

Numpy Cheat Sheet

Numbers	
zeros (tuple)	Generates an array of zeros, the dimensions are given by tuple.
ones (tuple)	Generates an array filled with 1, the dimensions are given by tuple.
np.random.*	
random(<i>tuple</i>)	Uniformly samples numbers from [0, 1] into an array of size tuple.
random(* <i>tuple</i>)	Samples values from a Gaussian distribution with <i>mean</i> 0 and <i>variance</i> 1 into an array of size tuple. Note: Each dimension is a separate argument.
Instance methods of np.array	
mean()	Mean
var()	Variance
Matrices	
np.diag(list)	Generates a matrix with the diagonal <i>list</i> and zeros elsewhere.
np.diag(<i>matrix</i>)	Extracts the diagonal of the given <i>matrix</i> or two-dimensional array.

