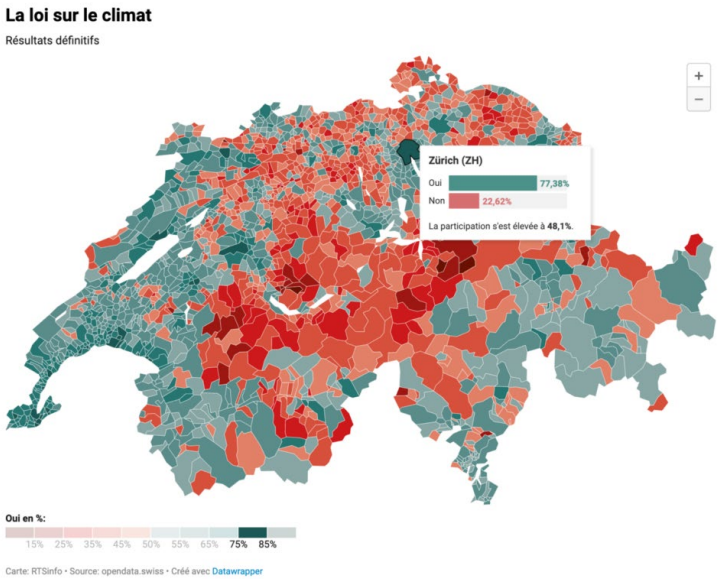
Data acquisition and management

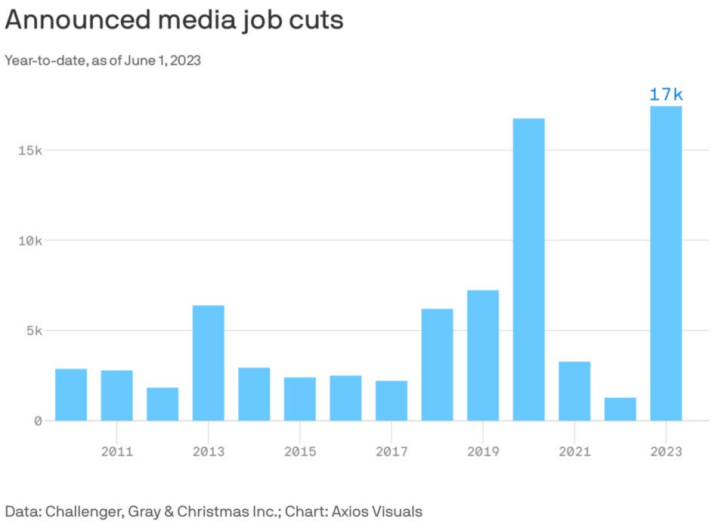
CAS Applied Data Science - Module 1

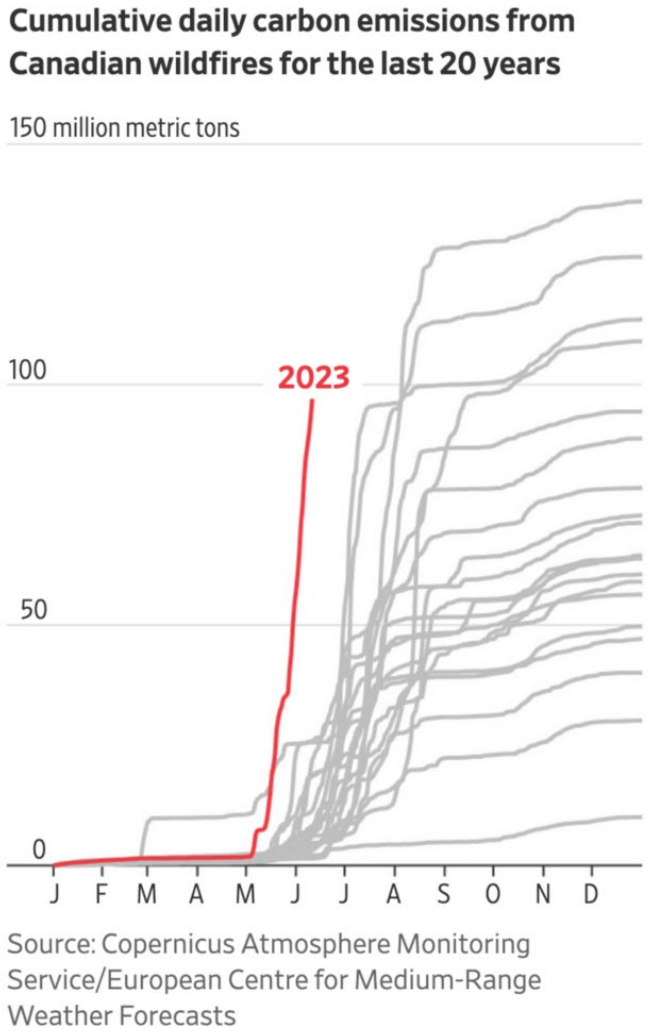
Dr. Anja Mühlemann

Open Quesions from yesterday

Data Visualisation Examples







Why?

Helps understand the data and makes

- patterns
- similarities
- differences
- correlations
- ...

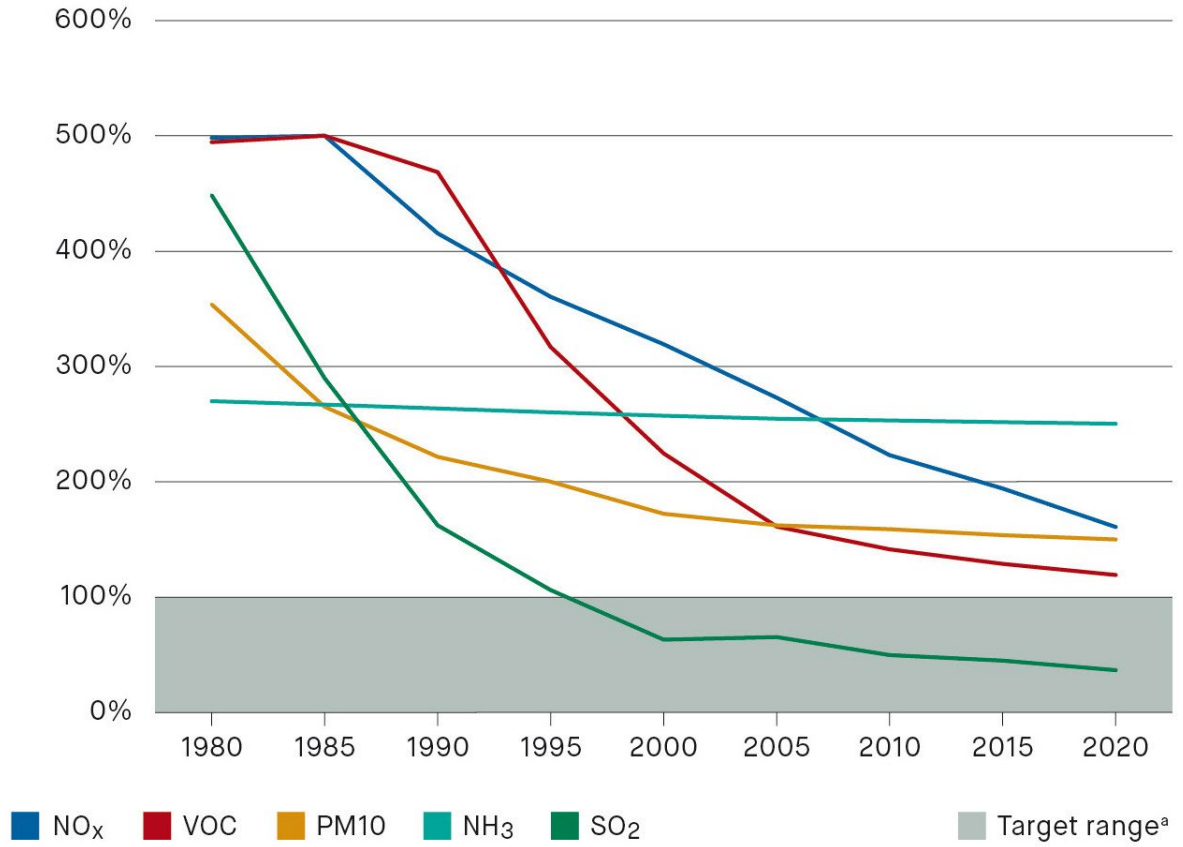
visible.

Rules

- Avoid distortion
- Use diagrams that suit your data
- Label axes
- Make figures easily understandable
- Add Legends if necessary
- ...

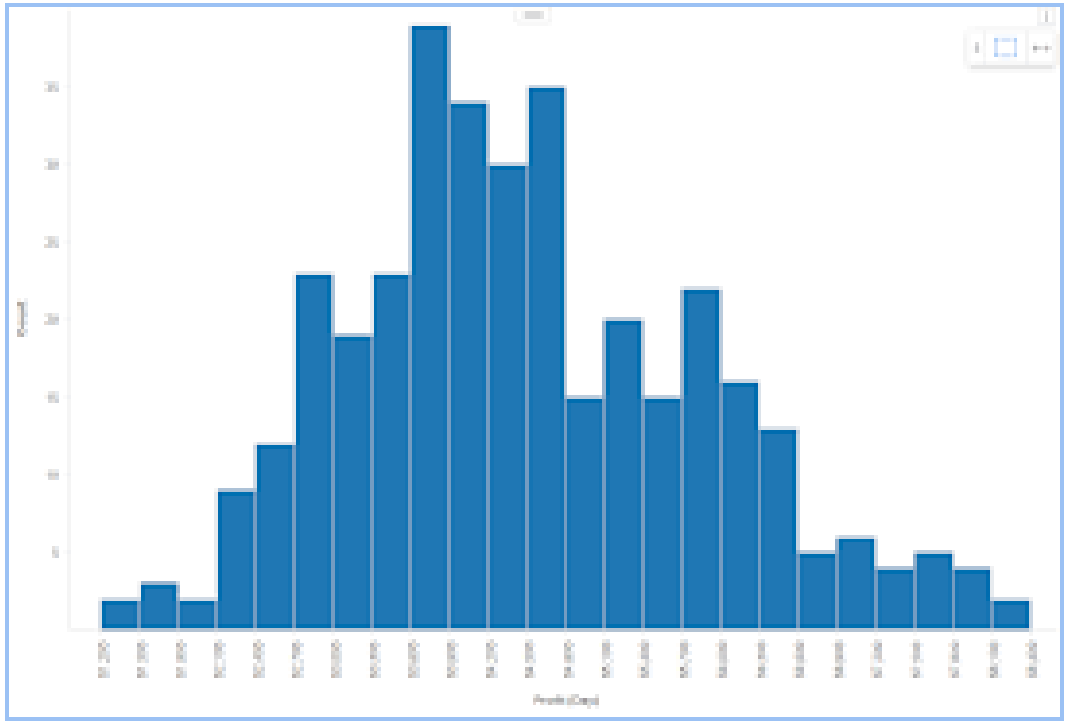
Line Charts

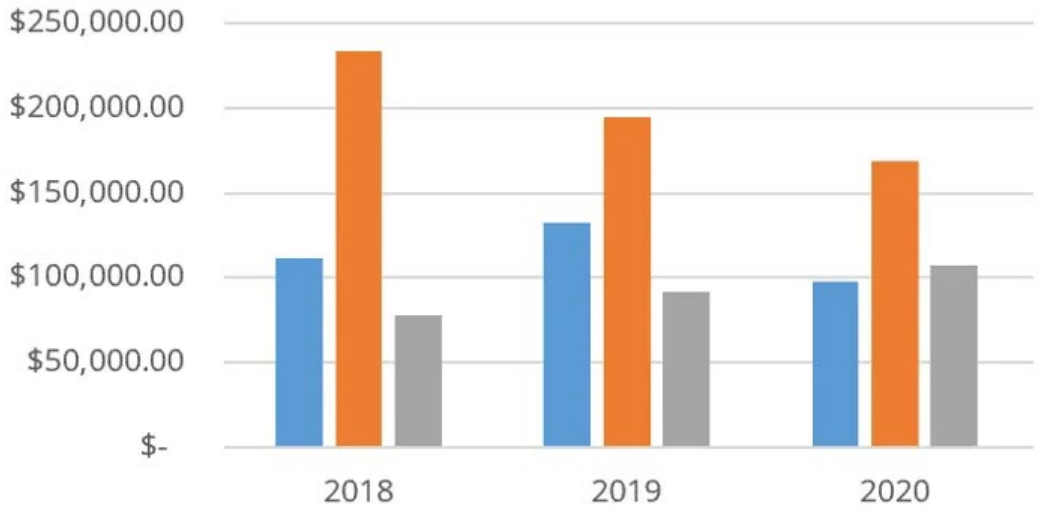
- For time series
- Helps to visualize trends and patterns



Histograms / Bar plots

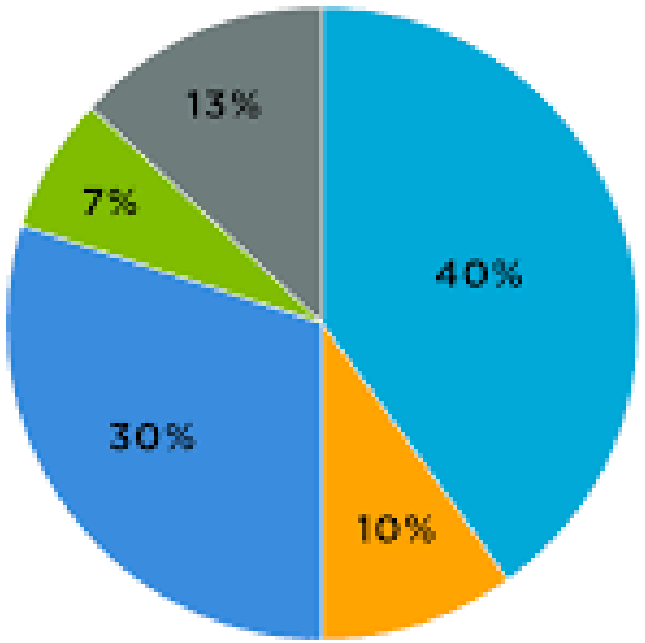
- To illustrate frequencies

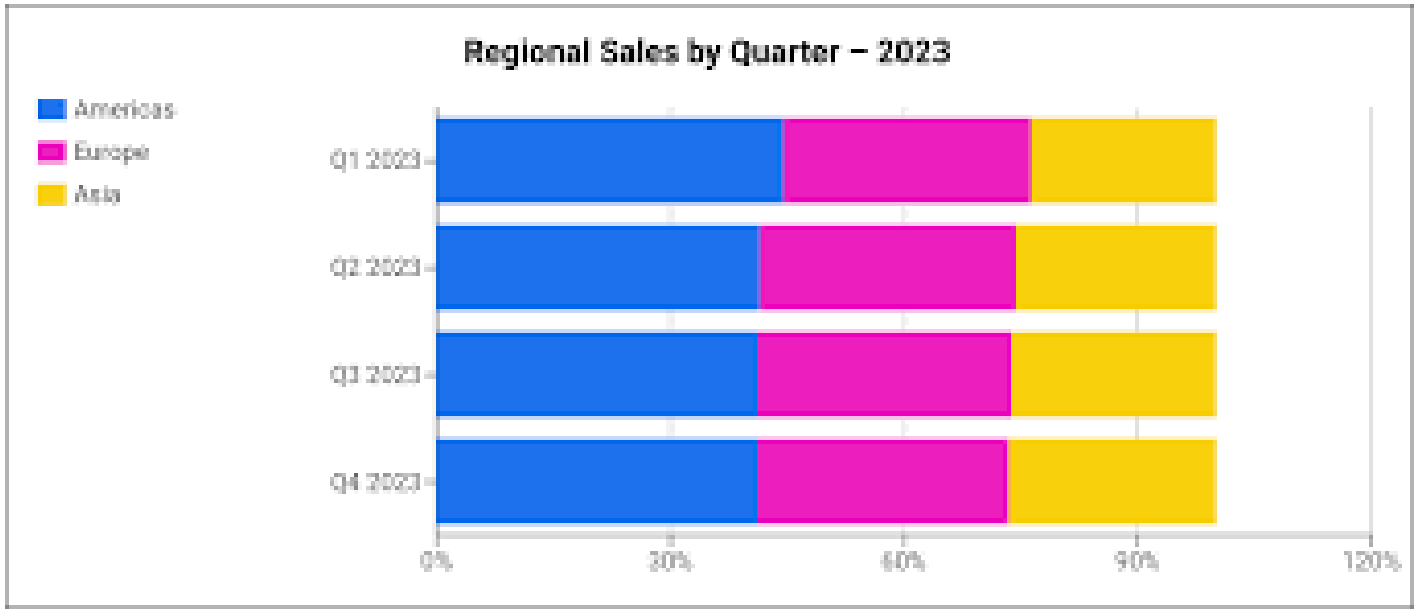




Stacked Bar Charts / Pie Charts

- To illustrate the percentage on a whole





Scatterplots

- To illustrate the correlations between two features