Data Visualization - Take Home Assignment 1
Spring 2024

The purpose of this assignment is to practice your creative skills in designing a visualization with a specific dataset. You will draw **2 static visualization designs** for the specified data below.

Due Date
- 2024/04/01 (Mon) 9 pm

Requirements:
- Use the fictional company dataset (Startups.xlsx) on the course website
- Brainstorm questions you want to ask with this dataset. The best questions are the ones that would need a visualization.
- Brainstorm static, novel, and effective visualization design ideas. A good visualization design idea in this assignment will be novel and visually interesting, visualize many variables effectively, and facilitate the discovery of many insights.
- **Sketch 10 visualization ideas on paper during your brainstorming session**, these ideas do not need to be accurate and have a lot of details, but they need to show you have considered many alternatives of various designs.
- Draw **2 best static visualization designs in detail** and indicate which questions they can answer. You can draw them on paper and photograph them or use digital drawing tools. Use colors as needed. You are not allowed to use tools that can automatically generate charts/visualizations.
  - https://medium.com/accurat-in-sight/sketching-with-data-opens-the-mind-s-eye-92d78554565
- For each design, you do not need to draw all the variables, but you need to draw all the data points of the variables that are included.
- You do not need to draw values very accurately.
- The 2 visualization designs should be as different as possible.
- Critique each visualization design. Discuss what is good about each design and what might be its limitations (recall the design principles).

Deliverables:
- Report in slides
  - Upload PDF format
  - Slides in 4:3 dimension
  - At most 10 slides
  - Write in English
  - Include information about you (student id, name)
  - Include photos of the 10 design ideas you sketched on paper in a grid
  - Include the following content for each visualization design
    - Drawing of visualization design
    - Questions the visualization design can answer
    - Critique of the visualization design
  - References

Rules:
- THE ASSIGNMENT HAS TO BE WRITTEN INDEPENDENTLY BY YOU.
- If you referenced an online source, also cite it.
- Late policy: this assignment will be docked 10% for every day late and will not be accepted 5 days after the due date.