

How to install Jupyter Notebook in 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:

- **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.
- **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.

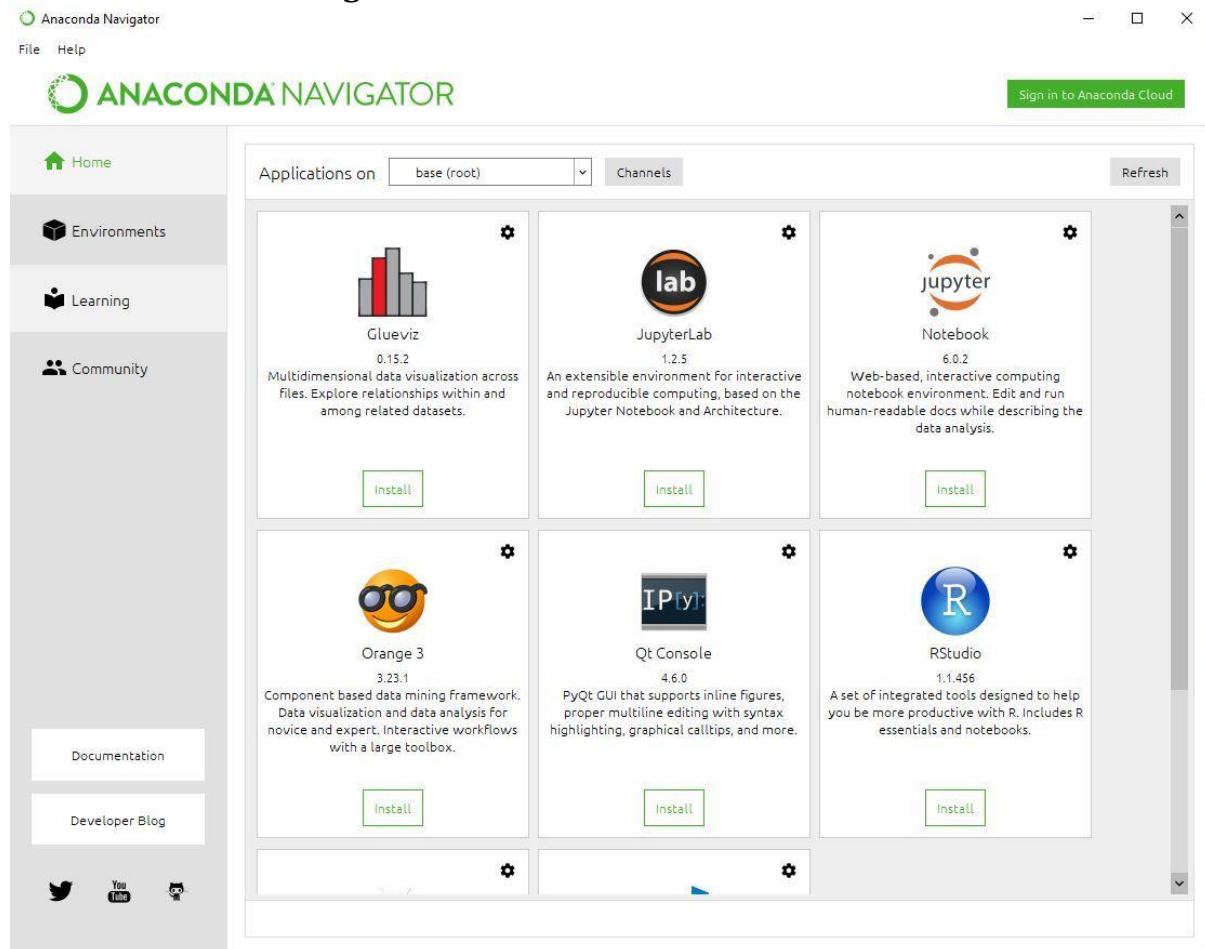
Installing Jupyter Notebook using Anaconda:

Anaconda is an open-source software that contains Jupyter, spyder, etc that are 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.

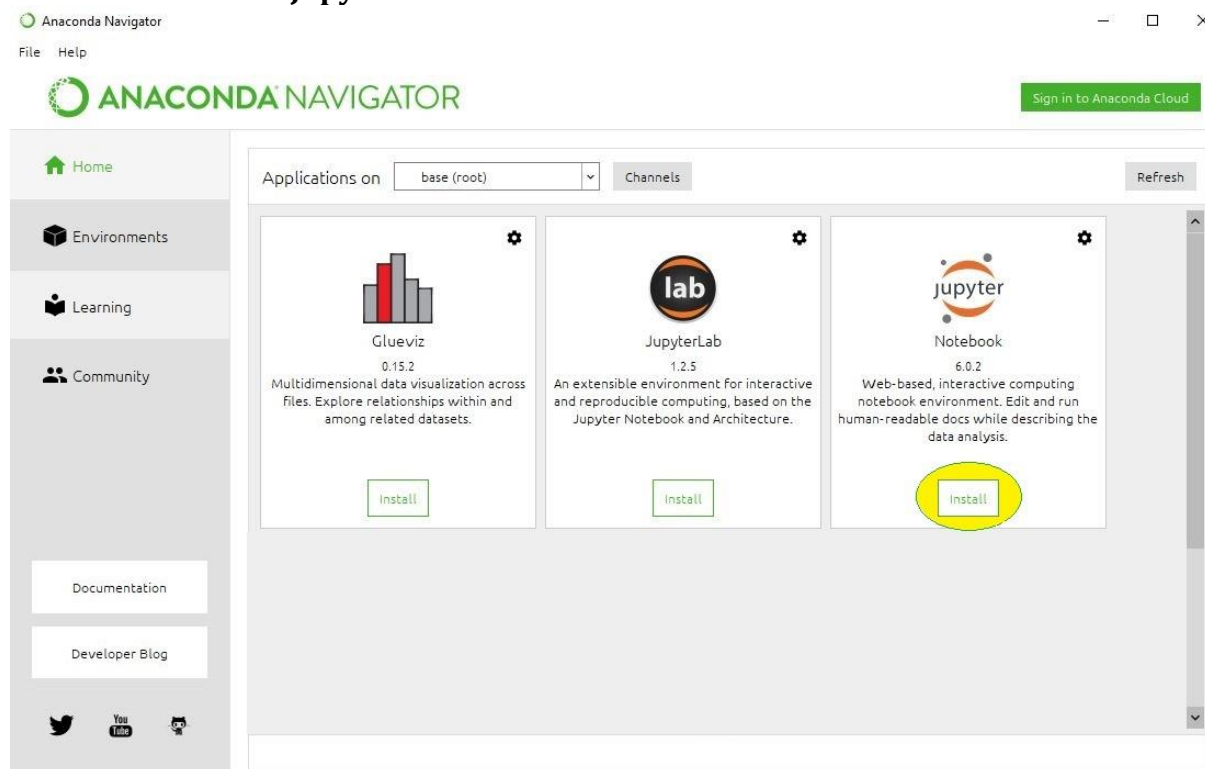
To install Jupyter using Anaconda, just go through the following instructions:

ADVERTISING

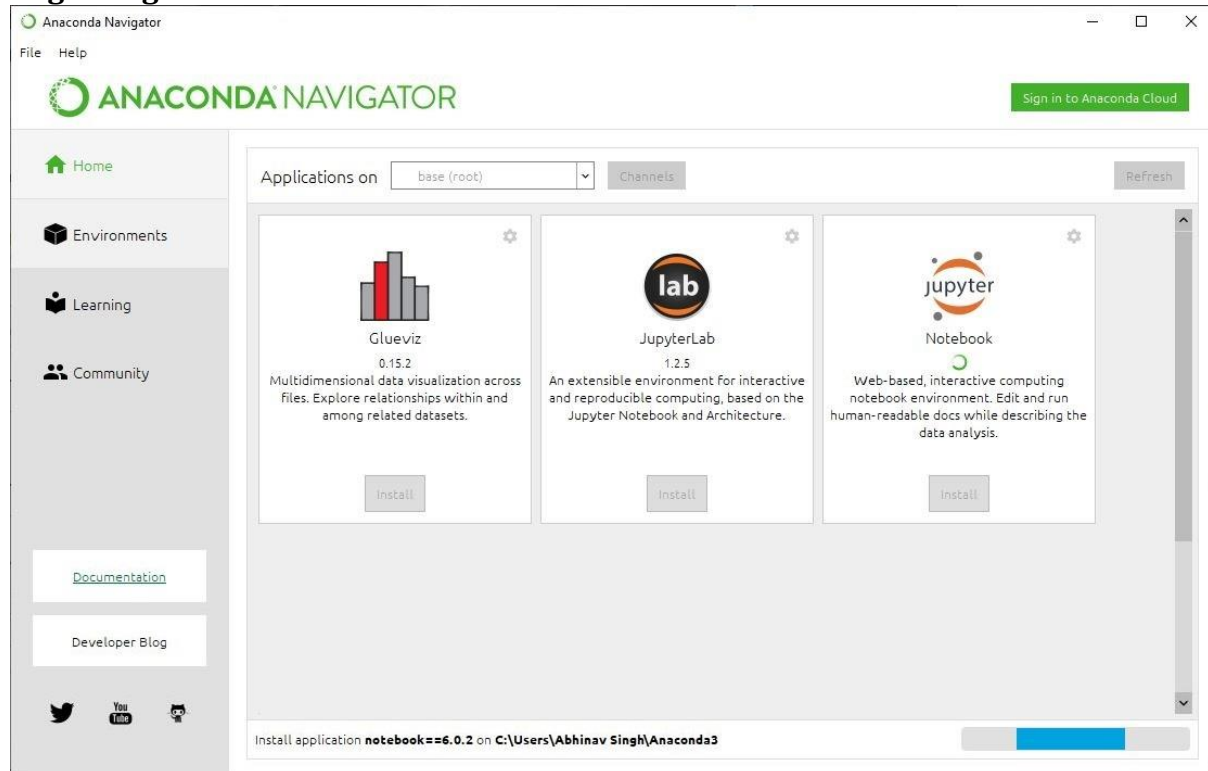
- **Launch Anaconda Navigator:**



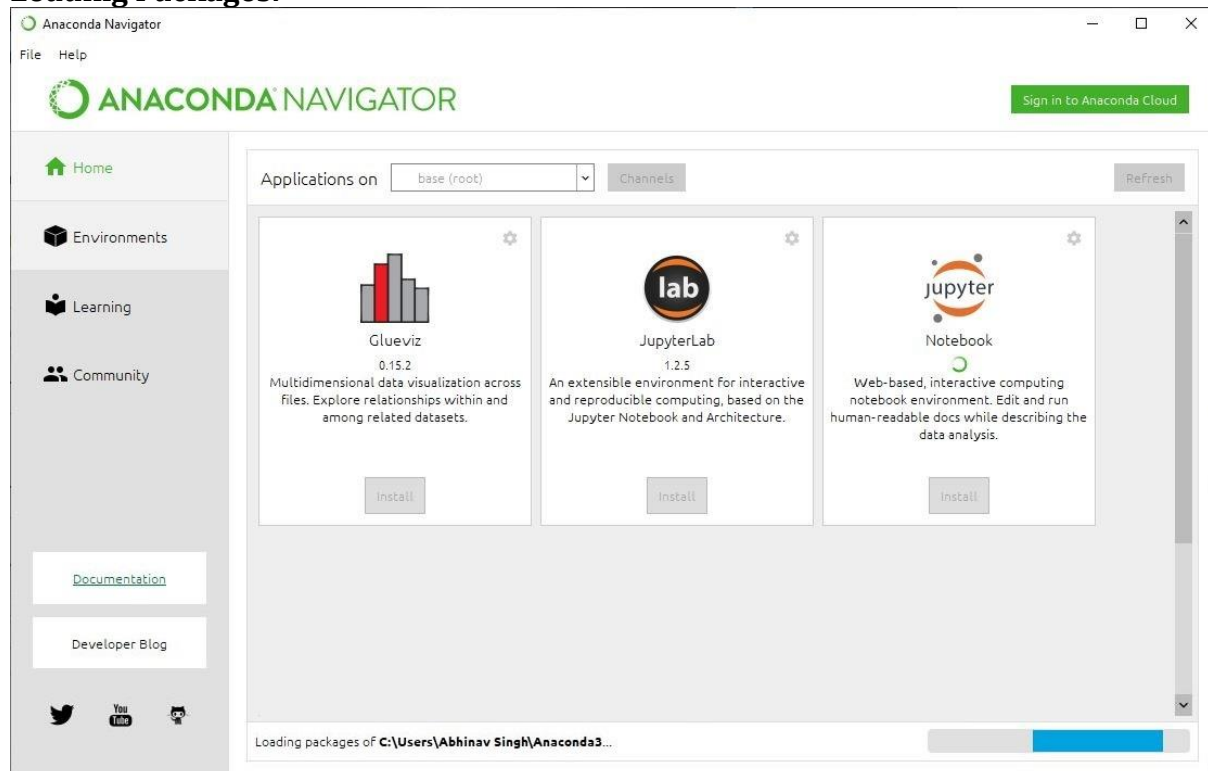
- **Click on the Install Jupyter Notebook Button:**



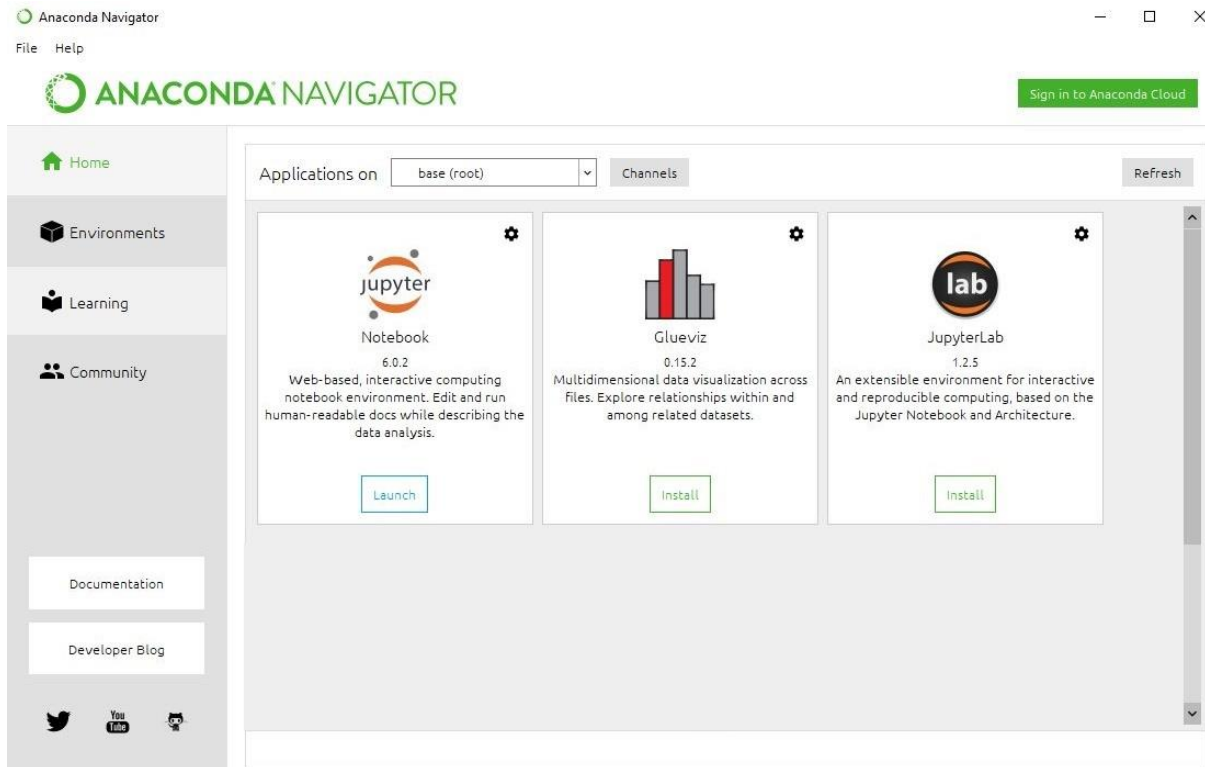
- **Beginning the Installation:**



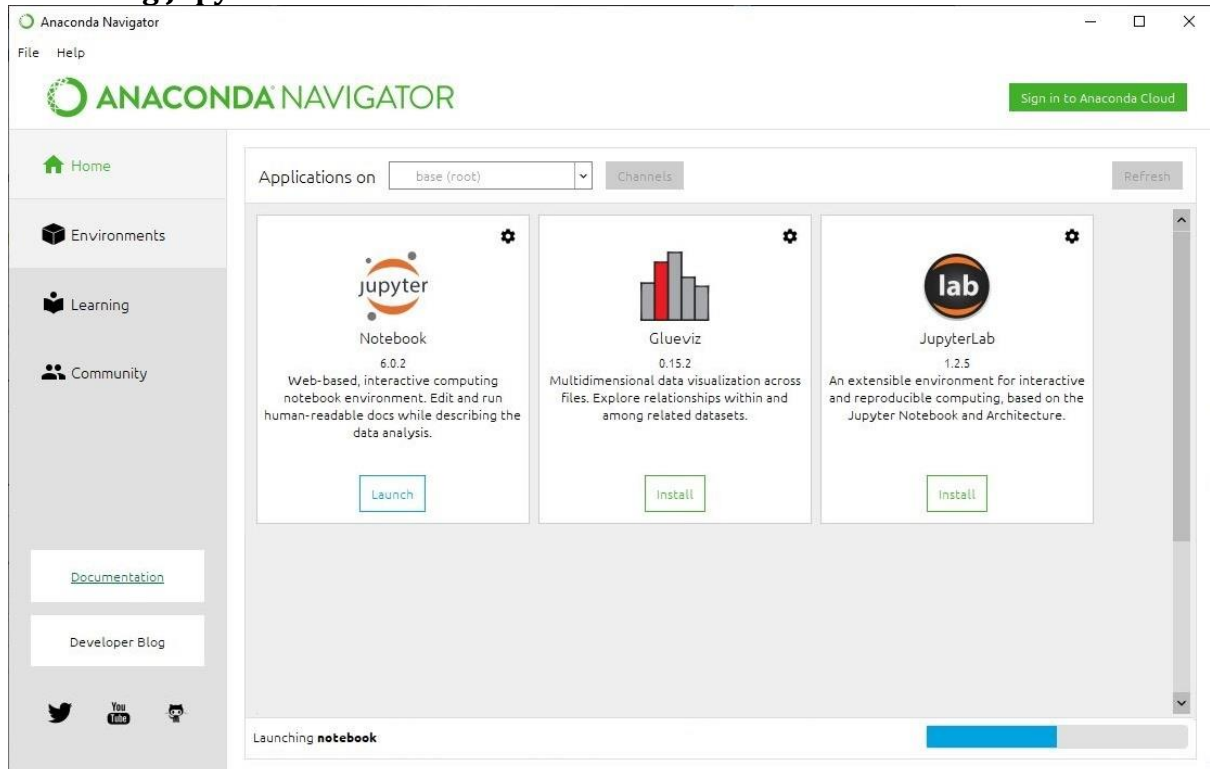
- **Loading Packages:**

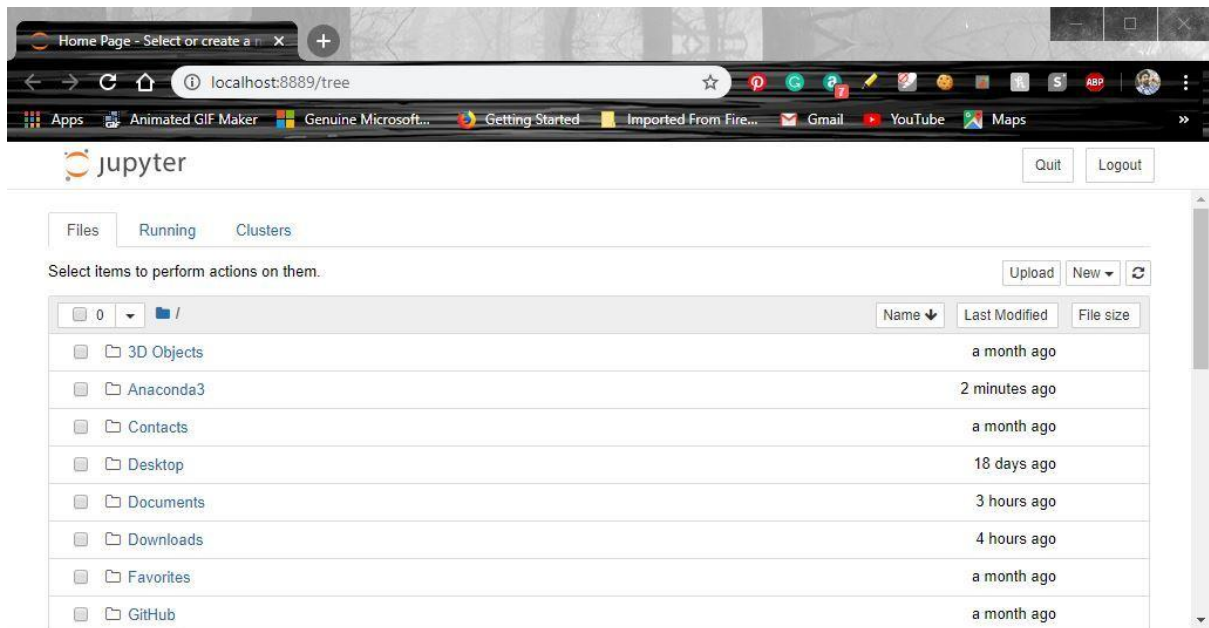


- **Finished Installation:**



Launching Jupyter:





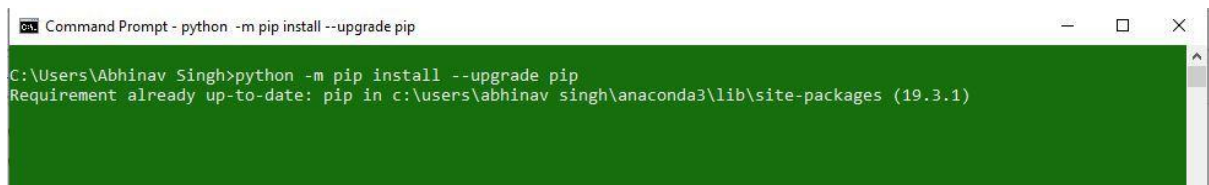
Installing Jupyter Notebook using pip:

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:

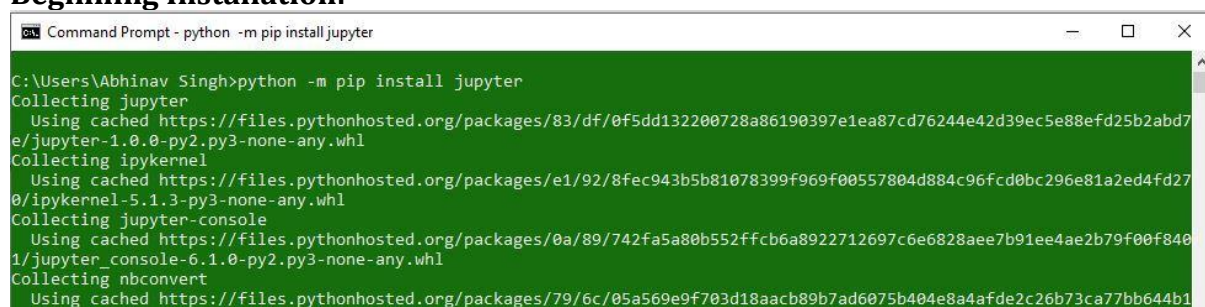
```
python -m pip install --upgrade pip
```



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

- **Command to install Jupyter:**
- `python -m pip install jupyter`

- **Beginning Installation:**



- **Downloading Files and Data:**

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

Using cached https://files.pythonhosted.org/packages/e9/97/55e575a5b49e5c3df9eb3c116c61021d7badf556c816be13bbd7baf5523
4/jedi-0.15.2-py2.py3-none-any.whl
Collecting colorama; sys_platform == "win32"
Using cached https://files.pythonhosted.org/packages/c9/dc/45cdef1b4d119eb96316b3117e6d5708a08029992b2fee2c143c7a0a5cc
5/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/41/220f49aaea88bc6fa6c8a8d05ecf24676326156c23b991e80b3f2c24c7
7/pickleshare-0.7.5-py2.py3-none-any.whl
Collecting wcwidth
Downloading https://files.pythonhosted.org/packages/58/b4/4850a0ccc6f567cc0ebe7060d20ffcd4258b8210efadc259da62dc6ed9c65
/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 nbform
at>=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/f4/24/2a3e3df732393fed8b3ebf2ec078f05546de641fe1b667ee316ec1dcf3b
7/webencodings-0.5.1-py2.py3-none-any.whl
Collecting pywinpty>=0.5; os_name == "nt"
Downloading https://files.pythonhosted.org/packages/7b/de/c69772738f10140d531b46b7462fc1dccb4175987daaa851a8cda2326251
/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-iter-tools in c:\users\abhinav singh\anaconda3\lib\site-packages (from zipp>=0.5->imp
ortlib-metadata; python_version < "3.8"->jsonschema=2.5.0,>=2.4->nbformat>=4.4->nbconvert->jupyter) (8.0.2)
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=849bce8e4908d819b25c8
1ed408862aad99063021d407852b57cbfb02e7f881c
Stored in directory: C:\Users\Abhinav Singh\AppData\Local\pip\Cache\wheels\39\01\56\f1b08a6275acc59e846fa4c1e1b65dbc19
19f20157d9e66c20
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=11607fb79180
270892bf9c160976b5ce32d012870790efafa28ff792339b158d
Stored in directory: C:\Users\Abhinav Singh\AppData\Local\pip\Cache\wheels\1c\54\34\fd47cd9b308826cc4292b54449c1899a30
251ef3b506bc91ea
Building wheel for backcall (setup.py) ... done
Created wheel for backcall: filename=backcall-0.1.0-cp37-none-any.whl size=10418 sha256=76f4f1869e8c47685c7023872dca8f
bd94cd44119b1a4324023c65399ff1925e
Stored in directory: C:\Users\Abhinav Singh\AppData\Local\pip\Cache\wheels\98\b0\dd\29e28ff615af3dda4c67cab719dd513575
97eabff926976b45
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, webencodi
ngs, bleach, mistune, nbconvert, qtconsole, Send2Trash, pywinpty, terminado, prometheus-client, notebook, widgetsnexten
sion, 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=849bce8e4908d819b25c8
1ed408862aad99063021d407852b57cbfb02e7f881c
Stored in directory: C:\Users\Abhinav Singh\AppData\Local\pip\Cache\wheels\39\01\56\f1b08a6275acc59e846fa4c1e1b65dbc19
19f20157d9e66c20
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=11607fb79180
270892bf9c160976b5ce32d012870790efafa28ff792339b158d
Stored in directory: C:\Users\Abhinav Singh\AppData\Local\pip\Cache\wheels\1c\54\34\fd47cd9b308826cc4292b54449c1899a30
251ef3b506bc91ea
Building wheel for backcall (setup.py) ... done
Created wheel for backcall: filename=backcall-0.1.0-cp37-none-any.whl size=10418 sha256=76f4f1869e8c47685c7023872dca8f
bd94cd44119b1a4324023c65399ff1925e
Stored in directory: C:\Users\Abhinav Singh\AppData\Local\pip\Cache\wheels\98\b0\dd\29e28ff615af3dda4c67cab719dd513575
97eabff926976b45
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, webencodi
ngs, bleach, mistune, nbconvert, qtconsole, Send2Trash, pywinpty, terminado, prometheus-client, notebook, widgetsnexten
sion, 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 ipyk
ernel-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-t
oolkit-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 wcw
idth-0.1.8 webencodings-0.5.1 widgetsnextension-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
```

