
Graphs

Visualization

Graphs

- Using [matplotlib](#)
- Used to create many types of graphs

Numpy

- A part of the SciPi.org
- A python number library
- Used to manipulate numbers
- [Docs](#)

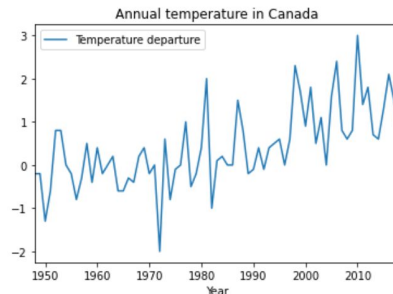
Demo

- Bar graph
- Scatter plot
- Change title
 - Add title
 - Change position
 - Change font
 - Multi-line
 - Math
 - Suptitle
- Changing axis
- Margins

In-class Assignment 9

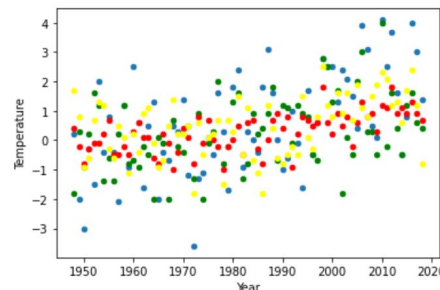
1. Make a line graph with the data from the file using years as the x-axis and the data as the y-axis

- a. File: "Temperature-change-annual-en.csv"
- b. Use the "Temperature departure (degree Celsius)" data
- c. Change the legend to read "Temperature departure"
- d. Add a new title: "Annual temperature in Canada"
- e. Show the plot



2. Make a scatter plot graph with the data from the file using years as the x-axis and the data as the y-axis

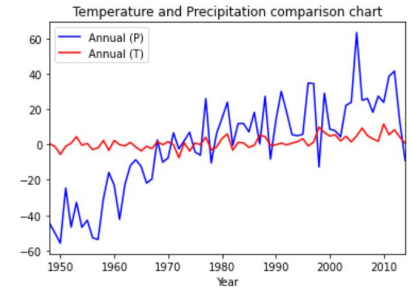
- a. File: "Temperature-change-seasonal-en.csv"
- b. Make each season it's own color
- c. Change the y-label to read "Temperature"
- d. Show the plot



Assignment 9

1. Create a line graph with the annual precipitation and annual temperature showcased in the seasonal_weather file.

- File: "seasonal_weather.csv" created in Assignment 8
- Have Temperature in red and precipitation in blue
- Add a title: "Temperature and Precipitation comparison chart"



2. Create a scatter plot that showcases the temperature for each of the four seasons.

- File: "Temperature-change-seasonal-en.csv"
- Use the pyplot scatter method
- Set the color of each season to be different
- Set the alpha to be different for each season (saturation of dots)
- Make the size of the dots reflect the temperature data

