Final Project Progress Report 1

(due May 3rd 11:59p.m)

Yijun Luo

You can start working on the project once your report is accepted and graded by your TA. The entire final project is worth **35%** of your final grade and this report accounts for **10%**. This project is done individually.

Submission Guideline

Download this google doc, fill the table (**Type** your answers, no handwritten answers will be accepted) and submit it in **PDF** format on Gradescope.

If you need some inspirations please feel free to take a look at:
[Showcase of Information is Beautiful Awards](#)
[Bloomberg Year In Graphics Review](#)
[The Pudding](#)
[The New York Times](#)

Project Guidelines

1. You may use more than one dataset, however, regardless if you use one or multiple datasets, your visualizations must make use of at least three unique data types (tabular, link (node-link), position (location) etc.)
2. You cannot use any dataset from the class (Labs, Assignments, Lecture Exercises)
3. You can make your own dataset (Web scrape etc.) provided point 1. is satisfied.

I have 2 project proposals. Not sure which one to continue. I am more interested in the second, but I feel like the first one is more practical to work on. I will be really appreciated if you have any suggestions.

Project proposal 1

Project Topic	Visual Analysis of Forbes Billionaires
Dataset Description	Provide 1) The list of attributes

	Name, Net Worth, Age, Country, Source, Industry 2) A single item (row) in the dataset as an example. Elon Musk, $180 B, 51, US, Tesla SpaceX, Automotive
Dataset Link	https://www.kaggle.com/datasets/surajjha101/forbes-billionaires-data-preprocessed (2022 Kaggle) https://www.forbes.com/billionaires-2022/ (2022) https://www.forbes.com/billionaires/ (2023)
1.Why did you choose this particular dataset? 2.What kind of story do you aim to deliver? 3.Who is the intended audience?	1. I choose these two datasets of Forbes Billionaires particularly because I want to analyze the fluctuation of commercial market through the changes of Forbes Billionaires ranking between last year and this year specifically 2. The story I want to deliver is that the change in Forbes Billionaires reveal certain change in the commercial market. For example, the total net worth of all billionaires in 2023 is less than that of 2022 shows the recession of global economy; Bernard Arnaut taking place as the world's richest person and many other owners of luxury brands rising on the ranking shows a stronger recovery in the industry of luxury than any other industries. 3. The intended audience is investors, venture capital firm, and everyone who is interested in commercial or stock market
[Task Abstraction] What is the action and target of the questions your project answers?	Identify the industry that has its billionaires' wealth increase the most
[Optional] Are there any derived attributes you plan to create?	Plan to create links between billionaires who share the same company. Plan to add a categorical attribute "Change in Wealth". It can be "up", "down" "unchanged."
[Optional] Any link(s) you referred to for inspiration	

Project proposal 2

Project Topic	Exploring stars around us

Dataset Description	Provide
	    1) The list of attributes
	    Star name, Distance, Mass, Radius, Luminosity
	    2) A single item (row) in the dataset as an example.
	    Alpha Centauri, 4.4, 2.1, 1.71, 2

Dataset Link	https://www.kaggle.com/datasets/thedevastator/properties-of-stars-in-our-galaxy?select=total_stars.csv
1.Why did you choose this particular dataset? 2.What kind of story do you aim to deliver? 3.Who is the intended audience?	1. I choose this dataset because I want to explore known stars in our universe and this dataset provides different kinds of important data for each star 2. I want to use visualization to present the information of stars. Of how big our universe is. The distance between stars are really far based on our current technology… 3. The intended audience astrophile and everyone who is interest in space exploration
[Task Abstraction] What is the action and target of the questions your project answers?	Identify the closest stars that is most similar with our Sun
[Optional] Are there any derived attributes you plan to create?	Plan to add one more attribute "temperature" by using the law in astronomy. Knowing luminosity and radius of a celestial body, we can calculate its surface temperature