

Group Project 2014

In this project, you will apply the visualization techniques and design considerations you have learned to visualize a data set of your own choice. This is a group project and you are required to work in groups of 2 or 3. It is expected that each of you will spend approximately a total of 35 hours on the project. Note that *you will be graded individually*.

Stage 1: Project Proposal (20%)

Due date: 11:59pm, Oct 3

Each group should submit a proposal (max. 2 A4 pages) describing what you will do for the project. Please send your group member list to the TAs by Sep 24.

The proposal should include, but not limited to:

- Names of students in your group, with student IDs.
- Project name.
- Project objectives. What is to be visualized and what is the goal?
- The data that you would like to visualize. You will need to find the data on your own. You should specify its source and describe its background. Your data should contain at least four attributes. You are also encouraged to use data from multiple data sources instead of one.
- The target visualization that you would like to achieve.
- The questions that you would ask about the data set and how you think your visualization could help answer them.
- A list of tasks to be accomplished.
- Division of labour. What are the tasks to be done by each team member?
- The tools or approaches that you plan to use to accomplish the intended tasks, and the justifications supporting your choices.

The purpose of the proposal is to help you define the project scope and consolidate your ideas. The instructor and the TAs will also give you feedback so that adjustment can be made if necessary. Note that during the process of working out your result, you may change your mind and use a design or a tool other than that specified in your original proposal.

Stage 2: Final report (60%)

Due date: 11:59pm, Nov 7

Each group needs to submit a writeup describing the process you have gone through to develop your visualization. The report can be an extension of your proposal, but it should also detail the process that you have gone through to arrive at your final results. Your report should therefore include, but again not limited to

- the difficulties that you have encountered
- the different visualization approaches that you have tried
- the visualization techniques that are realized in your results
- the explanation for your choice of techniques
- how your visualization can help answer the queries or questions you have on the data set
- any new insights on the data set that you found using your visualization
- any visualization or functionalities that you think should have included, but have not done so

The final report should be of no more than 20 A4 pages. Also, state clearly the tasks completed by each of the team members. Make smart use of graphics in your report.

Stage 3: In-class presentation (20%)

Date: Nov 12, 19 & 26 during the lecture

Details to be announced later.

Assessment Criteria

How is the project rated? Would the assessment be based only on the visualization part?

The assessment will be based on the followings:

- how you process and compile your data for the purpose of a meaningful visualization
- how you apply proper visualization design rationales and techniques
- how you make use of your visualization as a tool to explore your data set and obtain new insights from it

Hence, you should provide sufficient explanation and justification of your decisions, and demonstrate the efficacy of your visualization with appropriate examples.