## R Base Graphics Cheatsheet

SET GRAPHICAL PARAMETERS				ADD TEXT			
the following can <b>only</b> be set with <b>par() par()</b>				location		size	
multiple plots	mfcol = c(nrow,ncol) mfrow = c(nrow,ncol)		<pre>oma = c(bottom, left,   top, right) default:   c(0,0,0,0) lines</pre>	axis labels subtitle title	<pre>xlab =, ylab = sub = main =</pre>	all elements axis labels subtitle	<pre>cex =   cex.lab =   cex.sub =</pre>
plot margins	<pre>mar = c(bottom, left,      top, right) default:      c(5.1, 4.1, 4.1, 2.1) lines</pre>	query x & y limits	par ("usr")	font face	style font = 1 (plain) 2 (bold) 3 (italic)	tick mark lab title	els cex.axis = cex.main = position
CREATE A NEW PLOT					4 (bold italic)	text direction	•
Bar charts bar labels		Histograms breakpts	<pre>hist(x,) breaks =</pre>	font family	<pre>family = "serif"     "sans" "mono"</pre>	justification	adj = 0 .5 1 (left, center, right)
border fill color	horiz = TRUE	Line charts	<pre>plot(x, type = "1")     "blank" 0  lty = "solid" 1     "dashed" 2     "dotted" 3  lwd =</pre>	ADD TO AN EXISTING PLOT			
horizontal		line type			[any plot function] (, add = TRUE)	<b>Lines</b> <i>line style</i>	lines (x,)
Box plots  horizontal		line width		<pre>ex.barplot(x, add = TRUE)  Axes</pre>		<pre>line width lwd = color col =</pre>	
box labels  Dot plots  dot labels	<pre>names =  dotchart(x,) labels =</pre>	Scatterplots symbol	<b>plot(</b> <i>x</i> ,) pch =	location tick mark: labels	side = 1 2 3 4 (bottom, left, top, right)	Points symbol	points (x,) pch = · × ◊ ▽ ⊠ * ◆ ⊕ ፟ ⊞ 4 5 6 7 8 9 10 11 12
REMOVE			ADJUST		labels = at =	⊗ □ ■ • ▲ • • • ○ □ ♦ △ ▽        13 14 15 16 17 18 19 20 21 22 23 24 25	
axis labels	ann = FALSE	allow plotting	xpd = TRUE	remove rotate text	<pre>tick = FALSE las = 1 (horizontal)</pre>	color fill color	col = bg = (pch: 21-25 only)
axis, tickmark and labels	s, xaxt = "n" yaxt = "n"	region		Axis labels location	<pre>mtext (text,) side = 1 2 3 4 (bottom, left, top, right)</pre>	position	<b>text</b> ( <i>x</i> , <i>y</i> , <i>text</i> ,) pos = 1 2 3 4
plot box	bty = "n"	aspect ratio axis limits	asp = xlim =, ylim =	lines to skip		(rel. to x,y)  Title	(below, left, above, right) (default=center)
NOTE: Many of the parameters here can be also be set in par(). See R help for more options.		axis lines to match axis limits	xaxs = "i" , yaxs = "i" (internal axis calculation)	position justification	at = xory-coord (depending on side) adj = 0 .5 1 (left, center, right)	axis labels subtitle title	<pre>title (main,) xlab =, ylab = sub = main =</pre>