1. plot()

Package: graphics

Purpose

Creates a scatterplot, line plot, or other types of base graphics plots depending on the type of input data. It is a generic function with methods for different data types (e.g., numeric, factor, formula).

Function Header

$$\label{eq:plot_norm} \begin{split} & plot(x,\ y = NULL,\ type = "p",\ main = NULL,\ sub = NULL,\ xlab = NULL,\ ylab = NULL,\ asp = NA,\ xlim = NULL,\ ylim = NULL,\ log = "",\ \ldots) \end{split}$$

Parameter	Description	Accepted Values / Type
x	The coordinates or object to be plotted.	Numeric vector, formula, or object.
у	Optional y-coordinates.	Numeric vector or NULL .
type	Type of plot.	"p" (points), "1" (lines), "b" (both), "c" (lines without points), "o" (overplotted), "h" (histogram-like vertical lines), "s" (stair steps), "s" (other stair steps), "n" (no plotting).
main	Main title of the plot.	Character string
sub	Subtitle of the plot.	Character string
xlab, ylab	Axis labels.	Character string
asp	Aspect ratio.	NA (default), or numeric
xlim, ylim	Axis limits.	Numeric vector of length 2
log	Axis scaling (logarithmic).	"", "x", "y", "xy"
	Additional graphical parameters.	See graphical parameters below

Graphical Parameters (Selected)

Can be passed via ...

Parameter	Purpose	Accepted Values
col	Color of plot elements.	Color names, hex codes, or numeric (e.g., "red", "#FF0000", 1)
pch	Plotting symbol.	Integer or character (e.g., $1-25$, "+" , "x")
lty	Line type.	"solid" , "dashed" , "dotted" , "dotdash" , "longdash" , "twodash" , or integers $\theta = 6$
lwd	Line width.	Numeric
cex	Character expansion for symbols/text.	Numeric
bg	Background color for symbols with fill.	Color
xaxs , yaxs	Axis interval type.	"r" (regular), "i" (internal)
xaxt , yaxt	Axis drawing control.	"s" (standard). "n" (none)
frame.plot	Draw box around plot.	TRUE , FALSE

1. plot()

Package: graphics

Purpose

Creates a scatterplot, line plot, or other types of base graphics plots depending on the type of input data. It is a generic function with methods for different data types (e.g., numeric, factor, formula).

Function Header

plot(x, y = NULL, type = "p", main = NULL, sub = NULL, xlab = NULL, ylab = NULL, asp = NA, xlim = NULL, ylim = NULL, log = "", ...)

arameter	Description	Accepted Values / Type	
c	The coordinates or object to be plotted.	Numeric vector, formula, or object.	
у	Optional y-coordinates.	Numeric vector or NULL .	
type	Type of plot.	"p" (points), "1" (lines), "b" (both), " c " (lines without points), " o " (overplotted), " h " (histogram-like vertical lines), " s " (stair steps), " s " (other stair steps), " h " (no plotting).	
main	Main title of the plot.	Character string	
sub	Subtitle of the plot.	Character string	
xlab , ylab	Axis labels.	Character string	
asp	Aspect ratio.	NA (default), or numeric	
xlim, ylim	Axis limits.	Numeric vector of length 2	
log	Axis scaling (logarithmic).	"", "x", "y", "xy"	
	Additional graphical parameters.	See graphical parameters below	

Graphical Parameters (Selected)

Can be passed via ...

Parameter	Purpose	Accepted Values
col	Color of plot elements.	Color names, hex codes, or numeric (e.g., "red", "#FF0000", 1)
pch	Plotting symbol.	Integer or character (e.g., 1 – 25 , "+" , "x")
lty	Line type.	"solid" , "dashed" , "dotted" , "dotdash" , "longdash" , "twodash" , or integers $\theta = 6$
lwd	Line width.	Numeric
cex	Character expansion for symbols/text.	Numeric
bg	Background color for symbols with fill.	Color
xaxs , yaxs	Axis interval type.	"r" (regular), "i" (internal)
xaxt, yaxt	Axis drawing control.	"s" (standard), "n" (none)
frame.plot	Draw box around plot.	TRUE , FALSE