

Class #1 -- 2 Feb 2017

- **To Do (in class)**
 - Syllabus, inspiration & geospatial demos
 - Assess students' backgrounds (informally)
 - Show them the d3-force jsfiddle/github demo
 - Get them going with a github account, jsfiddle, tools
 - Let's make a bar chart (Part 1): Put the HTML chart in jsfiddle
- **Inspiration from the master**
 - Examples from New York Times: <http://bost.ocks.org/mike/>
 - Visualizing data with Web standards: <http://mbostock.github.io/d3/talk/20111116/>
 - Time series visualization: <http://bost.ocks.org/mike/cubism/intro/>
- **Geospatial demos**
 - <https://bl.ocks.org/mbostock/5593150> -- vector tiles
 - <https://bl.ocks.org/mbostock/3711652> -- projection transitions
 - Earthquakes on a google map with brush
 - 3-D aquifer data
- **D3 Examples**
 - <http://bl.ocks.org/mbostock> -- Mike Bostock (the master)
 - <https://github.com/mbostock/d3/wiki/Gallery> -- Gallery (the community)
- **Resources -- authoritative documentation**
 - <http://chimera.labs.oreilly.com/books/1230000000345/> -- Textbook
 - <https://developer.mozilla.org/en-US/docs/Web/Guide/HTML/HTML5> -- HTML5
 - <https://developer.mozilla.org/en-US/Learn/JavaScript> -- JavaScript (MDN)
 - <http://www.w3.org/TR/html5/> -- W3
- **Resources -- for problem solving**
 - google -- great for well-phrased questions
 - stackoverflow -- ranked answers (and questions)
 - w3schools -- introductory reference & tutorials (but scoffed by the pros)
 - other students -- forum participation (part of your grade)
- **Tools**
 - Browser (console), github, jsfiddle, gists, blocks
 - <http://github.com/umbcvis> -- software repository for this course
- **Let's make a bar chart: Part 1**
 - <http://bost.ocks.org/mike/bar/> & <http://bl.ocks.org/mbostock/7322386>
- **For the next class....**
 - Be ready to discuss how this class relates to your favorite tools, or things like...
 - ESDA -- <http://gispopsci.org/exploratory-spatial-data-analysis/>
 - GeoDa -- <https://github.com/GeoDaCenter/geoda/>
 - QGIS -- <http://www.qgis.org/>
 - Create your own github account. Fork the block/gist from Part 1 of the bar-chart tutorial. Find it on bl.ocks.org. Creatively modify the styling, add a title, etc.
 - Adapt your modified gist so that it loads in jsfiddle from your github account.