**Project**

The goal of the project is to design and implement a web-based interactive visualization using d3.js that allows you to answer questions you have about some topic of your own choosing. You will acquire the data,

**Data source : ( see attached file – DataVizFloodsNJonly.xls) ONLY for NEW JERSEY**

**Source :** [**https://www.fema.gov/media-library/assets/documents/106308#**](https://www.fema.gov/media-library/assets/documents/106308#)

design your visualization, implement it using d3.js, and evaluate the results.

A simple 1 or 2 page design to look lsomething ike the top portion of this:

<https://www.fema.gov/node/296695>

- this would only have the map of new jersey.

The project will be graded based on the following rubric

|  |  |
| --- | --- |
| Item | Points |
| Description of data set (clear description of what the dataset is about and where it was sourced from). Discuss your motivations and reasons for choosing this dataset Description should be in html. | 5 |
| Questions to be answered with the visualization (At least three non-trivial well thought out questions). Questions should be in html. | 5 |
| Reading data using D3 from a csv or JSON file | 10 |
| Use of a CSS style sheet | 5 |
| Use of scales | 10 |
| Use of axes | 10 |
| Use of event listeners to make visual interactive | 15 |
| Use of transitions to add animation | 10 |
| Use of data joins (enter, update, exit) | 15 |
| Use of D3 layouts | 15 |
| Bonus: Use of GeoJSON for mapping | 15 |

**Deliverable:** All necessary files (.js, .html, .css) should be put on github and a link to the html page that shows your visualization should be posted on Piazza. Also all necessary files should be turned in via the blackboard final project dropbox.