

In this course, you will learn how to visualise data in Python using matplotlib library. The entire course is hands-on. We will start from the very basics and progress to advanced levels of charting, animation and 3D visualisation. Most of the data that will be used in this course is static but you can very easily replace it with dynamic data using Python's multiple data readers.

We will be using Jupyter notebook as our IDE, you can use any other IDE with the same results.

Matplotlib is the "grandfather" library of data visualization with Python. It was created by John Hunter. He created it to try to replicate MatLab's (another programming language) plotting capabilities in Python.

Some of the major Pros of Matplotlib are:

- * Great control of every element in a figure
- * High-quality output in many file formats
- * Very customizable in general

The course is divided into the following sections -

Section 1: Line Charts, Emojis, multi-colored polygons

Section 2: Pie Charts, Interactive charts

Section 3: Bar Charts, Horizontal, Vertical, Stacked

Section 4: Curves, Equations, Annotation, Text and Scientific Notations

Section 5: Histograms, Using Histograms on image data

Section 6: Box Plots, Violin Plot

Section 7: Object Oriented Interface, Subplots, ScatterPlot

Section 8: Animation and interaction with plots

Section 9: 3D Plotting

I encourage you just to explore the official Matplotlib web page:
<http://matplotlib.org/>