plot graphics

R Documentation

Generic X-Y Plotting

Description

Generic function for plotting of R objects. For more details about the graphical parameter arguments, see par.

For simple scatter plots, plot.default will be used. However, there are plot methods for many R objects, including functionS, data.frameS, density objects, etc. Use methods(plot) and the documentation for these.

Usage

plot(x, y, ...)

Arguments

- ${\bf x}$ the coordinates of points in the plot. Alternatively, a single plotting structure, function or any R object with a plot method can be provided.
- \boldsymbol{y} the y coordinates of points in the plot, optional if \boldsymbol{x} is an appropriate structure.
- ...- Arguments to be passed to methods, such as graphical parameters (see par). Many methods will accept the following arguments:

type - what type of plot should be drawn. Possible types are

- "p" for points,
- "I" for lines,
- b" for both,
- ç"for the lines part alone of "b",
- .º" for both overplotted,
- "h" for histogram like (or high-density) vertical lines,
- "s" for stair steps,
- "S" for other steps, see Details below,
- "n" for no plotting.

main - an overall title for the plot: see title.
sub - a sub title for the plot: see title.
xlab - a title for the x axis: see title.
ylab - a title for the y axis: see title.

Details

The two step types differ in their x-y preference: Going from (x1,y1) to (x2,y2) with x1 < x2, type = "s" moves first horizontal, then vertical, whereas type = "S" moves the other way around.

See Also

plot.default, plot.formula and other methods; points, lines, par. For thousands of points, consider using smoothScatter() instead of plot(). For X-Y-Z plotting see contour, persp and image.

Examples

```
require(stats) \# for lowess, rpois, rnorm plot(cars) lines(lowess(cars)) plot(sin, -pi, 2*pi) \# see ?plot.function \#\# Discrete Distribution Plot: plot(table(rpois(100, 5)), type = "h", col = red", lwd = 10, main = rpois(100, lambda = 5)") \#\# Simple quantiles/ECDF, see ecdf() library(stats) for a better one: plot(x _i- sort(rnorm(47)), type = "s", main = "plot(x, type = \ddot{s})") points(x, cex = .5, col = "dark red")
```