

JupyterLab

Jupyter's Next-Generation Notebook Interface

JupyterLab is a web-based interactive development environment for Jupyter notebooks, code, and data.

JupyterLab is flexible: configure and arrange the user interface to support a wide range of workflows in data science, scientific computing, and machine learning.

JupyterLab is extensible and modular: write plugins that add new components and integrate with existing ones.

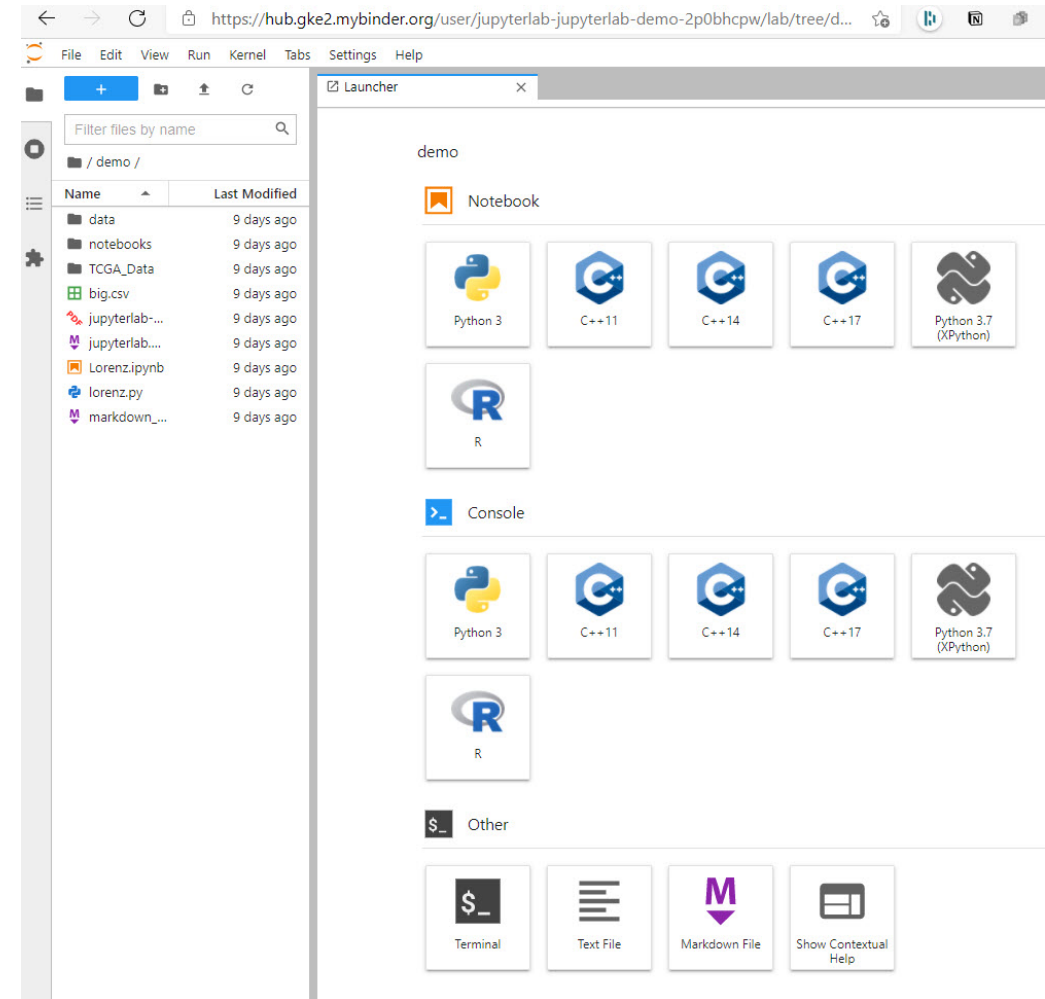


Try JupyterLab

You can try JupyterLab out right now, in your browser, without installing anything using mybinder.org

Link

- <https://jupyter.org/try>
- <https://mybinder.org/v2/gh/jupyterlab/jupyterlab-demo/master?urlpath=lab/tree/demo>

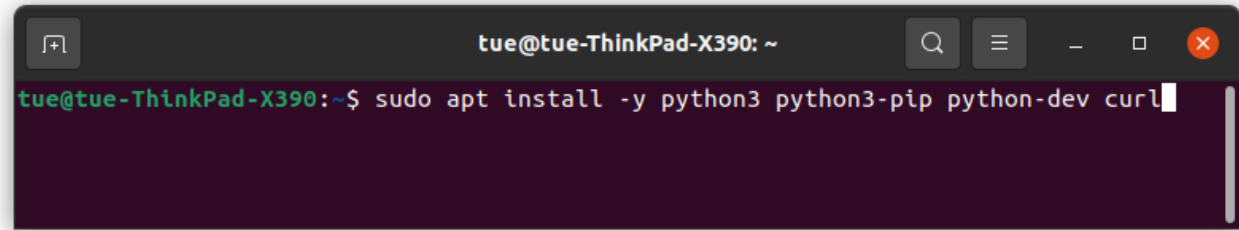


Install JupyterLab on Ubuntu - 1

You need to install a set of packages on the operating system level to enable the usage of Python 3.

Open a terminal - *CTRL + ALT + T*

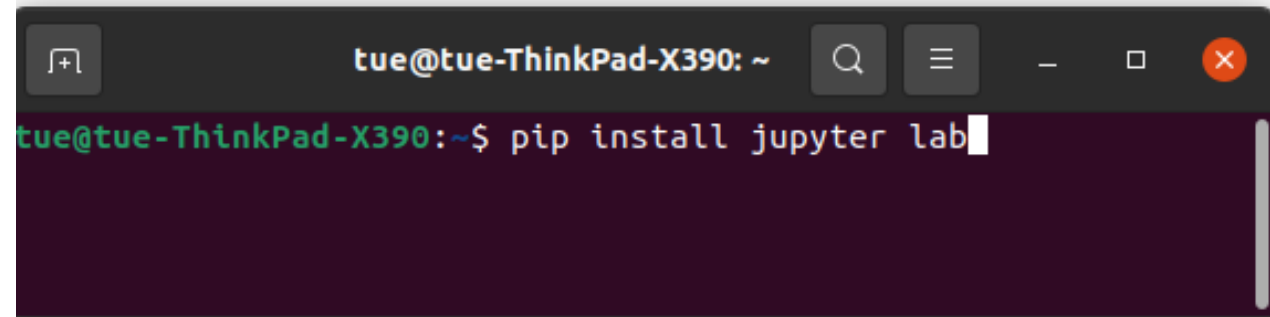
```
sudo apt update  
sudo apt install -y python3  
python3-pip python-dev curl
```

A terminal window with a dark background and light green text. The window title is 'tue@tue-ThinkPad-X390: ~'. The command 'sudo apt install -y python3 python3-pip python-dev curl' is entered at the prompt. The window has standard Ubuntu window controls (minimize, maximize, close) and a search icon in the top right corner.

```
tue@tue-ThinkPad-X390: ~  
tue@tue-ThinkPad-X390:~$ sudo apt install -y python3 python3-pip python-dev curl
```

Install JupyterLab on Ubuntu - 2

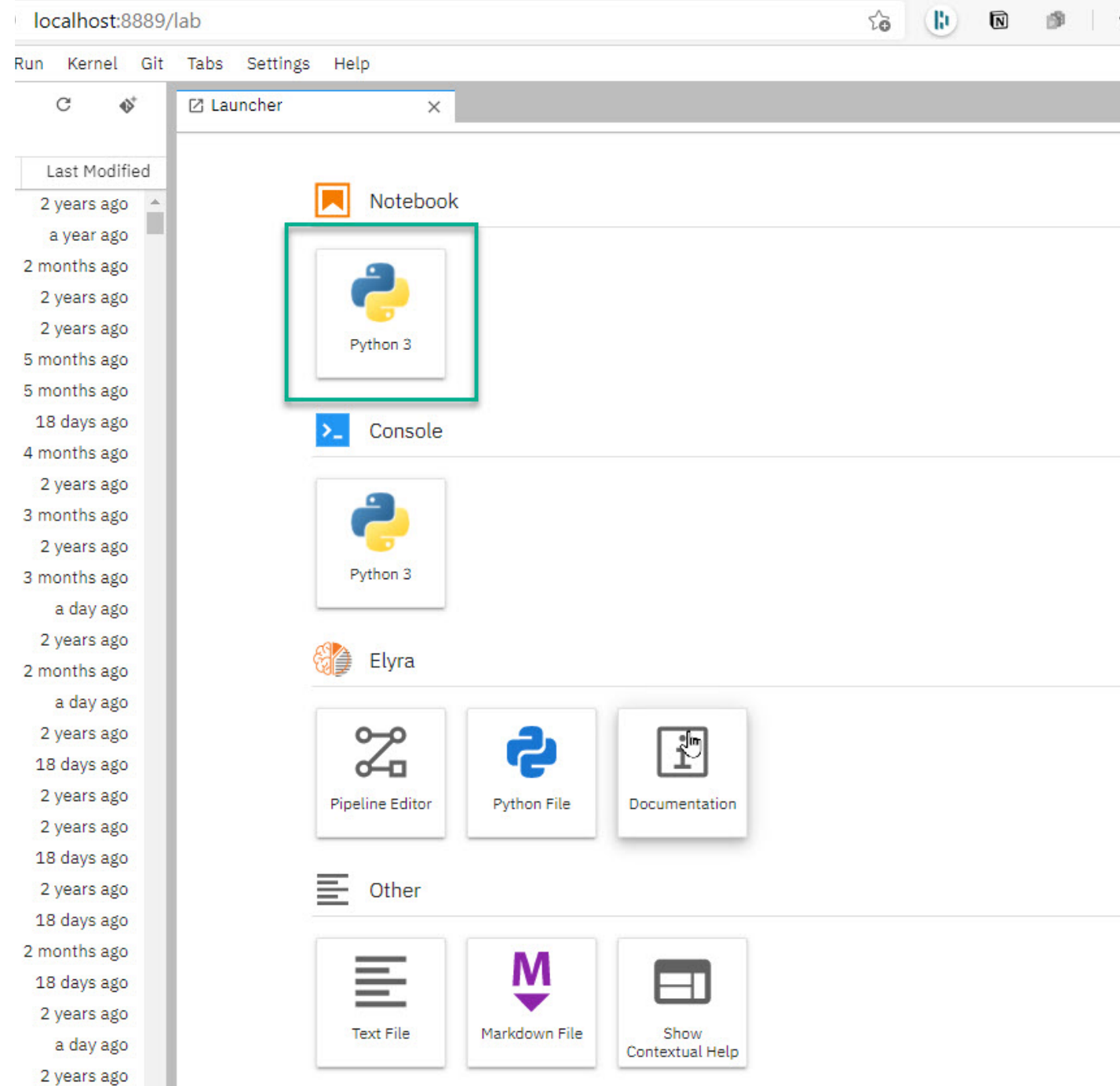
```
pip install jupyter lab
```

A terminal window with a dark background. The title bar at the top shows 'tue@tue-ThinkPad-X390: ~' and standard window controls. The terminal text shows the command 'pip install jupyter lab' being entered at the prompt 'tue@tue-ThinkPad-X390:~\$'.

```
tue@tue-ThinkPad-X390:~$ pip install jupyter lab
```

Run JupyterLab

jupyter lab



Test Example - bqplot

```
import numpy as np
import bqplot.pyplot as plt

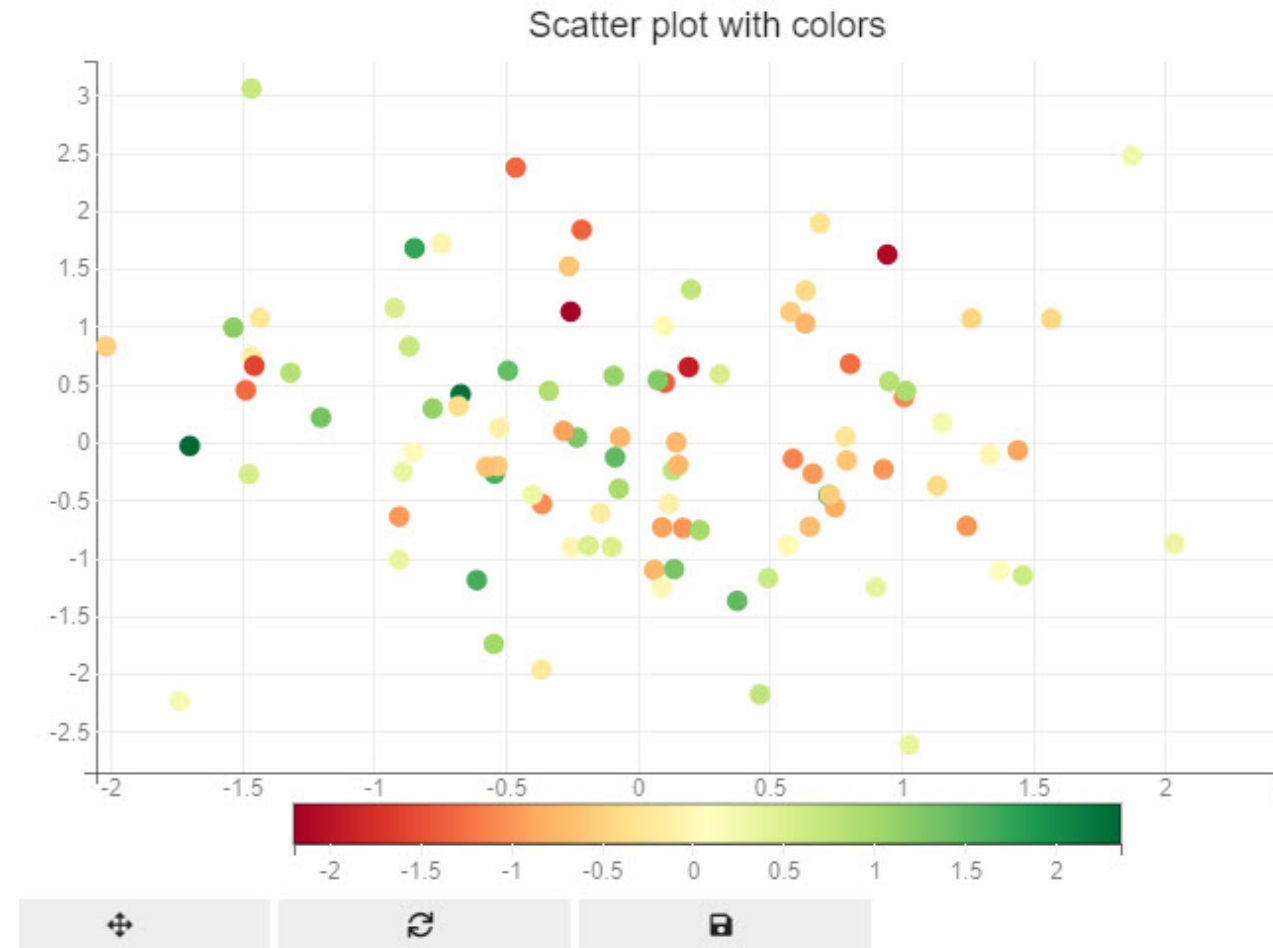
size = 100

plt.figure(title='Scatter plot with
colors')
plt.scatter(np.random.randn(size),
np.random.randn(size),
color=np.random.randn(size))
plt.show()
```

```
import numpy as np
import bqplot.pyplot as plt

size = 100

plt.figure(title='Scatter plot with colors')
plt.scatter(np.random.randn(size), np.random.randn(size), color=np.random.randn(size))
plt.show()
```



Links

- <https://pypi.org/project/jupyterlab>
- <https://jupyter.org>
- <https://jupyterlab.readthedocs.io/en/stable/>