


# How to install Python on Windows?

To download Python on your system, you can use the following steps:

- Visit the official download page for Python on the Windows operating system- [LINK](#)
- Locate a reliable version of Python 3, preferably version 3.12.0(latest)
- Choose the correct link for your device from the options provided: either Windows installer (64-bit) or Windows installer (32-bit) and proceed to download the executable file.



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## Download the latest version for Windows

Download Python 3.11.4

Looking for Python with a different OS? Python for [Windows](#), [Linux/UNIX](#), [macOS](#), [Other](#)

Want to help test development versions of Python 3.12? [Prereleases](#), [Docker images](#)



### Active Python Releases

For more information visit the [Python Developer's Guide](#).

Python version	Maintenance status	First released	End of support	Release schedule
3.12	prerelease	2023-10-02 (planned)	2028-10	PEP 693
3.11	bugfix	2022-10-24	2027-10	PEP 664
3.10	security	2021-10-04	2026-10	PEP 619
3.9	security	2020-10-05	2025-10	PEP 596
3.8	security	2019-10-14	2024-10	PEP 569

### Looking for a specific release?

Python releases by version number:

Release version	Release date	Click for more	
<a href="#">Python 3.10.12</a>	June 6, 2023	<a href="#">Download</a>	<a href="#">Release Notes</a>
<a href="#">Python 3.11.4</a>	June 6, 2023	<a href="#">Download</a>	<a href="#">Release Notes</a>
<a href="#">Python 3.7.17</a>	June 6, 2023	<a href="#">Download</a>	<a href="#">Release Notes</a>
<a href="#">Python 3.8.17</a>	June 6, 2023	<a href="#">Download</a>	<a href="#">Release Notes</a>
<a href="#">Python 3.9.17</a>	June 6, 2023	<a href="#">Download</a>	<a href="#">Release Notes</a>
<a href="#">Python 3.10.11</a>	April 5, 2023	<a href="#">Download</a>	<a href="#">Release Notes</a>
<a href="#">Python 3.11.3</a>	April 5, 2023	<a href="#">Download</a>	<a href="#">Release Notes</a>

## Running the Executable Installer

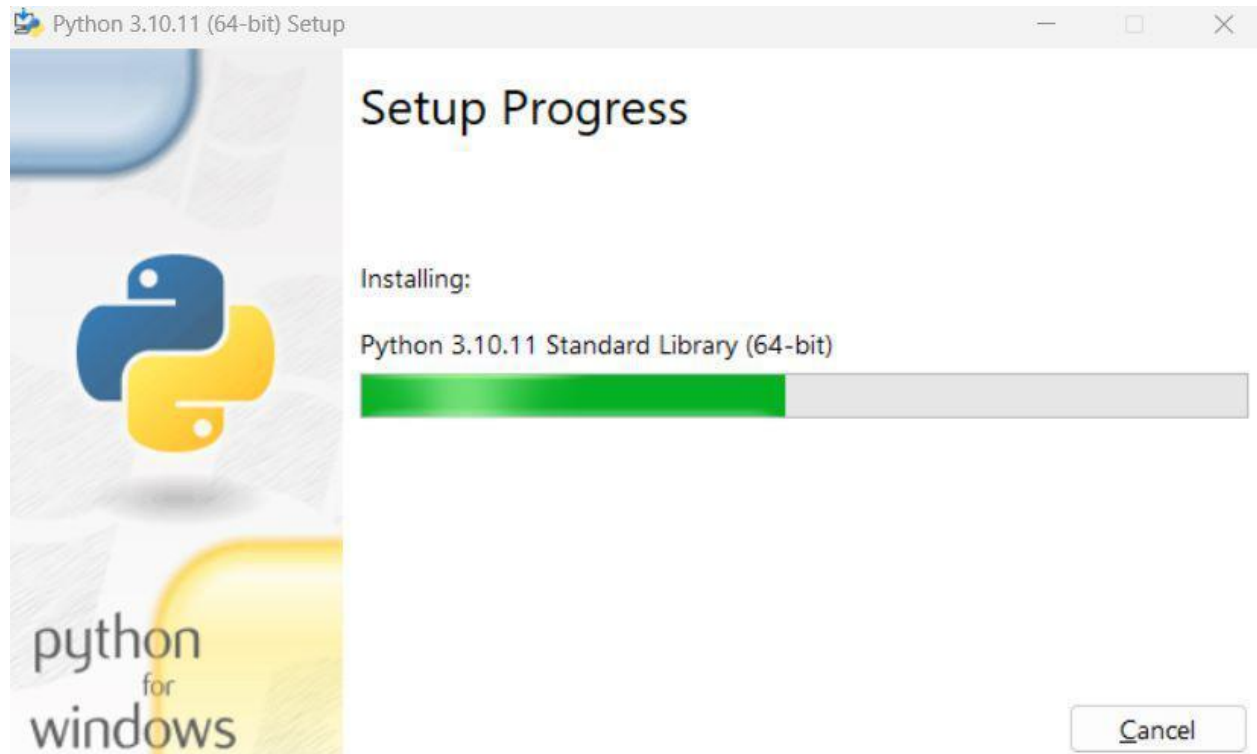
- Once you have downloaded the installer, open the .exe file, such as python-3.10.11-amd64.exe, by double-clicking it to launch the Python installer.

- Choose the option to Install the launcher for all users by checking the corresponding checkbox, so that all users of the computer can access the Python launcher application.
- Enable users to run Python from the command line by checking the Add python.exe to PATH checkbox.



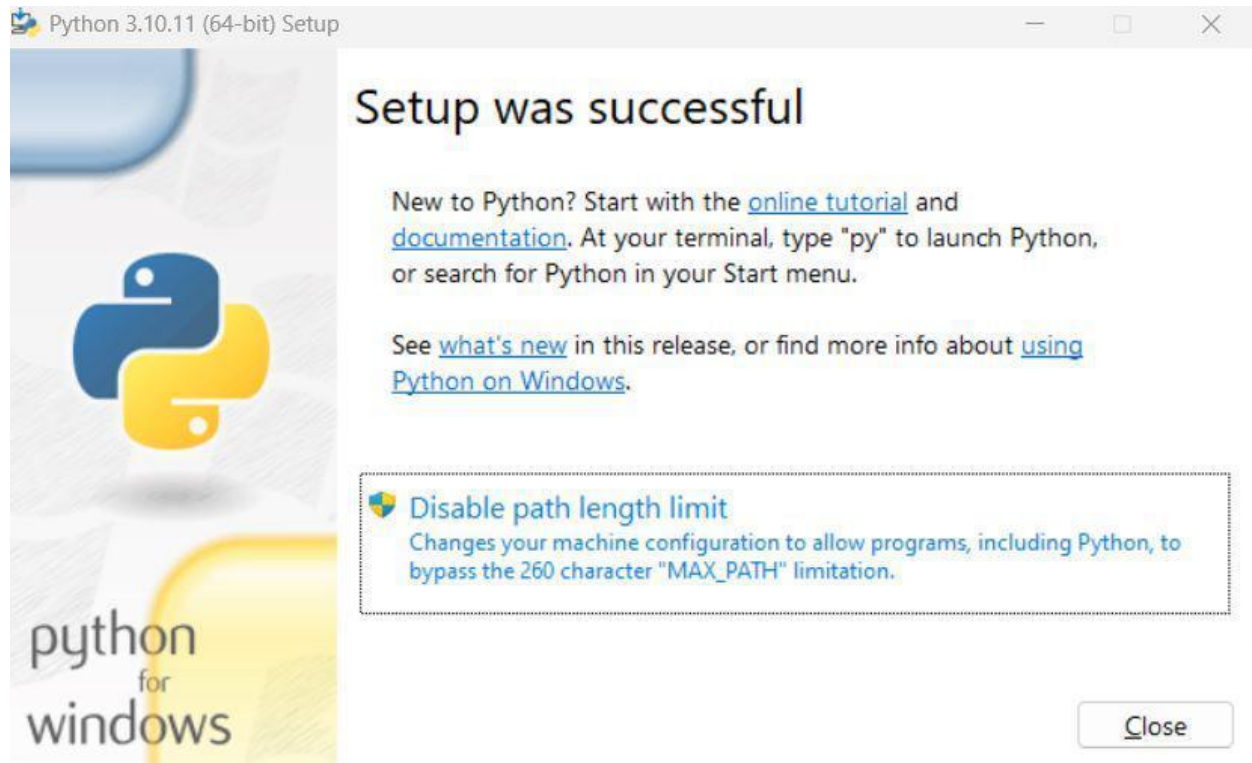
## Setup Progress

After Clicking the Install Now Button the setup will start installing Python on your Windows system. You will see a window like this.



## Final Installer Window

After completing the setup, Python will be installed on your Windows system. You will see a successful message.



## Verify the Installation

Close the window after successful installation. You can check if the installation of Python was successful by using either the command line or the Integrated Development Environment (IDLE), which you may have installed.

To access the command line, click on the Start menu and type "cmd" in the search bar. Then click on Command Prompt.

```
python --version
```

```
C:\Users\ashub>python --version
Python 3.10.11
```

# How to install Jupyter Notebook on Windows?

Jupyter Notebook is an open-source web application that allows you to create and share documents that contain live code, equations, visualizations, and narrative text. Uses include data cleaning and transformation, numerical simulation, statistical modeling, data visualization, machine learning, and much more.

Jupyter has support for over 40 different programming languages and Python is one of them. Python is a requirement (Python 3.3 or greater, or Python 2.7) for installing the Jupyter Notebook itself.

Jupyter Notebook can be installed by using either of the two ways described below:

## 1. Using Anaconda:

Install Python and Jupyter using the Anaconda Distribution, which includes Python, the Jupyter Notebook, and other commonly used packages for scientific computing and data science. To install Anaconda, go through [How to install Anaconda on windows?](#) and follow the instructions provided.

## 2. Using PIP:

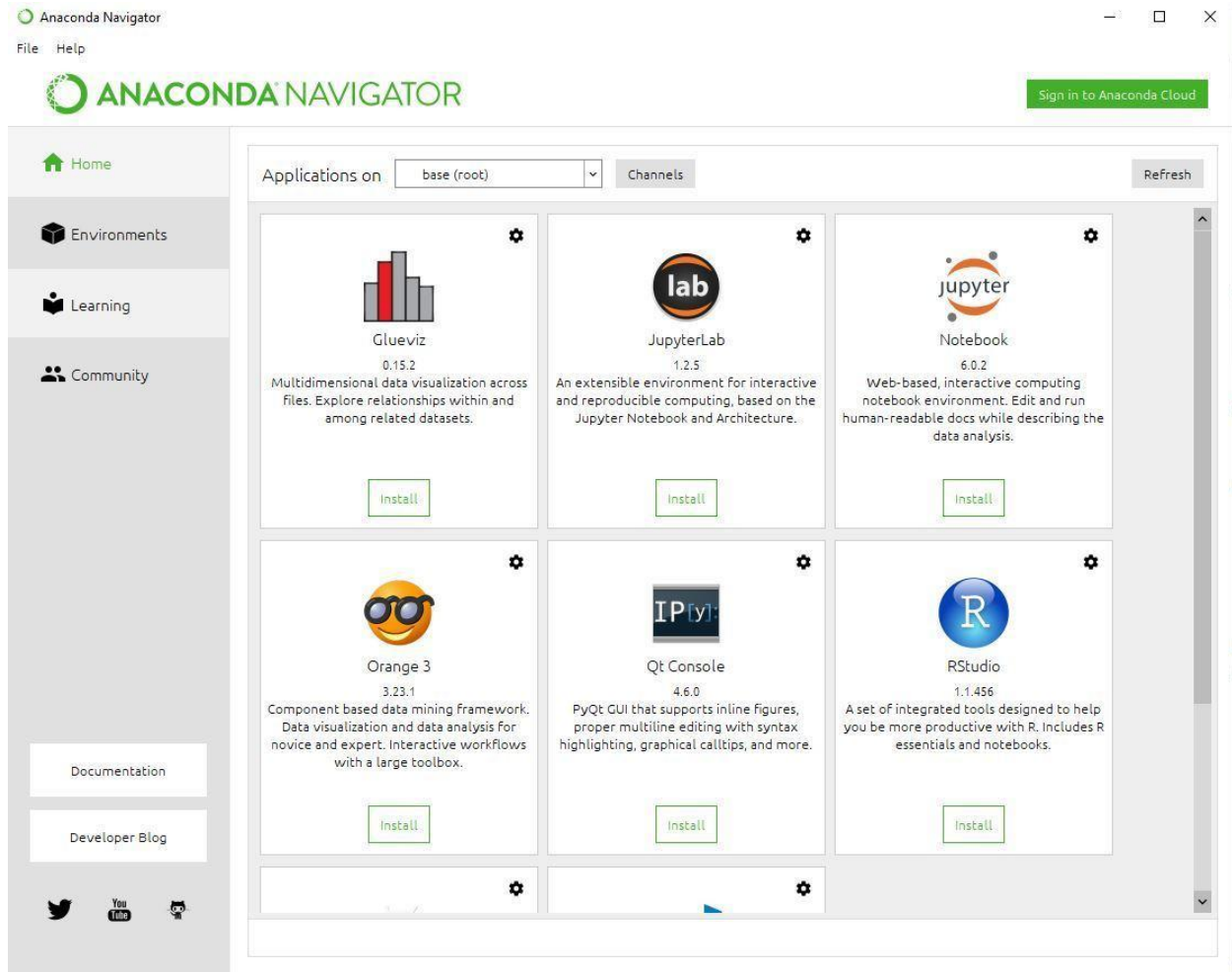
Install Jupyter using the PIP package manager used to install and manage software packages/libraries written in Python. To install pip, go through [How to install PIP on Windows?](#) and follow the instructions provided.

## **Installing Jupyter Notebook using Anaconda:**

Anaconda is an open-source software that contains Jupyter, Spyder, etc. that is used for large data processing, data analytics, heavy scientific computing. Anaconda works for R and python programming language. Spyder (sub-application of Anaconda) is used for python. OpenCV for python will work in Spyder. Package versions are managed by the package management system called conda.

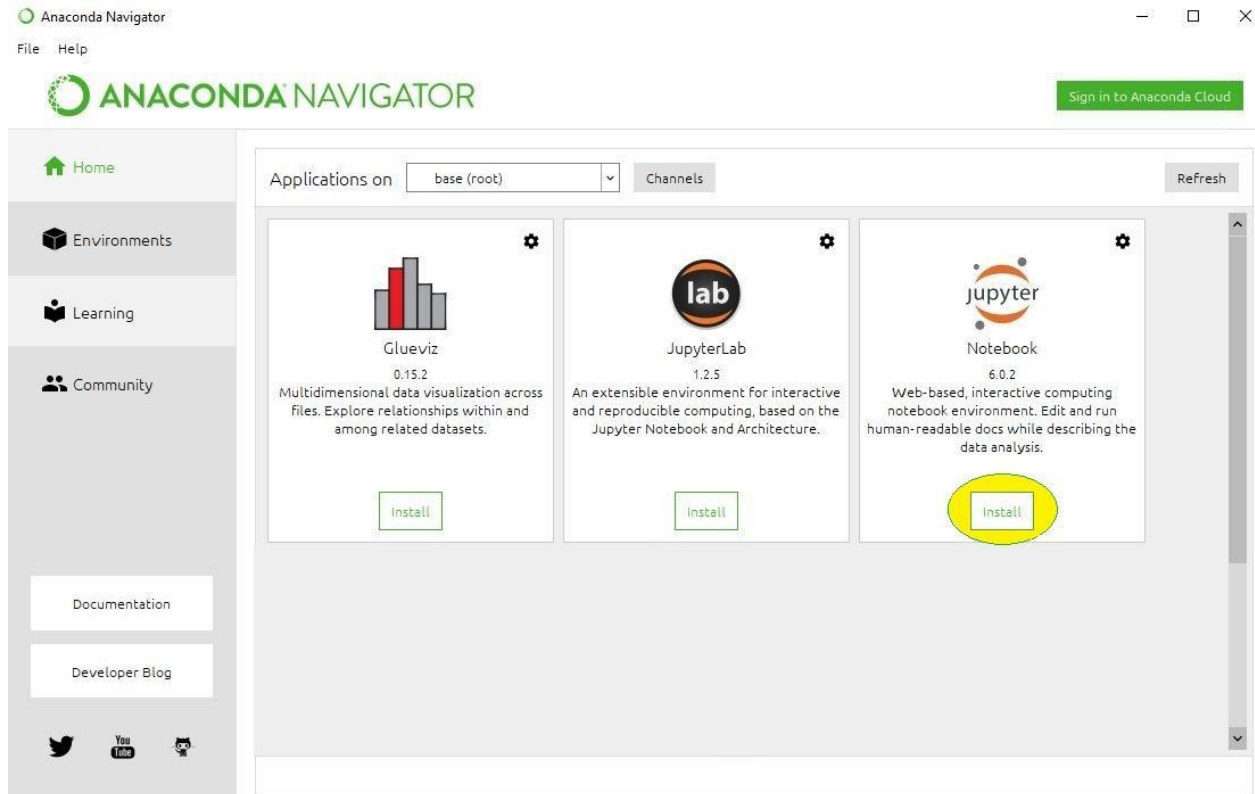
To install Jupyter using Anaconda, just go through the following instructions:

- **Launch Anaconda Navigator:**

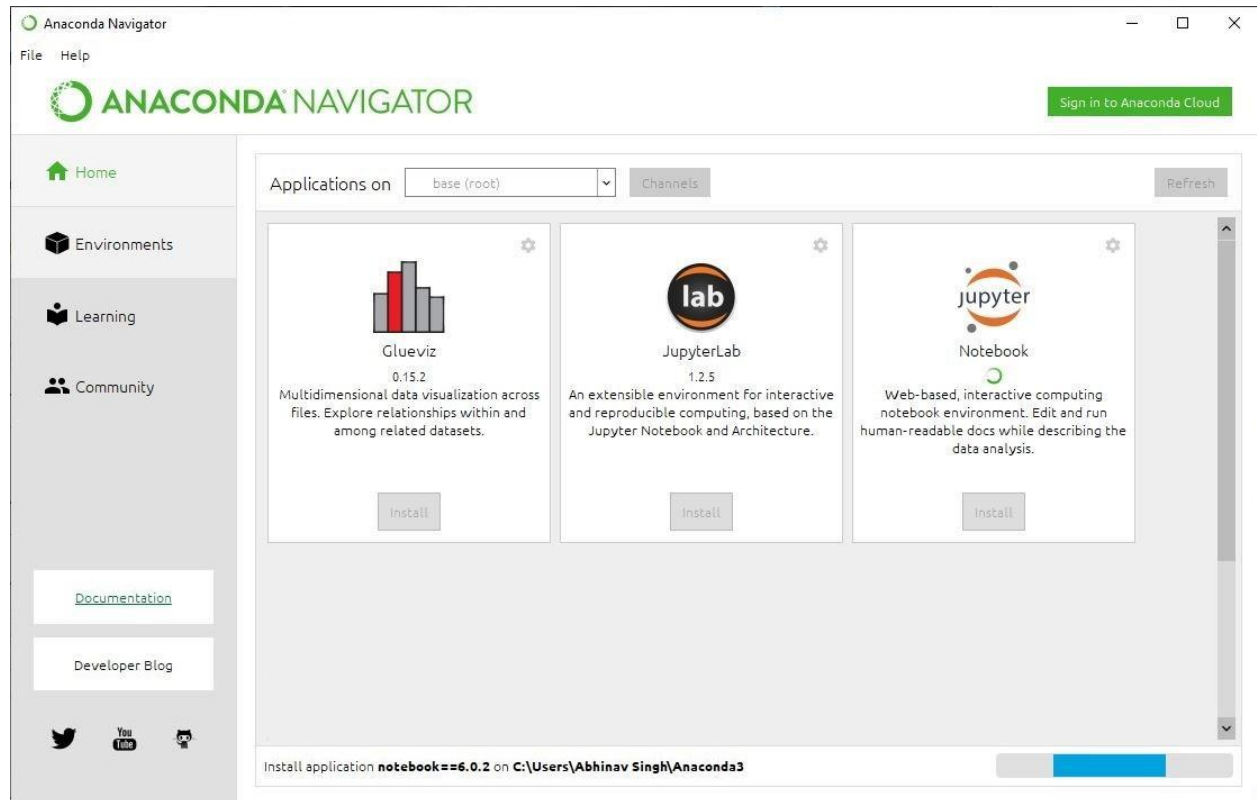


- **Click on the Install Jupyter Notebook Button:**

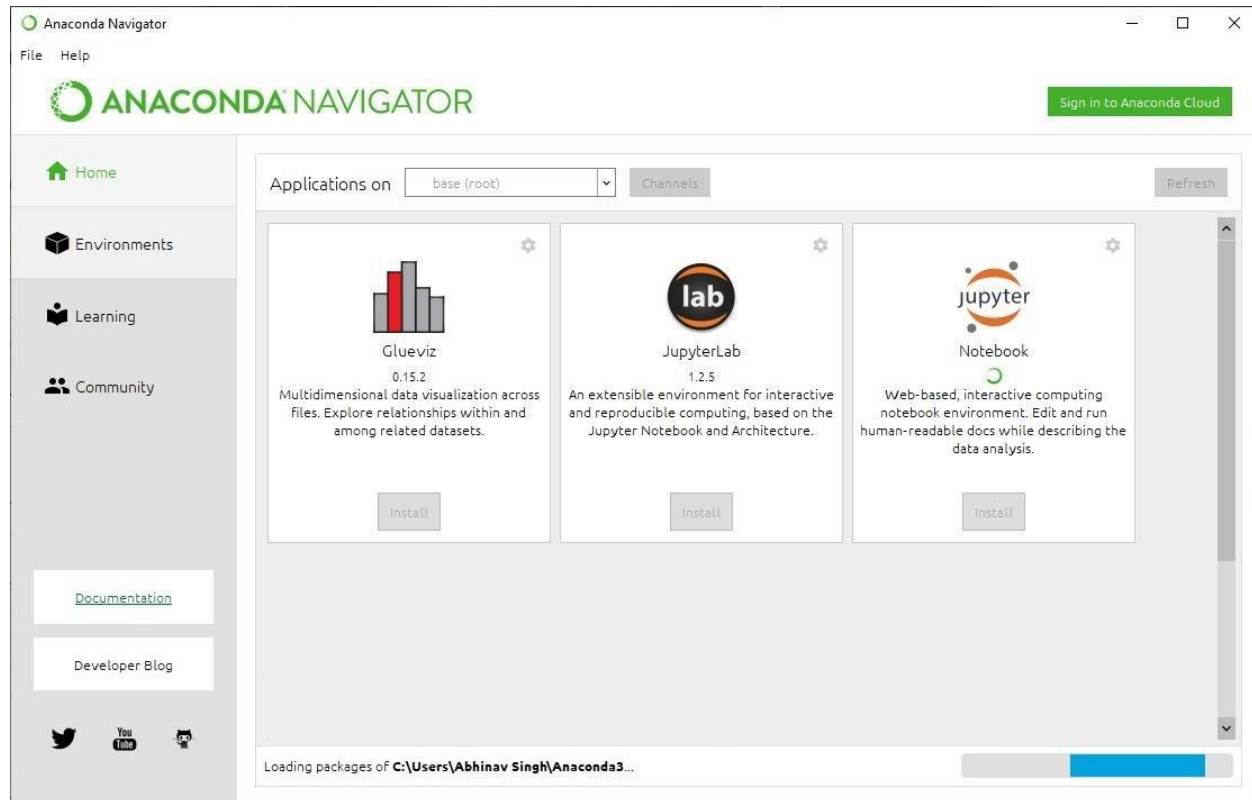




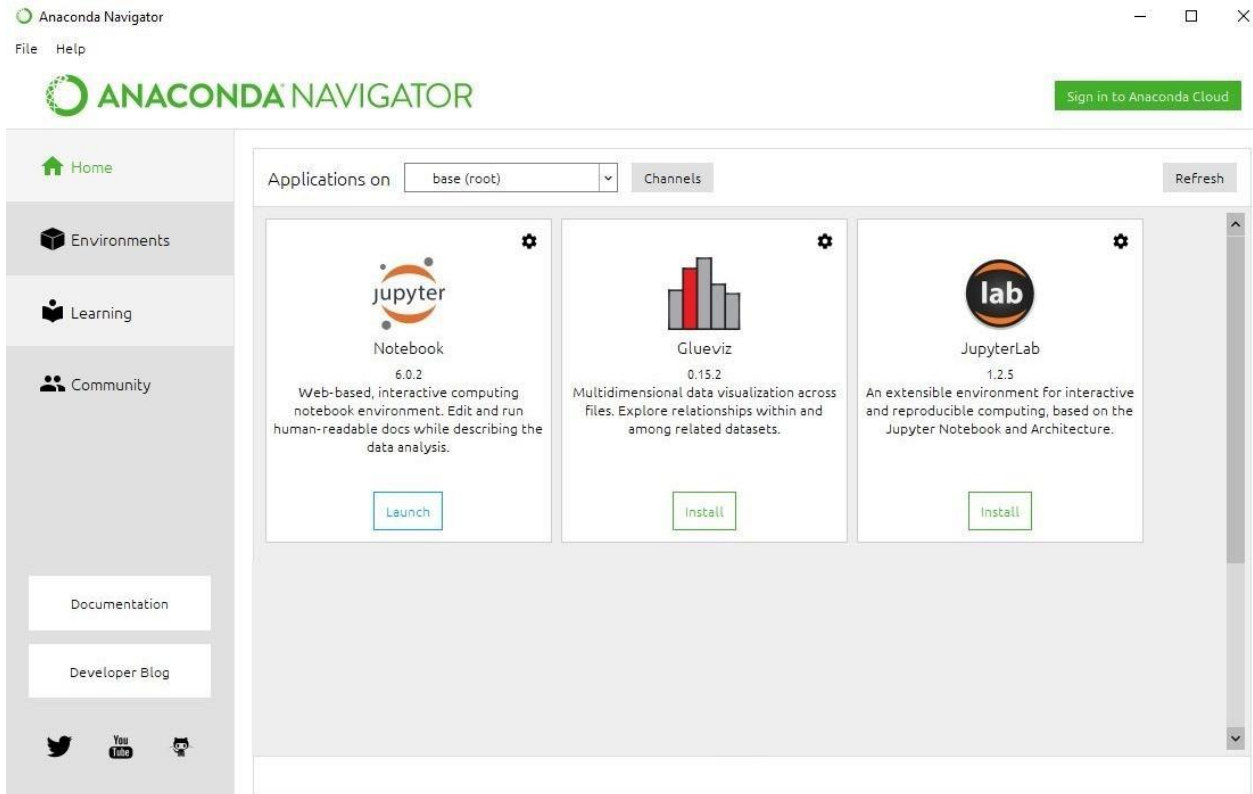
- **Beginning the Installation:**



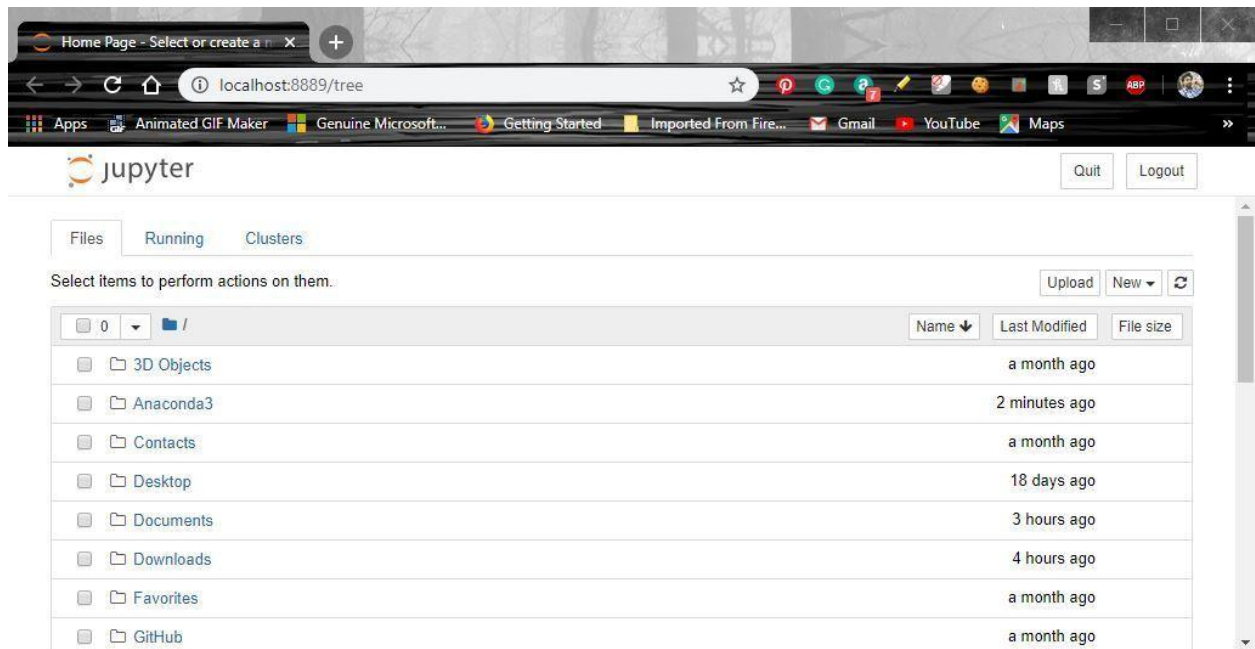
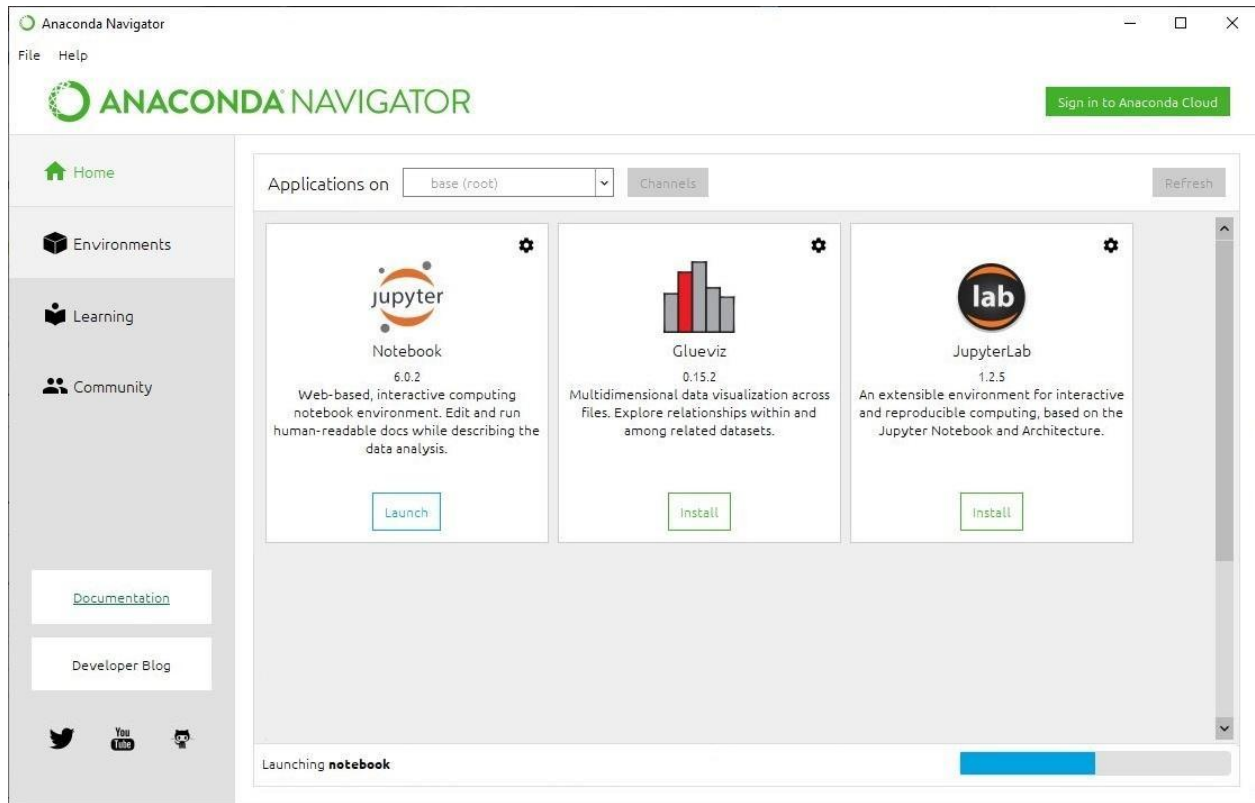
- **Loading Packages:**



- **Finished Installation:**



- **Launching Jupyter:**



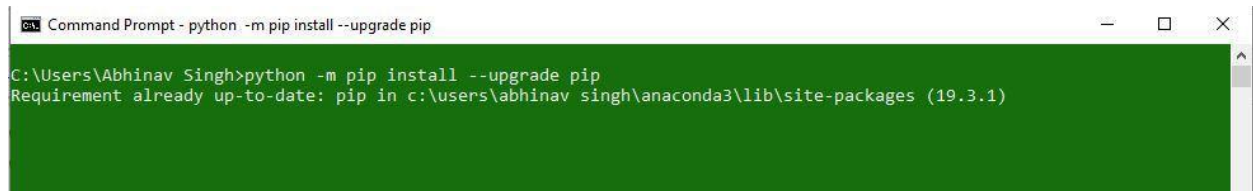
## Installing Jupyter Notebook using pip:

**PIP** is a package management system used to install and manage software packages/libraries written in Python. These files are stored in a large “on-line repository” termed as Python Package Index (PyPI).

pip uses PyPI as the default source for packages and their dependencies.

To install Jupyter using pip, we need to first check if pip is updated in our system. Use the following command to update pip:

```
python -m pip install --upgrade pip
```



```
Command Prompt - python -m pip install --upgrade pip
C:\Users\Abhinav Singh>python -m pip install --upgrade pip
Requirement already up-to-date: pip in c:\users\abhinav singh\anaconda3\lib\site-packages (19.3.1)
```

After updating the pip version, follow the instructions provided below to install Jupyter:

- **Command to install Jupyter:**

```
python -m pip install jupyter
```

- **Beginning Installation:**

```
Command Prompt - python -m pip install jupyter

C:\Users\Abhinav Singh>python -m pip install jupyter
Collecting jupyter
  Using cached https://files.pythonhosted.org/packages/83/df/0f5dd132200728a86190397e1ea87cd76244e42d39ec5e88efd25b2abd7e/jupyter-1.0.0-py2.py3-none-any.whl
Collecting ipykernel
  Using cached https://files.pythonhosted.org/packages/e1/92/8fec943b5b81078399f969f00557804d884c96fcd0bc296e81a2ed4fd270/ipykernel-5.1.3-py3-none-any.whl
Collecting jupyter-console
  Using cached https://files.pythonhosted.org/packages/0a/89/742fa5a80b552ffcb6a8922712697c6e6828aee7b91ee4ae2b79f00f8401/jupyter_console-6.1.0-py2.py3-none-any.whl
Collecting nbconvert
  Using cached https://files.pythonhosted.org/packages/79/6c/05a569e9f703d18aacb89b7ad6075b404e8a4afde2c26b73ca77bb644b1
```

- **Downloading Files and Data:**

```
Command Prompt - python -m pip install jupyter

  Using cached https://files.pythonhosted.org/packages/e9/97/55e575a5b49e5c3df9eb3c116c61021d7badf556c816be13bbd7baf55234/jedi-0.15.2-py2.py3-none-any.whl
Collecting colorama; sys_platform == "win32"
  Using cached https://files.pythonhosted.org/packages/c9/dc/45cdef1b4d119eb96316b3117e6d5708a08029992b2fee2c143c7a0a5cc5/colorama-0.4.3-py2.py3-none-any.whl
Requirement already satisfied: setuptools>=18.5 in c:\users\abhinav singh\anaconda3\lib\site-packages (from ipython>=5.0.0->ipykernel->jupyter) (44.0.0.post20200106)
Collecting pickleshare
  Using cached https://files.pythonhosted.org/packages/9a/41/220f49aaaa88bc6fa6cba8d05ecf24676326156c23b991e80b3f2fc24c77/pickleshare-0.7.5-py2.py3-none-any.whl
Collecting wcwidth
  Downloading https://files.pythonhosted.org/packages/58/b4/4850a0ccc6f567cc0ebe7060d20ffd4258b8210efadc259da62dc6ed9c65/wcwidth-0.1.8-py2.py3-none-any.whl
Requirement already satisfied: jsonschema<2.5.0, >=2.4 in c:\users\abhinav singh\anaconda3\lib\site-packages (from nbformat>=4.4->nbconvert->jupyter) (3.2.0)
Requirement already satisfied: MarkupSafe>=0.23 in c:\users\abhinav singh\anaconda3\lib\site-packages (from jinja2>=2.4->nbconvert->jupyter) (1.1.1)
Collecting webencodings
  Using cached https://files.pythonhosted.org/packages/f4/24/2a3e3df732393fed8b3ebf2ec078f05546de641fe1b667ee316ec1dcf3b7/webencodings-0.5.1-py2.py3-none-any.whl
Collecting pywinpty>=0.5; os_name == "nt"
  Downloading https://files.pythonhosted.org/packages/7b/de/c69772738f10140d531b46b7462fc1dccba4175987daaa851a8cda2326251/pywinpty-0.5.7-cp37-cp37m-win_amd64.whl (1.3MB)
  1.3MB 547kB/s
Collecting parso>=0.5.2
  Downloading https://files.pythonhosted.org/packages/9b/b0/90353a5ece0987279837835224dead0c424833a224195683e188d384e06b/parso-0.5.2-py2.py3-none-any.whl (99kB)
```

- **Installing Packages:**



```
Command Prompt - python -m pip install jupyter
Requirement already satisfied: more-itertools in c:\users\abhinav singh\anaconda3\lib\site-packages (from zipp>=0.5->importlib-metadata; python_version < "3.8")
Building wheels for collected packages: pandocfilters, prometheus-client, backcall
  Building wheel for pandocfilters (setup.py) ... done
  Created wheel for pandocfilters: filename=pandocfilters-1.4.2-cp37-none-any.whl size=7862 sha256=849bce8e4908d819b25c81ed408862aad99063021d407852b57cbfb02e7f881c
  Stored in directory: C:\Users\Abhinav Singh\AppData\Local\pip\Cache\wheels\39\01\56\f1b08a6275acc59e846fa4c1e1b65dbc1919f20157d9e66c20
  Building wheel for prometheus-client (setup.py) ... done
  Created wheel for prometheus-client: filename=prometheus_client-0.7.1-cp37-none-any.whl size=41407 sha256=11607fb79180270892bf9c160976b5ce32d012870790efafa28ff792339b158d
  Stored in directory: C:\Users\Abhinav Singh\AppData\Local\pip\Cache\wheels\1c\54\34\fd47cd9b308826cc4292b54449c1899a30251ef3b506bc91ea
  Building wheel for backcall (setup.py) ... done
  Created wheel for backcall: filename=backcall-0.1.0-cp37-none-any.whl size=10418 sha256=76f4f1869e8c47685c7023872dca8fb9d94cd44119b1a4324023c65399ff1925e
  Stored in directory: C:\Users\Abhinav Singh\AppData\Local\pip\Cache\wheels\98\b0\dd\29e28ff615af3dda4c67cab719dd51357597eabff926976b45
Successfully built pandocfilters prometheus-client backcall
Installing collected packages: pyzmq, tornado, jupyter-client, wcwidth, prompt-toolkit, backcall, parso, jedi, colorama, pygments, pickleshare, ipython, ipykernel, jupyter-console, pandocfilters, entrypoints, defusedxml, testpath, webencodings, bleach, mistune, nbconvert, qtconsole, Send2Trash, pywinpty, terminado, prometheus-client, notebook, widgetsnbextension, ipywidgets, jupyter
```

## ● Finished Installation:

```
Command Prompt
Building wheel for pandocfilters (setup.py) ... done
  Created wheel for pandocfilters: filename=pandocfilters-1.4.2-cp37-none-any.whl size=7862 sha256=849bce8e4908d819b25c81ed408862aad99063021d407852b57cbfb02e7f881c
  Stored in directory: C:\Users\Abhinav Singh\AppData\Local\pip\Cache\wheels\39\01\56\f1b08a6275acc59e846fa4c1e1b65dbc1919f20157d9e66c20
  Building wheel for prometheus-client (setup.py) ... done
  Created wheel for prometheus-client: filename=prometheus_client-0.7.1-cp37-none-any.whl size=41407 sha256=11607fb79180270892bf9c160976b5ce32d012870790efafa28ff792339b158d
  Stored in directory: C:\Users\Abhinav Singh\AppData\Local\pip\Cache\wheels\1c\54\34\fd47cd9b308826cc4292b54449c1899a30251ef3b506bc91ea
  Building wheel for backcall (setup.py) ... done
  Created wheel for backcall: filename=backcall-0.1.0-cp37-none-any.whl size=10418 sha256=76f4f1869e8c47685c7023872dca8fb9d94cd44119b1a4324023c65399ff1925e
  Stored in directory: C:\Users\Abhinav Singh\AppData\Local\pip\Cache\wheels\98\b0\dd\29e28ff615af3dda4c67cab719dd51357597eabff926976b45
Successfully built pandocfilters prometheus-client backcall
Installing collected packages: pyzmq, tornado, jupyter-client, wcwidth, prompt-toolkit, backcall, parso, jedi, colorama, pygments, pickleshare, ipython, ipykernel, jupyter-console, pandocfilters, entrypoints, defusedxml, testpath, webencodings, bleach, mistune, nbconvert, qtconsole, Send2Trash, pywinpty, terminado, prometheus-client, notebook, widgetsnbextension, ipywidgets, jupyter
Successfully installed Send2Trash-1.5.0 backcall-0.1.0 bleach-3.1.0 colorama-0.4.3 defusedxml-0.6.0 entrypoints-0.3 ipykernel-5.1.3 ipython-7.11.1 ipywidgets-7.5.1 jedi-0.15.2 jupyter-1.0.0 jupyter-client-5.3.4 jupyter-console-6.1.0 mistune-0.8.4 nbconvert-5.6.1 notebook-6.0.2 pandocfilters-1.4.2 parso-0.5.2 pickleshare-0.7.5 prometheus-client-0.7.1 prompt-toolkit-3.0.2 pygments-2.5.2 pywinpty-0.5.7 pyzmq-18.1.1 qtconsole-4.6.0 terminado-0.8.3 testpath-0.4.4 tornado-6.0.3 wcwidth-0.1.8 webencodings-0.5.1 widgetsnbextension-3.5.1
C:\Users\Abhinav Singh>
```

## Launching Jupyter:



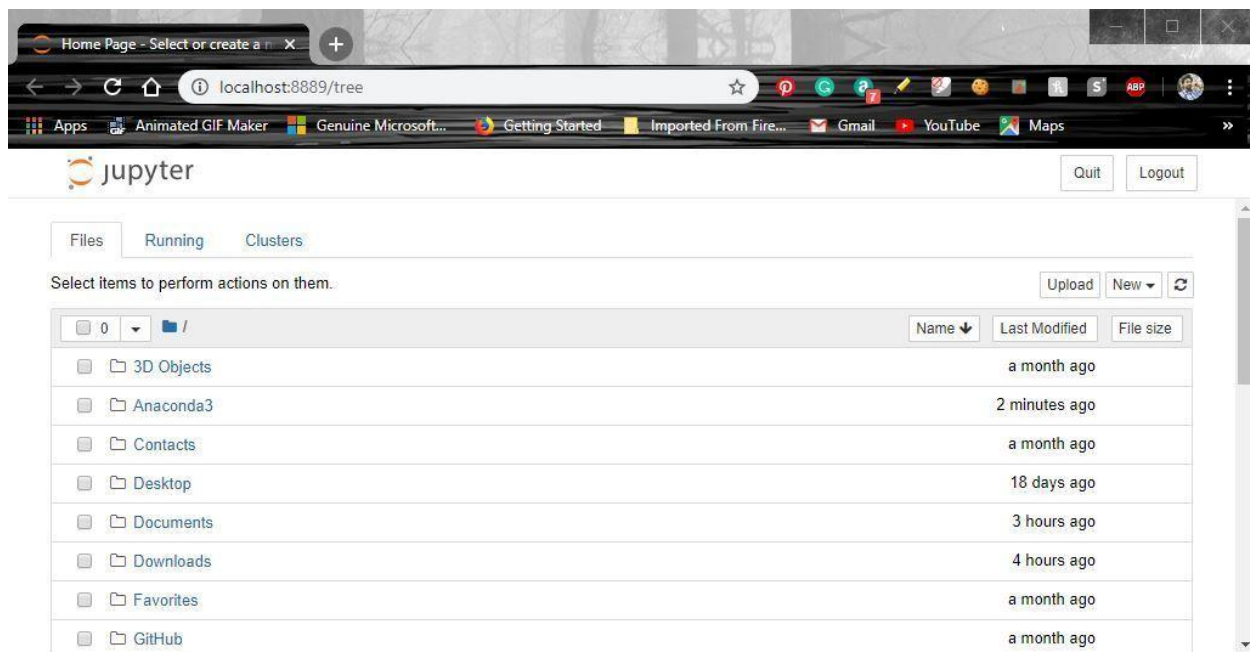
Use the following command to launch Jupyter using command-line:

```
jupyter notebook
```

```
Command Prompt - jupyter notebook

C:\Users\Abhinav Singh>jupyter notebook
[I 17:52:47.792 NotebookApp] Serving notebooks from local directory: C:\Users\Abhinav Singh
[I 17:52:47.792 NotebookApp] The Jupyter Notebook is running at:
[I 17:52:47.792 NotebookApp] http://localhost:8888/?token=325083ca519c9570938f8b852606778d5cd7100fc5491f4d
[I 17:52:47.792 NotebookApp] or http://127.0.0.1:8888/?token=325083ca519c9570938f8b852606778d5cd7100fc5491f4d
[I 17:52:47.792 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 17:52:47.825 NotebookApp]

To access the notebook, open this file in a browser:
file:///C:/Users/Abhinav%20Singh/AppData/Roaming/jupyter/runtime/nbserver-4908-open.html
Or copy and paste one of these URLs:
http://localhost:8888/?token=325083ca519c9570938f8b852606778d5cd7100fc5491f4d
or http://127.0.0.1:8888/?token=325083ca519c9570938f8b852606778d5cd7100fc5491f4d
```



# How to install Python & Jupyter Notebook on Mac?

- Install Python -  
<https://www.dataquest.io/blog/installing-python-on-mac/>
- Install Jupyter Notebook -  
<https://medium.com/@vinitasilaparasetty/how-to-install-jupyter-notebook-on-mac-f2daca0aa7b2>