A list of useful R commands

help()	give help regarding a command, e.g. help(hist)
c()	concatenate objects, e.g. x = c(3,5,8,9) or y = c("Jack", "Queen", "King")
1:19	create a sequence of integers from 1 to 19
seq()	create a sequence of integers from 2 to 11 by increment 3 with $seq(2, 11, by=3)$
rep()	repeat n times the value x, e.g. rep (2, 5) gives 22222
()	give arguments to a function, e.g. sum(x), or help(hist)
[]	select elements from a list, e.g. $x [2]$ gives 5. $x [c (2, 4)]$ gives 5.9 for x as above
matrix()	fill in (by row) the values from v in a matrix of 4 rows and 3 columns by giving
	m = matrix(v, 4, 3, bvrow=T)
m[.3]	gives the 3^{rd} column of the matrix m
m[2,]	gives the 2^{nd} row of the matrix m
= or <-	assign something to a variable, e.g. $x = c("a", "b", "b", "e")$
==	ask whether two things are equal, e.g. $x = c(3, 5, 6, 3)$ and then $x = 3$ gives
	True False True
	Then $v[x] = 31$ gives those entries of v where x equals 3 i.e. the 1 st and 4 th entry of v
<	ask whether x is smaller than $y \in g$ $x < 6$ in the example above gives
	True True False True
>	ask whether x is larger than y
-	ask whether x is larger than y
sum()	get the sum of the values in x by $sum(x)$
mean()	get the mean of the values in x by mean (x)
median()	get the median of the values in x by median (x)
summary()	6 number summary (min, max, 01, 03, median, mean)
round()	round values in x to 3 decimal places by round $(x - 3)$
round()	found values in x to 5 decimal places by found $(x, 5)$
solu()	soft the ner durlicate values from a list $a = a + a + a + a + a + a + a + a + a + $
unique()	get the non-duplicate values from a list, e.g. $x = c(3, 5, 7, 2, 3, 5, 9, 3)$ and then
	unique (x) gives 33729
hist()	create a histogram of the values in x by bigt (x)
stom()	create a stem and leaf plot of the values in x by $a \pm cm(x)$
hovelat()	create a stem and real plot of the values in x by Stem (x)
plot()	create a boxplot of the values in x by $boxplot(x)$
	scatterplot of x vs. y by prot (x, y) ; for more parameters see herp (prot.derault)
Im()	Fit a least squares regression of y (response) on x (predictor) by fit = $\lim (y \sim x)$
	gives the feast squares coefficients from the fit above, i.e. intercept and slope
	gives the fitted values for the regression fitted above
	gives the residuals for the regression fitted above
lines()	add a (regression) line to a plot by lines (x, fitsfitted)
points()	add additional points (different plotting character) to a plot by points $(x, y^2, pch=5)$
seen()	read data for any variable from a taxt file $a = a = a = a = (Hair a = da + H)$
scan()	The charge the second
mand table()	boli t lorget to change to the appropriate directory first (File – Change Dir)
read.table()	read spreadsheet data (i.e. more than one variable) from a text file $(1, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,$
	while the values of a variable y in a file data.txt by write (y, file="data.txt")
$\log()$	lagarithm to base 10
log10()	logarithm to base 10
pnorm()	find area under curve of a Normal(10.3^2) distribution to the left of 8 i.e. $P(X \ge 8)$ by
Photin()	pnorm (8, mean=10, sd=3)
anorm()	find value x such that area under Normal(10 3^2) curve and to the left of x equals 0.25 by
J()	gnorm(0.25, mean=10, sd=3)
sample()	take a simple random sample of size n from the population x by sample (x, n)
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