

A GUIDE TO INSTALLING QISKIT

[Install Anaconda Distribution on Windows](#)

[Install Jupyter Notebook in Anaconda.](#)

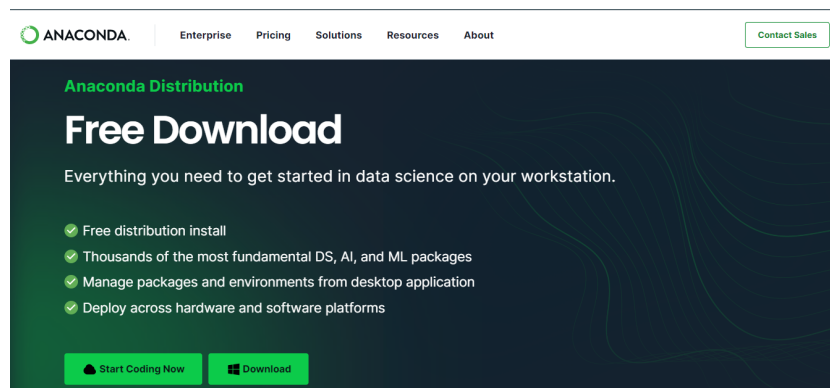
[Install Qiskit in Anaconda](#)

Install Anaconda Distribution on Windows

1. Download and install Anaconda:

Video Tutorial: <https://youtu.be/FTkUcSicRIA>

Head over to <https://www.anaconda.com/download#downloads> and install the latest version of Anaconda.

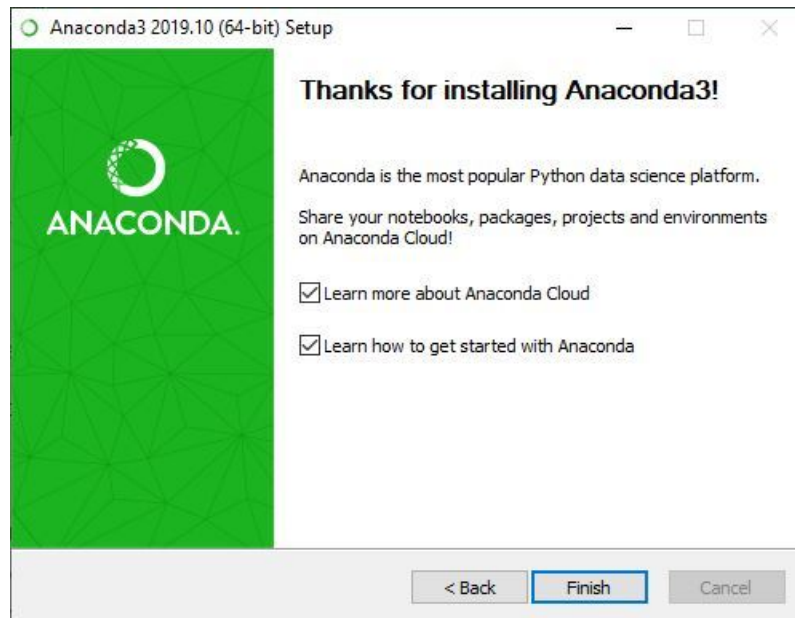


2. Begin with the installation process

- Getting Started

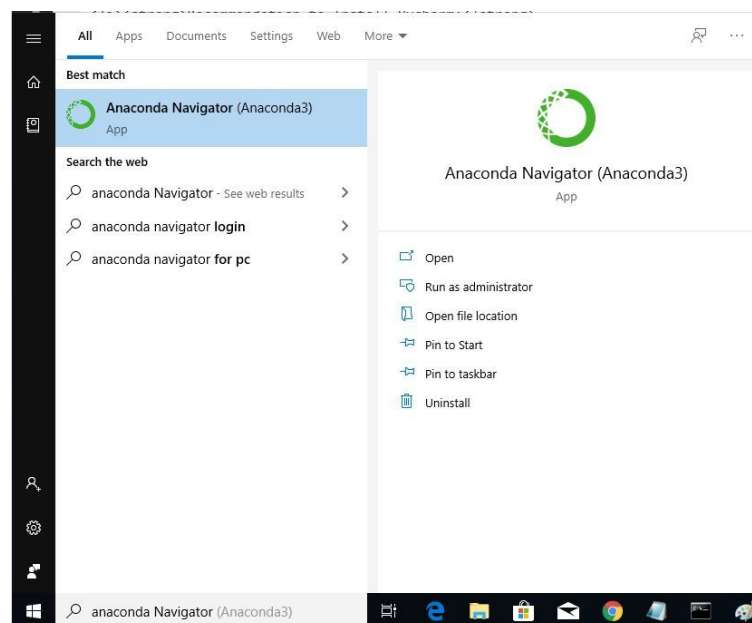


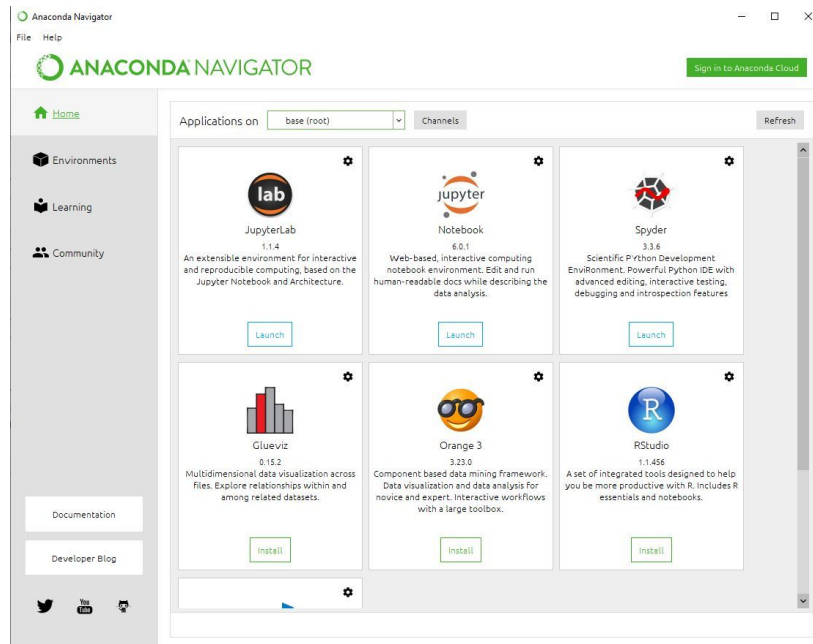
- **Finishing up the Installation**



- **Working with Anaconda:**

Once the installation process is done, Anaconda can be used to perform multiple operations. To begin using Anaconda, search for Anaconda Navigator from the Start Menu in Windows.



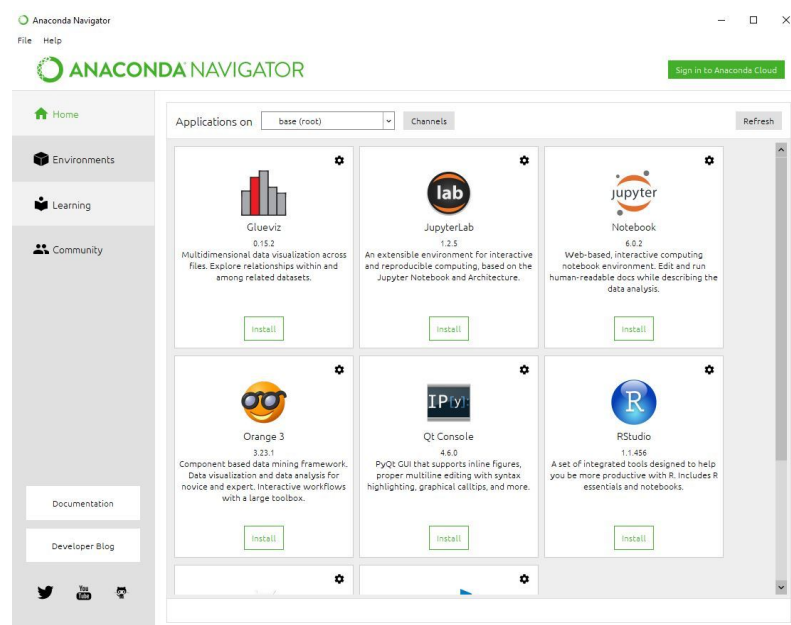


Install Jupyter Notebook in Anaconda.

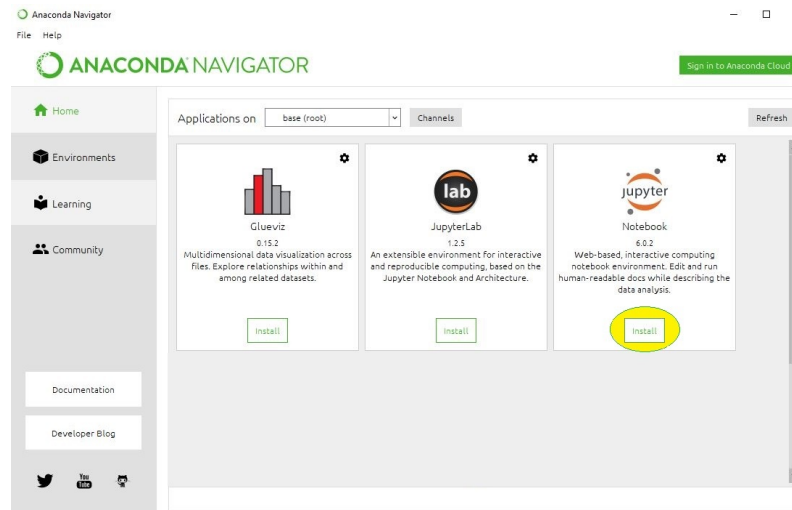
3. Launch Anaconda Navigator:

Video Tutorial: <https://youtu.be/FTkUcSicRIA>

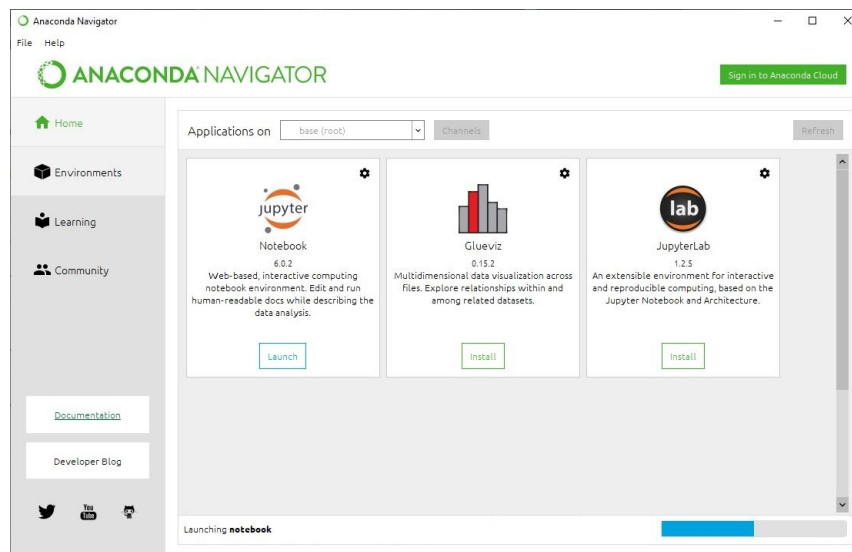
From the Start menu, search for “**Anaconda Navigator**” and click to open

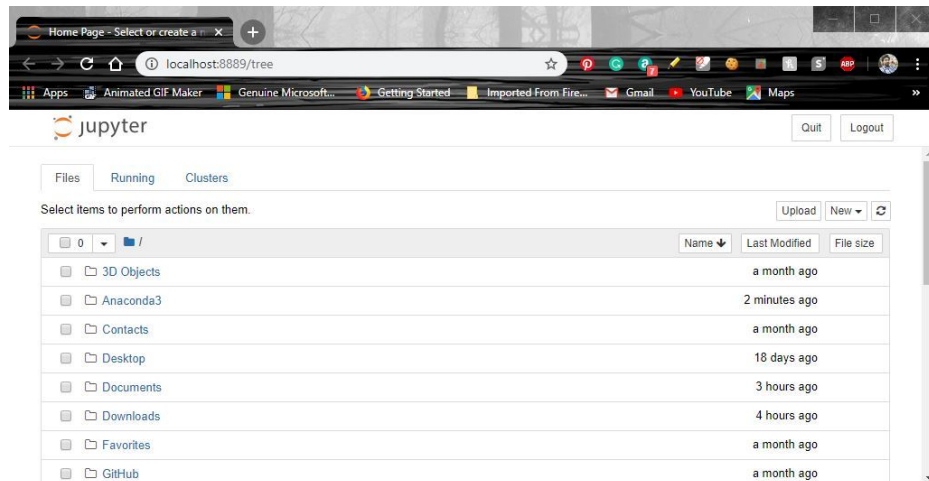


4. Click on the "Install Jupyter Notebook" button.



5. Launching Jupyter



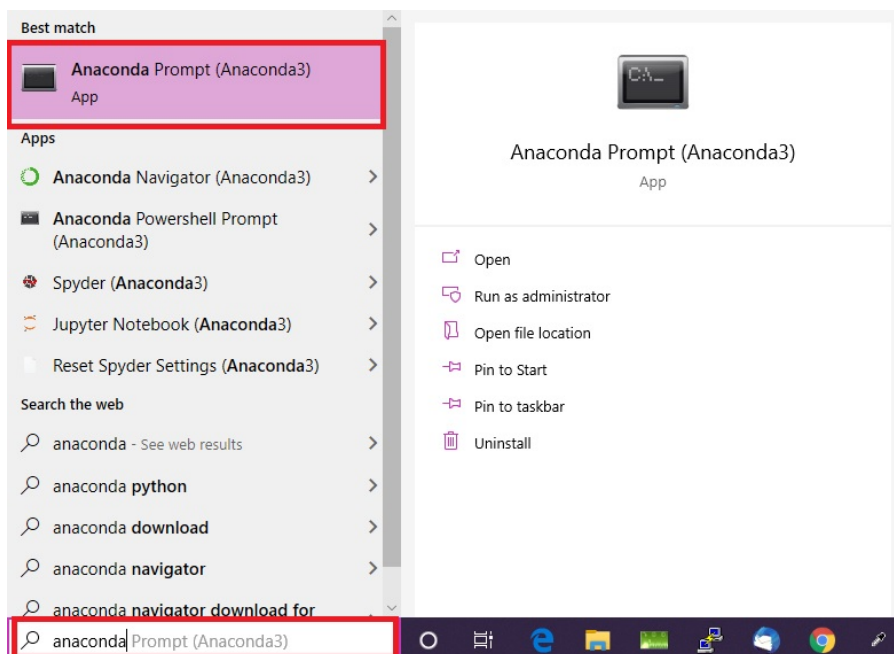


Install Qiskit in Anaconda

6. Launch Anaconda Prompt:

Video Tutorial: <https://youtu.be/1kRfHNUbkrg?t=261>

From the Start menu, search for “Anaconda Prompt” and click to open



7. In the anaconda prompt, type:

conda create -n qiskit-stable python=3.11

Type “y” when prompted.

```
(base) nick@nicks-MacBook-Pro ~ % conda env list  
# conda environments:  
#  
  
base                    /Users/nick/.conda/envs/base  
qiskit-stable           /Users/nick/.conda/envs/qiskit-stable  
qiskit-stable-ml        /Users/nick/.conda/envs/qiskit-stable-ml  
qiskit-stable-notebook /Users/nick/.conda/envs/qiskit-stable-notebook  
qiskit-stable-tf        /Users/nick/.conda/envs/qiskit-stable-tf  
qiskit-stable-torch     /Users/nick/.conda/envs/qiskit-stable-torch  
qiskit-stable-torchvis /Users/nick/.conda/envs/qiskit-stable-torchvis
```

```
(base) nick@nicks-MacBook-Pro ~ % conda create -n qiskit-stable python=3.9  
Collecting package metadata (current_repodata.json): \ |
```

8. Activate the new environment by typing:

conda activate qiskit-stable

```
# To deactivate an active environment, use
#
# $ conda deactivate
#
(base) nick@nicks-MacBook-Pro ~ % conda activate qiskit-stable
(qiskit-stable) nick@nicks-MacBook-Pro ~ %
```

9. Install Qiskit by typing:

pip install 'qiskit[visualization]'

```
(base) nick@nicks-MacBook-Pro ~ % conda activate qiskit-stable
(qiskit-stable) nick@nicks-MacBook-Pro ~ % pip install 'qiskit[visualization]'
Collecting qiskit[visualization]
  Downloading qiskit-0.30.0.tar.gz (12 kB)
```

10. Install a separate ipython kernel by typing:

```
python -m ipykernel install --user --name qiskit-stable --display-name "Qiskit (stable)"
```

```
Successfully installed qiskit-0.30.0
(qiskit-stable) nick@nicks-MacBook-Pro ~ % python -m ipykernel install --user --name qiskit-stable --display-name "Qiskit (stable)"
Installed kernelspec qiskit-stable in /Users/nick/Library/Jupyter/kernels/qiskit-stable
```

11. Launch jupyter notebook in Qiskit (stable) by typing:

jupyter notebook

```
Select Anaconda Prompt (Anaconda3) - jupyter notebook

(base) C:\Users\Admin>jupyter notebook
[I 16:01:38.419 NotebookApp] Writing notebook server cookie secret to C:\Users\Admin\AppData\Roaming\jupyter\runtime\notebook_cookie_secret
[I 16:01:39.941 NotebookApp] JupyterLab extension loaded from C:\ProgramData\Anaconda3\lib\site-packages\jupyterlab
[I 16:01:39.941 NotebookApp] JupyterLab application directory is C:\ProgramData\Anaconda3\share\jupyter\lab
[I 16:01:40.289 NotebookApp] Serving notebooks from local directory: C:\Users\Admin
[I 16:01:40.289 NotebookApp] The Jupyter Notebook is running at:
[I 16:01:40.290 NotebookApp] http://localhost:8888/?token=b847f70892ef47ff014cb1344c378ac617821b8d0b108dcb
[I 16:01:40.290 NotebookApp] or http://127.0.0.1:8888/?token=b847f70892ef47ff014cb1344c378ac617821b8d0b108dcb
[I 16:01:40.290 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
C 16:01:40.332 NotebookApp]

To access the notebook, open this file in a browser:
file:///C:/Users/Admin/AppData/Roaming/jupyter/runtime/nbserver-8980-open.html
Or copy and paste one of these URLs:
http://localhost:8888/?token=b847f70892ef47ff014cb1344c378ac617821b8d0b108dcb
or http://127.0.0.1:8888/?token=b847f70892ef47ff014cb1344c378ac617821b8d0b108dcb
```

Here are some websites that can provide more detailed instructions and troubleshooting tips:

- Qiskit Download documentation:
https://qiskit.org/documentation/getting_started.html
- Anaconda Installation Guide:
<https://docs.anaconda.com/free/anaconda/install/windows/>
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