round(options()$width*0.8),
       height = round(0.25*width), xlab = NULL, ylab = NULL)

txtbarchart(x, pch = "*", width = round(options()$width*0.8),
            height = round(0.25*width), ylab = NULL)

```

Arguments

x	numeric containing the x-values to plot (for txtbarchart this needs to be of class factor). NA, NaN are removed for plotting. Infinities cause an error
y	numeric containing the x-values to plot (needs to be of the same length as x). If NULL the numeric x is plotted against 1:length(x). NA, NaN are removed for plotting. Infinities cause an error
pch	Plotting symbol
width, height	Width and height of the plots in points
xlab, ylab	labels for x and y axis
xlim, ylim	limits for x and y axis in plot, if equal to NULL automatically determined from x and y.
expr	An expression to plot (containing x)
from,to	Defines boundaries of plotting region for expr in txtcurve
n	integer specifying the number of x values between from and to
lag.max, type, na.action, demean	arguments for call of acf function, see ?acf for details

Note

Due to rounding to a relatively crude grid results can only be approximate! The equally spaced axis ticks, for example, may be non-equally spaced in the plot.

Due to the crude grid also there might be several points per pixel. The function uses the same plotting symbol no matter how many points coincide on one pixel

Author(s)

Bjoern Bornkamp

See Also

[txtboxplot](#)

Examples

```
## basic plotting function
require(stats)
txtplot(cars[,1], cars[,2])
## can include axis labels when desired
txtplot(cars[,1], cars[,2], xlab = "speed", ylab = "distance")

## text based density plot
txtdensity(rnorm(500))

## text based plotting of functions
txtcurve(x/(x+1), 0, 4, xlab = "Emax model")

## text based acf
txtacf(rnorm(100))

## text based barchart
x <- factor(c("orange", "orange", "red", "green", "green", "red",
             "yellow", "purple", "purple", "orange"))
txtbarchart(x)
```

Index

*Topic **hplot**

- txtboxplot, 1
- txtplot, 2

boxcore (txtboxplot), 1

boxplot.stats, 2

checkNA (txtplot), 2

drawLegend (txtplot), 2

getRng (txtplot), 2

getTicks (txtplot), 2

insEOL (txtplot), 2

txtacf (txtplot), 2

txtbarchart (txtplot), 2

txtboxplot, 1, 4

txtcurve (txtplot), 2

txtdensity (txtplot), 2

txtplot, 2, 2