

NUMPY

NumPy is a Python library used for working with arrays, linear algebra, fourier transform, and matrices.

A numpy array is similar to a list

NumPy stands for Numerical Python and it is an open source project.

The array object in NumPy is called **ndarray**

Linspace

A useful function for plotting mathematical functions is linspace. Linspace returns evenly spaced numbers over a specified interval.

numpy.linspace(start, stop, num = int value)

start : start of interval range

stop : end of interval range

num : Number of samples to generate.

Syntax	<code>np.array([[1,2,3,4] , [2,3,4,5]])</code>	<code>l = [[1,2,3,4] , [2,3,4,5]]</code>	Indexing of list elements is similar to indexing of array elements. Array involves dimensions which makes it different from list
Output	<code>array([[1, 2, 3, 4], [2, 3, 4, 5]])</code>	<code>[[1,2,3,4] , [2,3,4,5]]</code>	

Array is also called nested sequence.