

Python Libraries

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What is a library

- Collection of codes
 - Pre-compiled code
 - Documentation
 - Classes
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- Library is a collection of related modules
- <https://blog.octachart.com/top-50-important-python-libraries>

Some useful libraries (NLP)

- NLTK
 - Short for Natural Language Toolkit
- TextBlob
 - For processing text data
- Gensim
 - Unsupervised topic modelling
 - Statistical machine learning

Some useful libraries (Computer Vision)

- OpenCV
 - Image and video processing
 - Powerful
 - Optimized
- Pillow
 - Simple image functions
- PyTesseract
 - OCR
- Scikit-image

Some useful libraries (GUI)

- Tkinter
 - A Standard GUI library for python
- wxPython
 - Cross-platform GUI API
- PyQt
 - Cross-platform GUI API
 - QT v5

Some useful libraries (Game)

- Pygame
 - Video games
 - Computer graphics
 - Sound libraries
- Pyglet
 - 3D animation and game engine
- PyOpenGL
 - OpenGL

Some useful libraries (Web)

- Requests
 - Make HTTP requests
- Scrapy
 - Web crawling framework
- BeautifulSoup
 - Parsing HTML and XML
- Django
 - Web framework
- Flask
 - A micro web framework

Some useful libraries (Data science)

- Pandas
 - Data manipulation and analysis
- Matplotlib
 - Data visualization
 - Graph plotting
- Plotly
 - Similar to matplotlib but more advanced
- SQLAlchemy
 - SQL toolkit

Some useful libraries (Math)

- Numpy
 - Vectors and matrices
- Scipy
 - Scientific computing
- SymPy
 - Algebra

Some useful libraries (Machine learning)

- Keras
 - Artificial neural networks
- Tensorflow
 - Training and inference of Deep neural networks
- PyTorch
 - Like tensorflow
- Scikit-learn
 - Machine learning and statistical modeling