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 <u>par</u>.

For simple scatter plots, <u>plot.default</u> will be used. However, there are <u>plot</u> methods for many **R** objects, including <u>functions</u>, <u>data.frames</u>, <u>density</u> objects, etc. Use methods (<u>plot</u>) and the documentation for these.

Usage

```
plot(x, y, ...)
```

Arguments

- the coordinates of points in the plot. Alternatively, a single plotting structure, function or any R object with a plot method can be provided.
- the y coordinates of points in the plot, *optional* if x is an appropriate structure.

Arguments to be passed to methods, such as <u>graphical parameters</u> (see <u>par</u>). Many methods will accept the following arguments:

type

what type of plot should be drawn. Possible types are

- "p" for points,
- "1" for lines.
- "b" for both,
- "c" 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.

All other types give a warning or an error; using, e.g., type = "punkte" being equivalent to type

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```
= "p" for S compatibility. Note that some methods, e.g. plot.factor, do not accept this.
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.
asp
    the y/x aspect ratio, see plot.window.
```

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

<u>plot.default</u>, <u>plot.formula</u> and other methods; <u>points</u>, <u>lines</u>, <u>par</u>. For thousands of points, consider using smoothScatter() instead of plot().

For X-Y-Z plotting see contour, persp and image.

Examples

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