INF358:

D3 Temporal Data Visualization

(Ex03 hand-in, Temporal Data Visualization)

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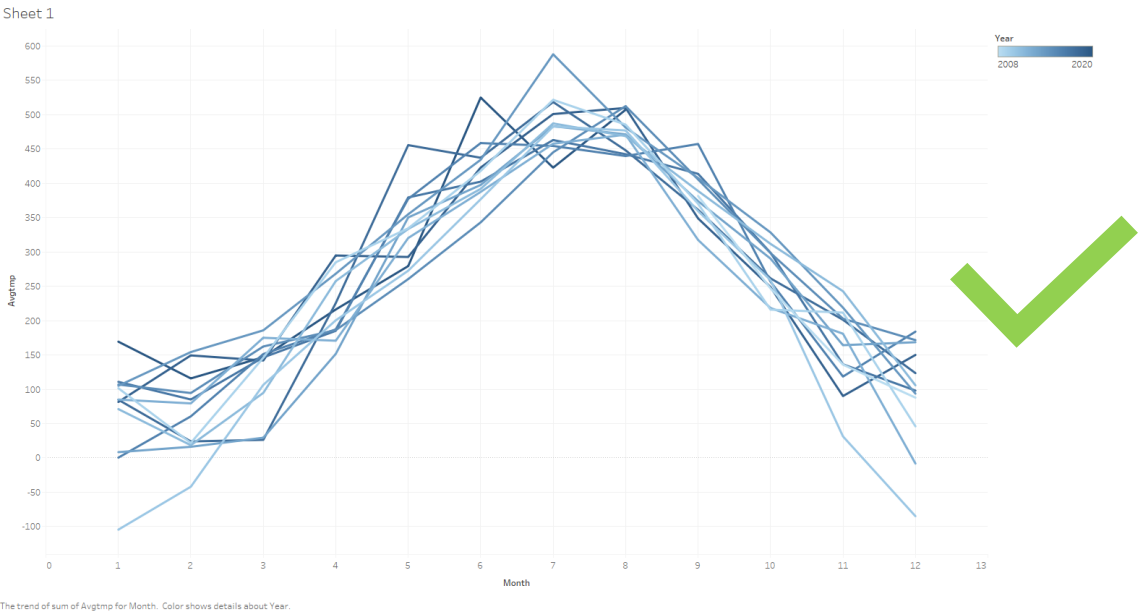
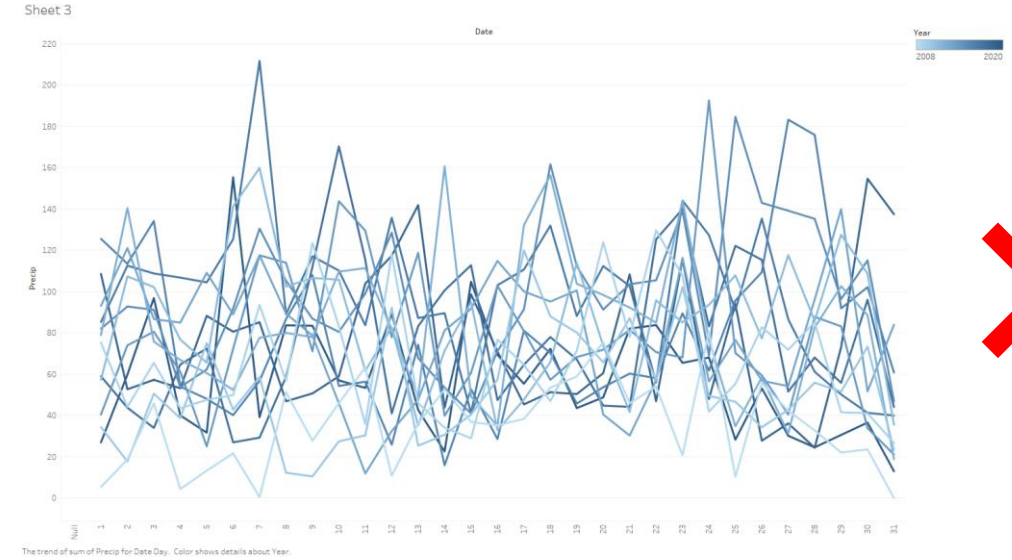
21.09.20

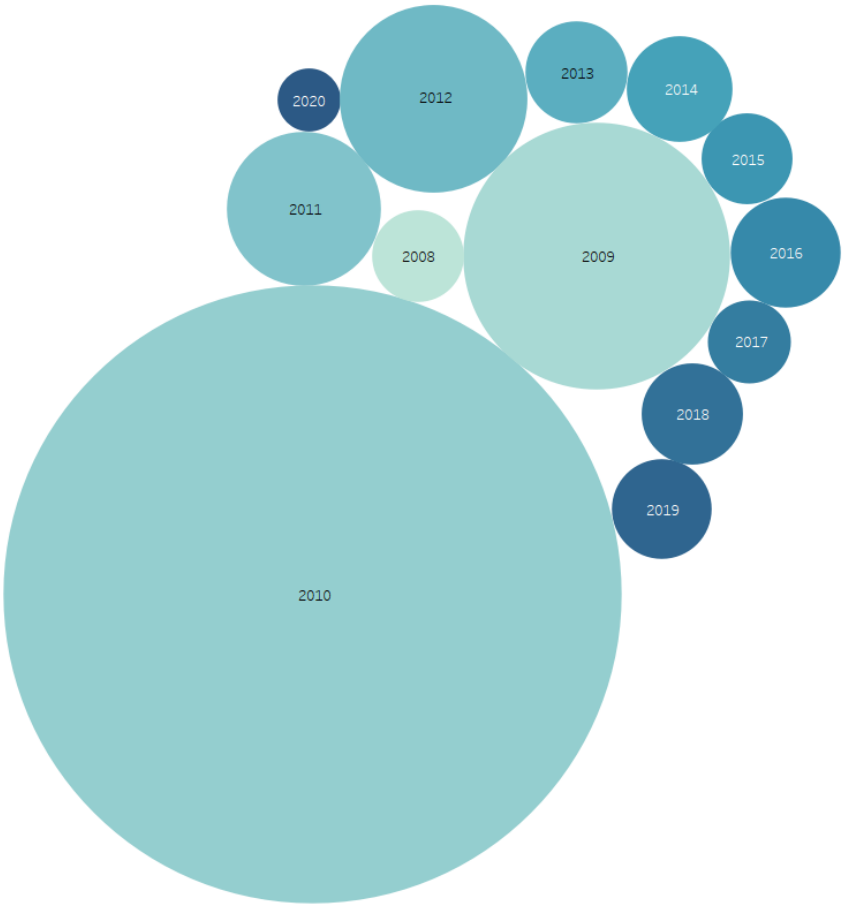
Ex03: Planning



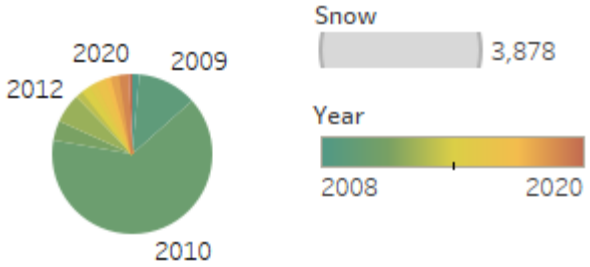


- **Rain over time**
- Sum of months are clearer than separate days
- Differentiated by year
- Comparable
- Accuracy importance?

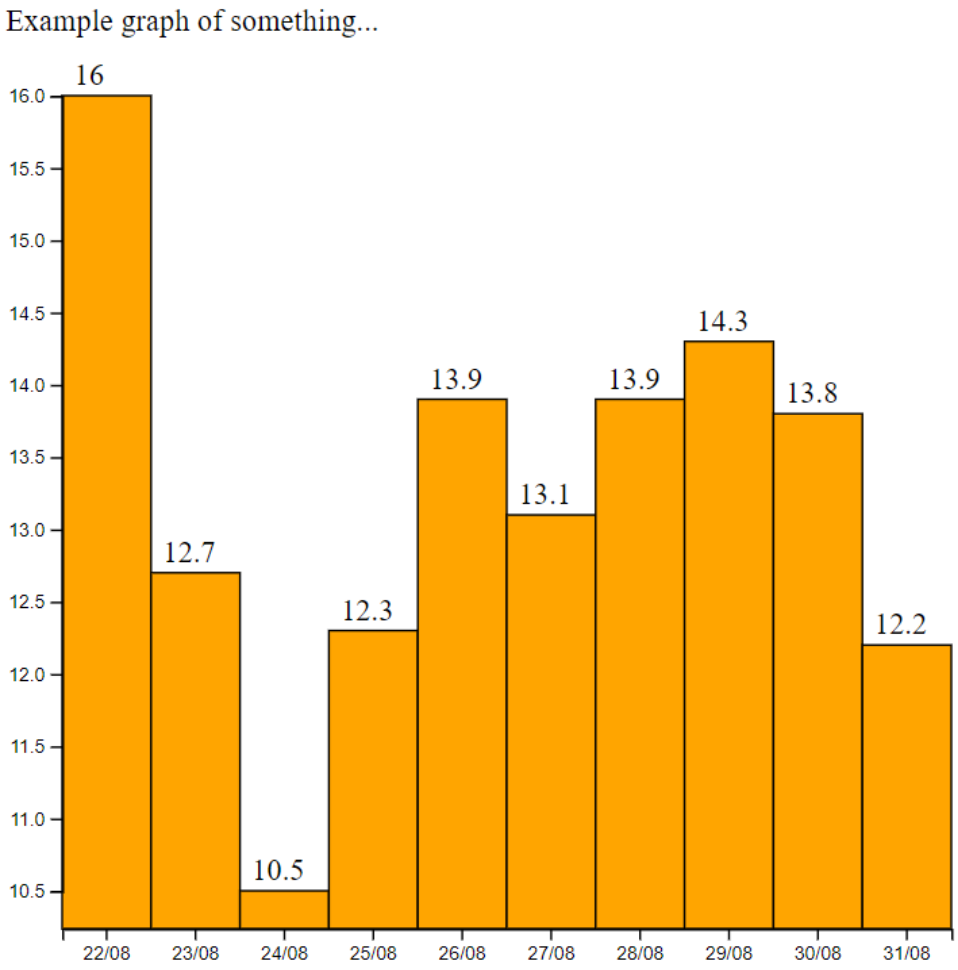
Ex03: Planning



- **Snow per year**
- Comparable
- Size channel
- Color channel?

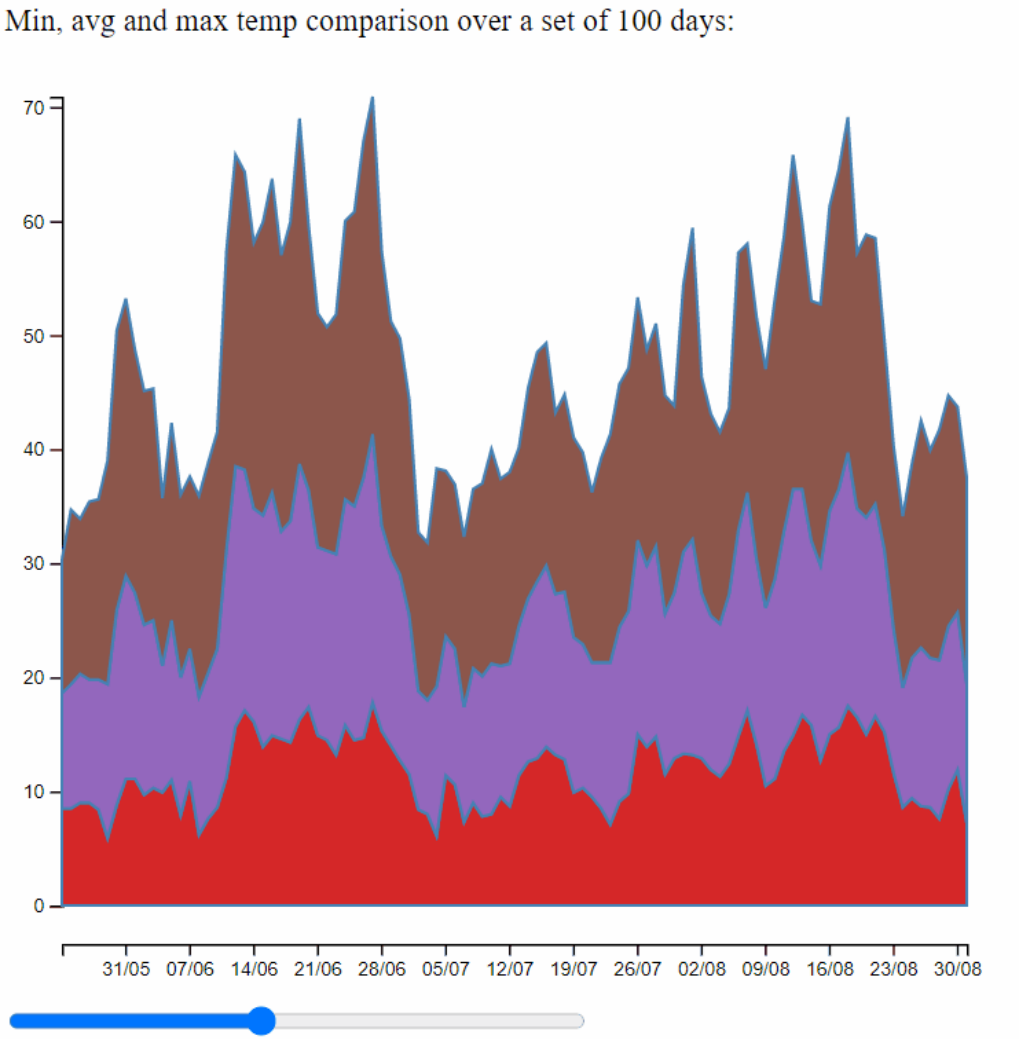


Ex03: D3



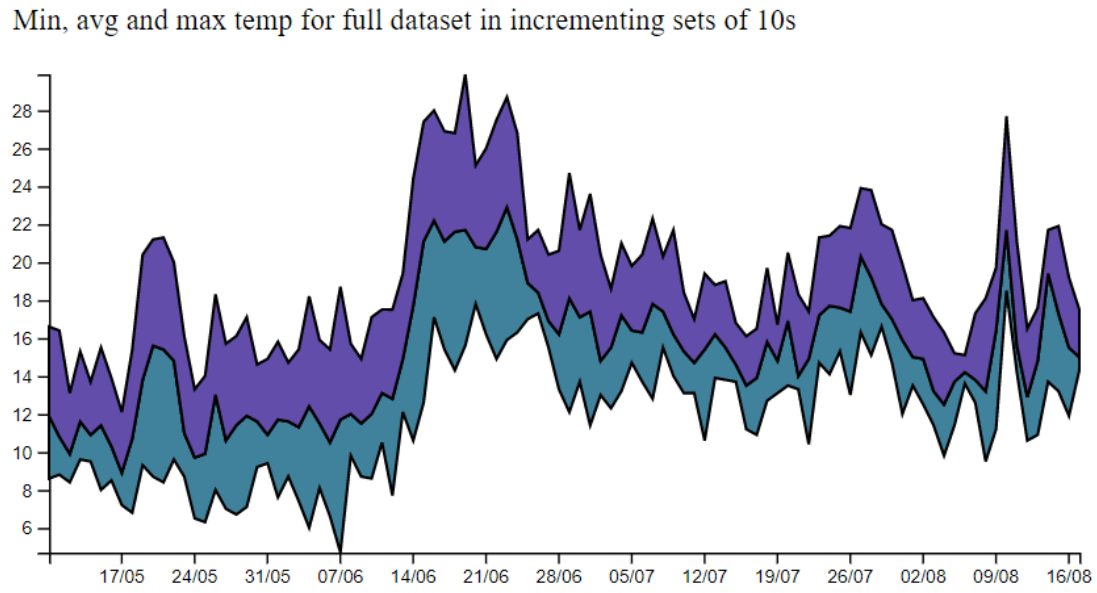
- Bar graph
- Data origin uncertain
- For learning purposes
- Axis direction important
  - Also reverse of browser

Ex03: D3



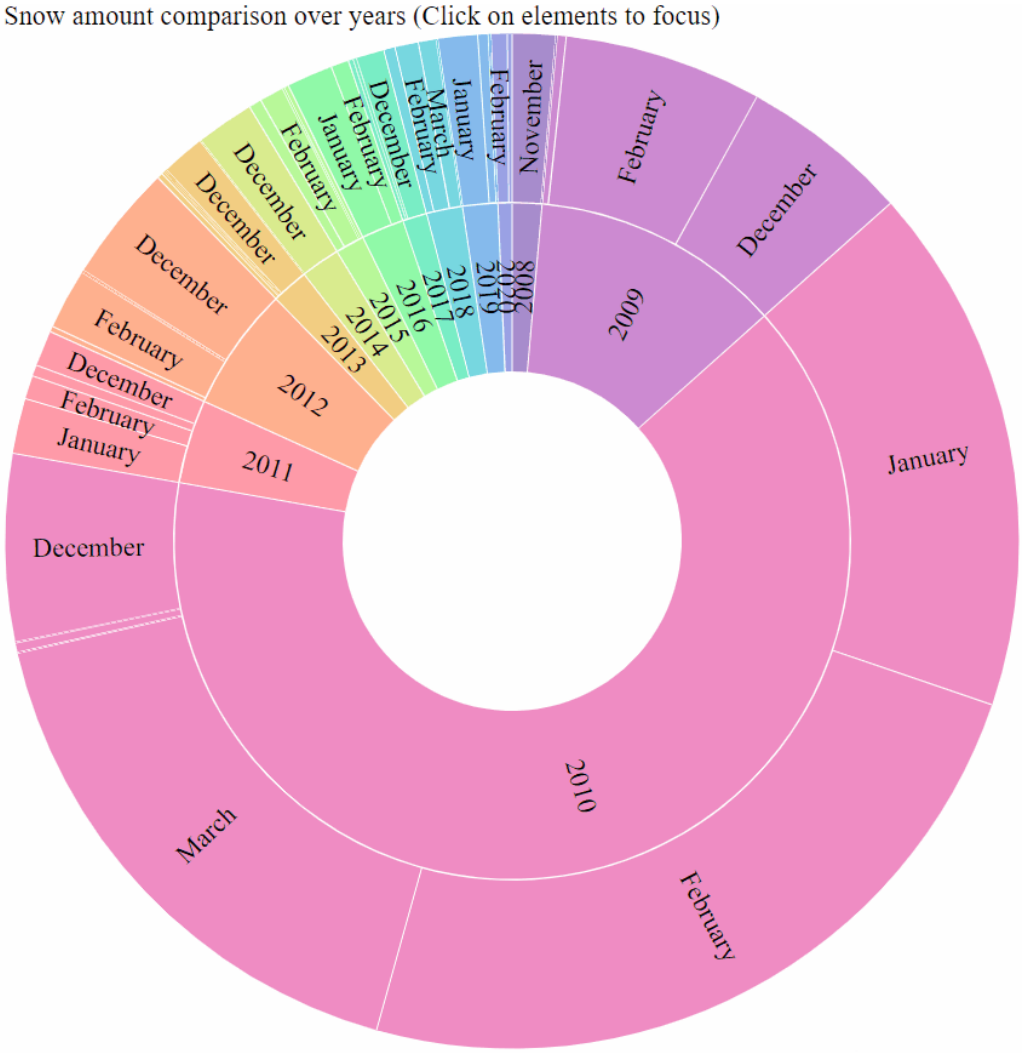
- Area graph of min, avg and max temperature
- Interractable by data input
- Comparable
- Terrible choice for temperature readoffs
  - Values on top of other areas gets distorted
  - Y-axis means nothing
- Wrong direction on x-axis with slider
- Unpleasant, but easily distinguishable color scheme

Ex03: D3



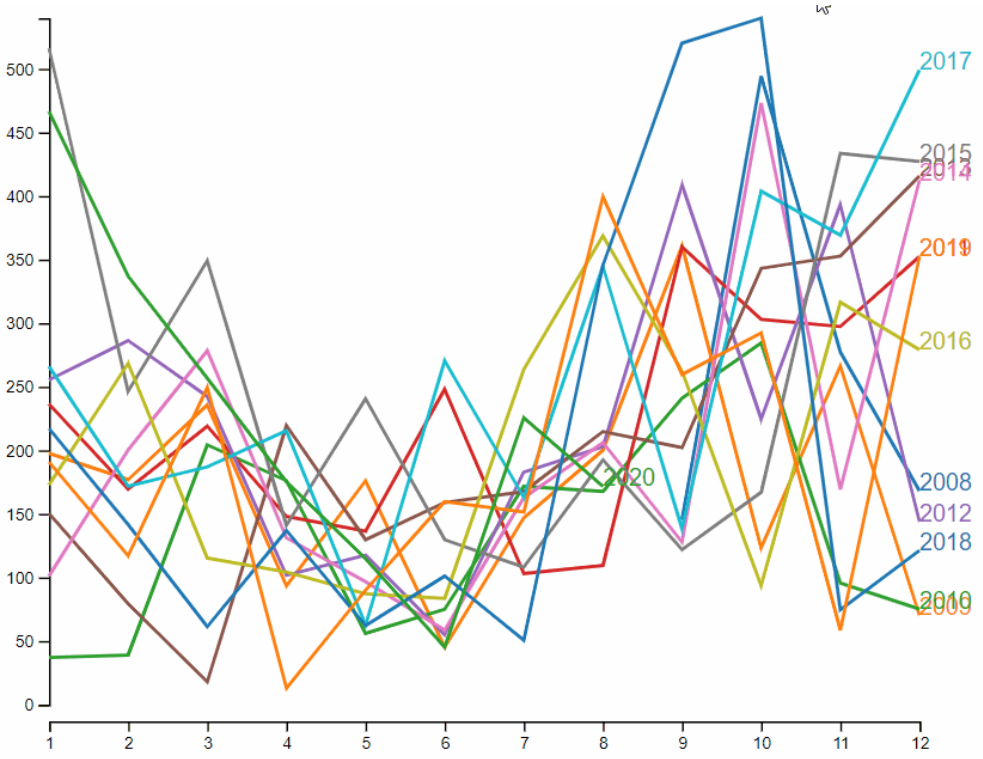
- Area graph of min, avg and max temperature
- Increments dataset with time
- Good for change comparisons
- Morphing animation makes it difficult to see context
- Correct readoff-values
- Would be handy with user control over dataset range.

Ex03: D3



- Sunburst pie chart with zoom showing amount of snow per time
- Comparable
- Changable scope
  - Minimizes problem with sunburst values being hard to read off the further out from the center you are
- Slightly boring color palette
  - Should've added color specter in leaf values aswell
- Sources:
  - https://observablehq.com/@d3/sunburst
  - https://observablehq.com/@d3/zoomable-sunburst

Ex03: D3



- Line chart with selectable values showing rain amount (sum) per month
- Focusable values
  - Much better readability
- Crazy color scheme
  - Very differentiable colors
  - Difficult to look at
- Readable values but sum of rain amount doesn't tell much
- Missing labels for axis

Ex03: D3

Check em out:

- Repository: https://github.com/andesyv/d3-data-visualization
- Live examples: https://andesyv.github.io/d3-data-visualization/

Ex02: Wrap-Up

Hours used to work out Ex02: *40(?), 1 week of learning and 1 week of working on exercise*

Lessons learned

- D3!
- A lot of JavaScript and HTML
- Formatting of data

Challenges

- D3
- Formatting and structure of data
- Working environment setup