R Commands Cheat Sheet
by BarplotNorm via cheatography.com/203294/cs/43288/

| R as a Calculator |  |  |  |
| :---: | :---: | :---: | :---: |
| exp (x) | Exponential | sum (x) | Sum. |
| $\log (\mathrm{x})$ | Natural log. | cumsum (x) | Cumulative Sum. |
| $\max (\mathrm{x})$ | Largest element. | ceil (x) | Round up. |
| $\min (\mathrm{x})$ | Smallest element. | floor (x) | Round down. |
| mean (x) | Mean. | median (x) | Median. |
| $\operatorname{var}(\mathrm{x})$ | Variance. | quanti le(x) | Percentage quantiles. |
| $x \%$ y | Modulo |  |  |


| Univariate Data: I/O |  |
| :--- | :--- |
| write ( data, " myd ata.da t") | Write data as binary. |
| 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!) |
| $\operatorname{seq}(2,3, b y=0.5)$ | Complex sequence (s. np.linspace) |
| $\operatorname{rep}(1: 2,3)$ | Repeat vector |
| $\operatorname{rep}(1: 2,3: 4)$ | Repeat each element |


| Vecotr Functions |  |
| :--- | :--- |
| sort $(x)$ | Return $x$ sorted. |
| $\operatorname{rev}(x)$ | 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 | The fourth element |
| $x[4]$ | All but the fourth. |
| $x[-4]$ | Elements two to four |
| $x[2: 4]$ | All elements except 2 to four |
| $x[-(2: 4)]$ | Elements one and five. |
| $x[c(1,5)]$ | All elements equal to 10 |
| By Value | All elements less than 10. |
| $x[x==10]$ | Elements in the given set. |
| $x[x<10]$ |  |
| $x[x \%$ in\% $c(1,2,5)]$ | Element with name 'apple'. |
| Named Vectors |  |
| $x['$ apple' $]$ |  |


| Runs Test of Randomness |  |
| :--- | :--- |
| $r l e(x)$ | Compute the lengths and values of runs of equal values in a vector . |
| $r l e(x) \quad$ \$le ngths | Vector containing the length of each run. |
| $r l e(x) \$ v a l u e s$ | Vector of the same length as lengths with the corresponding values. |

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