

Python Bootcamp & Masterclass

How to use
Jupyter
Notebook



IDE (Integrated Development Environment)

IDE stands for Integrated Development Environment.

It's a tool that allows a developer to write, test, and debug code easily and interactively, as IDEs typically offer code completion, resource management, debugging tools and context-sensitive help.

Jupyter is the most common open-source IDE for python and the easiest way to get it is by downloading Anaconda distribution.

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Installing Anaconda

Step1: go to <https://www.anaconda.com/products/individual>

Step2: Scroll down to see Anaconda Installers

Step3: Download installer appropriate for your computer

Anaconda Installers

Windows 

Python 3.8

64-Bit Graphical Installer (457 MB)


32-Bit Graphical Installer (403 MB)

MacOS 

Python 3.8

64-Bit Graphical Installer (435 MB)

64-Bit Command Line Installer (428 MB)

Linux 

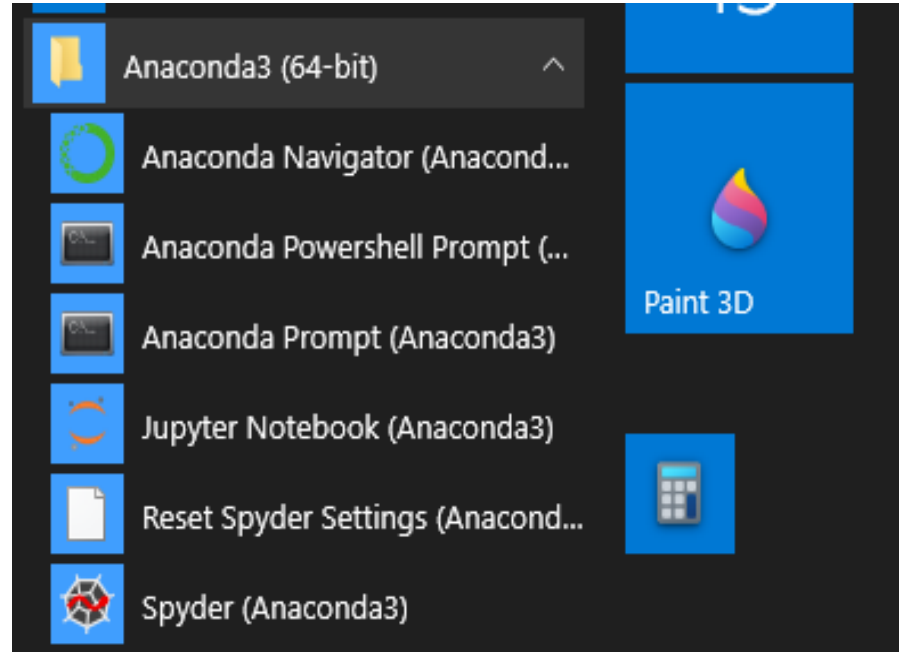
Python 3.8

64-Bit (x86) Installer (529 MB)

64-Bit (Power8 and Power9) Installer (279 MB)

Jupyter Notebook

After installing **Anaconda**, Jupyter Notebook can be opened by clicking on the **Jupyter Notebook (Anaconda3)** menu item from the start menu. It can also be opened from Anaconda Navigator or from the Anaconda Prompt by typing **jupyter notebook** at the prompt.



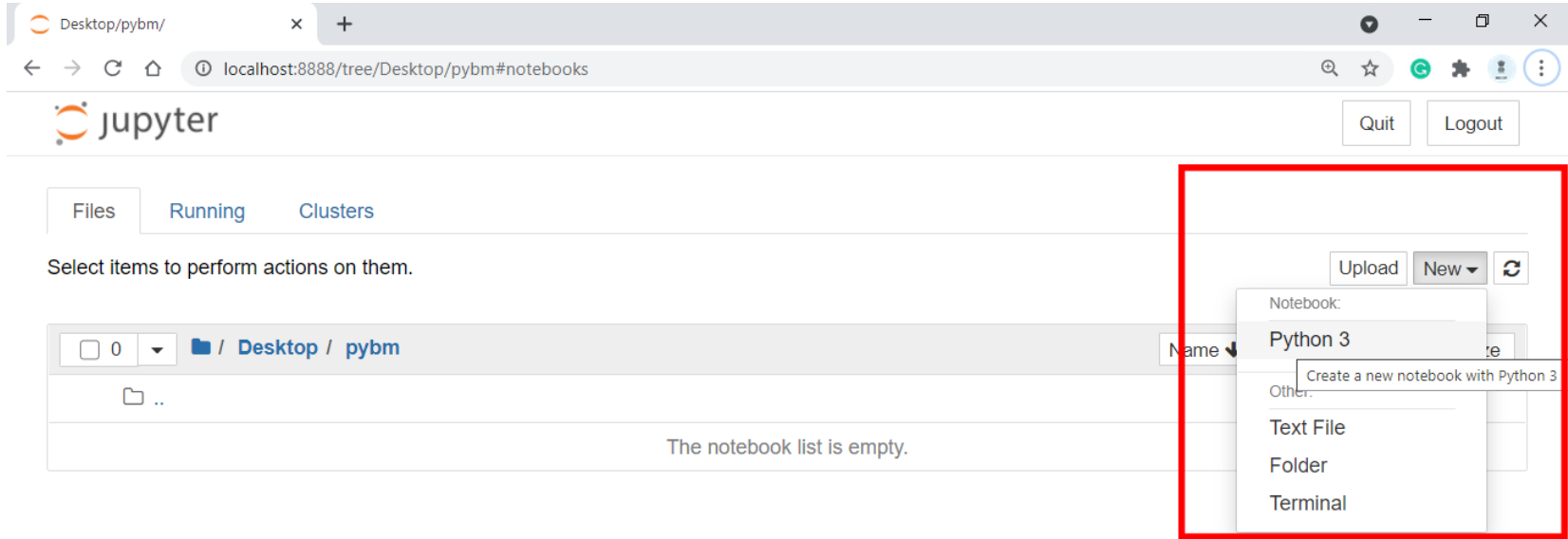
Jupyter is a browser-based IDE. It opens in the default browser. The explorer can be used to navigate to the proper directory.



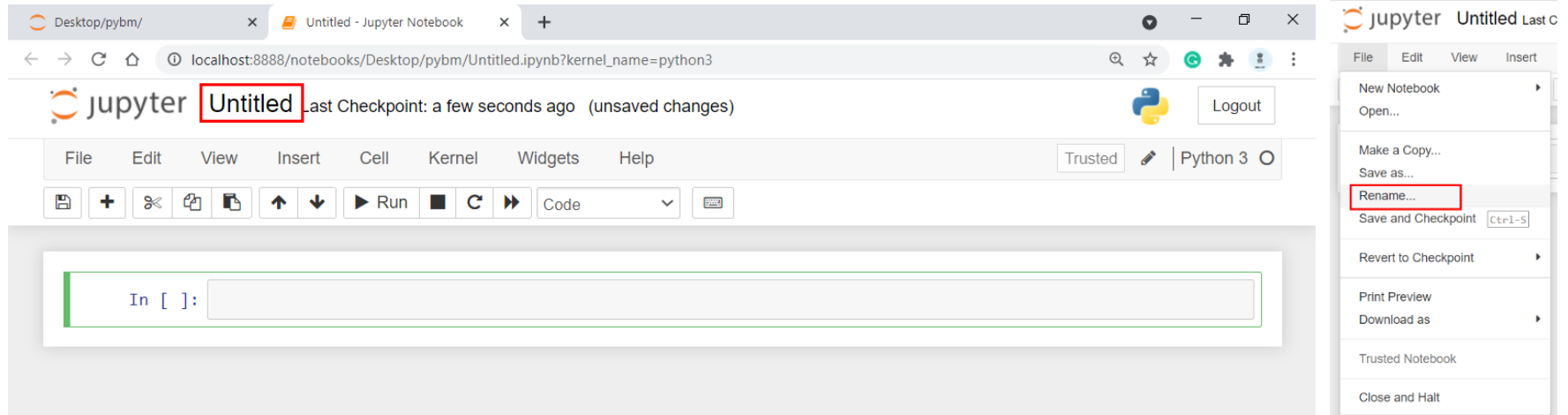
The screenshot shows a web browser window with the URL `localhost:8889/tree`. The page title is "Home Page - Select or create a n...". The Jupyter logo is visible in the top left, and "Quit" and "Logout" buttons are in the top right. Below the navigation tabs "Files", "Running", and "Clusters", there is a message "Select items to perform actions on them." and buttons for "Upload", "New", and a refresh icon. The file explorer shows a directory structure with a table of files and folders.

<input type="checkbox"/>	0		Name ↓	Last Modified	File size
<input type="checkbox"/>		📁	/		
<input type="checkbox"/>		📁	09-Vivek	3 months ago	
<input type="checkbox"/>		📁	3D Objects	8 months ago	

A new Jupyter Notebook can be created by clicking on the **New** dropdown button and then clicking the **Python 3** menu item to create a new Python 3 Notebook



The newly created **Untitled** Jupyter Notebook shall be given a meaningful name by clicking on the **Untitled** or **Rename...** from the **File** menu item



The screenshot displays a web browser window with a Jupyter Notebook interface. The browser's address bar shows the URL `localhost:8888/notebooks/Desktop/pybm/Untitled.ipynb?kernel_name=python3`. The notebook's title bar reads "jupyter Untitled Last C", with the word "Untitled" highlighted by a red box. Below the title bar is a menu bar with "File", "Edit", "View", "Insert", "Cell", "Kernel", "Widgets", and "Help". The "File" menu is open, showing options such as "New Notebook", "Open...", "Make a Copy...", "Save as...", "Rename..." (highlighted with a red box), "Save and Checkpoint", "Revert to Checkpoint", "Print Preview", "Download as", "Trusted Notebook", and "Close and Halt". The main workspace contains a code cell with the prompt "In []:" followed by an empty input field. The interface also shows a "Logout" button and a "Python 3" kernel indicator.

Command & Edit

By default, new notebook opens with one cell in **edit** mode. There are two modes for any cell in the notebook: **edit** mode and **command** mode:

This cell is in EDIT mode (green border)

This cell is in COMMAND mode (blue border)



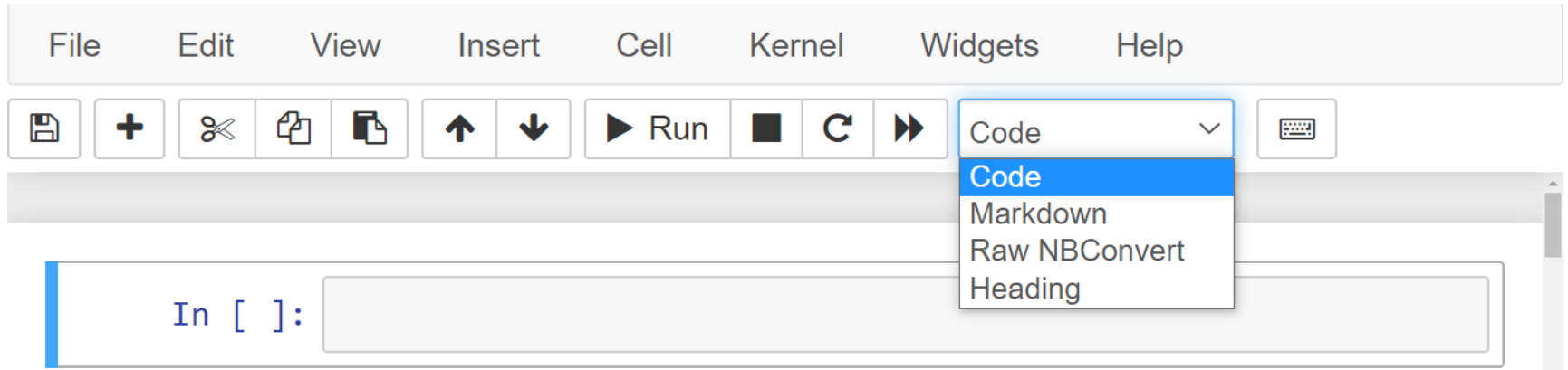
We can switch from **edit** mode to **command** mode by pressing the **Escape** key or clicking on the **green border**



We can switch from **command** mode to **edit** mode to by pressing the **Enter** key or clicking in the cell.

Code/Markdown

In command mode, we can edit the notebook as a whole, but not type into individual cells. The keyboard is mapped to a set of shortcuts to perform notebook and cell actions efficiently. For example, if you are in command mode pressing **h** will show help





Online Resources

For best python resources, please visit:



gknxt.com/python/

Python Bootcamp & Masterclass

Thank You
for your Rating & Review

