Class #5 -- 2 Mar 2017

Data & ideas for projects

- Continue collecting ideas from students
- APIs are good, shapefiles & GeoTiffs are OK, proprietary formats are bad
- Data must be public and free (i.e., open data)
- Ideas...
  - https://www.consumerfinance.gov/data-research/hmda/ -- HMDA
  - https://www.thehubway.com/datachallenge -- HubWay data challenge
  - Mike Bostock's "Command-line cartography" -- powerful, ACS data

Project ideas

- Review projects

Solve Assignment #4 in class:

- http://earthquake.usgs.gov/fdsnws/event/1/ (USGS API)
- Modify the result from Homework #3 as follows…
  - Add magnitude-dependent styling for the earthquakes
  - Add a title to the plot
  - Add labels that indicate the number of earthquakes of various sizes
  - Add a legend for the styling
- Make sure your completed homework assignment is served from your github repo using the same organization as the umbcvis class notes. For example, if your github username were bullwinkle, your homework for this assignment would be:
  - http://bullwinkle.github.io/classes/tree/master/class-04 -- repo with the code
  - http://github.com/bullwinkle/classes/class-04 -- the visualization
- Add a legend using this reusable legend
  - https://bl.ocks.org/pbogden/86a9f77dd337ee7b1f8d

Tooltips

- Show how to add a tooltip to the result from Assignment #4

“Let’s Make a Map” by Mike Bostock

- https://bost.ocks.org/mike/map/

Assignment #5

TBD...