> setwd("D:/Documents (Louis Booth)/R/Graphics")

> pdf(file="plots.pdf")

> n = 50

> set.seed(0)

> x = sort(runif(n, min=-2, max=2))

> y = x^3 + rnorm(n)

> plot(x, y, type="p")

> plot(x, y, type="l")

> plot(x, y, main="Shrunken points", cex=0.5)

> plot(x, y, main="Expanded points", cex=2)

> plot(x, y, xlim=c(-1, 1), ylim=c(-5, 5), xlab="Trimmed x", ylab="Trimmed y")

> x.trimmed.index <- which(x>=-1 & x<=1)

> x.trimmed <- x[x.trimmed.index]

> y.trimmed <- y[x.trimmed.index]

> plot(x.trimmed, y.trimmed)

> plot(x, y, pch=20)

> plot(x, y, pch=21)

> plot(x, y, pch=c(21, 20))

> x2 = sort(runif(n, min=-2, max=2))

> y2 = x2^2 + rnorm(n)

> plot(x, y, main="x and y", xlab="x", ylab="y")

> points(x2, y2, pch=20, col="blue")

> lines(x2, y2, pch=20, col="red", lwd=2)

> legend(1.4, -4, legend=c("Cubic", "Quadratic"), col=c("black", "blue"), pch=c(21, 20), cex=0.8)

> x <- 1:10

> y1 <- x^2

> y2 = 2\*y1

> plot(x, y1, type="b", pch=19, col="red", xlab="x", ylab="y")

> lines(x, y2, pch=18, col="blue", type="b", lty=2)

> legend(1, 95, legend=c("Line 1", "Line 2"), col=c("red", "blue"), lty=1:2, cex=0.8)

> text(1, 50, labels="hello")

> text(1, 5, labels="MSQE")

> dev.off()

null device

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