CSCE 5320 Scientific Data Visualization Visualization of Spatial Data, Networks, and Trees

ICE-8: Tutorial

Making Maps

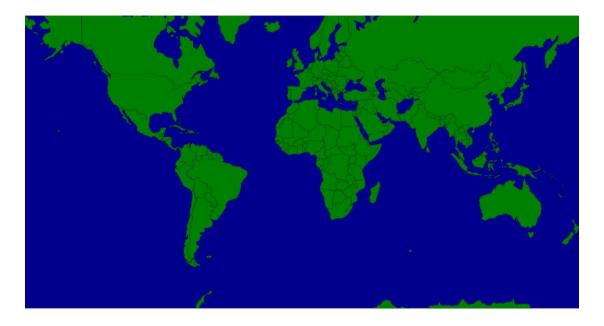
World Atlas TOPOJSON: https://www.npmjs.com/package/world-atlas/v/2.0.1

JSON data with geo info for countries:

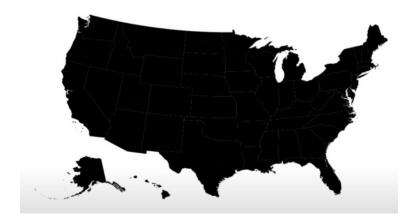
https://cdn.jsdelivr.net/npm/world-atlas@2/countries-110m.json

d3-geo-projection: https://github.com/d3/d3-geo-projection

A world map example:



United States Map Example:



Visualizing tree and Networks:

The data structure is d3.stratify, which transforms a tree from link representation to hierarchy

Resources: https://observablehq.com/@d3/d3-stratify

Example code of d3.tree:

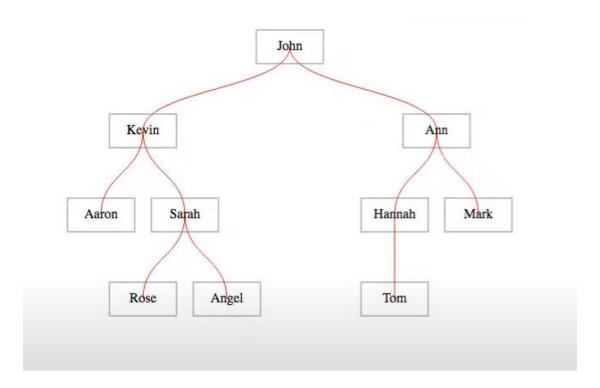
https://bl.ocks.org/d3noob/8375092

https://www.developer.com/design/creating-a-tree-diagram-with-d3-js/

Please create your own family tree data:

For example:

You can also use a csv or Jason data.



Example code of basic network chart in d3:

https://d3-graph-gallery.com/graph/network_basic.html

Example of a social network:

