Assignment 1

This assignment will be introduced and explained in week 3.

Goals:

- Understand how to critique a visualization
- ability to argue with the corresponding knowledge in visualization, and
- propose and sketch respective solutions.

Scope: Individually (one submission per student, through google classroom)

Weight towards course grade: 25%

Due date: Wednesday 15. May 2023, 23:59pm

Expected time investment: 8h

Descripion: **Analyze problems with a set of visualizations and propose improvements**.

1. Find **two** different visualizations (on the internet, in newspapers, TV, etc.) like those in the tutorial. Different means, e.g., a line chart, a network, a map, etc.
    - Explain who made the visualizations and in which context they were shown (Text book, Twitter, News, ...)
    - make sure to include the exact link to the visualization.
2. For each visualization, describe **three** faults and why they are problematic.
    - Give the fault a name
    - Explain possible implications and misinterpretations.
    - Describe possible improvements for each fault.
    - Make sure to report different faults for each visualiztion, i.e., in total you should report **six** faults.
3. For each of the two visualization,
    - Create **one** visualization that solves the identified faults (i.e., *two* visualizations in total).
    - Make sure to avoid any of the common faults discussed in class and the tutorials.
    - Create the final visualization either digitally (e.g., using any of the tools discussed in class) or by sketching using pen and paper.
    - For each solution you propose, argue how you have fixed a fault from the original visualization.
    - Make sure the message is the same as in the original visualization.

Handing in:

- Submit through Google classroom.
- Submit a single PDF with as many pages as you like. Words: 500-700

- Include references to any external references (web, papers, slides, etc) in your submission if you need them for your argument.
- You can draw onto the original visualization to highlight faults and problems.
- For the visualizations in #3, you can use *any* tool and medium you like: pen and paper, digital pens, illustrator, etc.

Marking scheme:

Task	**Max-points**
Two Visualizations found	4
Faults identified	24
Faults explained	24
Faults fixed	24
Fixes explained	24
Extra points: Creativity of proposed visualization(s)	4
Total:	**100**

Best !