

Final Project**Due Date: March 21, Wednesday, 7:00pm**

Must be presented in person to the instructor/class

Demo Date: March 21, Wednesday, 7:30-10:30pm, Phy Sci 110

Presentation Layout

Make following minor modifications to your project proposal submissions:

1. Consider changing the title to the new title suggested by the instructor or something more closely related to your *purpose*.
2. Make the text underneath the title *left-aligned* using a font size and font family similar to the examples listed above.
3. Under your name and email, add a link to your github with the title "Github Link". Make all this information and sources listed below in a *compact* (not too much empty space) font size *smaller* than the font size used for visualization so that the focus is on the visualization and not this additional information.
4. Organize your data sources, visualization sources, and references in a *columnar format* similar to
<https://atbarker.github.io/CMPS263CyberSecurity/>
or
<https://sbsample.github.io/SecurityVisualization/>
(choose the background to be very light grey as in this example)
5. There should be four columns: Add a new first column titled "Files Submitted". Under this list your html, css, files and later any additional files that you will use. 2nd column should be "Data Sources". 3rd column should be "Relevant Visualization Sources". 4th column should be "Code Sources".
6. Names for data files, data sources, visualization sources, and code sources should be meaningful as in examples described above.

Due Date: please make these changes at your earliest convenience, definitely before you begin to engage with the teaching staff on the final project sometime starting in the 7th week of classes. You can always update this information later, but the presentation layout should be implemented ASAP.

Phase 1: Data Design

The objective of data design is to identify the data that you will be using for the visualization *mindfully*.

1. Prepare a pdf document (and include it in your list of files submitted) in a columnar format that lists the *data variables* (with appropriate units) that you are considering to use in your visualization. For example, energy consumption per capita or population per capita, timeline (list years and frequency), location (list locations), parameters (such as gender, age, ethnicity, employment status, etc.) 1st column must be data variable name as used in the submitted data file. 2nd column must be data variable description. 3rd column should be units of data. Additional columns as needed. If dataset is rich and you have additional data variables that you are not sure whether you are planning to use or not, err on the side of including them so that these can be discussed with the instructor.

2. Every visualization is expected to have a tooltip. Identify which data variable will appear when the user hovers over some data? Indicate these variables in an additional column as "Tooltip Data". With a tick mark in the respective columns.

3. Every visualization will be interactive when a new display will emerge when the user clicks on certain variables. Identify which variables will be interactive? Indicate these variables in an additional column as "Interactive Data". With a tick mark in the respective columns.

4. Prepare the data that you will use for your final project and put it under the column Files Submitted. Please use a meaningful name for the dataset(s) rather than data.csv or data.json

Complete as much of Phase 1 as possible and engage with the instructor as soon as you are ready either during office hours or by appointment.

Phase 2: Visualization and Interaction Design

The objective of visualization design is to identify what visualization you will be using to convey your message most effectively. The objective of interaction design is to provide the user with the ability to explore the underlying richness of the data to gain further insights.

To be discussed and described later. Not needed for data design phase.

Phase 3: Final Polished Product

Deliverables:

1. Github link of the final visualization

2. Description of your contribution to the project (if the project is a group project)