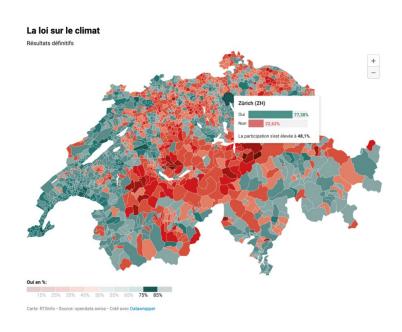
u^b Data acquisition and management

CAS Applied Data Science - Module 1

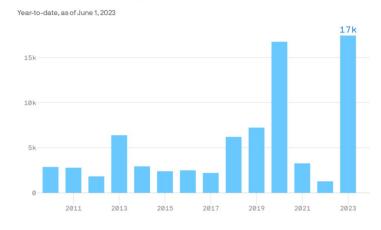
Dr. Anja Mühlemann

u^b Open Quesions from yesterday

u^b Data Visualisation Examples

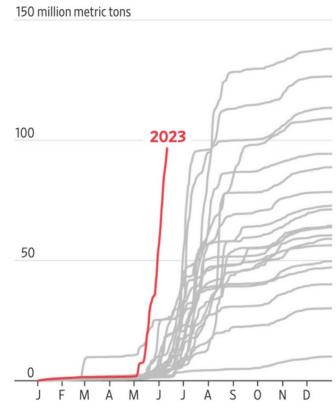


Announced media job cuts



Data: Challenger, Gray & Christmas Inc.; Chart: Axios Visuals

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



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

$u^{\scriptscriptstyle b}$ Why?

Helps understand the data and makes

- patterns
- similarities
- differences
- correlations

•

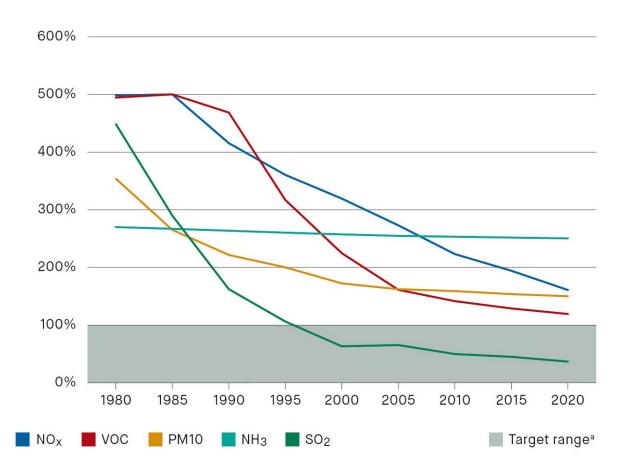
visible.

$u^{\scriptscriptstyle b}$ Rules

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

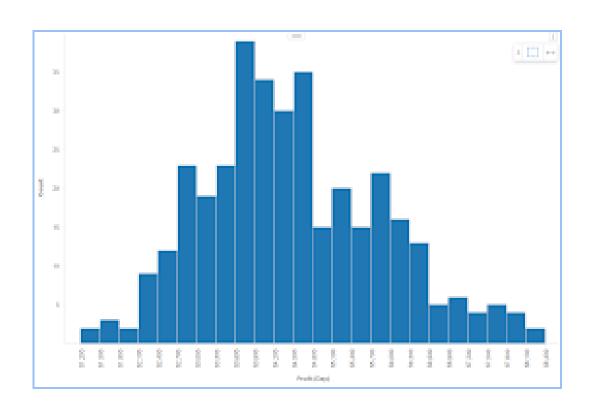
u^b Line Charts

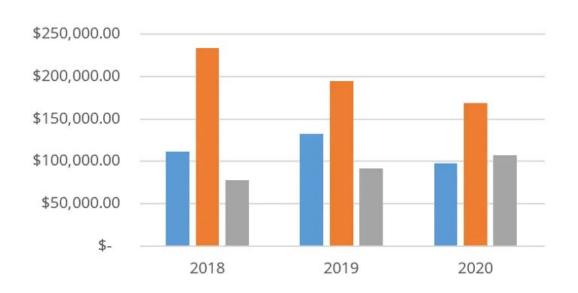
- For time series
- Helps to visualize trends and patterns



u^b Histograms / Bar plots

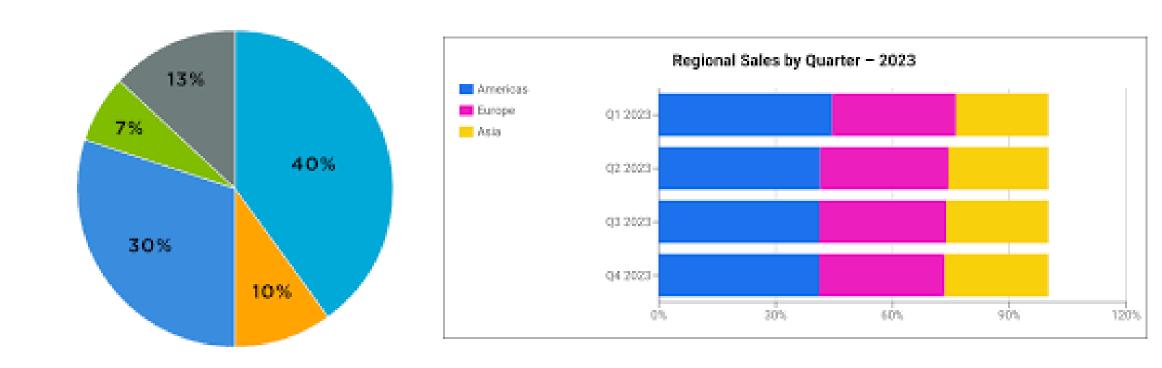
To illustrate frequencies





u^b Stacked Bar Charts / Pie Charts

To illustrate the percentage on a whole



u^b Scatterplots

To illustrate the correlations between two features

