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.

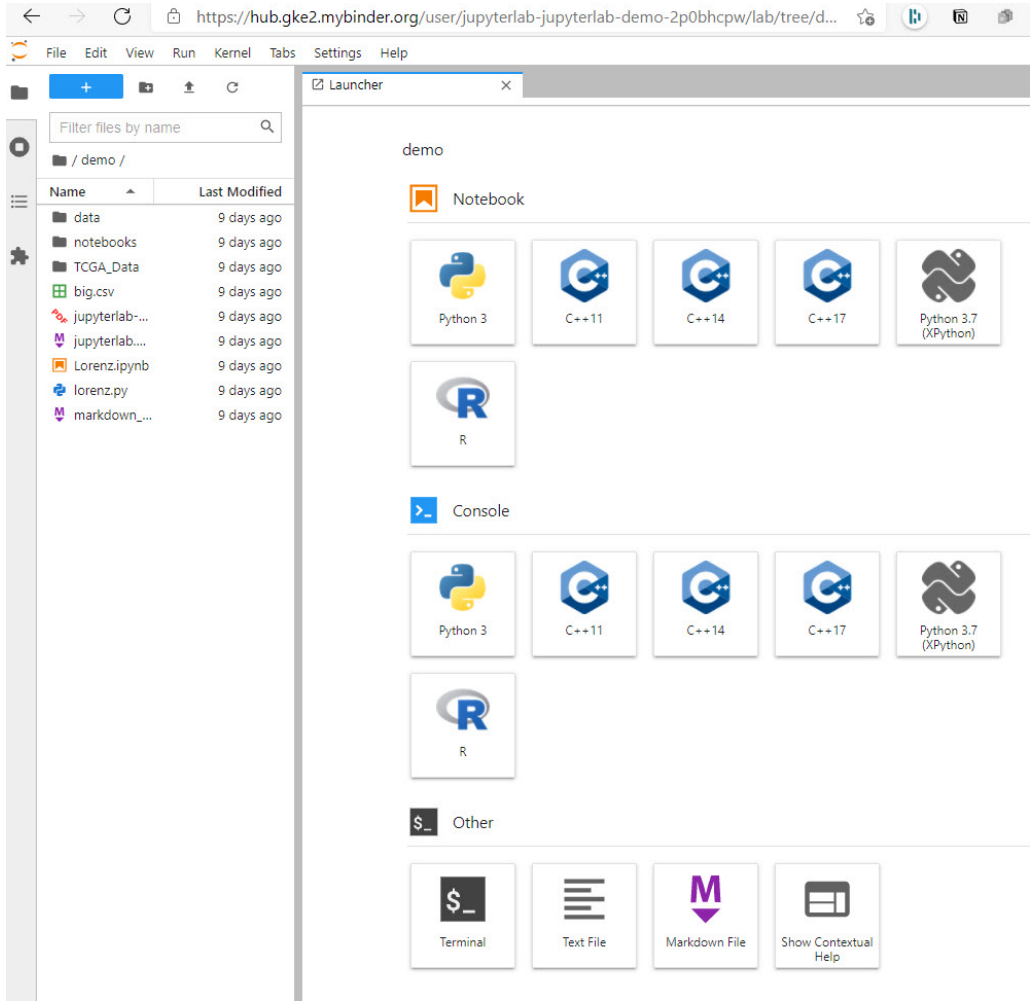
JupyterLab is extensible and modular: write plugins that add new components and integrate with existing ones.

Try JupyterLab

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

Link

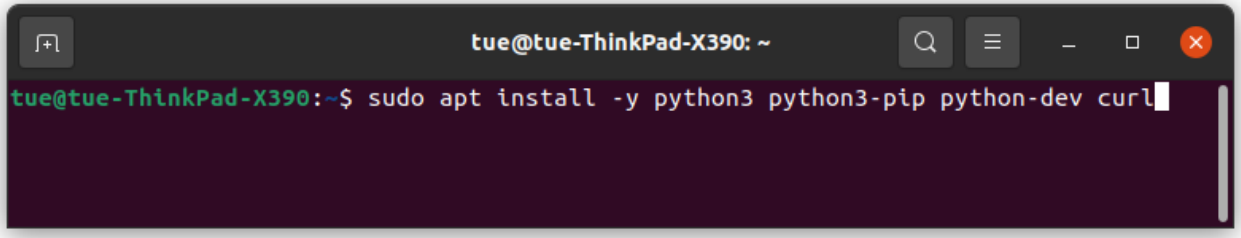
- https://jupyter.org/try
- https://mybinder.org/v2/gh/jupyterlab/jupyterlab-demo/master?urlpath=lab/tree/demo



Install JupyterLap on Ubuntu - 1

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

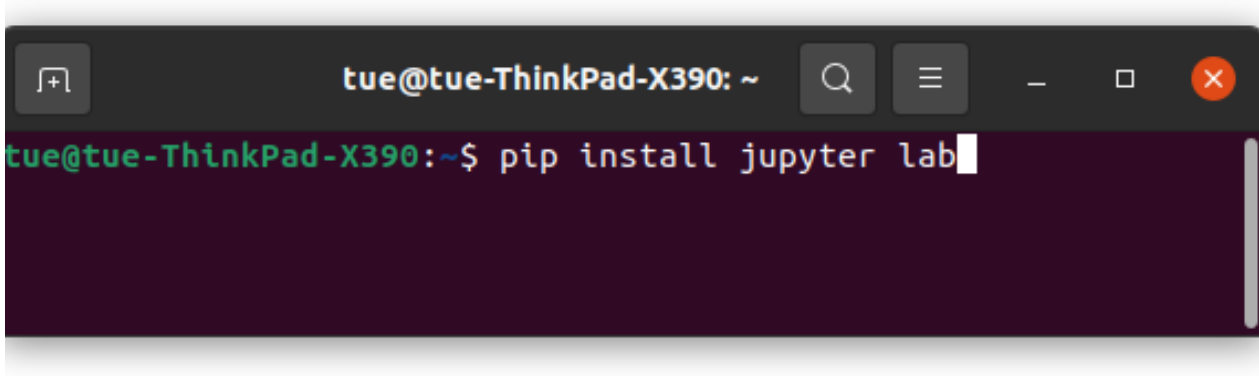
Open a terminal - *CTRL* + *ALT* + *T*



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

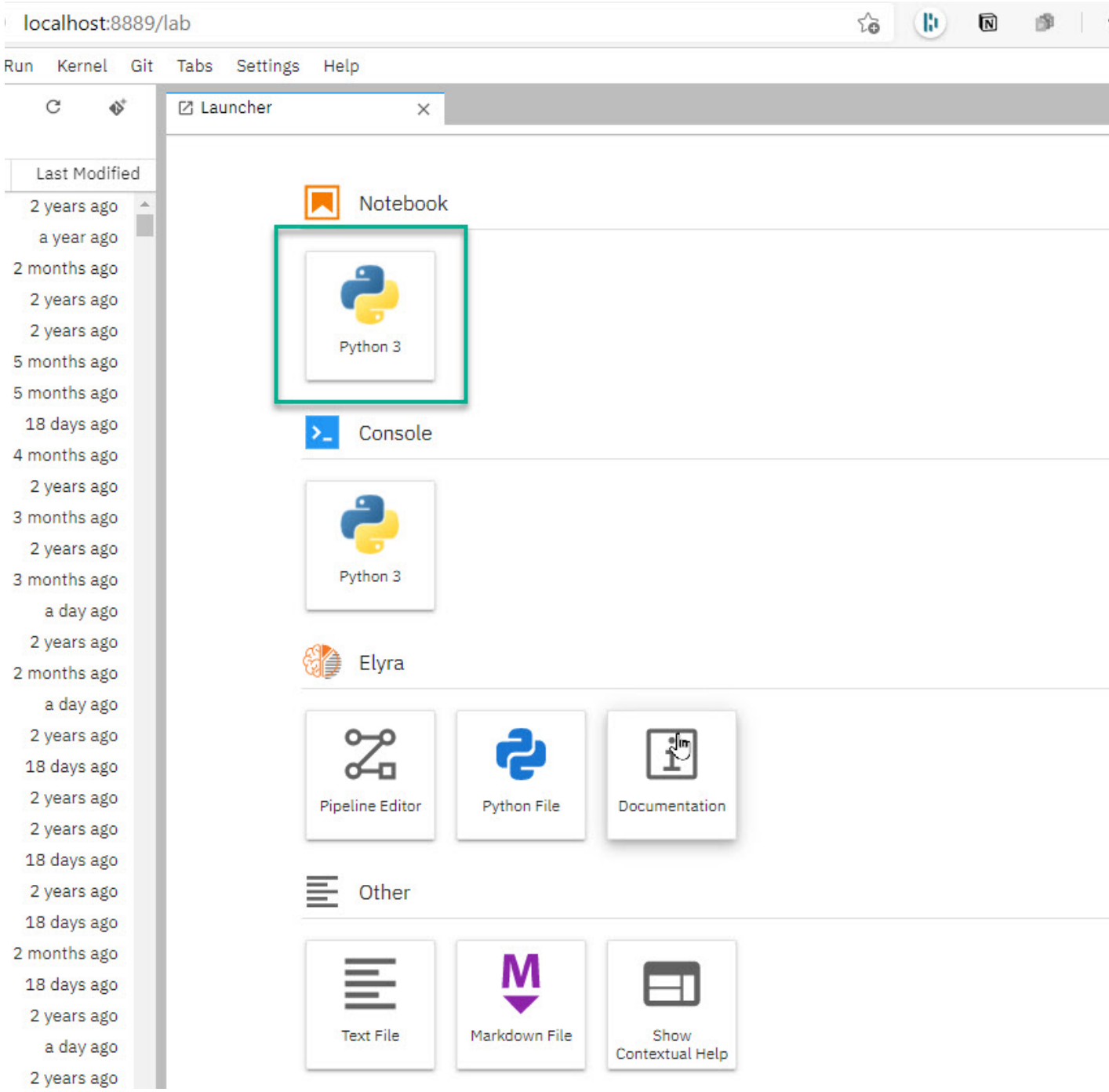
Install JupyterLap on Ubuntu - 2

> pip install jupyter lab



Run JupyterLab

> jupyter lab

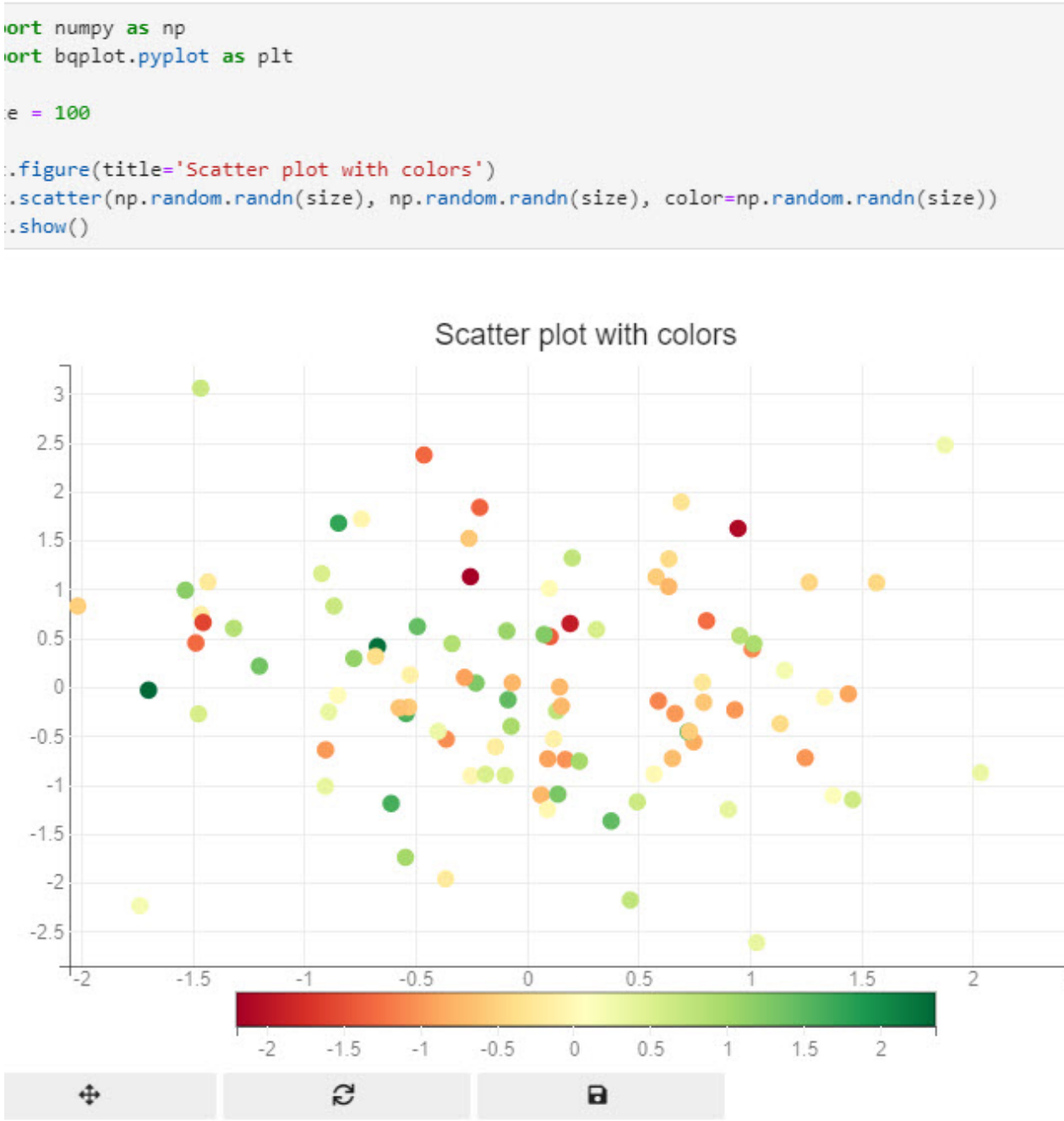


Test Example - bqplot

```
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()
```



Links

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