

CS 360/560: Data Visualization

Mondays and Wednesdays 1pm-2:45pm LS 307

[Home](#) [Notes](#) [Assignments](#) [Resources](#)

Fundamentals of visualization including data sources, representations, and graphical integrity. Visualization of scalars, vectors, and high-dimensional data. Visual perception and color theory. Applications from medical imaging, social media, sports, security and surveillance domains. PREREQ: CS 245.

Assignment 9 - GeoVisualization in D3 - (100 points)

Due date: 4/13/2022 at 11:59pm

For this assignment, you will visualize geospatial data using d3.

Here are the specifications for this assignment.

To get a C (75) do the following:

- Download a spreadsheet from <https://www.ers.usda.gov/data-products/county-level-data-sets/download-data/>.
- Modify the spreadsheet to generate a CSV file
- Create a Choropleth map for the data.

To get a B (85):

- Download the [expensive states CSV](#)
- Combine this data with the latitude and longitude of the *centroid* of each state. This information can be found at [online](#).

- Modify the expensive states file with the latlon information.
- Create a proportional symbols map for any variable in the data.

To get an A (95):

- Implement interaction (tooltips) for both your examples - the Choropleth map **and** the proportional symbols map
- Highlight the top 10 most expensive states in the proportional symbols map.
- Create a choropleth map for the world that includes tooltips for any variable.

To get an A+ (100):

- Generate a geovisualization of data for any *other* country at a level lower than the states/provinces level

Submitting the assignment

- For every visualization, post a link to your Vizhub sketch (mark it private, invite the TA and me as collaborators) and test it out before posting a link to it on your own website.
 - Submit a link to your **website** on Canvas.
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