

Mapping Data

Types of Maps

Physical Maps

- Show the physical features of the area.
- Use color gradations to show elevation/ water depth
- Sometimes satellite maps are mistaken for physical maps



Thematic Maps

- ALL THE MAPS. (except the physical and political maps)

- Statistical
- Cartogram
- Dot Density
- Graduated symbol
- Choropleth
- Isoline...



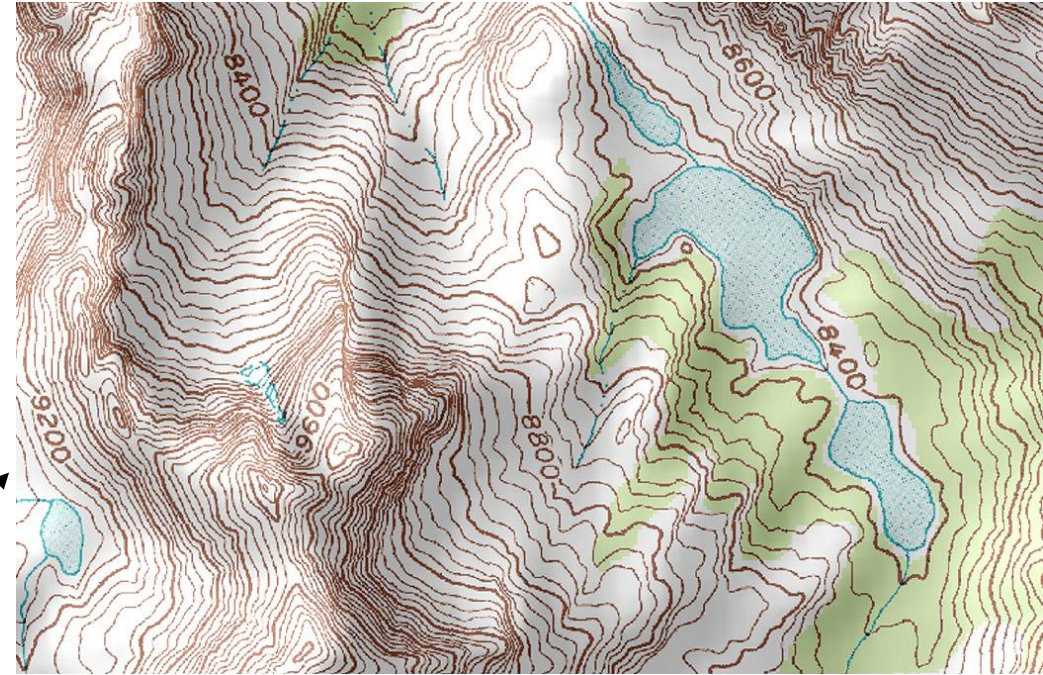
Coming on next few slides...

Isoline Map

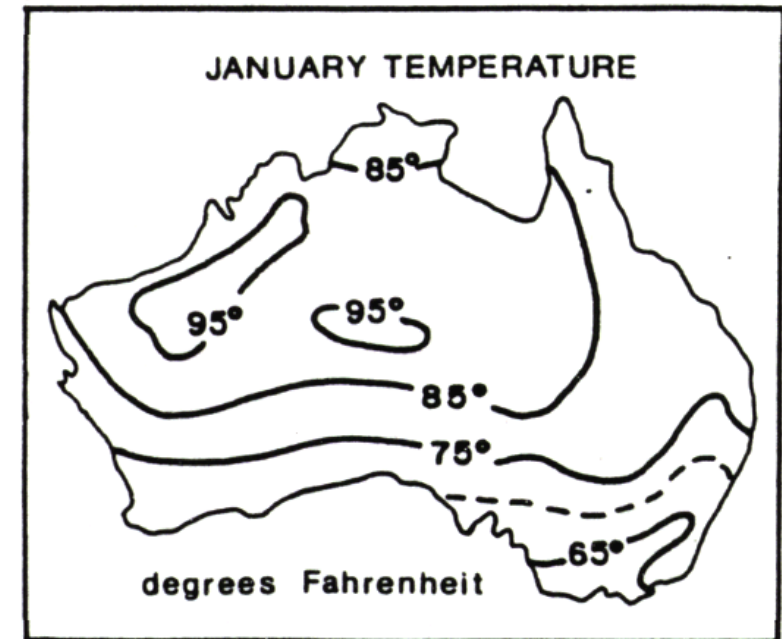
- Made of lines that join points on a map with the same measurement of data.

- Examples:

- Contour maps (topographic) show elevation with lines connecting points of equal height above sea level

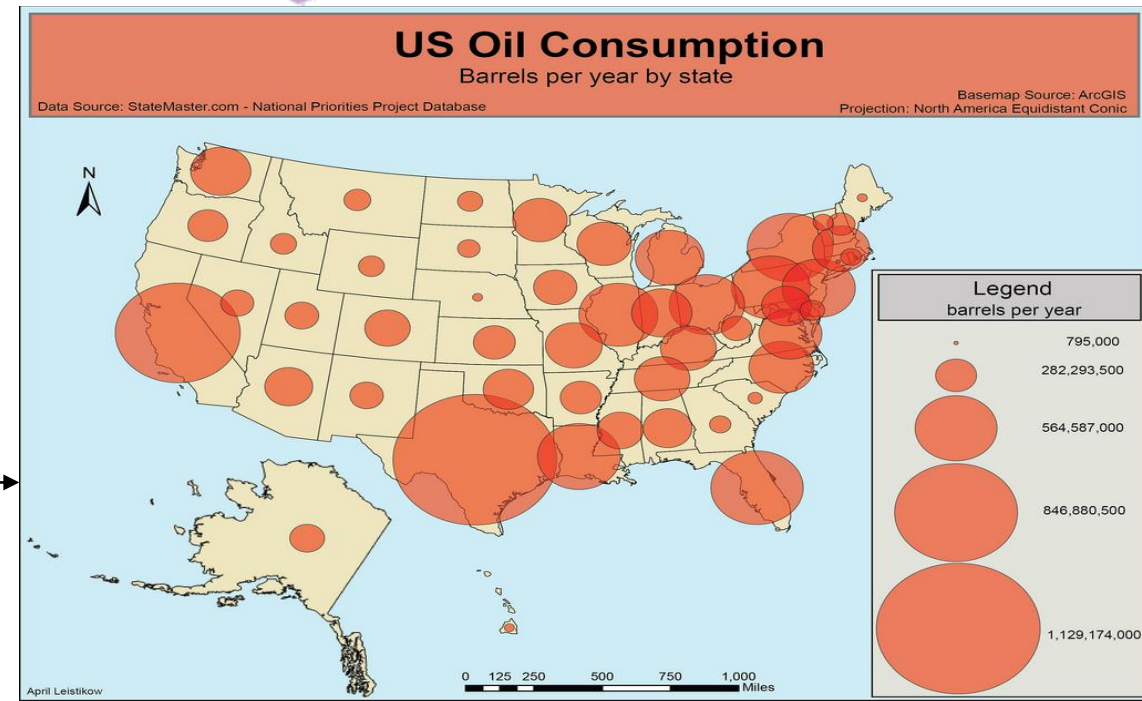
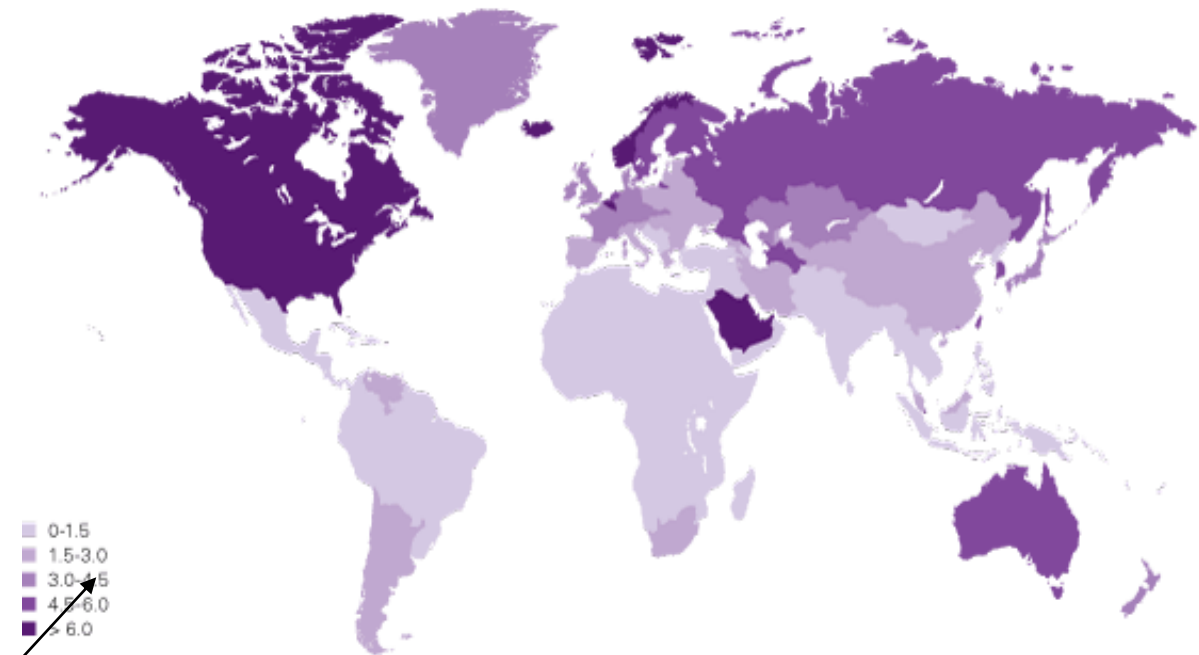


- Weather maps or climate maps use lines connecting points of equal average winter temperature, or precipitation, etc. (isotherms)



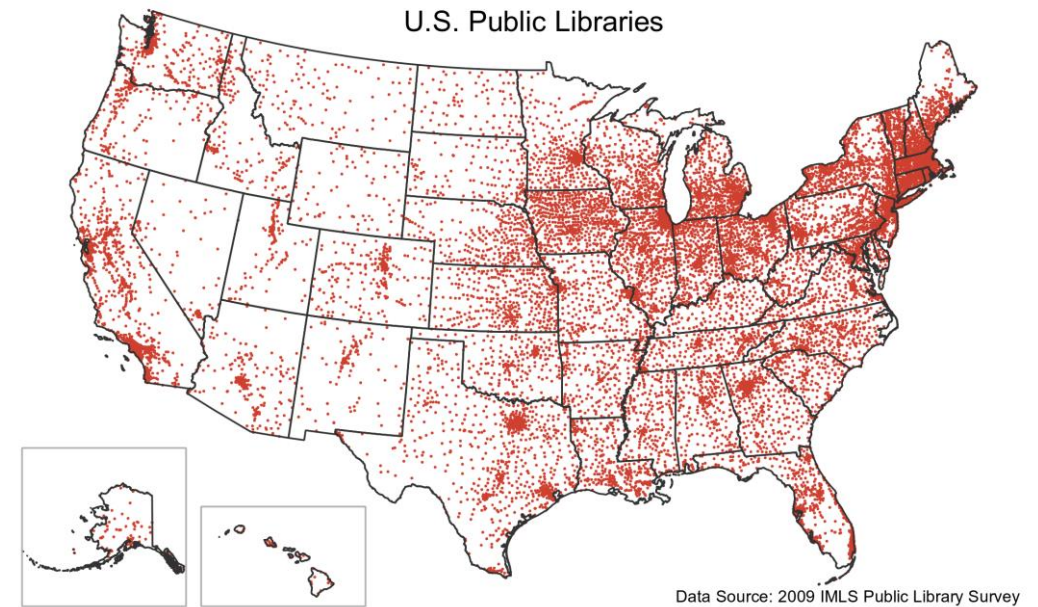
Statistical Maps

- Maps used to show differences in data across an area of any scale.
- Example: All the maps you looked at for the online Map Scale Activity were choropleth statistical maps.
- Can be dot maps (next slide)
- Can be choropleth maps
- Can be graduated symbol maps



Dot Distribution Map

- Also called a Dot Density Map
- Used to show the density/ frequency of a particular phenomenon
- Literally the coolest Dot Density Map ever made:
<https://demographics.virginia.edu/DotMap/index.html>

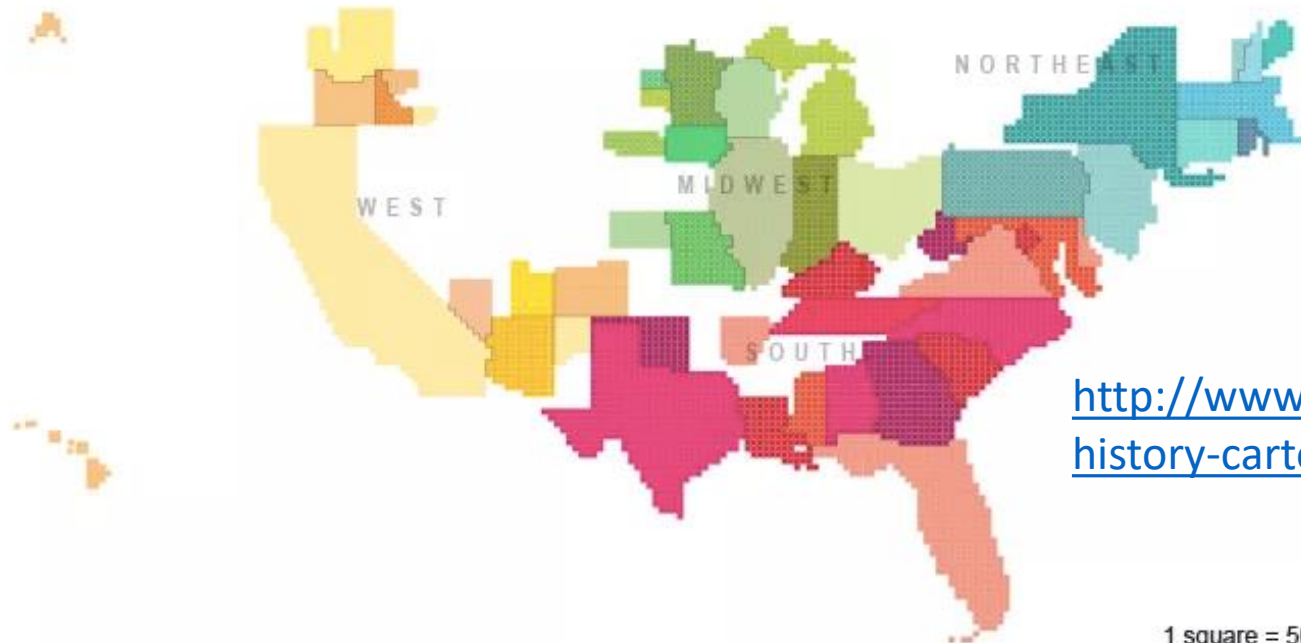


Cartograms

- Instead of using physical size, these maps use some sort of data/variable. The space of the map is deliberately distorted to show some other feature.

2010

Total population: 308,745,538



<http://www.vox.com/2015/6/27/8854037/us-population-history-cartograph-map>

1 square = 50,000 people

What type of map would you use to show...

- Areas of Brazil with tropical wet climate?
- Prevalence of French speaking people?
- Number of televisions per household?
- Locations of a particular chain restaurant?
- Water use per county in a particular state?
- The difficulty of a particular hiking trail?
- Income per capita of several neighboring countries?
- The distance between major cities?