



	scalar
[3 5]	row vector
[1;3]	column vector
[3 4 5;6 7 8]	matrix

Evenly-spaced vectors

Example	Description
1:4	Create a vector from 1 to 4, spaced by 1, using the colon (:) operator.
1:0.5:4	Create a vector from 1 to 4, spaced by 0.5.
linspace (1,10,5)	Create a vector with 5 elements. The values are evenly spaced from 1 to 10.

Creating matrices

Example	Description
rand (2)	Create a square matrix with 2 rows and 2 columns.
zeros (2,3)	Create a rectangular matrix with 2 rows and 3 columns.

Indexing

Example	Description
A(end ,2)	Access the element in the second column of the last row.
A(2,:)	Access the entire second row
A(1:3,:)	Access all columns of the first three rows.
A(2) = 11	Change the value of the second element an array to 11.

Array operations