

Final Project Proposal (deviated slightly from original 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	Boba Shops in the Bay Area
Dataset Description	<p>Provide 1) the list of attributes and 2) a single item in the dataset as an example.</p> <p>The list of attributes:</p> <ul style="list-style-type: none">- address- city- id- lat- long- name- rating <p>Example:</p> <pre>{address: "46827 Warm Springs Blvd", city: "Fremont", id: "gong-cha-fremont", lat: "37.3885682635695", long: "-121.929191268869", name: "Gong Cha"}</pre>

	rating: "4.0"}
Dataset Link	https://www.kaggle.com/datasets/vnxciaire/bobabayarea
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. As an avid boba lover, I thought that choosing a boba dataset would be fitting. This specific boba dataset is boba from the Bay Area, even though I am not from the Bay Area. The story that I am aiming to deliver is which overall location in the Bay Area contains the highest rated boba and highest number of boba shops.
1 plot with 0 Key and 2 values	<p>i) Question you are asking from this graph. Is there a correlation between the number of boba shops and the average rating of it?</p> <p>ii) Columns you are going to use rating</p> <p>iii) Type of graph Scatterplot</p>
1 plot with 1 key and 1 value	<p>i) Question you are asking from this graph. For a given boba shop name, how many of them are there in the Bay Area?</p> <p>ii) Columns you are going to use name</p> <p>iii) Type of graph Barplot</p>
1 plot with 2 keys and 1 value	<p>i) Question you are asking from this graph. How many boba shops are in a given city?</p> <p>ii) Columns you are going to use lat, long, city</p> <p>iii) Type of graph Heatmap</p>

1 geometric visualization	<p>i) Question you are asking from this graph. For the largest chain of a boba shop, how many shops are in a given city?</p> <p>ii) Columns you are going to use city, lat, long</p> <p>iii) Type of graph Geographical</p>
1 visualization from - box plot, node-link diagram, adjacency matrix	<p>i) Question you are asking from this graph. What is the interquartile range of boba shops ratings in a given location?</p> <p>ii) Columns you are going to use city, rating</p> <p>iii) Type of graph Box plot</p>
1 interactivity using Buttons	<p>Describe in which visualization you plan to add the button-related interactivity</p> <p>When I click the button, the cities that do not contain any boba shops will disappear from the visualization for my geographical graph. Likewise, when clicking the other button, the cities that do not contain any boba shops will still be in the visualization.</p>
1 interactivity using Tooltips (Display data on hover).	<p>Describe in which visualization you plan to add a tooltip.</p> <p>For my scatterplot, when you hover over a circle, it will provide more information about that given circle, such as why the circle is that size and the specific number of shops that makes the circle that size.</p>
1 interactivity using Animation.	<p>Describe 1) what type of animation you plan to add and 2) in which visualization you plan to add.</p> <p>I will animate the cities that do not contain boba fading away on the geographical graph depending on which button is currently active. Likewise, I will fade in the cities that do not contain boba as well, which is dependent on which button is currently active.</p>

<p>1 interactivity not learned in class</p>	<p>Describe 1) what type of animation you plan to add and 2) in which visualization you plan to add.</p> <p>When you hover over the barplot, the bars will move up and down, simulating the milk tea wavy drink effect when one shakes a container.</p>
<p>Any creative form of plot you want to try for the five you selected above? (e.g. pictogram)</p>	<p>Hint) You can refer to the storytelling lecture slides. Note) This is going to be for extra credit. Overall for the entire project, I am trying to represent the aesthetic of boba, as shown with the different background colors being different boba drinks and most of the color scheme revolving around the milk tea colors and utilizing black circles whenever possible to imitate boba.</p>