Class #6 -- 9 Mar 2017
1. Review & solve assignment from Class #5 in bl.ocks.org
2. Let's Make a Bar Chart
3. Projects

Assignment from Class #5 (repeated here)...
- Modify the result from Homework #3 as follows…
  - Add magnitude-dependent styling for the earthquakes
  - Add a title and labels that indicate the number of earthquakes of various sizes
  - Add a legend for the styling
- Add a legend: Create your own custom legend, or adapt this reusable legend template
  - https://bl.ocks.org/pbogden/86a9f77dd337ee7b1f8d
- Put your final result in a gist that's linked to your github account
  - Consider using blockbuilder.org to create your gist
  - See how easy it is: http://github.com/umbcvis/fiddle

Let's Make a Bar Chart
1. https://bost.ocks.org/mike/bar/ -- "Let's Make a Bar Chart" by Mike Bostock
   - Remind everyone about Parts 1 & 2
   - Go through Part 3 in depth (https://bost.ocks.org/mike/bar/3/)
2. Scales -- Discuss and demo d3.scale
   - Demo d3.scaleLinear
   - Demo d3.scaleOrdinal
   - Note changes from v3 to v4
   - https://github.com/mbostock/d3/wiki/API-Reference -- API reference
4. Margins
   - http://bl.ocks.org/mbostock/3019563 -- margin conventions
5. X-Y plot
   - http://bl.ocks.org/pbogden/7562151 -- simple x-y plot
6. Further reading: http://bost.ocks.org/mike/selection/ -- How Selections Work
7. Scatterplot
   - http://bl.ocks.org/mbostock/3887118 -- scatterplot
   - https://gist.githubusercontent.com/mbostock/3887118/raw/data.tsv -- iris data
   - http://bl.ocks.org/mbostock/3213173 -- scatterplot matrix
   - http://bl.ocks.org/mbostock/4063663 -- scatterplot matrix brushing

Assignment #6
1. Make a new kind of plot (bar chart of scatterplot) with earthquake data.
   a. For example, scatterplot of mag vs longitude, histogram of magnitudes, etc.
   b. Create a story to go with your chart -- put it in your README.md
   c. Use any of the USGS earthquake APIs;
   d. Graphic(s) must be labeled clearly; code must be nicely indented.
2. Make some progress on your project