

# Class 2 – Python Crash Course

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# Install Python with Anaconda

## Anaconda:

- A distribution of python
- Includes Python and many other libraries
- All-in-one install

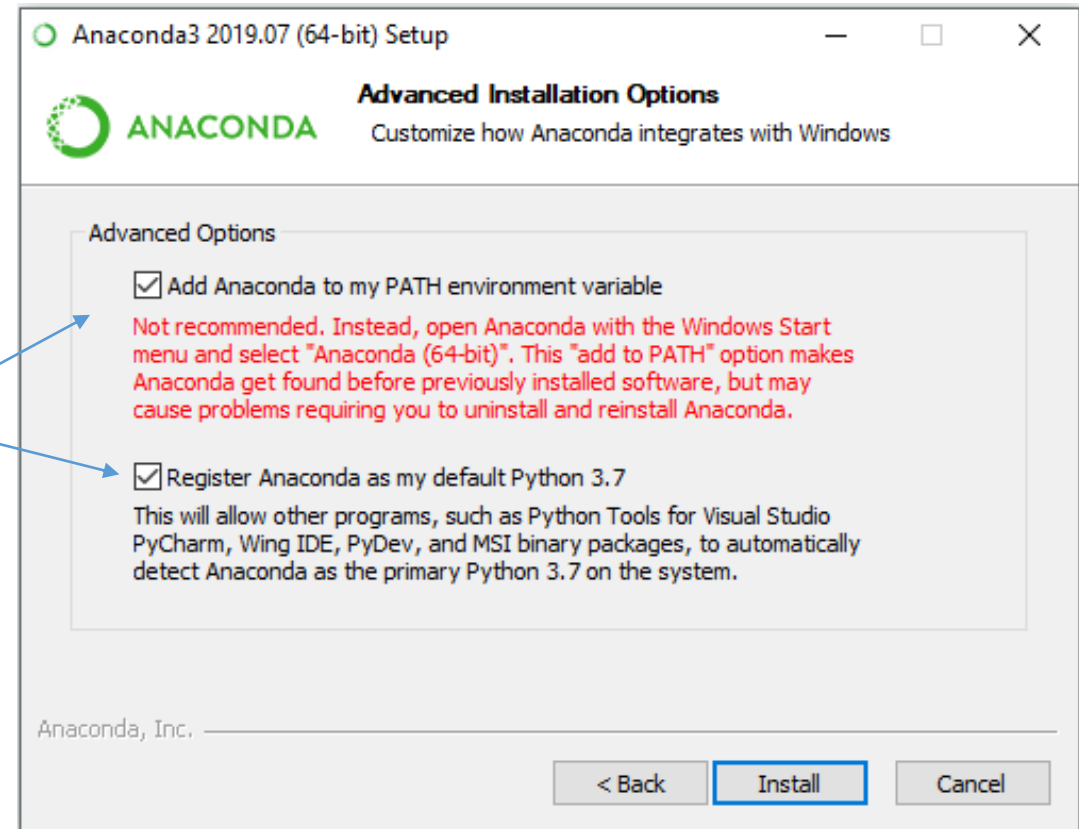
## Jupyter:

- A development environment for writing code and markdown and display images
- Most popular IDE
- Best learning/teaching tool

# Install Python with Anaconda

<https://www.anaconda.com/>

1. Download the Graphical Installer
2. Make sure checking both boxes
3. Search for Anaconda Navigator



# Data Science Libraries

- Numpy:
  - A Linear Algebra library for python.
  - Very fast (binding to C libraries)
  - Building block of almost all of the libraries in the PyData ecosystem (Pandas, Scipy, Scikit-learn and etc).
- Pandas:
  - A library built on top of Numpy.
  - Allows for fast analysis and data cleaning
  - Has built-in visualization features
- To install any library:
  - conda install numpy
  - pip install numpy

# Data Science Libraries

- matplotlib:
  - Most popular plotting library for python.
  - Very similar to MATLAB's plotting.
- seaborn:
  - A statistical plotting library
  - Built on top of matplotlib
- To install any library:
  - conda install numpy
  - pip install numpy