Data Visualization - An Introduction

As a data scientist, your job is to tell stories, with data and to communicate interesting insights to stakeholders. Data visualization plays a big role in this:

- In the early stages of a project, creating visualizations helps in Exploratory Data Analysis (EDA). It helps in gaining insights about your data by making things easier and clearer to understand. When we place things in a visual context patterns, trends, and correlations that might have otherwise gone undetected, come to the surface.

- Towards the end of the project, it's very important to be able to present results in a **clear, concise, and compelling manner** so that your audience (which is often going to be non-technical people) can understand the results as well.
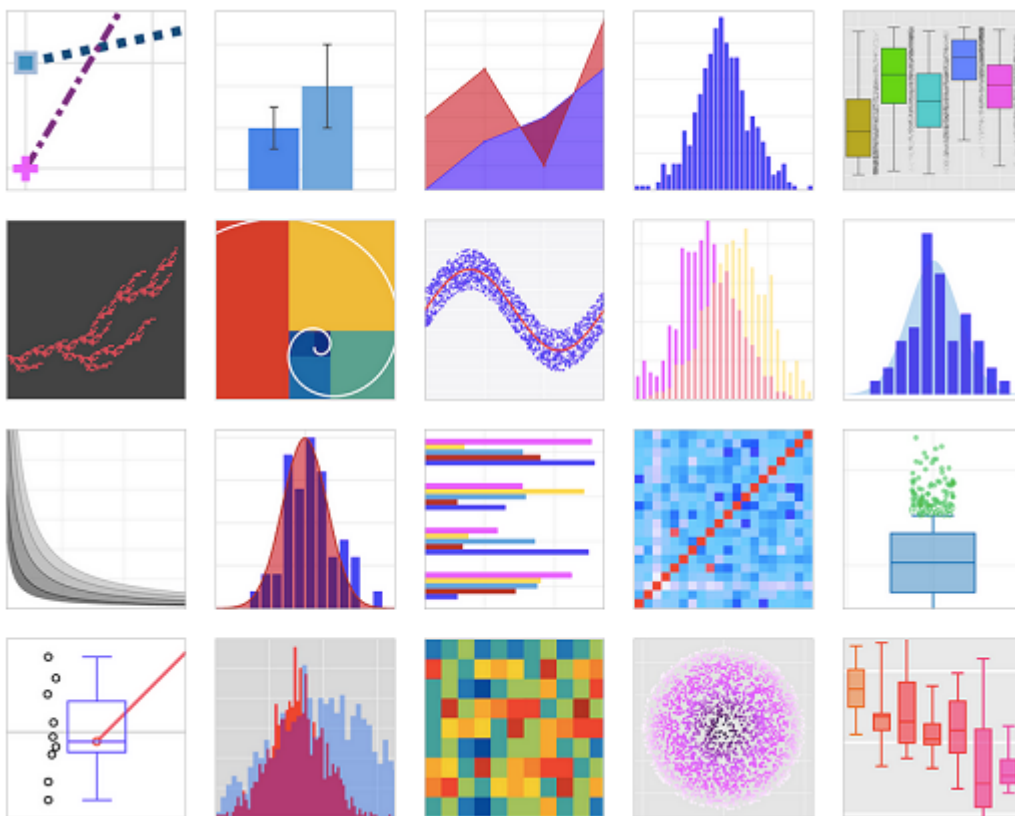

Image credits: PolicyViz

Python offers multiple graphing libraries that come packed with lots of different features. Matplotlib is the most popular library for creating

visualizations in an easy way, so we are going to use it as a basis for learning the art of data visualization.

In this series of lessons on data visualization, we will start with general Matplotlib usage tips. Then we will go through the details of main visualization techniques and also learn how to create them with code-examples.

> 📌 *Before we continue, let me just remind you of what I said earlier: Learning to use Python well means using a lot of libraries and functions. But you don't have to remember everything by heart —* ***Google is your friend!***