Glossary

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Item	Description
Anaconda	Python distribution package tailored for data sciences. It includes thousands of popular data science packages, the Spyder IDE, Jupyter Notebook, and the conda package and virtual environment manager for Windows, Linux and MacOS.
conda	Command line package and environment manager. (Anaconda Navigator is the GUI to Conda)
cython	C compiler for functions to make them faster
dunders	Python methods with double underscores. Also called "magic methods" and are part of the Python data model. (ex: __init__ is referred to as dunder init), The core language will act on objects based on the presence of certain dunders.
IDE	Integrated Development Environment bringing together basic tools for writing and debugging software under one user interface
JupyterHub	Multi-user server for Jupyter Notebooks
Jupyter Notebook	Interactive environment combining code cells with rich text elements including equations, figures, images and links and interactive plotting.
JupyterLab	Next generation UI for Project Jupyter offering and IDE like experience for data science applications (currently in Beta and will eventually replace Jupyter Notebook)
Markdown	Lightweight markup language used in Jupyter Notebooks
MathJax	Markdown specific for rendering equations. Jupyter markdown parser is MathJax aware.
matplotlib	Plotting library includes pyplot that works like Matlab
Module	A single file containing Python objects including definitions of functions, classes, variables, and constants.
NumPy	Python extension module for numerical data allowing for efficient vectorized operations on arrays
Pandas	Python package for data analysis for working with "labeled" or "relational" data in an easy and intuitive way similar to spreadsheets.
pip	Python tool for installing and managing packages. Similar to conda and can be used side by side (Since Anaconda environment is managed with conda, try to install new packages with conda first, and if not available use pip).

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SciPy	Package containing scientific and numerical tools for Python supporting integration, ODE solvers, gradient optimization. Very fast, efficient and robust as most are wrappers around existing C/Fortran routines from www.netlib.org
Seaborn	Plotting library built over Matplotlib for more attractive plots. Simply importing Seaborn will beautify existing plots
Spyder	IDE packaged with Anaconda
Package	A collection of modules under a common namespace.
Library	General term for a module, package or collection of packages for use in a general application area or functional space.