

Matrices:

<code>matrix(c(3,2,4,5,1,4),byrow=TRUE,nrow=2)</code>	Create a 2×3 matrix with rows [3 2], [4 5], [1 4]
<code>matrix(rep(0,28),nrow=7)</code>	Create an all-zero 7×4 matrix
<code>matrix(runif(28),nrow=7)</code>	Create a 7×4 matrix with random numbers between 0 and 1
<code>nrow(A), ncol(A)</code>	Get the number of rows/columns of a matrix A
<code>A[2,3]</code>	Get the element at row 2, column 3 of the matrix A
<code>A[,9]</code>	Get column 9 of the matrix A
<code>A[4,]</code>	Get row 4 of the matrix A
<code>t(A)</code>	The transpose of the matrix A
<code>A %*% x</code>	Matrix-vector multiplication of A and x
<code>as.matrix(read.csv("filename",header=FALSE))</code>	Read data from a comma-separated text file into a matrix

“if” statements:

<pre>if (condition) { ... statements ... }</pre>	— or —	<pre>if (condition) { ... statements ... } else { ... statements ... }</pre>
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where “condition” can use `<`, `>`, `<=` (“less than or equal to”), `>=`, `==` (“equal to”), `!=` (“not equal to”), `&&` (logical “and”), and `||` (logical “or”)