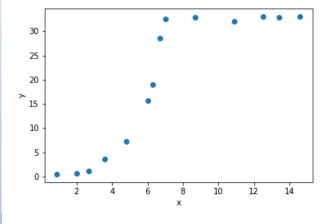
matplotlib

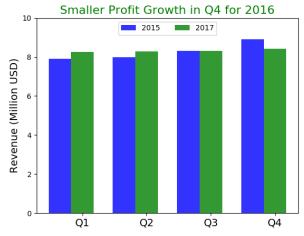
Dr. Ilkay Altintas

Explain the role of Matplotlib in python

What is matplotlib

Plotting Library for Python





Why matplotlib

"Matplotlib tries to make easy things easy and hard things possible."

https://matplotlib.org/

Why matplotlib

"Matplotlib tries to make easy things easy and hard things possible."

https://matplotlib.org/

Why matplotlib

"Matplotlib tries to make easy things easy and hard things possible."

https://matplotlib.org/

Other libraries?

- Seaborn
- ggplot
- Altair
- Bokeh
- Plotly
- Folium

Visualization: World Development Indicators

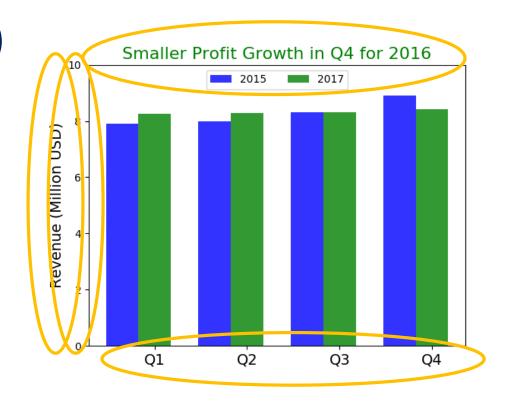
 Use the World Development Indicators Dataset for data science

Visualization: Basic Plotting in Matplotlib Part 1

- Create bar charts, line charts, and histograms using matplotlib
- Recognize the common components in a matplotlib figure
- Create line charts and scatterplots using matplotlib

Common Components

- Chart type (bar, line, hist)
- Axes data ranges
- Axes labels
- Figure labels
- Legend
- Aesthetics
- Annotations.

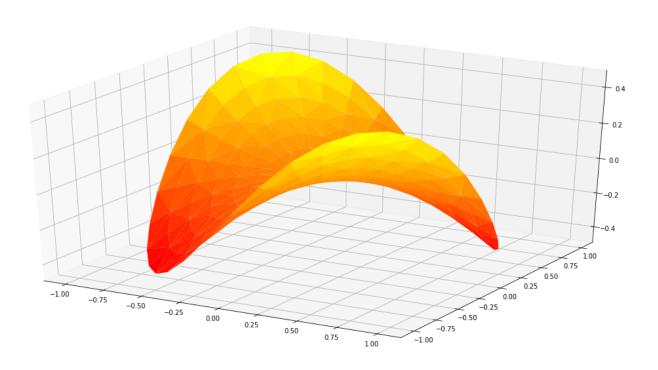


Visualization: Basic Plotting in Matplotlib Part 2

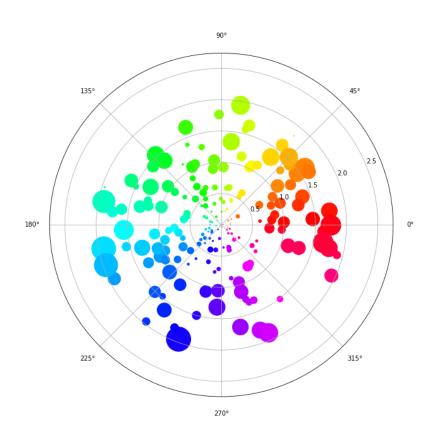
Create line charts and scatterplots using matplotlib

Visualization: Matplotlib Additional Examples

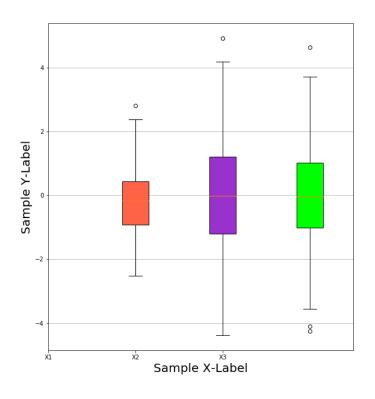
Additional Examples:

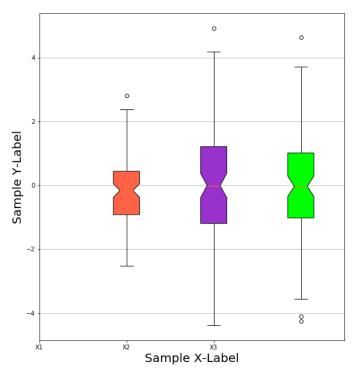


Additional Examples:



Additional Examples:





Visualization: Folium Example

Use the Folium library to create geographic overlays