CIS 4930/6930-902: Scientific Visualization (Fall 2015)

Project 2: Visualizing Data with D3.js

Overview: This assignment will familiarize you with the flexible, web-based visualization package D3.js.

Objectives: The goals of the assignment are for you to learn the capabilities provided by D3.js, experience a wider variety of information visualization techniques, apply your knowledge of visual design to select appropriate visualizations, and begin to formulate a visualization "story".

Ground Rules: This assignment is intended to be done alone. You may ask others for help with figuring out how to use D3.js or for feedback on your visualization choices. However, the write-up and its ideas should be developed by you.

Assignment:

1. Download the D3.js package (http://d3js.org/)
2. Gain familiarity with the package capabilities and visualization possibilities by exploring the Examples Gallery (http://github.com/mbostock/d3/wiki/Gallery) and Tutorials and Talks (http://github.com/mbostock/d3/wiki/Tutorials).
3. For this part, you will continue using your data and questions from Project 1. Reevaluate the success/interest/depth of your questions from Project 1 (revisit Munzner's Nested Model). Either using the same questions or newly developed ones, create three (3) D3.js visualizations to help answer those questions. Two (2) of those visualizations may be similar to those from Project 1. However, at least one (1) visualization must be a different type. **Note**: you don't have to create these visualizations from scratch. You may use the D3.js examples as templates. However, be sure to cite your sources!
4. Begin to develop a NY Times style data story (for example: http://www.nytimes.com/interactive/2015/09/04/world/europe/europe-refugee-distribution.html). This will need to consist of (at least) 3 visualizations. The story will need to explain the context of the data, the visualizations, and guide the reader's analysis. By the end of project 3, the goal is to have a data story you can show your friends, spouse, parents, etc.

Submission: Please submit the document and visualization code in a zip file on Canvas by the start of class on the due date. Your document can be in html or pdf format and has no length requirement.