R Base Graphics Cheatsheet

ADD TEXT SET GRAPHICAL PARAMETERS the following can only be set with par() location size par (...) (magnification factor) axis labels xlab = , ylab =all elements cex = plot margins oma = c(bottom, left,multiple mfcol = c(nrow.ncol)subtitle sub = axis labels cex.lab = top, right) default: (outer) plots mfrow = c(nrow.ncol)title main = subtitle cex.sub =c(0, 0, 0, 0) lines tick mark labels cex.axis = plot margins mar = c(bottom, left,style query x & y title cex.main = top, right) default: font face font = 1 (plain)par ("usr") limits c(5.1, 4.1, 4.1, 2.1) lines 2 (bold) 3 (italic) position 4 (bold italic) **CREATE A NEW PLOT** text direction las = 1 (horizontal)font family familv = "serif" iustification Bar charts **Histograms** hist(x, ...)adj = 0.51barplot(height, ...) "sans" "mono" breaks = bar labels names.arg = breakpts (left, center, right) border border = ADD TO AN EXISTING PLOT col = fill color Line charts plot(x, type = "1")horiz = TRUEhorizontal Add new plot "blank" | 0 [any plot function] Lines lines (x,...)line type lty = "solid" | 1(..., add = TRUE)line style lty ="dashed" | 2 Box plots boxplot(x, ...) ex. barplot(x, add = TRUE)line width lwd ="dotted" | 3 horizontal = TRUE horizontal col = line width lwd =color axis (side,...) Axes box labels names = side = 1 2 3 4location **Points** points (x,...)(bottom, left, top, right) svmbol pch = **Dot plots Scatterplots** dotchart(x, ...) **plot**(*x*, ...) tick mark: pch = dot labels labels = symbol labels = labels **REMOVE ADJUST** location at = 13 14 15 16 17 18 19 20 21 22 23 24 25 tick = FALSE remove color col = allow plotting ann = FALSEaxis labels rotate text las = 1 (horizontal) fill color bg = (pch: 21-25 only)out of plot xpd = TRUEaxis, tickmarks, xaxt = "n"Axis labels Text mtext (text,...) text (x, y, text,...)region vaxt = "n"and labels position side = 1 2 3 4pos = 1 2 3 4location (bottom, left, top, right) (below, left, above, right) (rel. to x,y) aspect ratio asp = bty = "n"(default=center) plot box lines to skip line = (from plot xlim =, ylim = axis limits region, default = 0) Title title (main,...) position at = x or y-coord xlab = , ylab =axis labels NOTE: Many of the parameters here axis lines to xaxs = "i" (depending on side) sub = vaxs = "i" (internal subtitle can be also be set in par(). See R match justification adj = 0 .5 1 title main = help for more options. axis limits axis calculation) (left, center, right)

Joyce Robbins, joycerobbins1@gmail.com