Assignment 5 and 6

You can choose from one of the two options below.

Option 1. Visualization Interface

Read the following document: https://drive.google.com/file/d/1BRGjx3QQVnM9AUVxXRE_nNl6aBqtgW9t/view?usp=sharing

Use this, and the example visualizations covered in the class, colors and perception to create a visualization for the dataset that you selected.

SUBMISSION

You need to submit the following items.

1. Sumit a clear picture in jpg format (created using paint, powerpoint, or your favourite image/-paint software) to visualize the dataset that you choose. **Be ambitious in your design. It does not matter whether you will be able to implement it or not. This is only to evaluate your ability to design.**
2. A document containing a list of at least 3 different questions that can be answered using your visualization dashboard. Describe how to answer those questions using your visual interface.
3. Implement an interactive plot to answer at least 1 question that you described in Step 2.
4. Submit in moodle a single zip file of your project, which also includes a readme file describing how to lunch your project with the title "CMPT384-2019-Team Number". If it is very big, then submit a link (Dropbox or Google Drive) in Moodle.
5. Meet your instructor to discuss your implementation and individual presentations (time slots will be posted in moodle).

Marking

The marking will be based on the following criteria:

For (1), the mark will be based on the quality of the Organization (e.g., space, alignment, font, grouping of different elements, etc.) and the aesthetic appeal (e.g., fonts, color combinations, choice of visual elements, etc.) chosen to create the visualization.

For (2), the mark will be based on the consistency of the questions and visualization, and the feasibility of the interactions to answer those questions.

For (3-5), the mark will be based on the functionality of the system you developed, the question you are trying to answer, and the challenges that you tried to tackle. In the presentation with the instructor you will be asked about the implementation goals, challenges, and how you tackled some of the challenges. In addition, individual student will be asked to modify part of their code to change the design. So make sure you understand every part of the implementation - whether you implemented alone or in a team.

Option 2. Visualization Theory

If you discussed with your instructor to work on a theory project, then you must pick an algorithm (of mutual interest) to implement to create a visualization from scratch (possibly for the dataset that you picked, depending on the nature of problem that you are solving). Discuss with your instructor by Nov 07 if you choose this option.