Package ‘txtplot’

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Type Package
Title Text based plots
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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.
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  textboxplot     Text based boxplot

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 coef function for details.
legend Logical determining whether a legend should be drawn. If legend is NULL
there will be a legend drawn in case there is more than one boxplot.
xlab label for x-axis of boxplot, if NULL 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
txtplot

Examples

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

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

```r
## 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)
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