Cheatography

Numpy Cheat Sheet

by narand via cheatography.com/55079/cs/14658/

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.

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