Scipy.org (http://scipy.org/)

NumPy

NumPy is the fundamental package for scientific computing with Python. It contains among other things:

- a powerful N-dimensional array object
- sophisticated (broadcasting) functions
- tools for integrating C/C++ and Fortran code
- useful linear algebra, Fourier transform, and random number capabilities

Besides its obvious scientific uses, NumPy can also be used as an efficient multi-dimensional container of generic data. Arbitrary data-types can be defined. This allows NumPy to seamlessly and speedily integrate with a wide variety of databases.

NumPy is licensed under the BSD license (license.html#license), enabling reuse with few restrictions.

Getting Started

- Getting NumPy (http://www.scipy.org/scipylib/download.html)
- Installing the SciPy Stack (http://www.scipy.org/install.html)
- NumPy and SciPy documentation page (http://docs.scipy.org/doc/)
- NumPy Tutorial (https://docs.scipy.org/doc/numpy/user/quickstart.html)
- NumPy for MATLAB© Users (https://docs.scipy.org/doc/numpy/user/numpy-for-matlab-users.html)
- NumPy functions by category (https://docs.scipy.org/doc/numpy/reference/routines.html)
- NumPy Mailing List (http://www.scipy.org/scipylib/mailing-lists.html)

For more information on the SciPy Stack (for which NumPy provides the fundamental array data structure), see scipy.org (http://www.scipy.org/).