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(*tuple*)	Uniformly samples numbers from [0, 1] into an array of size *tuple*.
random(**tuple*)	Samples values from a Gaussian distribution with *mean* 0 and *variance* 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 *list* and zeros elsewhere.
np.diag(*matrix*)	Extracts the diagonal of the given *matrix* or two-dimensional array.