Python Fundamentals and Jupyter Notebook - CAEN/UFC Instructor: Marcelo Aarestrup Arbex

Setting up Your Python Environment and Jupyter Notebooks

- For the courses Computational Macroeconomics I and Quantitative Macroeconomics I, the best approach is to install a Python distribution that contains the core Python language and compatible versions of the most popular scientific libraries.
 - The best such distribution is Anaconda https://www.anaconda.com/products/enterprise.
 - Follow the instructions at https://python-programming.quantecon.org/getting_started.html to install Anaconda.
- For most of our slides and lecture notes, we will use Jupyter notebooks one of the many possible ways to interact with Python and the scientific libraries. They use a browser-based interface to Python with the ability to write and execute Python commands, formatted output in the browser, including tables, figures, animation, etc. and the option to mix in formatted text and mathematical expressions.
 - See Jupyter Notebook Users Manual for more details.

Module 0 - Python Fundamentals

Students are expected to review this material before the beginning of the course *Computational Macroeconomics I.* Notebooks will be available at TBA.

- 1. Fundamentals: Basics, Collections, Functions and Conditionals
 - 1_1lec_Basics.ipynb
 - 1_2lec_Collections.ipynb

- 1_3lec_Functions.ipynb
- 1_4lec_Conditionals.ipynb
- 2. Libraries: numpy, matplotlib, scipy and pandas
 - 1_5lec_numpy.ipynb
 - 1_6lec_matplotlib.ipynb

- 1_7lec_scipy.ipynb
- 1_8lec_pandas.ipynb