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Data acquisition and management

CAS Applied Data Science - Module 1

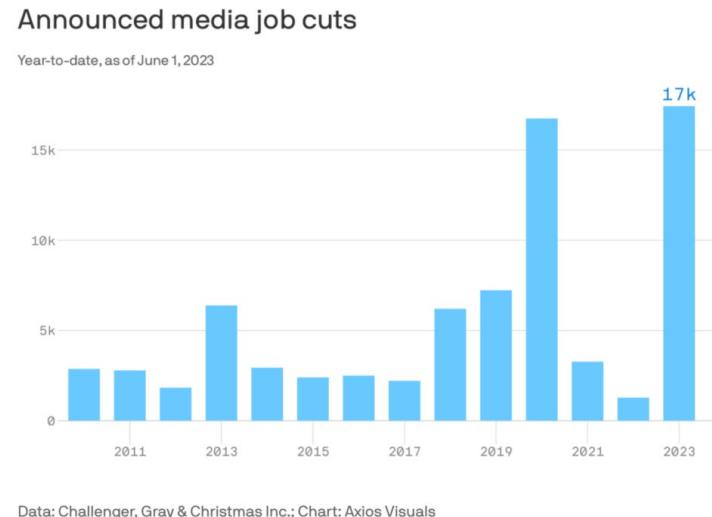
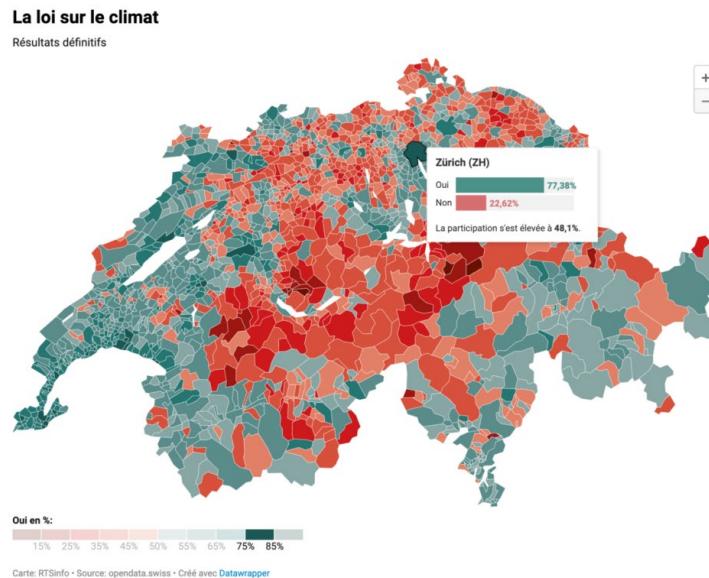
Dr. Anja Mühlemann

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Open Questions from yesterday

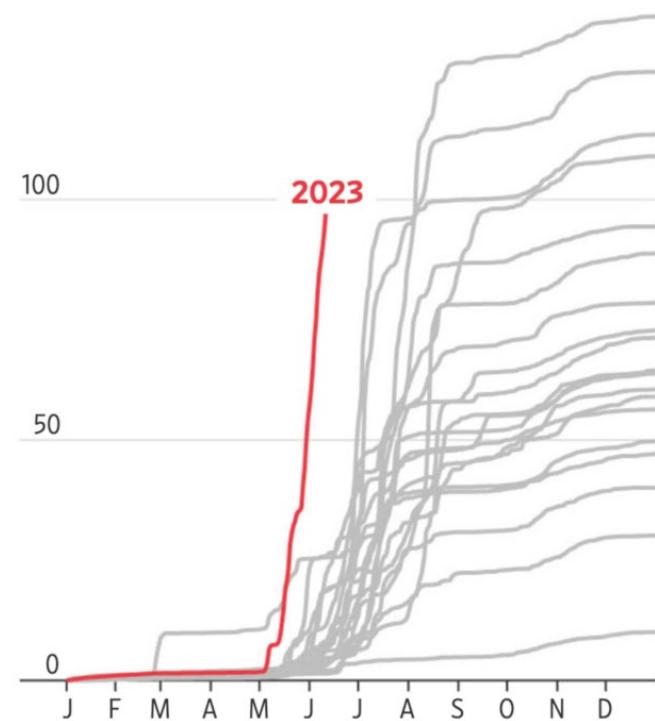
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Data Visualisation Examples



Cumulative daily carbon emissions from Canadian wildfires for the last 20 years

150 million metric tons



Source: Copernicus Atmosphere Monitoring Service/European Centre for Medium-Range Weather Forecasts

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Why?

Helps understand the data and makes

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

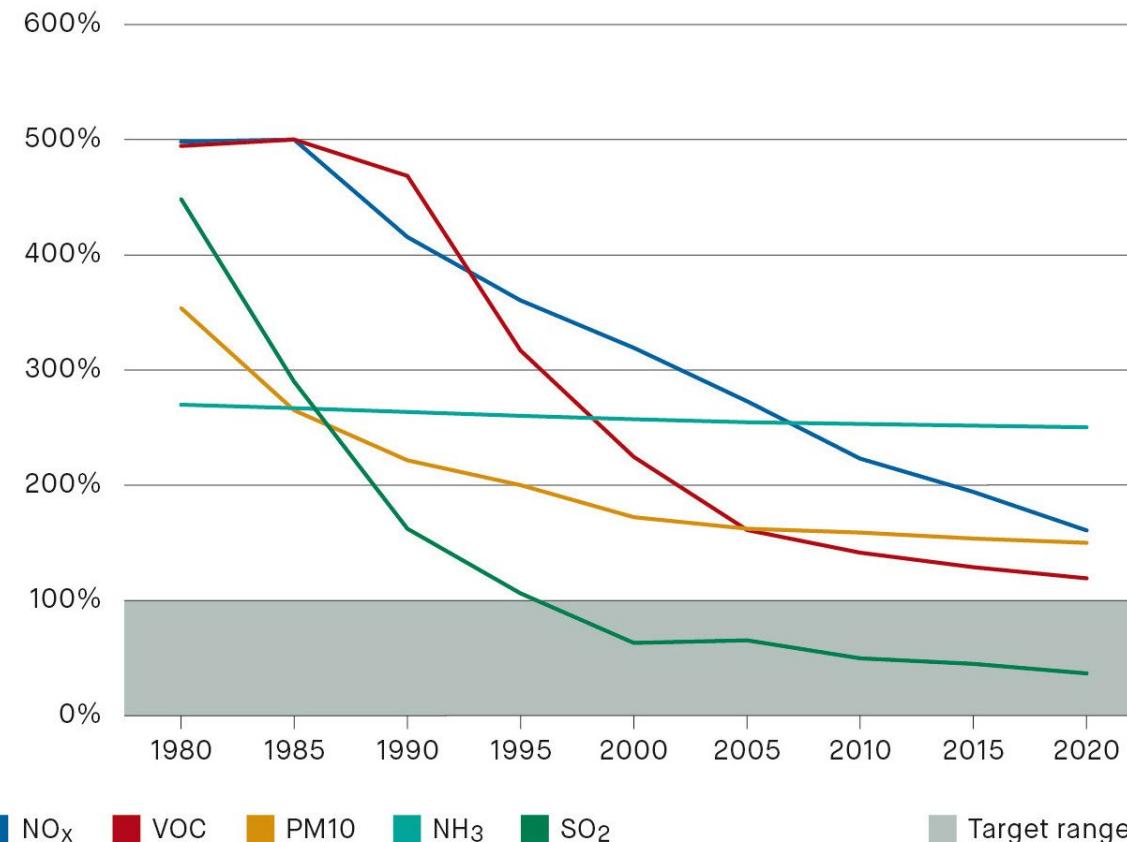
visible.

Rules

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

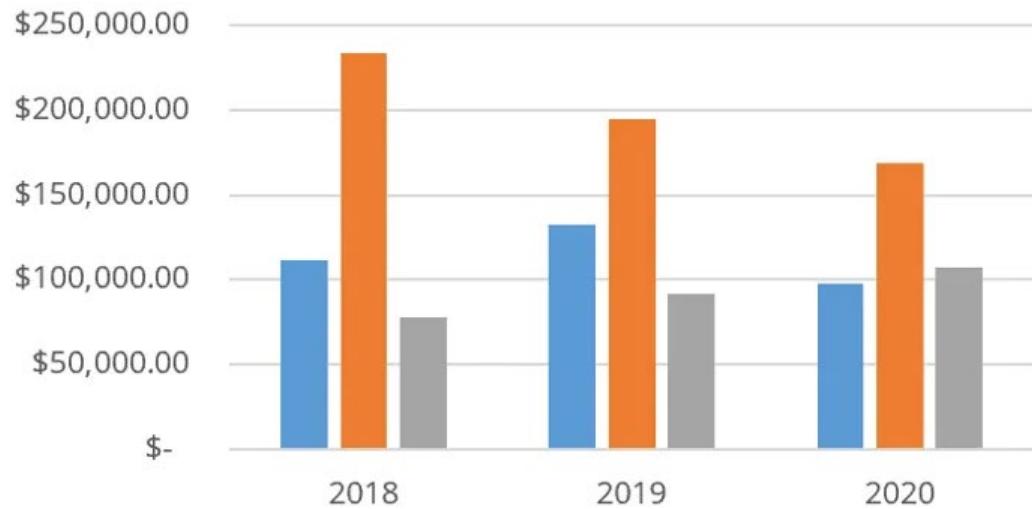
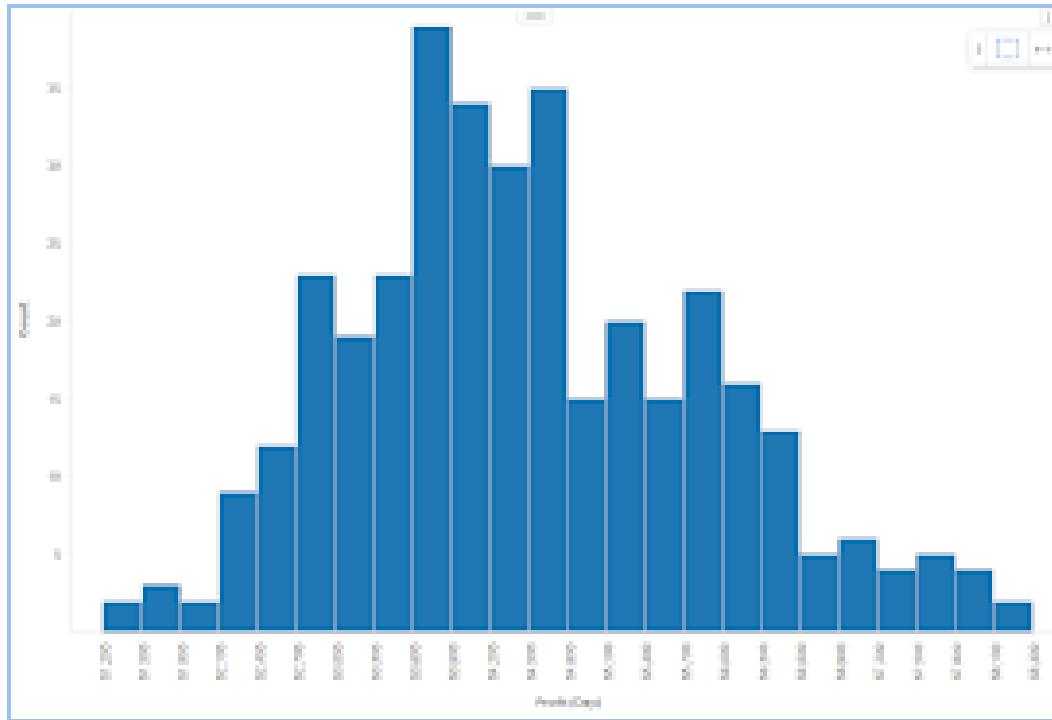
Line Charts

- For time series
- Helps to visualize trends and patterns



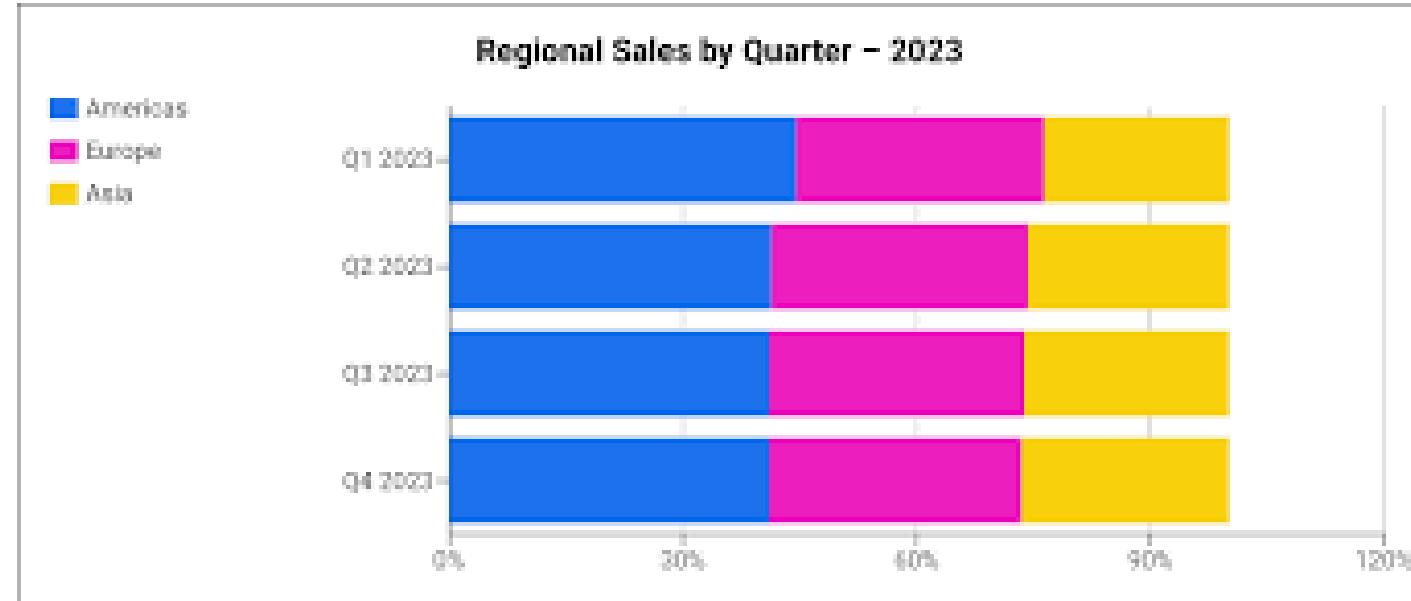
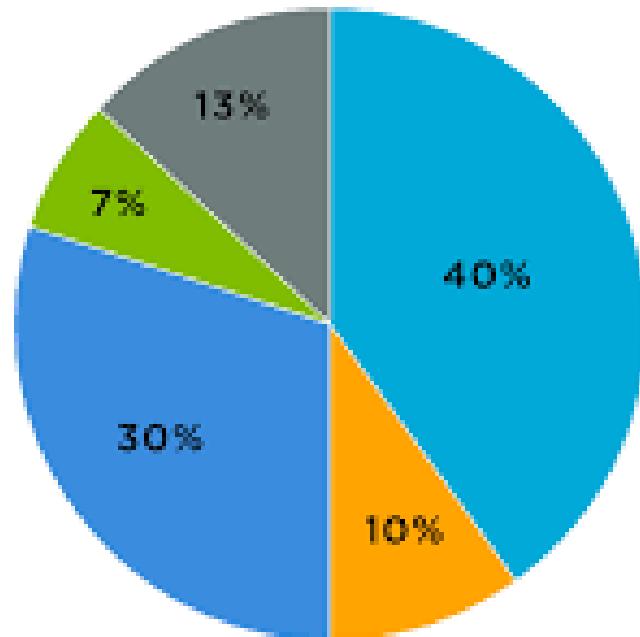
u^b Histograms / Bar plots

- To illustrate frequencies



Stacked Bar Charts / Pie Charts

- To illustrate the percentage on a whole



Scatterplots

- To illustrate the correlations between two features

