Data Science Toolbox

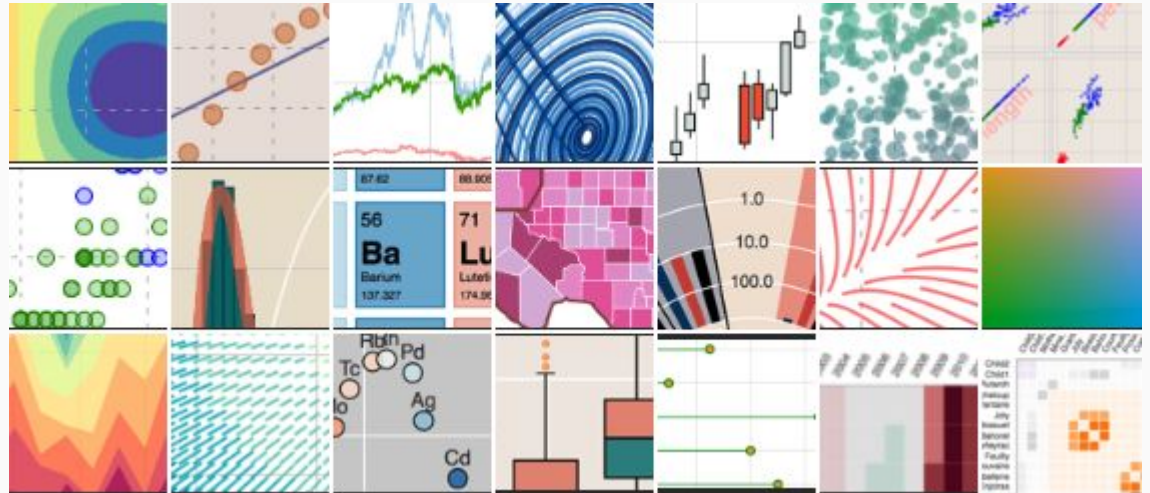Additional Tools and Resources

Cloud Based Notebooks

Google Colaboratory

- Colaboratory is a free Jupyter notebook environment that requires no setup and runs entirely in the cloud.

- Pre-installed libraries

SoftStack
Factory
2018

Data Visualization

- Bokeh
- Matplotlib
- Seaborn

Databases

- PostgreSQL
- MongoDB

Data Analysis

- Orange

Deep Learning

- TensorFlow
- Keras
- Caffe
- Theano

Image Processing

- Pillow
- Scikit-Image
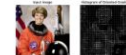

Contour finding

Convex Hull

Canny edge detector

Dense DAISY feature description

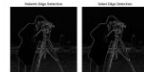Histogram of Oriented Gradients
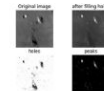

Corner detection

Marching Cubes
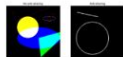

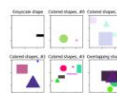Active Contour Model

Edge operators

Template Matching

Filling holes and finding peaks
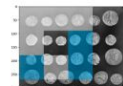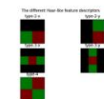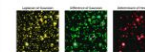

CENSURE feature detector

Shapes

Random Shapes

Straight line Hough transform

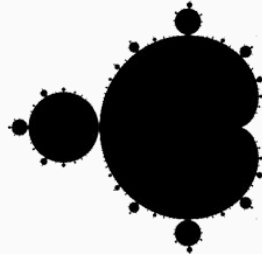Multi-Block Local Binary Pattern for texture classification

Haar-like feature descriptor

Blob Detection

SoftStack Factory 2018

Natural Language Processing

- NLTK
- Gensim
- TextBlob

Web Crawling & Scraping

- Scrapy
- BeautifulSoup