MAP WRANGLING LAB

In this lab you will change the dataset that is being depicted in a D3 choropleth visualization. Take a minute to look through the files that you've been given.

We will be using actual TSV files, so you will need to be running a local server in order to load a TSV file into your openMe.html.

(If you do not understand why this is, try simply opening openMe.html in your browser and read the error you get. If you don't understand what that error means, Google it. If you're still not sure, come and ask me.)

One way of running a local server is with Python's SimpleHTTPServer (or http.server if you use Python version 3). To spin up a server, open your command prompt, navigate to your unzipped lab folder, and run the command. This will look something like:

```
$ cd Desktop/MapLab
$ ls
         js openMe.html tsv
$ python -m SimpleHTTPServer
         Serving HTTP on 0.0.0.0 port 8000 ...

(or with Python version 3)
$ python3 -m http.server 8000
         Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
```

Now, open your browser and enter localhost:8000/openMe.html as the url. You should see a choropleth depicting unemployment rates. In your openMe.html, you'll see that the map is pulling from unemployment.tsv. Your task is to use the same map to depict data from drought.tsv.

YOU ARE NOT ALLOWED TO MAKE ANY CHANGES TO DROUGHT.TSV

So help me god, if you change that file I will lose it! You should only be adding code to openMe.html. Here are some other things that you should be doing:

- Look at both unemployment.tsv and drought.tsv and see how they're structured (hint: there is a field that appears in both files).
- Go to the US Drought Monitor site to figure out what the columns in drought.tsv mean: http://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?TX
- Think about how much you love this class!

- Think about whether blue is an appropriate color scheme for depicting drought information (hint: it's not).
- You have multiple columns in drought.tsv as opposed to just one in unemployment.tsv. Think about how you can combine columns, add mappings, utilize tooltips and interaction.
- Remember that having a map that is interpretable is far more important than cramming every piece of data in at once.
- Come up with a new title (maybe a subtitle too!) that helps users understand what they're looking at.

Depicting a single column of data from drought.tsv in your choropleth requires minimal code changes. Start there, then move on to incorporating other columns, changing the color scheme, etc. If you have extra time, take a closer look at how D3 is actually generating that map.

Submission:

Due: Thursday, April 12 at noon

Please zip all files necessary to run your demo and submit it via the provide.

\$ provide comp177 maplab {your_cs_id}.zip