The Scientific Python Ecosystem

Core Packages

- NumPy - the fundamental package for numerical computation

- SciPy Library - a collection of numerical algorithms and domain-specific toolboxes

- Matplotlib – plotting and visualization package, 2D plotting and basic 3D plotting

Core Packages

- SymPy - for symbolic mathematics and computer algebra

- Pandas – easy to use data structures for data science

- IPython – Interactive shell and web based notebook for rapid prototyping of ideas

Additional Packages:

not the part of the core packages, yet very important

- Scikit-image – Image processing library

- Scikit-learn – machine learning and AI library

Additional Packages:

- Jupyter – Interactive web based notebook with code, visualizations, rich text, videos, and more

- h5py and PyTables – both access data stored in HDF5 format

- nose and pytest – unit testing frameworks for python (nose is being phased out in preference for pytest

Thank You

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