

R Commands Cheat Sheet

by BarplotNorm via cheatography.com/203294/cs/43288/

Basic Math			
exp(x)	Exponential	sum(x)	Sum
log(x)	Natural log	cumsum(x)	Cumulative Sum
max(x)	Largest element	ceil(x)	Round up
min(x)	Smallest element	floor(x)	Round down
mean(x)	Mean	median(x)	Median
var(x)	Variance	quanti le(x)	Percentage quantiles
х %% у	Modulo		

I/O	
write(data, " myd ata.da t")	Write data as binary.
scan("m yda ta.d at ")	Read binary data.

Plotting	
plot(data)	Plot quick overview.
<pre>barplot(x, main="T itl e", xlab="x label")</pre>	Annotated barplot of absolute frequencies
plot.e cdf (data)	Plot ECDF.
hist(data, prob=TRUE, breaks=30)	Histogram of relative frequencies (30 bins).
rug(data)	1D-plot
abline (a, b,c ol= " red ")	Add a red line with intercept a and slope b to the plot.

Vectors		

Creating Vectors	
c(2, 4, 6)	Join elements into a vector
2:6	An integer sequence (end inclusive!)
seq(2,3, by=0.5)	Complex sequence (s. np.linspace)
rep(1:2, 3)	Repeat vector
rep(1:2, 3:4)	Repeat each element
Functions	
sort(x)	Return x sorted.
rev(x)	Return x reversed.
unique(x)	See unique values.
length(x)	Length of x.
Tables	
table(x)	Generate absolute frequency table
as.num eri c(n ame s(t ab)); as.vec tor (tab)	Access values and frequencies of the table
Selecting Vector Elements	
By Position	
x[4]	The fourth element
x[-4]	All but the fourth.
x[2:4]	Elements two to four
x[-(2:4)]	All elements except 2 to four
x[c(1, 5)]	Elements one and five.
By Value	
x[x == 10]	All elements equal to 10



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Vectors (cont)	
x[x < 10]	All elements less than 10.
x[x %in% c(1, 2, 5)]	Elements in the given set.
Named Vectors	
x['apple']	Element with name 'apple'.

Runs Test of Randomness	
rle(x)	Compute the lengths and values of runs of equal values in a vector .
rle(x) \$le ngths	Vector containing the length of each run.
rle(x) \$values	Vector of the same length as lengths with the corresponding values.

Help	
?sqrt	Display documentation of the command sqrt`
? ! %% !	use quotation marks for special characters

Miscellaneous	
Printing	
<pre>print(" Tex t")</pre>	Default print
sprint f("F orm atted %s: %.3f", object, mean)	Formatted print
(x=3)	enclose an R command with brackets to directly print the result

Random Numbers	
sample (1: 3,p rob =c(1/6 ,1/ 3,1 /2) ,re pla c	Draw 20 balls, labeled from 1 to 3, from box with replacement.
e= TRU E,20)	
r <d id="" istr.="">(n, params)</d>	Draw $\tt n$ numbers from distribution $\tt < distr. \ ID> \ with \ parameters \ params$



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