Final Project Proposal

(due March 10th 7:00p.m)

This document outlines the guidelines for the project proposal. You can start working on the project once your proposal is accepted and graded by your TA on gradescope. The entire final project is worth 25% of your final grade and the proposal takes account for **5%**. There is no late-submission on the proposal.

Submission Guideline

Download this google doc, fill the table 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

Project Proposal

	Description
Project Topic	League of Legends Professional Player Stats in World Championship 2022
Dataset Description	Provide 1) the list of attributes and 2) a single item in the dataset as an example. 1. Attributes a. `'Player', 'Team', 'Region', 'Pos', 'KDA', 'DPM', 'GP_player', 'GP_team', 'Rank', 'WPM_player', 'WPM_team', 'Latitude', 'Longitude'`

	b. ▼ 0: "": "0" DPM: "594" GP_player: "14" GP_team: "14" KDA: "2.9" Latitude: "35.8617" Longitude: "104.1954" Player: "369" Pos: "Top" Rank: "3" Region: "LPL" Team: "JD Gaming" WPM_player: "0.38" WPM_team: "3.35"
Dataset Link	Players: https://oracleselixir.com/stats/players/byTournament/2022%20Season%20World%20Championship%2FMain%20Event Team: https://oracleselixir.com/stats/teams/byTournament/2022%20Season%20World%20Championship%2FMain%20Event
Why you chose this particular dataset. What kind of story you aim to deliver (e.g “Sales analysis of company xyz”)	Hint) You can refer to the storytelling lecture slides. I chose this dataset because I am a League of Legends player, and I hope to analyze each player’s performance in the world championship 2022.
1 plot with 0 Key and 2 values	i) Question you are asking from this graph. Among 5 position, what is the relationship between KDA and DPM ii) Columns you are going to use KDA (killing death assistance rate) VS DPM (average damage to champion per minute)

	iii) Type of graph Scatterplot (circle)
1 plot with 1 key and 1 value	i) Question you are asking from this graph. Does more game play implies that the team has a higher ranking? Order the graph by rank of the team. ii) Columns you are going to use Team vs GP (game play) Rank iii) Type of graph Bar plot
1 plot with 2 keys and 1 value	i) Question you are asking from this graph. Knowing that vision score is very important in games, and ward count is independent among each player. Does higher WPM implies they have a higher rank? Order the graph by the rank of each team. ii) Columns you are going to use Key: Team, Pos Value: WPM (ward place per minute) iii) Type of graph ~~Stacked Bar plot~~ I drew a multivariate bar plot instead to visualize each player's performance better
1 geometric visualization	i) Question you are asking from this graph. The number of teams in each region that compete in the tournament. ii) Columns you are going to use Player and Region iii) Type of graph World geography

1 visualization from - box plot, node-link diagram, adjacency matrix	i) Question you are asking from this graph. How many times does each region went against each other What's the distribution of DPM among regions ii) Columns you are going to use I will have to modify the data or create new data that can be used to graph a node link diagram. DPM, Region iii) Type of graph ~~Node link~~ Box Plot
1 interactivity using Buttons	Describe in which visualization you plan to add the button-related interactivity I can add a button to sort the value by a certain order
1 interactivity using Tooltips (Display data on hover).	Describe in which visualization you plan to add a tooltip. I am thinking of adding tooltips on geometric visualization showing the number of teams and each team name in each region. Another idea I am thinking is I can put a tooltips on the stacked bar graph where
1 interactivity using Animation.	Describe 1) what type of animation you plan to add and 2) in which visualization you plan to add. I can add two different sort values buttons. One is to sort by the value itself, another one will sort the team by each rank. And I am planning to add it in the two bar plot. I also added transition for each button sort
1 interactivity not learned in class	Describe 1) what type of animation you plan to add and 2) in which visualization you plan to add. ~~I am thinking of adding a filter checklist in my scatter plot so people can focus on the specific position they are interested in.~~ I added a multivariate bar chart and box plot instead.

Any creative form of plot you want to try for the five you selected above? (e.g. pictogram)	Hint) You can refer to the storytelling lecture slides. Note) This is going to be for extra credit. I am thinking of adding each team label in some of the visualizations. Or add the picture of the player next to their names.