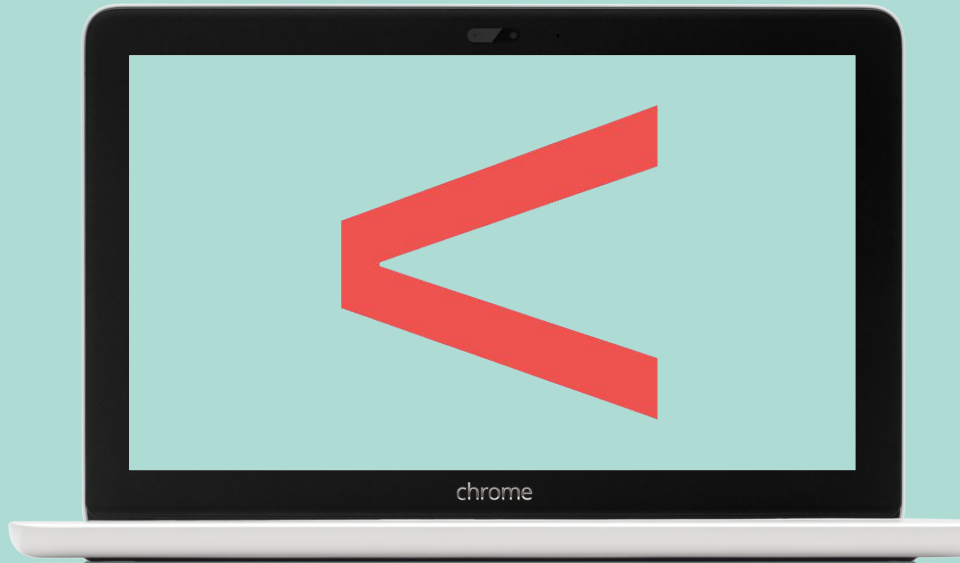# matplotlib & seaborn

matplotlib
What is it?

Matplotlib is a plotting library for the Python programming language and its **numerical mathematics extension NumPy**.
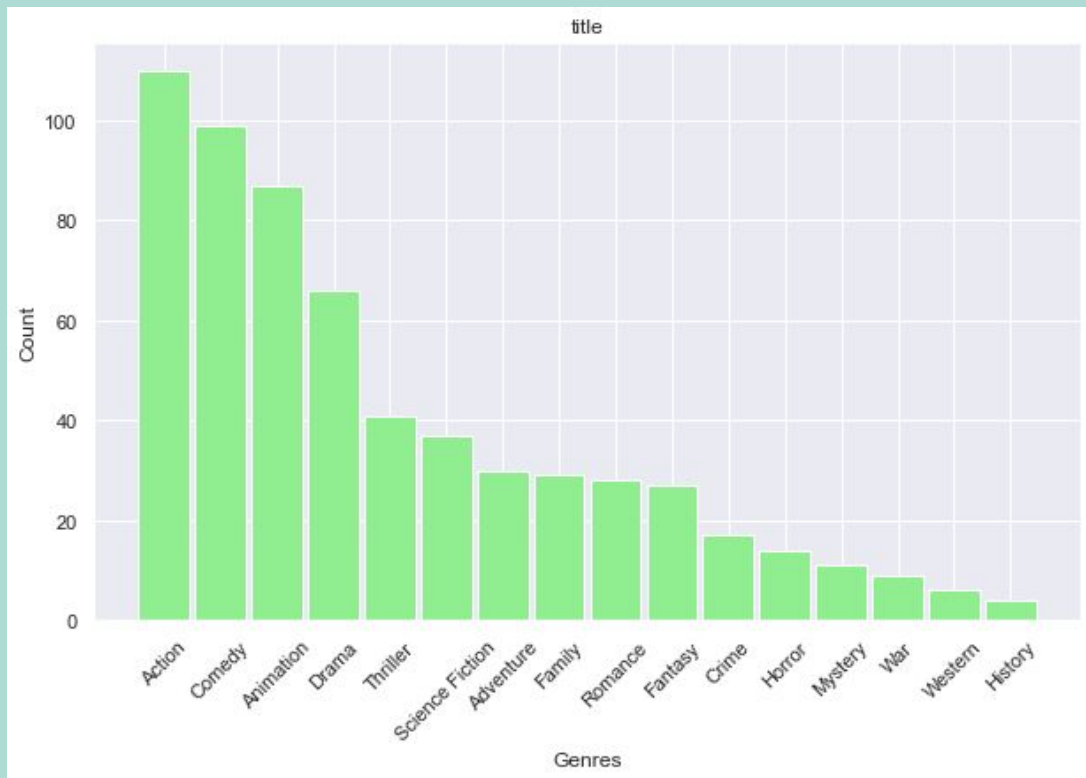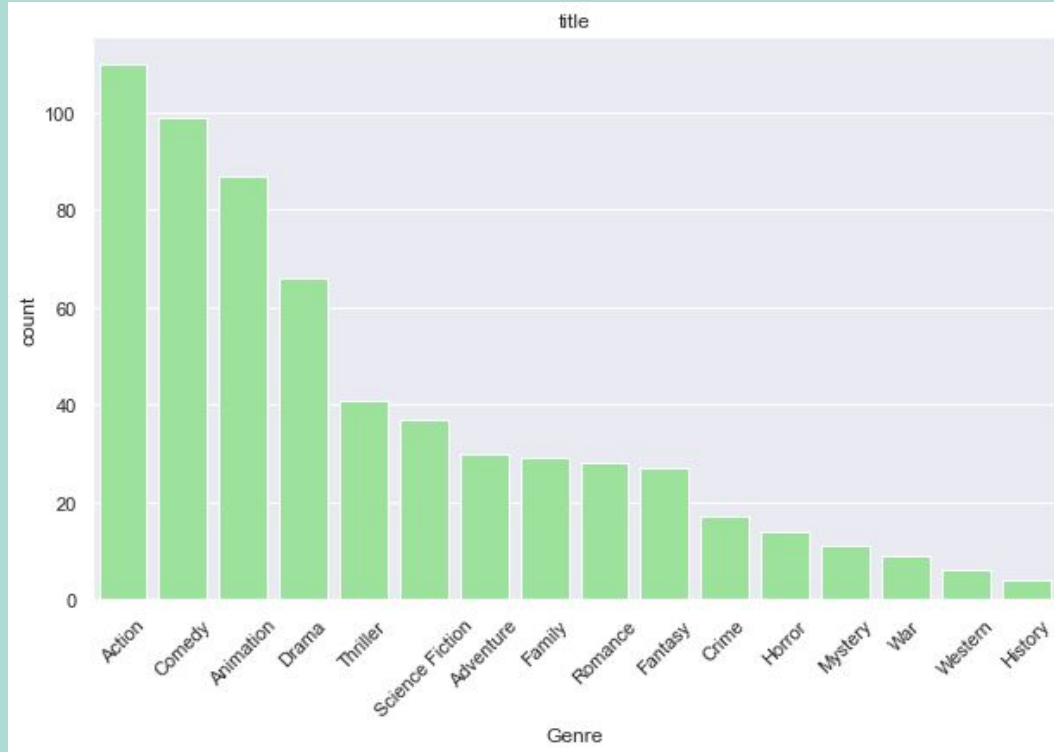
seaborn
What is it?

Seaborn is a Python data visualization library **based on matplotlib**. It provides a high-level interface for drawing attractive and informative statistical graphics.
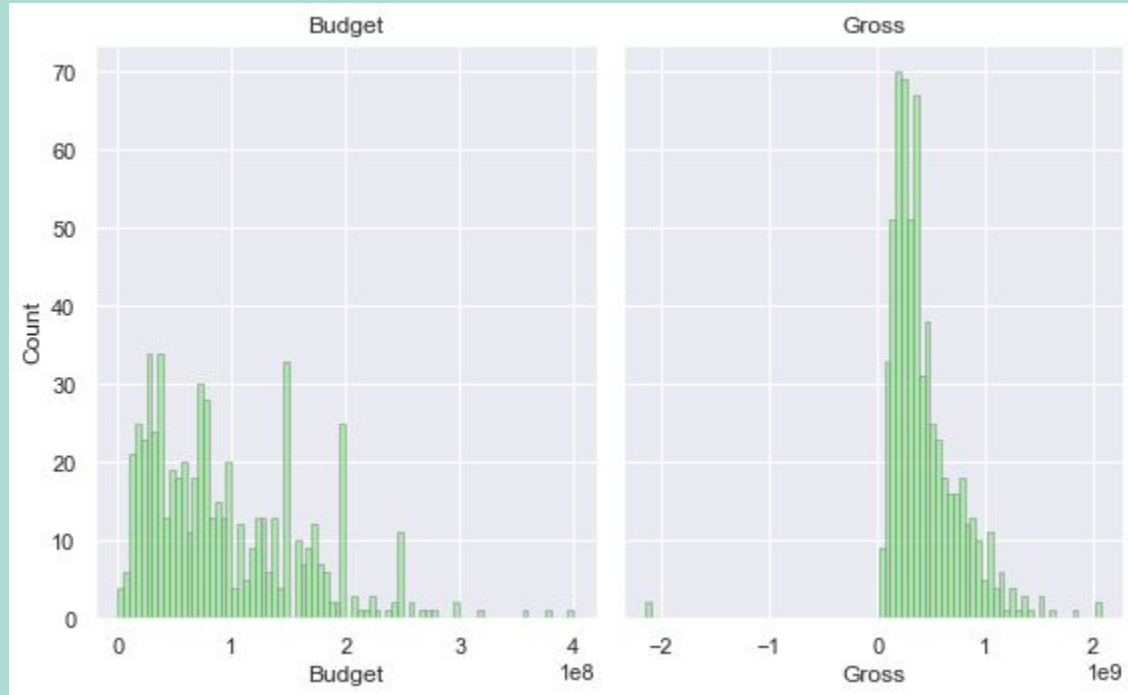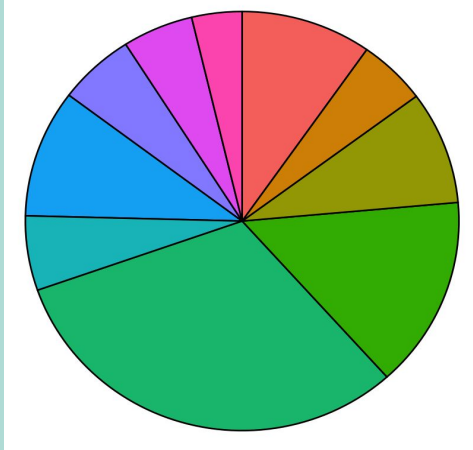
Syntax to plot a bar chart - matplotlib

Syntax to plot a bar chart - seaborn

Syntax to plot a hist plot side by side - matplotlib

Things to consider when creating a plot - pie chart

My Tasks

Tasks Ongoing
Tasks Pending
33.3%
20.0%
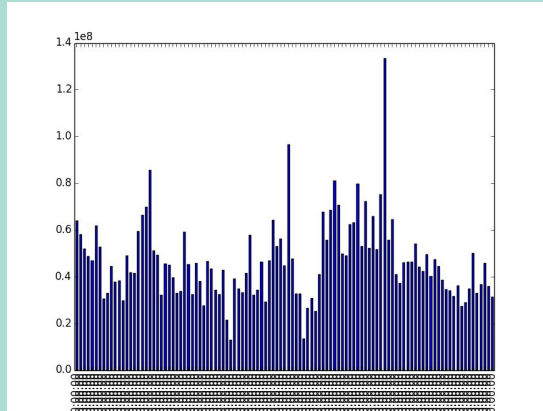46.7%
Tasks Completed

Avoid:
- No title
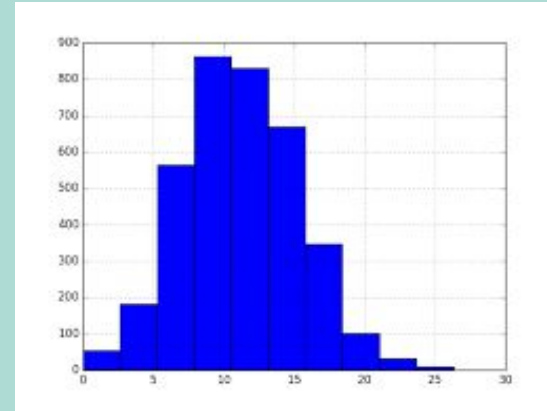- No labels
- Too many slices

Good practices:
- Descriptive title
- Percentage and categories' labels
- Low number of slices

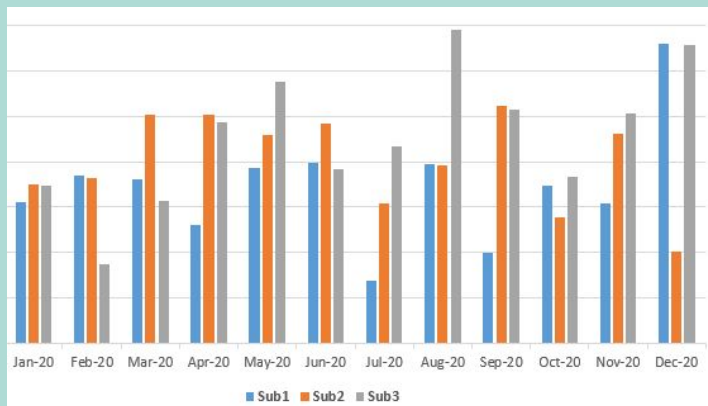# Things to consider when creating a plot - time series chart

Avoid:
- No title
- No labeled axes
- No legend
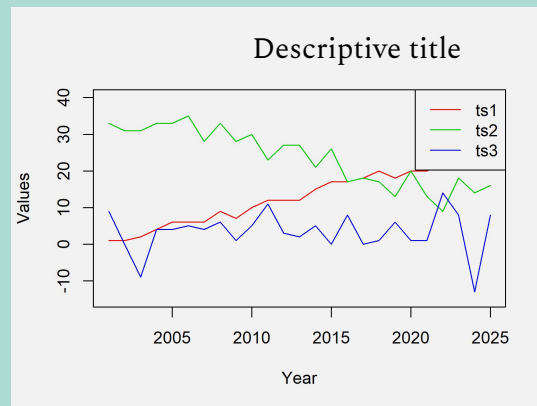- Too many distinct values

Good practices:
- Descriptive title
- In general, it's preferable to use histograms
- Be mindful of the bin size
- Labeled axes

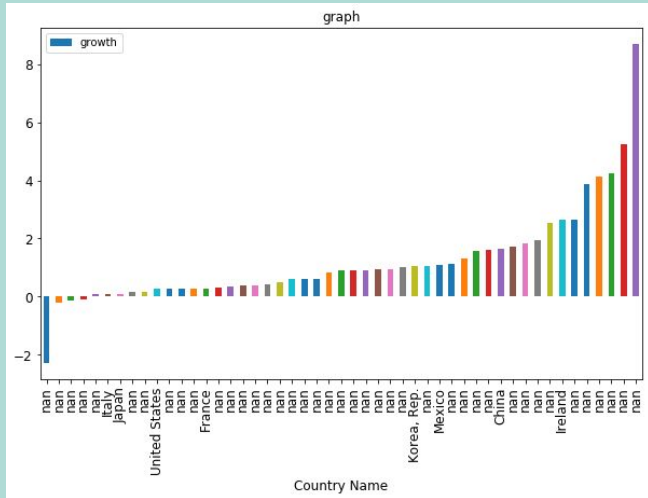# Things to consider when creating a plot - time series chart

Avoid:
- No title
- No labeled axes
- No legend
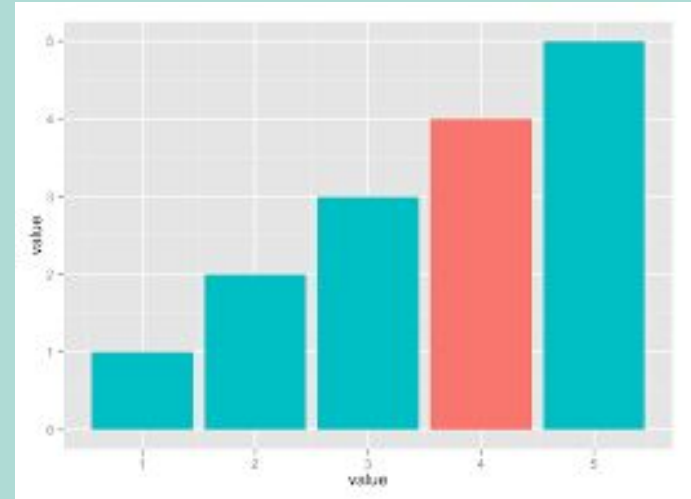- Using a bar chart

Good practices:
- Descriptive title
- In general, it's preferable to use line plots
- Labeled axes
- Use a legend

Things to consider when creating a plot - colours

Avoid:
- Random use of colour
- Too many colours

Good practices:
- Colours should be meaningful
- Labeled axes
- Must be distinguishable from the background colour

For more tips, visit these links:
[Storytelling with data](#)
[Bar charts](#)
[Pie charts](#)
[Line charts](#)
[Maps](#)

To know more about how to create visualisations with Matplotlib, [read the documentation](#).