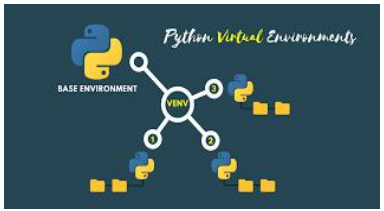
pyQt6

Before start

https://docs.python.org/uk/3/installing/index.html

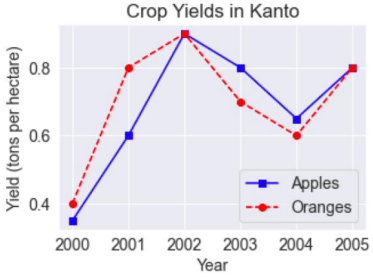
pip is the package installer for Python. You can use pip to install packages from the Python Package Index and other indexes.

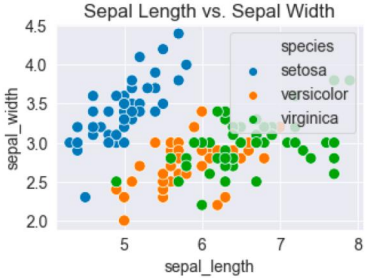
https://docs.python.org/uk/3/library/venv.html

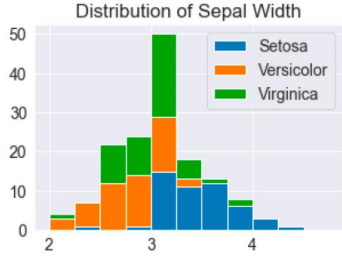


The **venv** module supports creating lightweight «virtual environments», each with their own independent set of Python packages installed in their site directories.

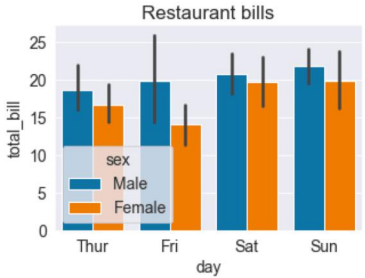
matplotlib

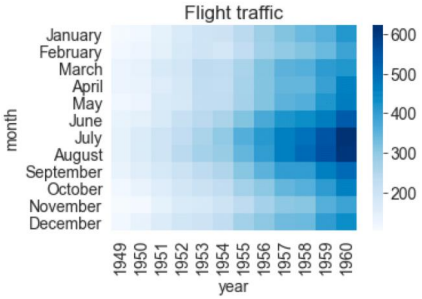


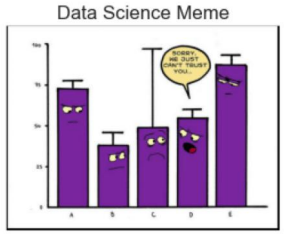





```
pip install matplotlib
```



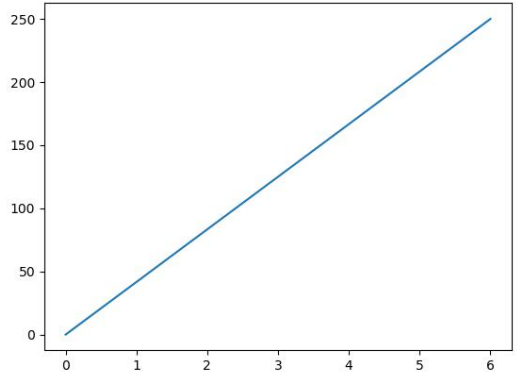




Example

Draw a line in a diagram from position (0,0) to position (6,250):

```
import matplotlib.pyplot as plt
import numpy as np
xpoints = np.array([0, 6])
ypoints = np.array([0, 250])
plt.plot(xpoints, ypoints)
plt.show()
```



Python3 Versions

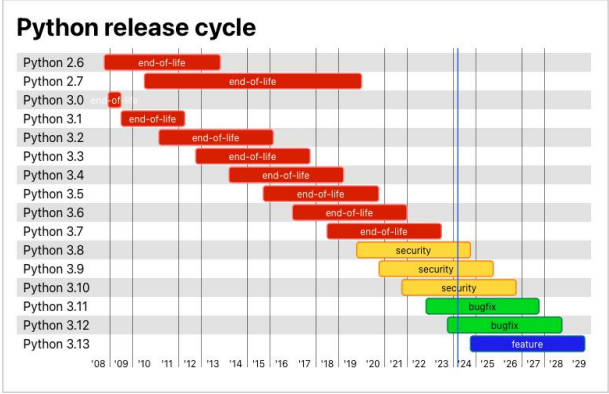
https://github.com/pyenv/pyenv

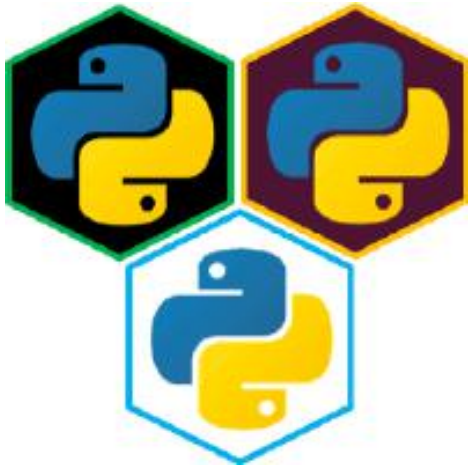
https://youtu.be/sRWigXi8g6I

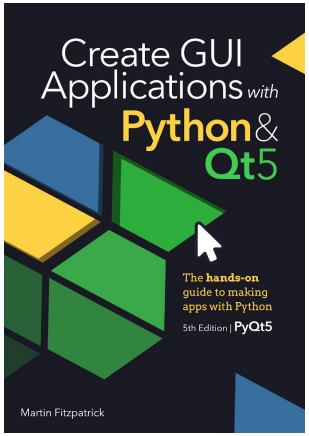
```
sudo apt install -y make build-essential libssl-dev zlib1g-dev libbz2-dev libreadline-dev
libsqlite3-dev wget curl llvm libncurses5-dev libncursesw5-dev xz-utils tk-dev libffi-dev
liblzma-dev python-openssl
curl https://pyenv.run | bash
```

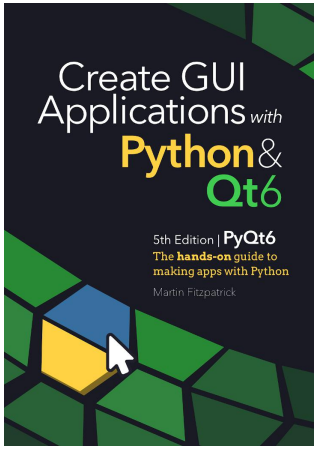
```
# Load pyenv automatically by appending
# the following to
# ~/.bash_profile if it exists, otherwise ~/.profile (for login shells)
# and ~/.bashrc (for interactive shells) :
export PYENV_ROOT="$HOME/.pyenv"
[[ -d $PYENV_ROOT/bin ]] && export PATH="$PYENV_ROOT/bin:$PATH"
eval "$(pyenv init -)"

# Restart your shell for the changes to take effect.
# Load pyenv-virtualenv automatically by adding
# the following to ~/.bashrc:

eval "$(pyenv virtualenv-init -)"
```

```
pyenv versions
pyenv install --list
pyenv install 3.12
pyenv global 3.12
pyenv local 3.12
```









https://www.pythonguis.com/

https://github.com/pyqt/examples

https://realpython.com/qt-designer-python/