

R Commands Cheat Sheet

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

R as a Calculator			
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		

Univariate Data: I/O

write(data, " myd ata.da t")
scan("m yda ta.d at ")
Read binary data.

Univariate Data: Plotting		
plot(data)	Plot quick overview.	
barplot(x)	Barplot of absolute frequencies.	
plot.e cdf (data)	Plot ECDF.	
hist(data, prob=TRUE)	Histogram of relative frequencies.	
rug(data)	1D-plot	
hist(data, breaks=30)	Specify subdivisions of histogram.	

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

Vecotr Functions	
sort(x)	Return x sorted.
rev(x)	Return x reversed.
table(x)	See counts of values.
unique(x)	See unique values.
length(x)	Length of x.



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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	
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.	



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