

Class #2 -- 9 Feb 2017

- Review progress on last week's assignment
 - How might these data visualizations relate to tools that you're used to using?
 - Tell a story, do some analysis, create a tool,...?
 - Styling the fiddle -- was anyone able to save their work?
 - Getting a project to load automatically in JSFiddle -- how did folks do?
- Github Pages
 - Make sure everyone has an account & website (e.g., <https://umbc.github.io>)
 - Serve a web page: <https://help.github.com/categories/github-pages-basics/>
 - Walk through steps to publish a page from docs folder on master branch
 - Do the same thing for a project repository -- create classes/class-02
- Bar chart II -- learn a little more HTML, SVG & CSS
 - <http://bost.ocks.org/mike/bar/> & <http://bl.ocks.org/mbostock/7322386> (HTML)
 - <https://bl.ocks.org/mbostock/7341714> (SVG)
 - Put SVG bar chart in auto-loading JSFiddle -- get students to follow along
- Earthquake demo -- how to adapt a gist
 - <http://bl.ocks.org/pbogden/935370a5272acff2618b> -- umbc
 - Show the relationship between a gist and a page on bl.ocks.org
 - Show how to get the data in a browser with D3
 - Move the gist to umbcvis repo -- get remote data with the "raw" URL
- Data types & data structures -- how to use an open-data API
 - Strings, Numbers, values -- Mozilla is an authoritative resource
 - https://developer.mozilla.org/en-US/docs/Web/JavaScript/Data_structures
 - http://www.w3schools.com/js/js_datatypes.asp -- W3Schools has stuff
 - <https://github.com/d3/d3-array> -- Arrays in D3 (d3-array) = helpful tools
 - Arrays & Objects (associative arrays)
- Standards enable innovation...
 - Specifications...
 - <http://json.org/> -- JSON
 - <http://geojson.org/> -- GeoJSON
 - <http://bl.ocks.org/pbogden/48cadd9940ad05ec96d2> -- demo
 - Use console to inspect the earthquake data
 - Inspect the data: Object.keys(), Array.length, data.features[0], typeof data
 - JavaScript manipulation of an array & object properties
 - <http://earthquake.usgs.gov/earthquakes/feed/v1.0/geojson.php> -- USGS API
- Assignment for next class...
 - Use data from the USGS earthquake API to create a bar chart
 - Plot # of earthquakes of magnitude [0 - 1), [1 - 2), [2 - 3), etc.
 - Project ideas -- Prepare to give a 30-60 second description of your idea.
 - Project data -- See if you can find a public API with some data.