

Data Analysis Course

How to Install Python?

We are using Anaconda!

What is Anaconda?

Anaconda is a distribution that includes Python and many essential libraries, making it easier for us to get started without worrying about installing additional packages.

Advantages of Anaconda

- Automatically installs essential Python libraries (e.g., NumPy, Pandas).
- Includes Jupyter Notebook for easy code execution and presentation.
- Compatible with all major operating systems.

Note: If you prefer a lighter version of Anaconda, you can install Miniconda, which is a minimal installation that only includes Python and the package manager conda. You can then manually install only the libraries you need, saving space and reducing installation time. For beginners, Anaconda is recommended!

Installing Anaconda

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

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 Windows	 Mac	 Linux
Python 3.12 ↓ 64-Bit Graphical Installer (912.3M)	Python 3.12 ↓ 64-Bit (Apple silicon) Graphical Installer (704.7M) ↓ 64-Bit (Apple silicon) Command Line Installer (707.3M) ↓ 64-Bit (Intel chip) Graphical Installer (734.7M) ↓ 64-Bit (Intel chip) Command Line Installer (731.2M)	Python 3.12 ↓ 64-Bit (x86) Installer (1007.9M) ↓ 64-Bit (AWS Graviton2 / ARM64) Installer (800.6M) ↓ 64-bit (Linux on IBM Z & LinuxONE) Installer (425.8M)

... scroll down and choose the installer for your operating system

Getting Started with Jupyter Notebook

What is Jupyter Notebook?

Jupyter Notebook is a tool that allows you to write and run Python code in interactive documents. You can write code, text, and add visuals, all in one place.

Why Jupyter Notebook?

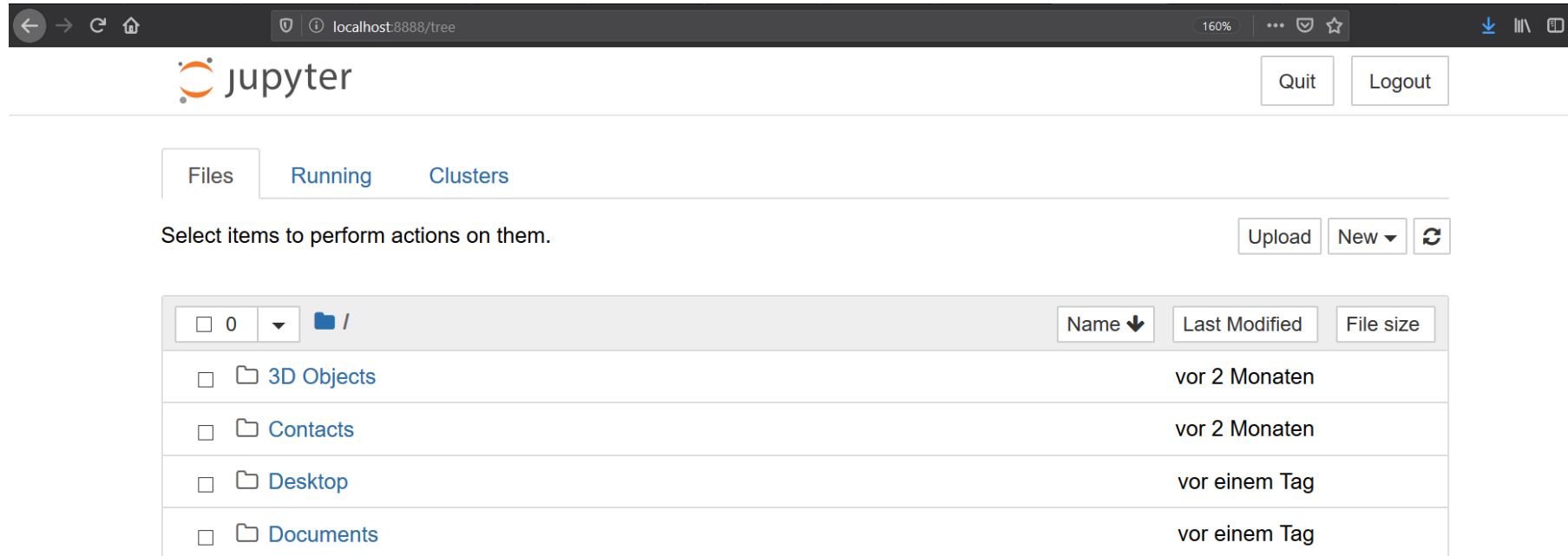
- Run code in small sections (called ‘cells’).
- Add explanations and comments directly into the notebook.
- Ideal for experimenting with code and testing small parts before creating full programs.

Getting Started with Jupyter Notebook

After installing Anaconda, you can open Jupyter Notebook in multiple ways

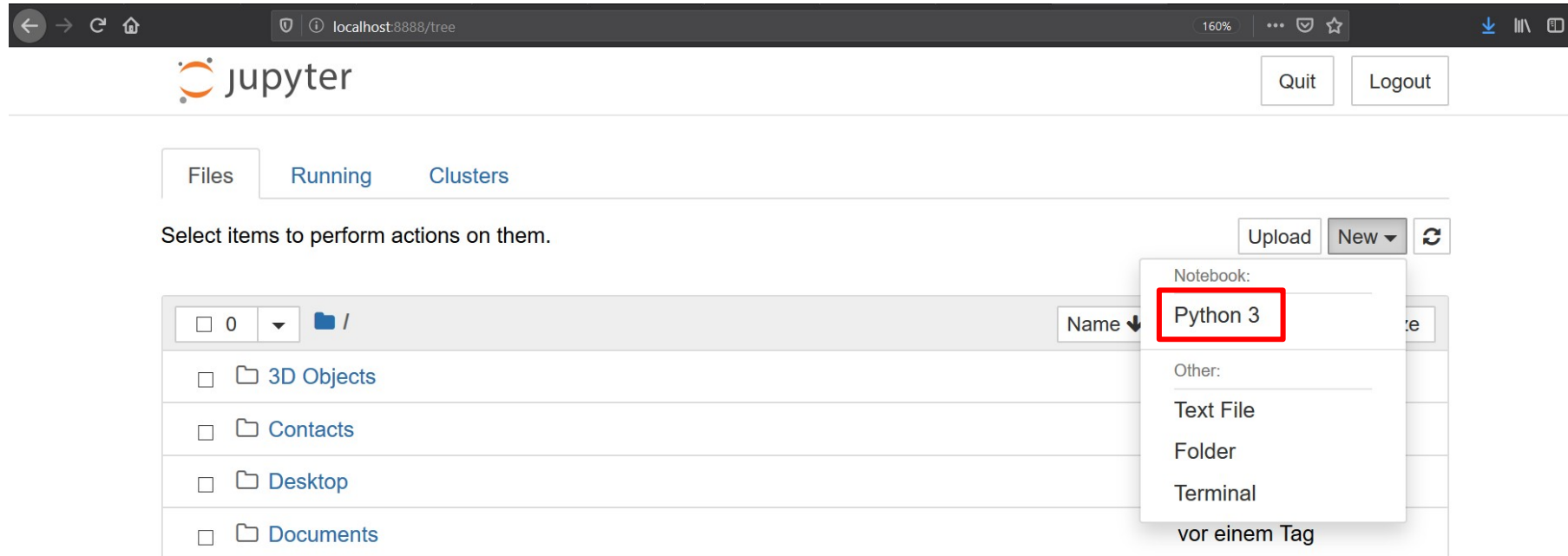
- Method 1:** Search for 'Jupyter Notebook' in your system's search bar.
- Method 2:** Enter in the search bar - Anaconda Navigator – then open the Navigator and start the Jupyter Notebook from there
- Method 3:** Enter in the search bar - Anaconda Prompt - and open it. Then type "jupyter notebook" and press Enter.

Navigating Jupyter Notebook



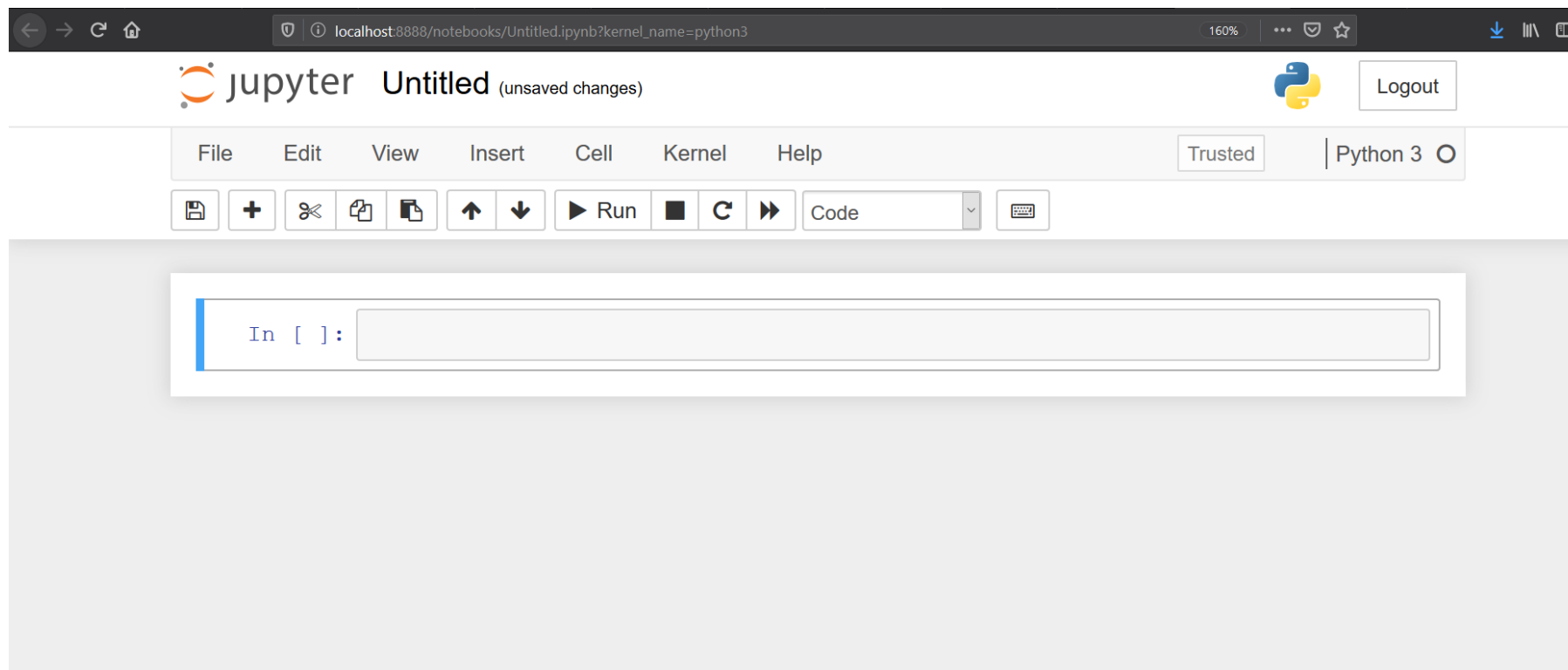
... should look like this

Navigating Jupyter Notebook



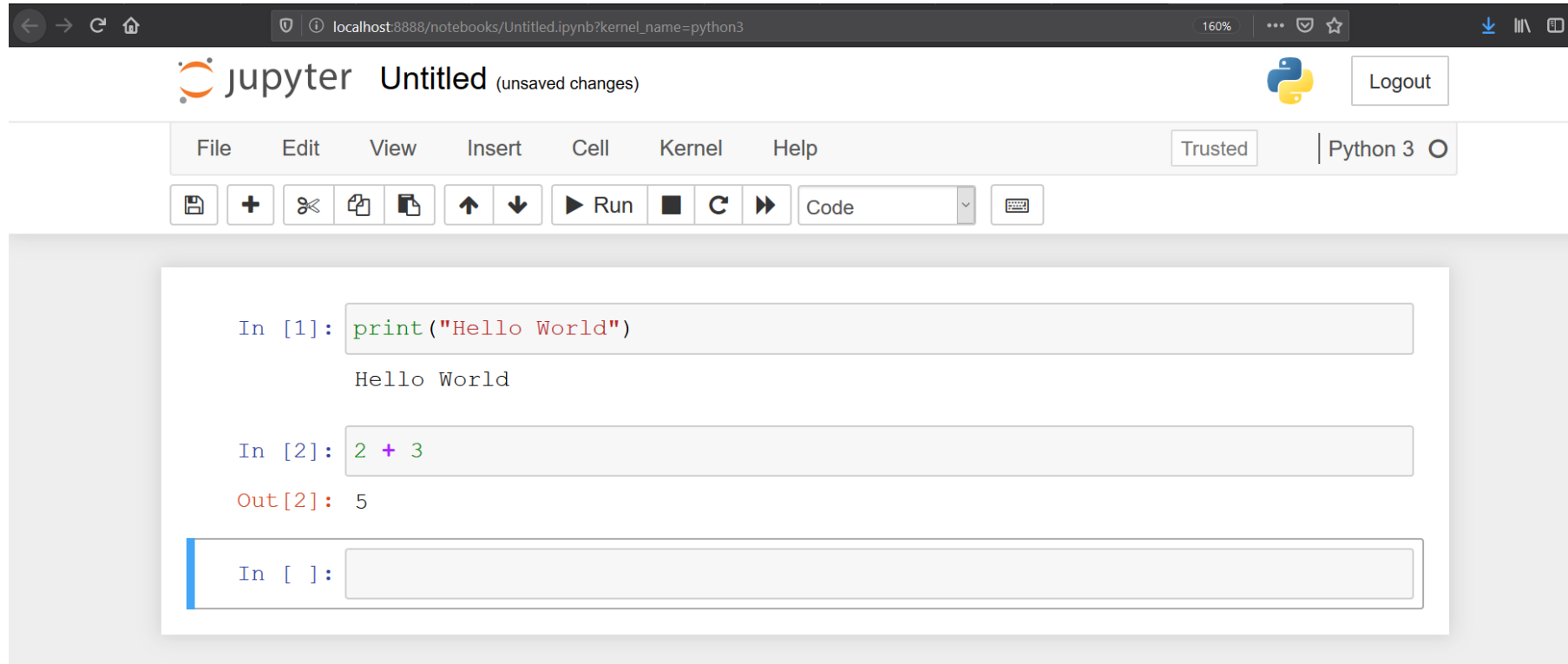
... here is where you create a new Jupyter Notebook

Navigating Jupyter Notebook



... the empty Notebook looks like
this

Your First Python Program



... we can execute cells with SHIFT + ENTER