

# Image Parameters in R

## *par*

From `?par`:

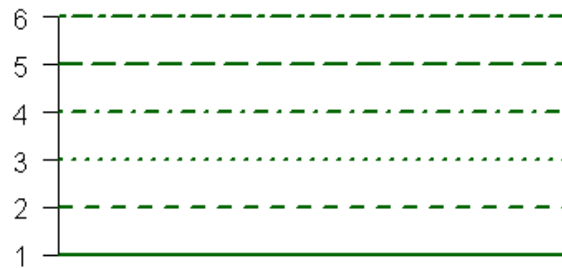
Description:

'par' can be used to set or query graphical parameters. Parameters can be set by specifying them as arguments to 'par' in 'tag = value' form, or by passing them as a list of tagged values.

There are a very large number of settings in `par`. For the full documentation, read the `par` help. Common settings that would be changed are discussed here.

<code>bg</code>	Set the background colour for the whole image. Can be set with colour names ( <code>bg="red"</code> ) or hex values ( <code>bg="#FF0000"</code> )
<code>fg</code>	Set the colour that the plot is drawn with (border, tick mark labels, points, etc)
<code>cex</code>	This changes the size of the text for the labels on a plot as a magnification factor (default <code>cex=1</code> ). If you wish to make them larger, set this as e.g. <code>cex=3</code>
<code>cex.axis</code>	As for <code>cex</code> , but for tick mark labels on the axes
<code>cex.lab</code>	As above, but for the axis title (the 'label')
<code>cex.main</code>	As above, but for title of plot
<code>col.axis</code>	The colour of the axis tick mark labels
<code>col.lab</code>	The colour of the axis titles (default <code>col.axis="black"</code> )
<code>col.main</code>	The colour of the title for the plot
<code>font</code>	The font type to use (default <code>font=1</code> ) 1 – Normal 2 – Bold 3 – Italic 4 – Bold italic
<code>font.axis</code>	Font for tick mark labels
<code>font.lab</code>	... axis title
<code>font.main</code>	... plot title
<code>lab</code>	The number of tick marks on the axes. Specified as <code>lab=c(x,y,len)</code> where <code>len</code> is unimplemented. The defaults are <code>c(5, 5, 7)</code> – 5 tick marks per axis
<code>las</code>	Tick mark label orientation on axes. <code>las=0</code> (default) is parallel to the axis, <code>las=2</code> is perpendicular to the axis. <code>las=1</code> gives horizontal labels, <code>las=3</code> gives vertical labels
<code>lty</code>	Line type

## Line Types: lty=

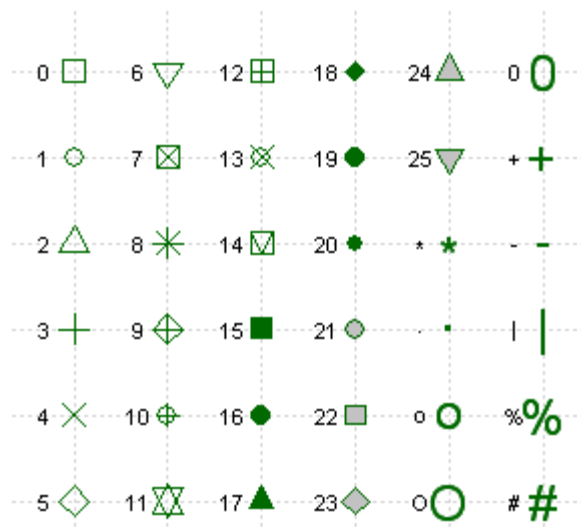


**mar** The number of (text) lines to use for the plot margins. Specified as `c(bottom, left, top, right)`. Default is `mar=c(5, 4, 4, 2)`

**mgp** The distance (in text lines) that the axis title, labels and line are displaced. Defaults to `mgp=c(3, 1, 0)`

**pch** Character symbol to use as points

**plot symbols : pch =**



## Example

`par(fg="blue", font=2, las=1, lty=2, pch=c(15,16,17,18,0,1,2,5))`  
 would cause the image to be drawn in blue on a white background, bold font, horizontal labels on the axes, a dashed line and using different symbols for each point.