

Setup & Installation

- Installing the Anaconda Navigator
- Installing Matplotlib, seaborn & cufflinks
- Reading data from a csv file with pandas
- Explaining Matplotlib libraries apart
- Course Materials

Plotting Line Plots with matplotlib

- Changing the axis scales
- Label Styling
- Adding a legend
- Changing colors, linestyle, linewidth and markers
- Adding a grid to the chart
- Filling only a specific area
- Filling area on line plots and filling only specific area
- Changing fill color of different areas (negative vs positive for example)

Plotting Histograms & Bar Charts with matplotlib

- Changing edge color and adding shadow on the edge
- Adding legends, titles, location and rotating pie chart
- Histograms vs Bar charts (Part 1)
- Histograms vs Bar charts (Part 2)
- Changing edge colour of the histogram
- Changing the axis scale to log scale
- Adding median to histogram
- Advanced Histograms and Patches (Part 1)
- Advanced Histograms and Patches (Part 2)
- Overlaying bar plots on top of each other (Part 1)
- Overlaying bar plots on top of each other (Part 2)

- Creating Box and Whisker Plots

Plotting Stack Plots & Stem Plots

- Plotting a basic stack plot
- Plotting a stem plot
- Plotting a stack plot of data with constant total

Plotting Scatter Plots with matplotlib

- Plotting a basic scatter plot
- Changing the size of the dots
- Changing colors of markers
- Adding edges to dots

Time Series Data Visualization with matplotlib

- Using the Python datetime module
- Connecting data points by line
- Converting string dates using the `.to_datetime()` pandas method
- Plotting live data using FuncAnimation in matplotlib

Creating multiple subplots

- Setting up the number of rows and columns
- Plotting multiple plots in one figure
- Getting separate figures
- Saving figures to your computer

Plotting charts using seaborn

- Introduction to seaborn
- Working on hue, style and size in seaborn
- Subplots using seaborn

- Line plots
- Cat plots
- Jointplot, pair plot and regression plot
- Controlling Plotted Figure Aesthetics

Plotly and Cufflinks

- Installation and Setup
- Line, Scatter, Bar, box and area plot
- 3D plots, spread plot and hist plot, bubble plot, and heatmap