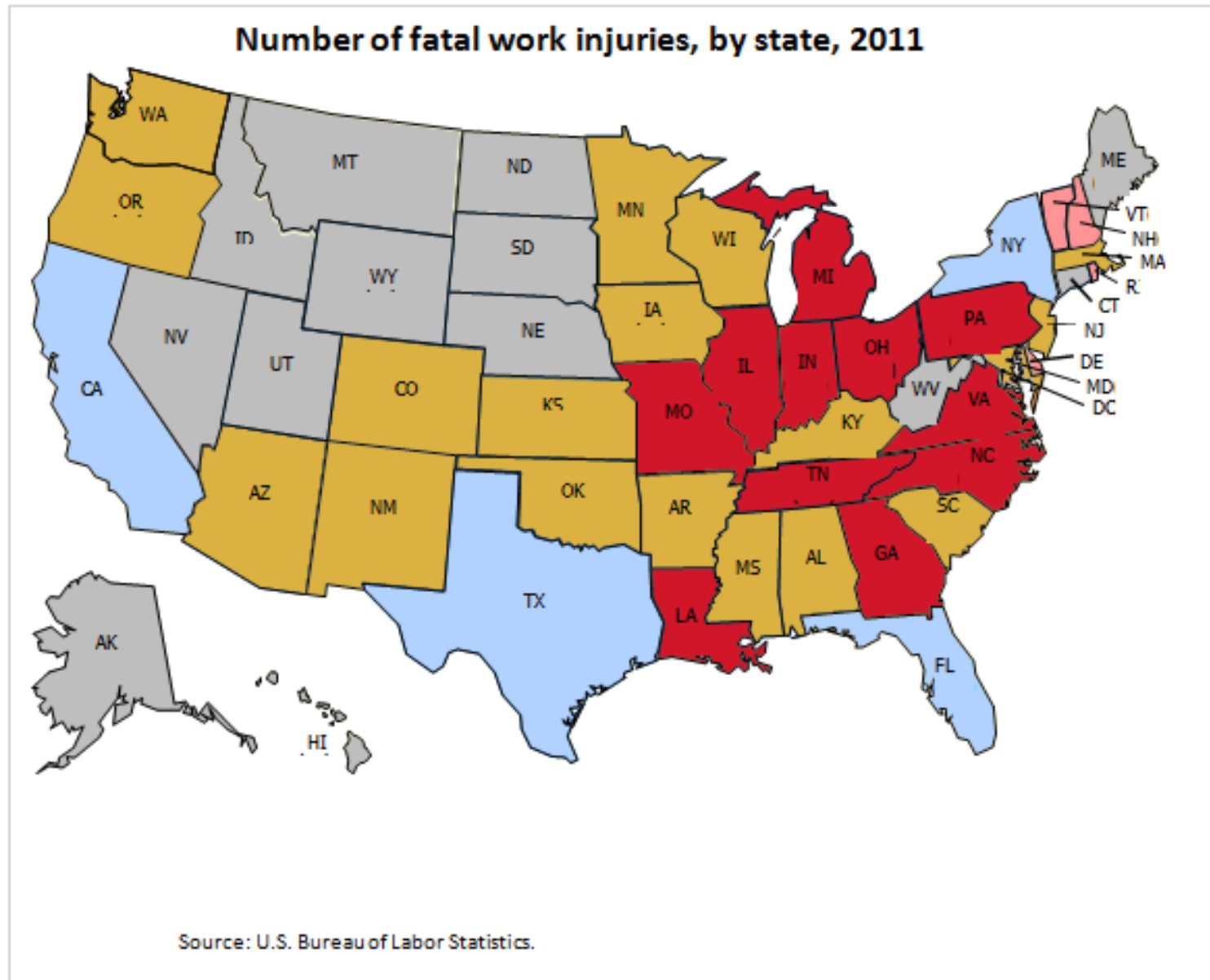
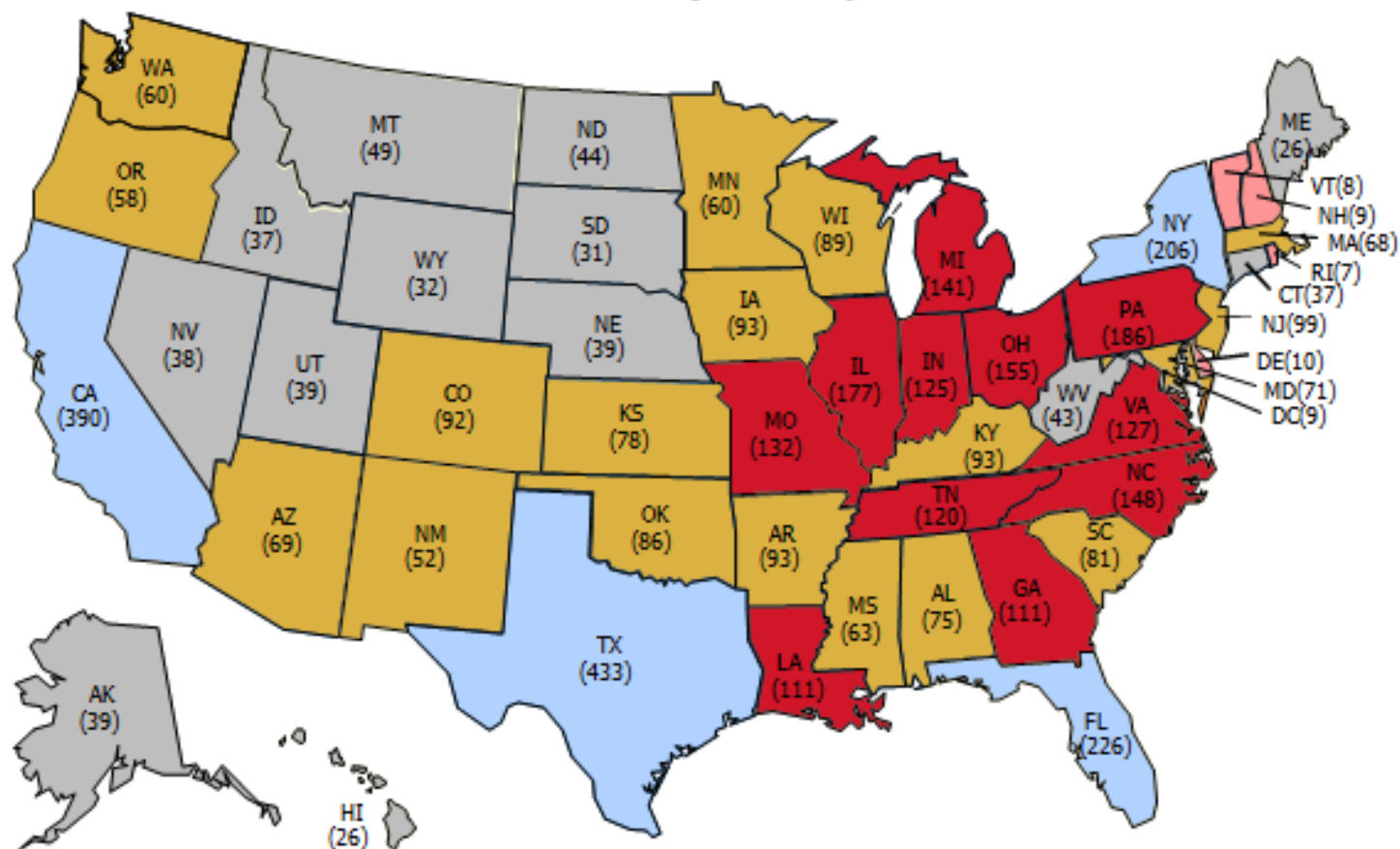


# Week 4 | Mapping data 1

# What does this map tell you?

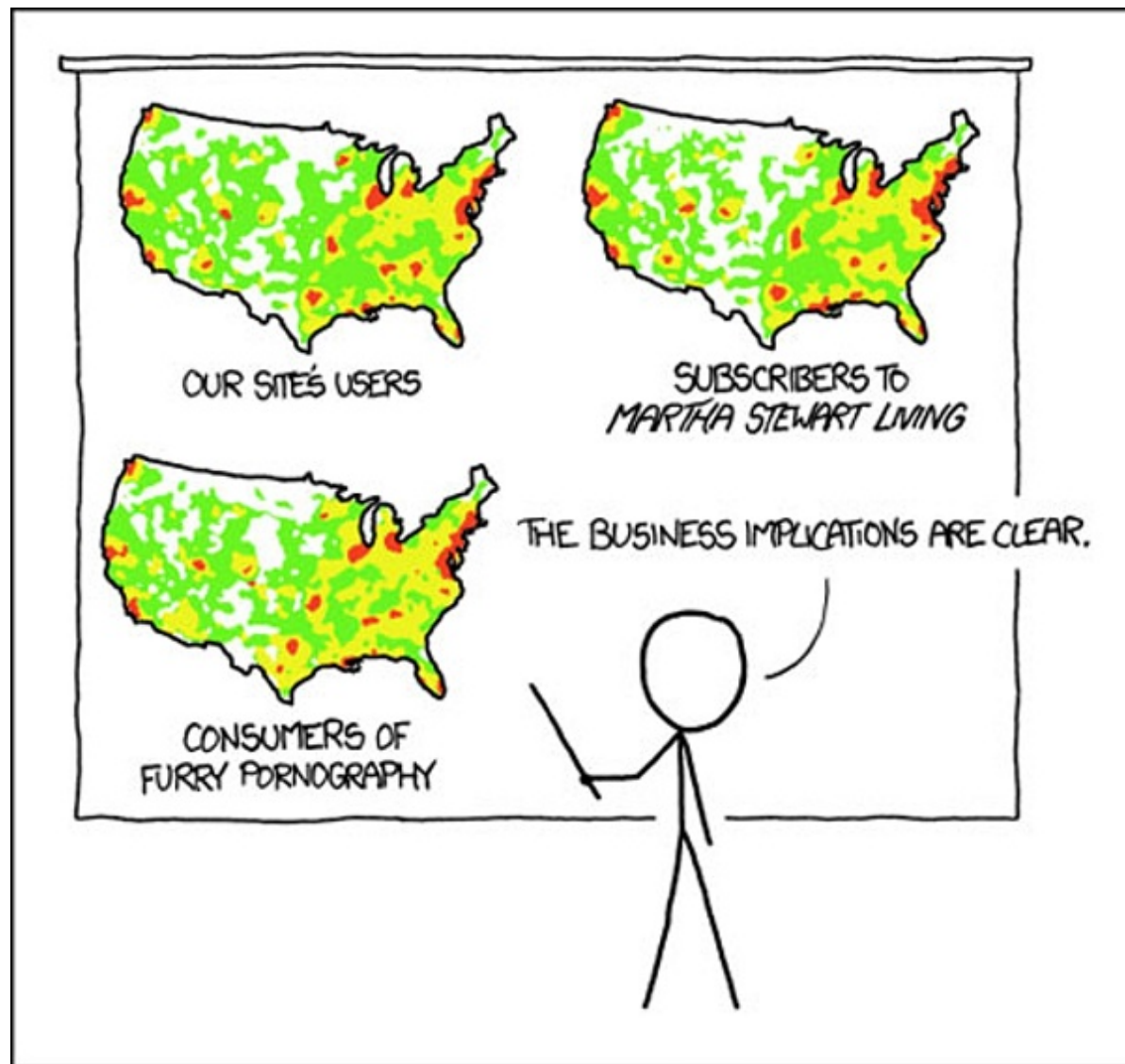


## Number of fatal work injuries, by state, 2011



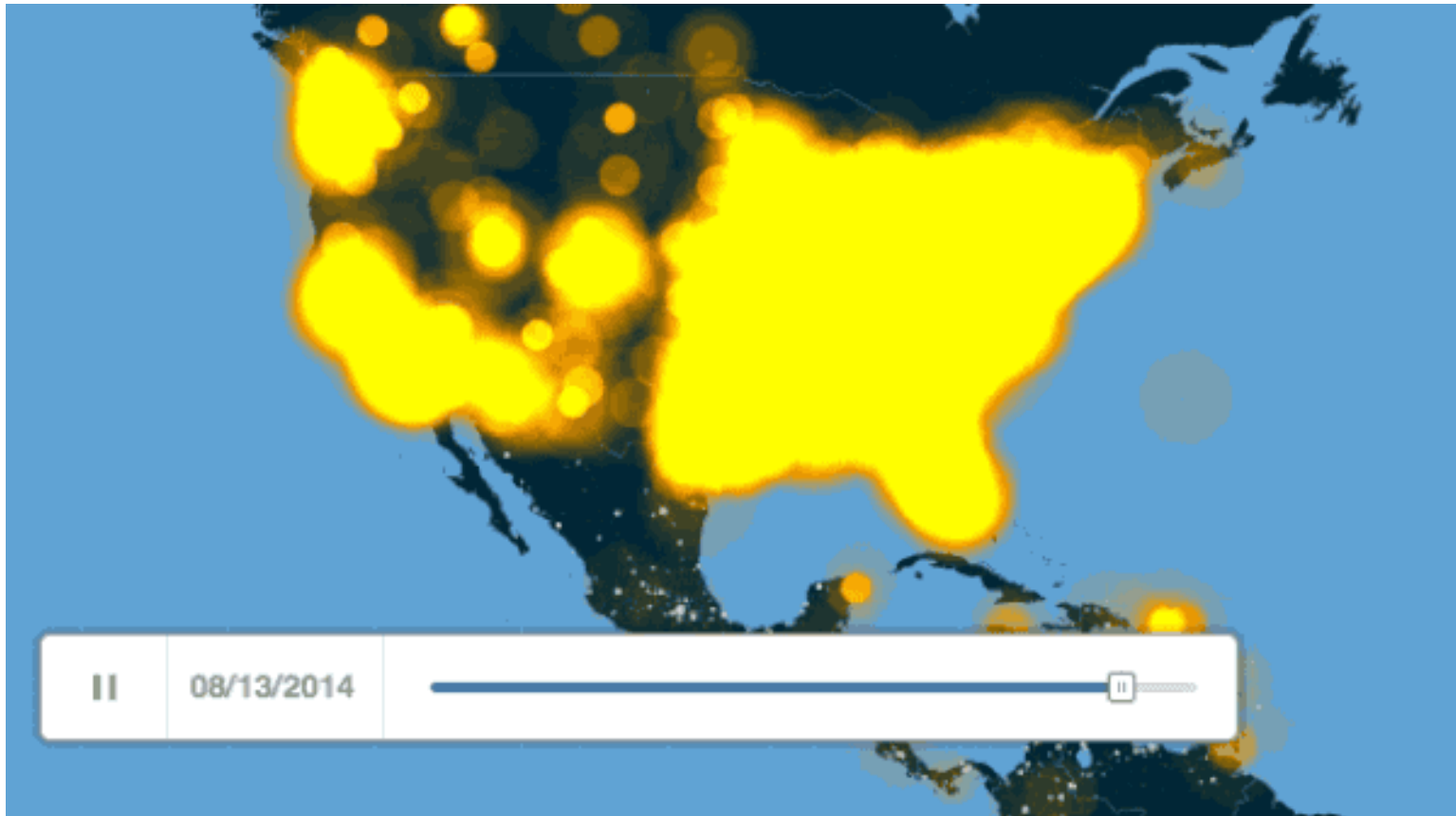
Source: U.S. Bureau of Labor Statistics.



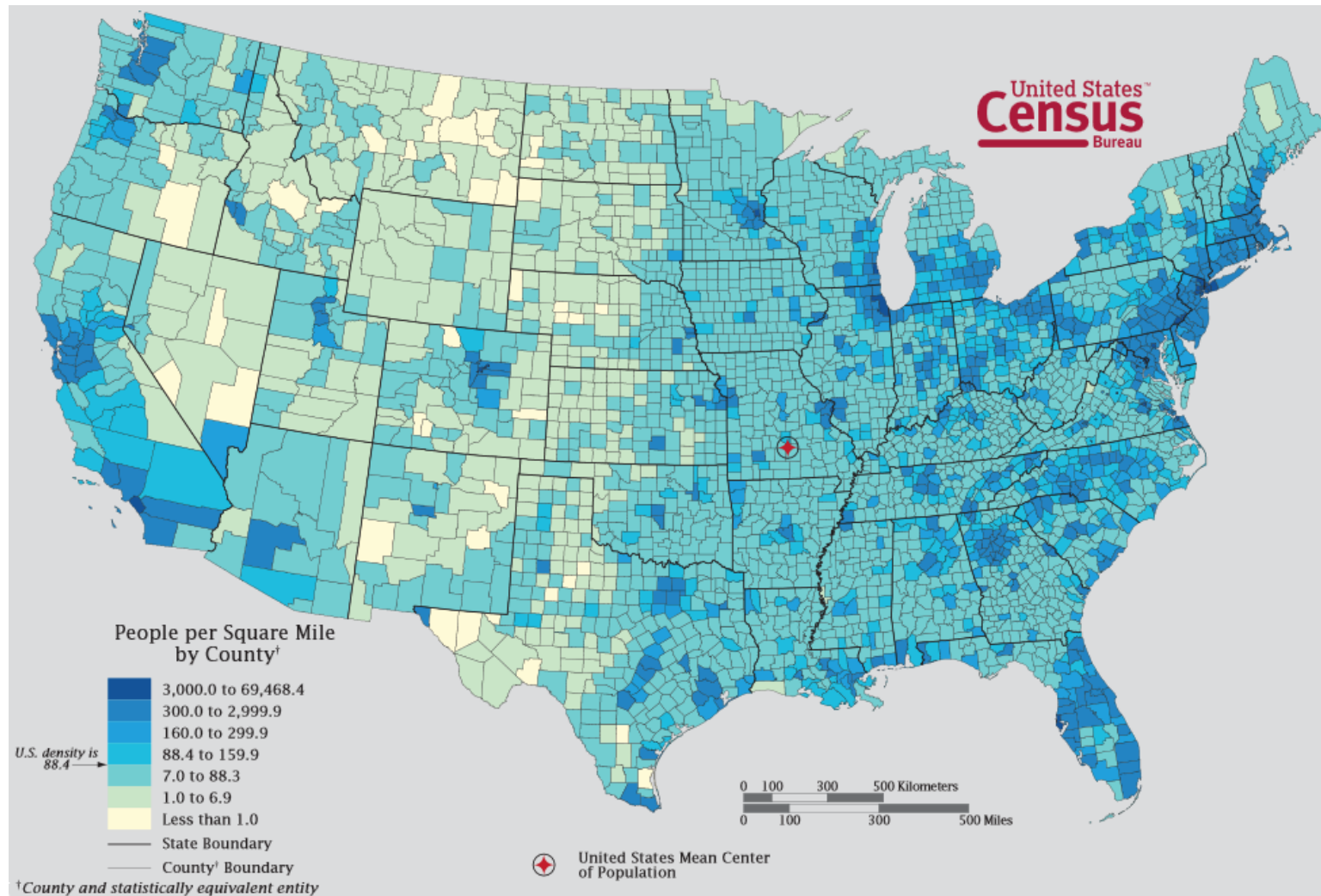


PET PEEVE #208:  
GEOGRAPHIC PROFILE MAPS WHICH ARE  
BASICALLY JUST POPULATION MAPS

Source: XKCD



Source: Floating Sheep



Source: US Census

Let's normalize: <http://bit.ly/bls-map>

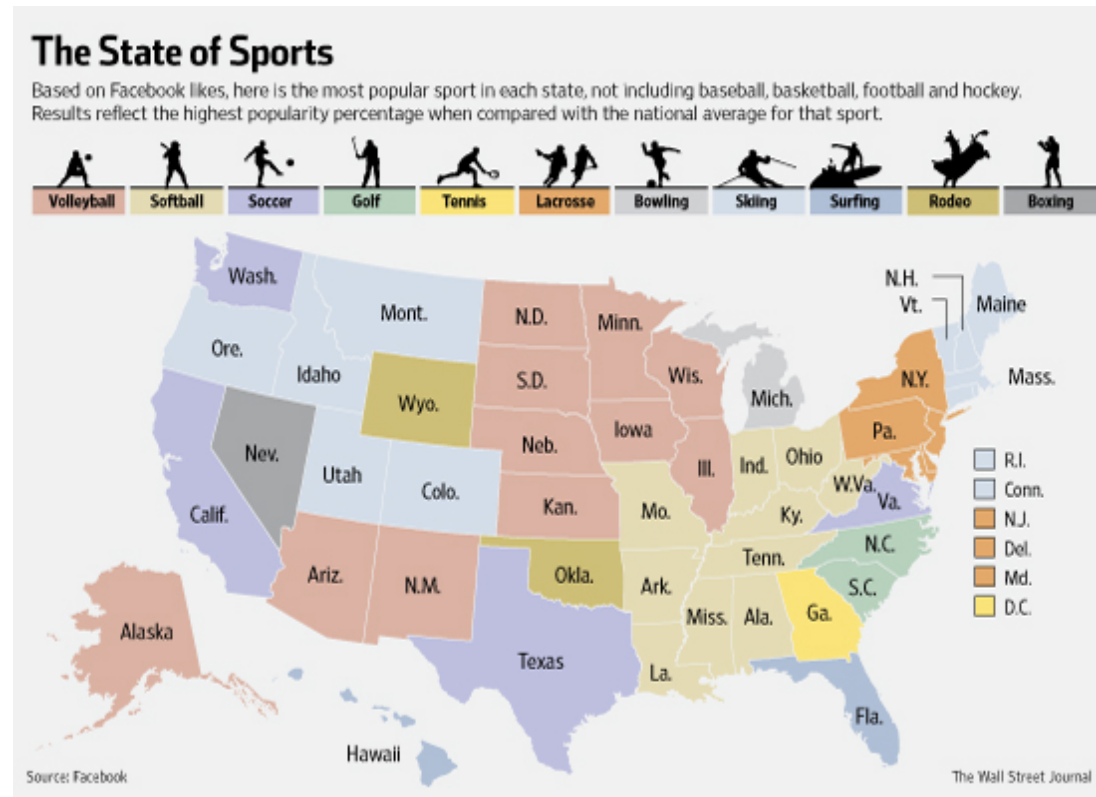


BREAK!

# Basic map types

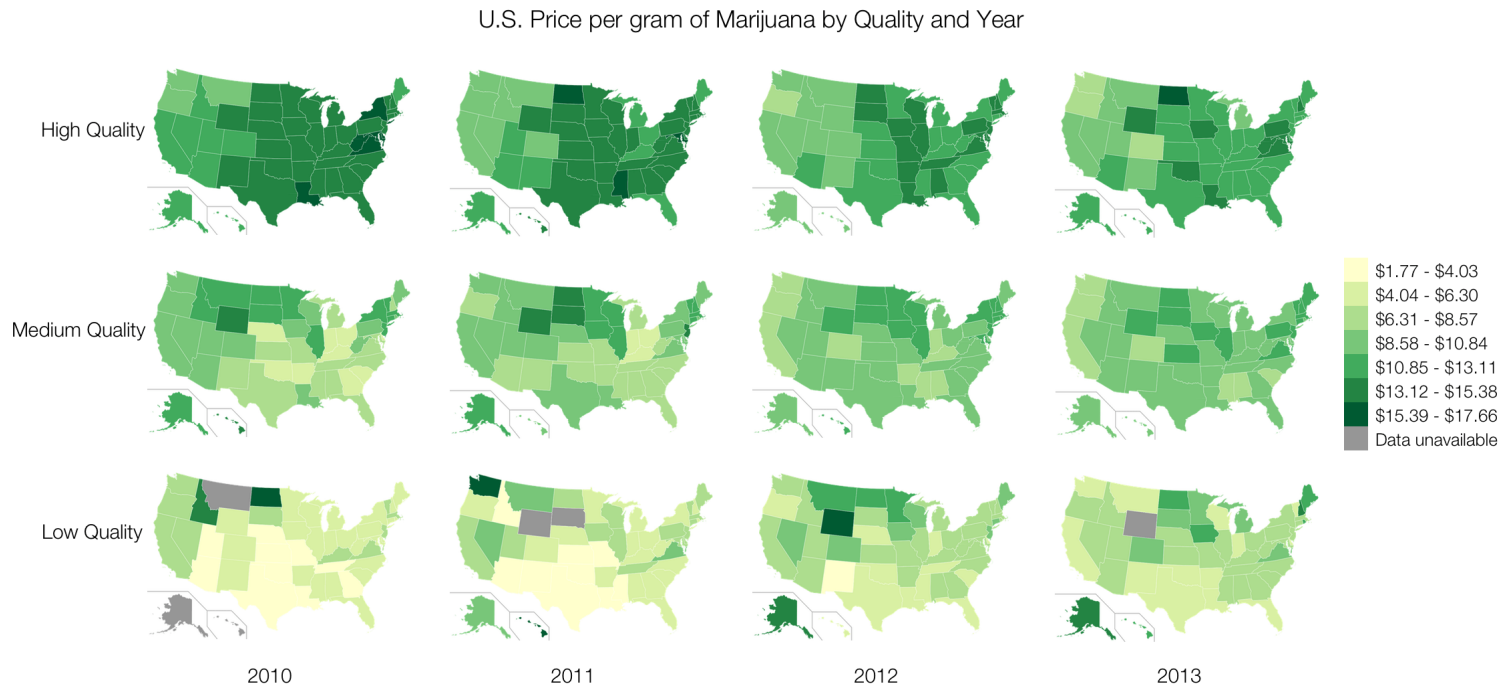
- categorical
- choropleth
- dot density

# Categorical map



Source: Wall Street Journal

# Choropleth map(s)



Data: [priceofweed.com](http://priceofweed.com) via [github.com/zmnjones/priceofweed](https://github.com/zmnjones/priceofweed)  
Author: Renzo Lucioni ([renzolucioni.com](http://renzolucioni.com), [@RenzoLucioni](https://twitter.com/RenzoLucioni))

Source: Washington Post

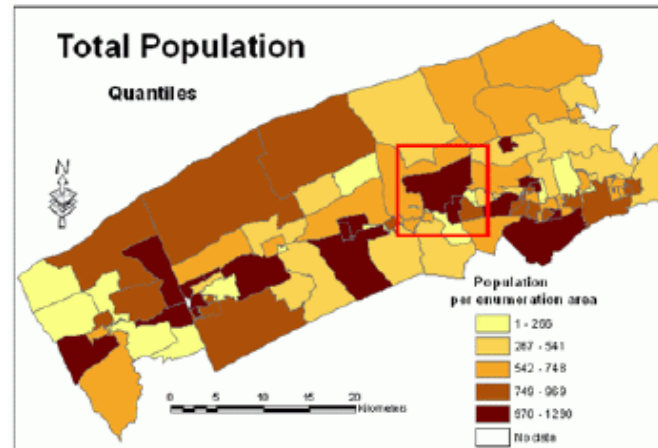


Figure 2. Population – absolute values. [Click image for larger view.](#)

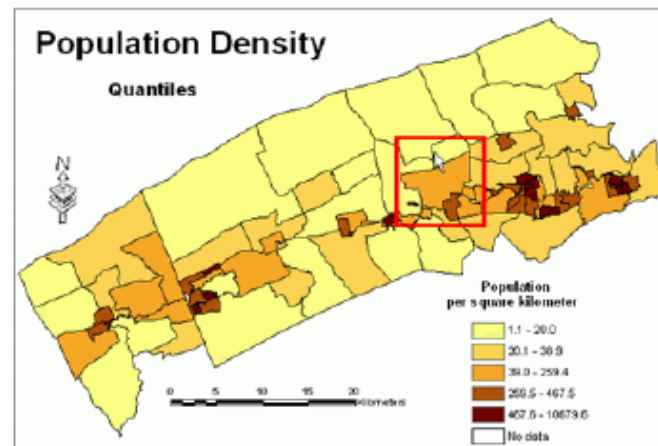
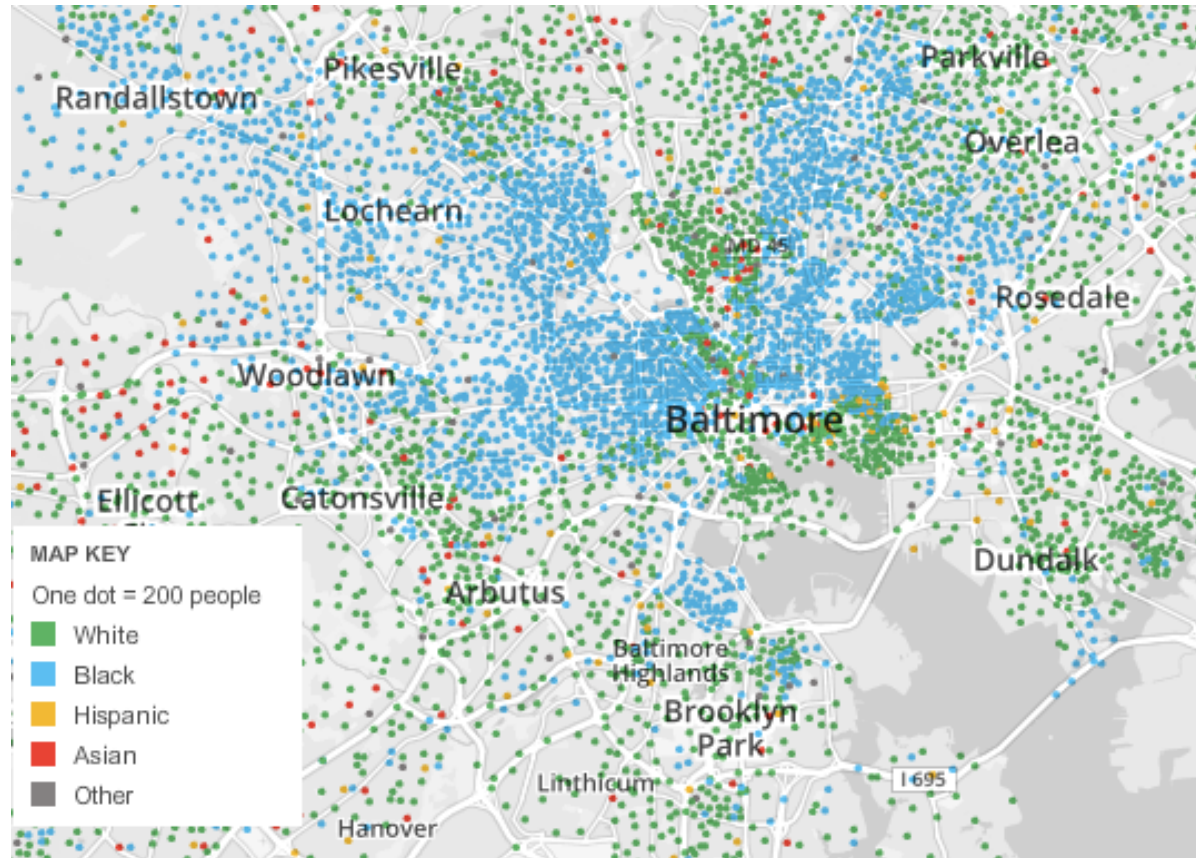


Figure 3. Population density. [Click image for larger view.](#)

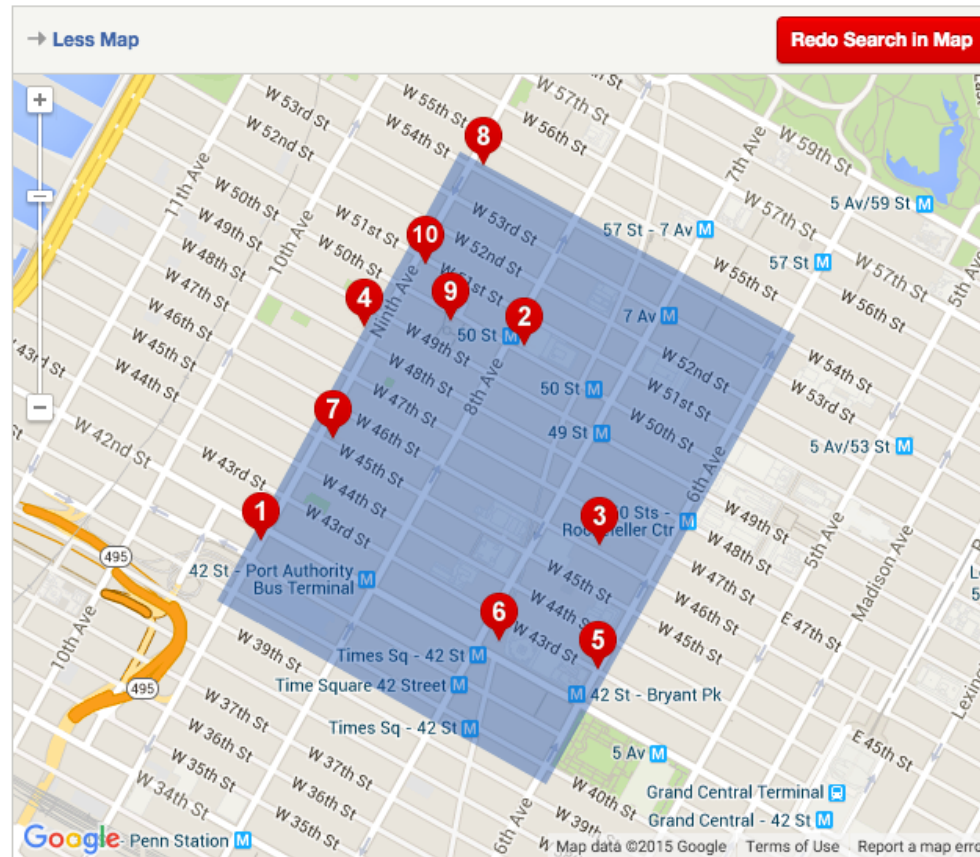
Source: Directions Magazine

# Dot density map



Source: New York Times

## Now ubiquitous: pin map



Ad by Google related to: **tacos Theater District, Manhattan, NY**

Source: Yelp

Notes on using (and not abusing) color



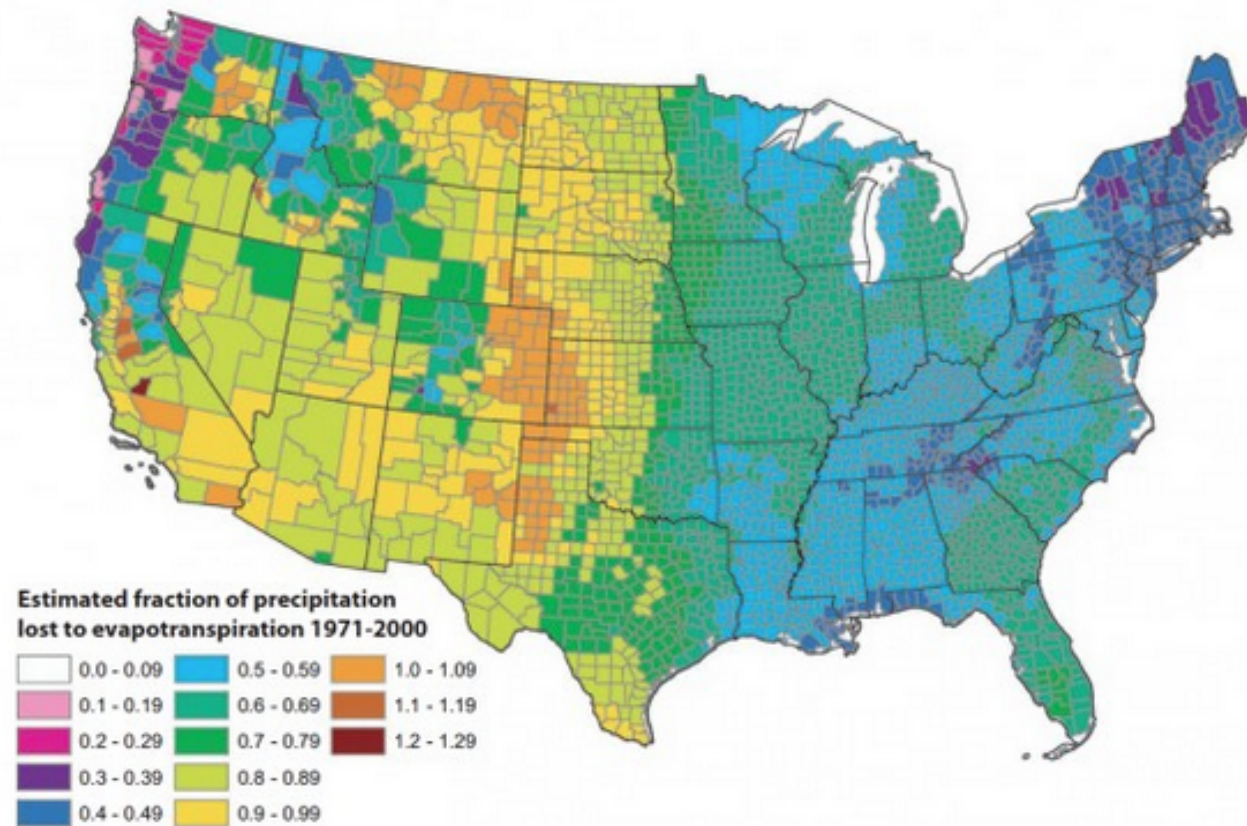


FIGURE 13. Estimated Mean Annual Ratio of Actual Evapotranspiration (ET) to Precipitation (P) for the Conterminous U.S. for the Period 1971-2000. Estimates are based on the regression equation in Table 1 that includes land cover. Calculations of ET/P were made first at the 800-m resolution of the PRISM climate data. The mean values for the counties (shown) were then calculated by averaging the 800-m values within each county. Areas with fractions >1 are agricultural counties that either import surface water or mine deep groundwater.

Source: Eager Eyes

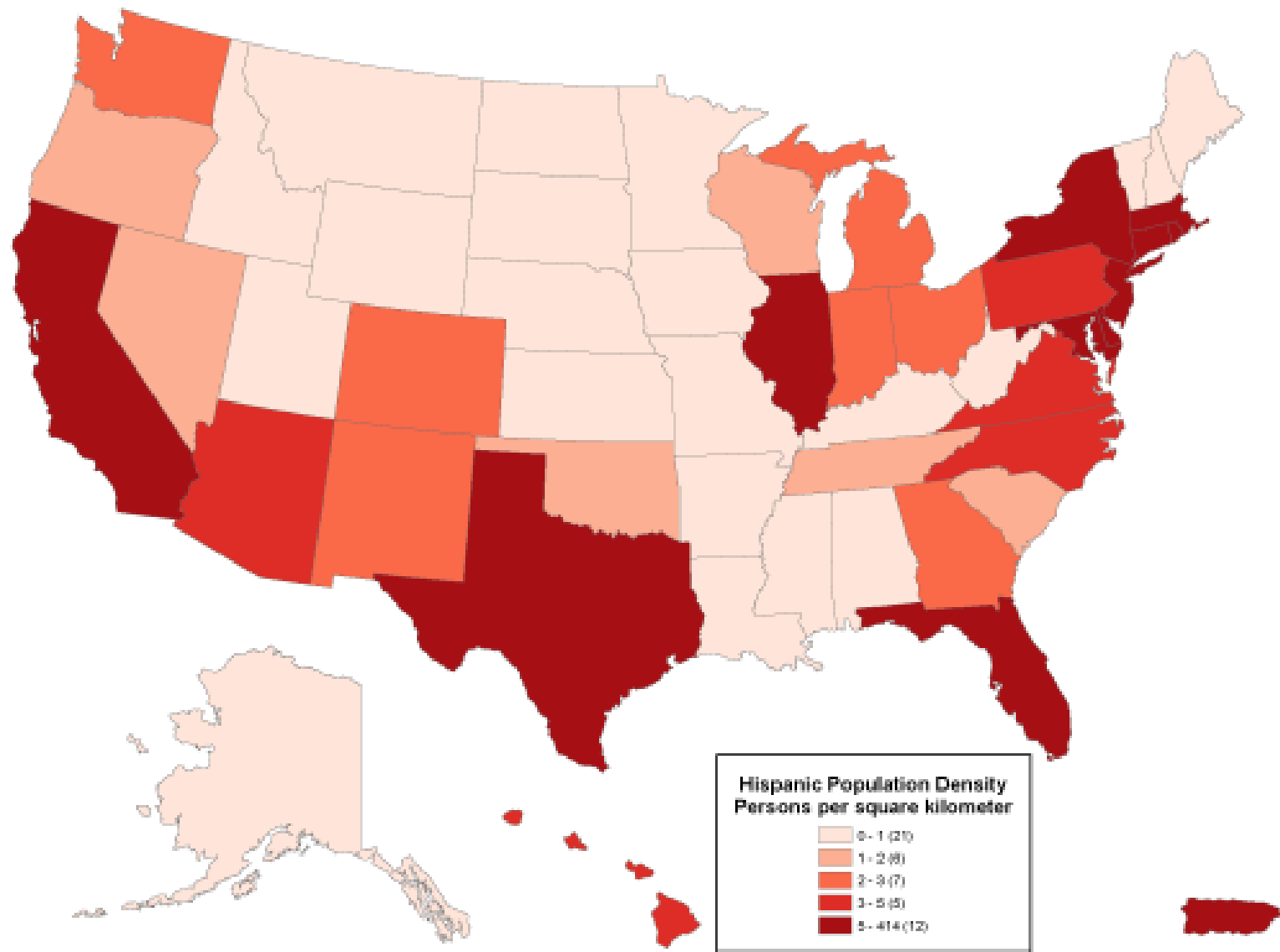
Sequential Schemes



Diverging Schemes



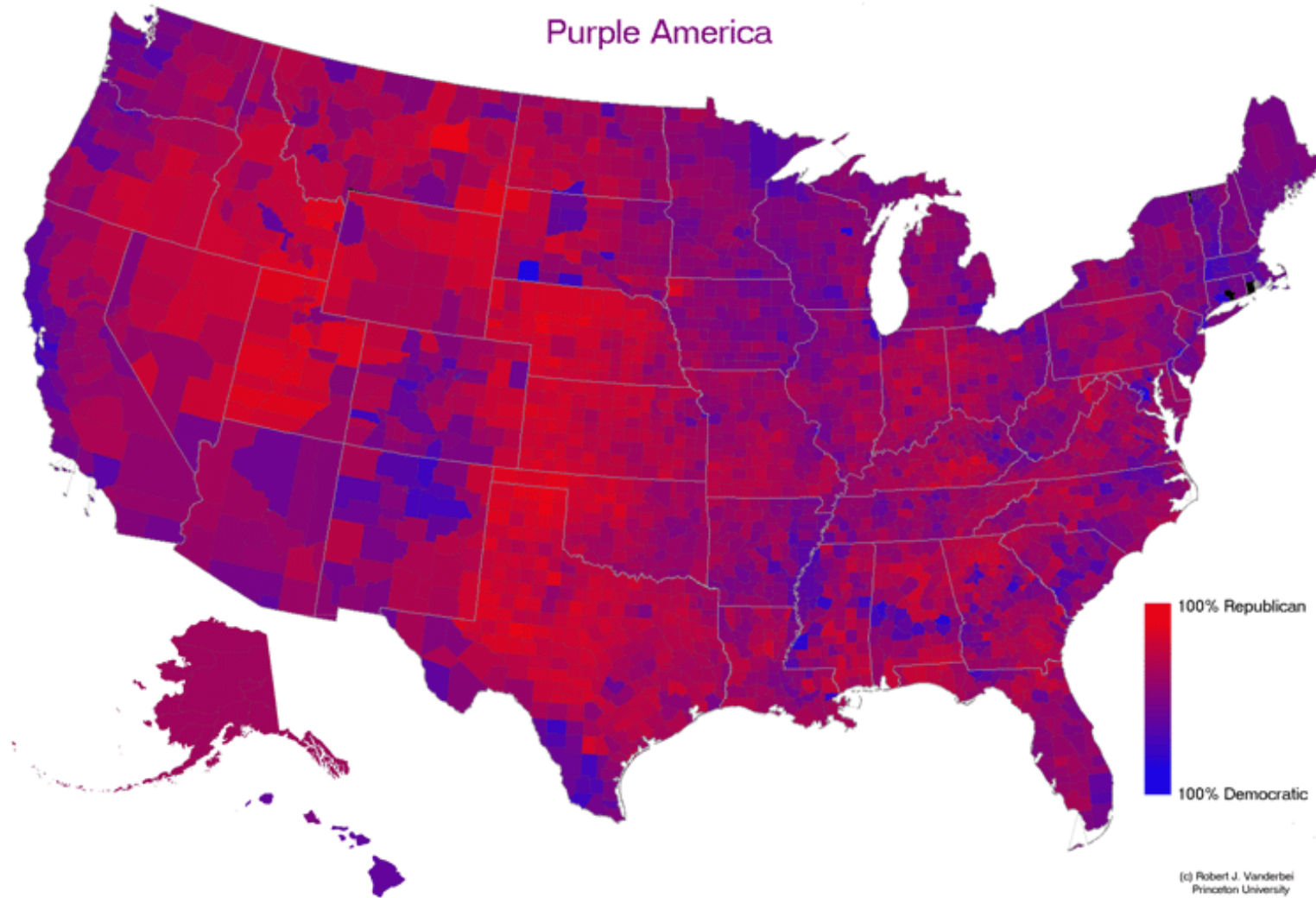
Source: Mapbox



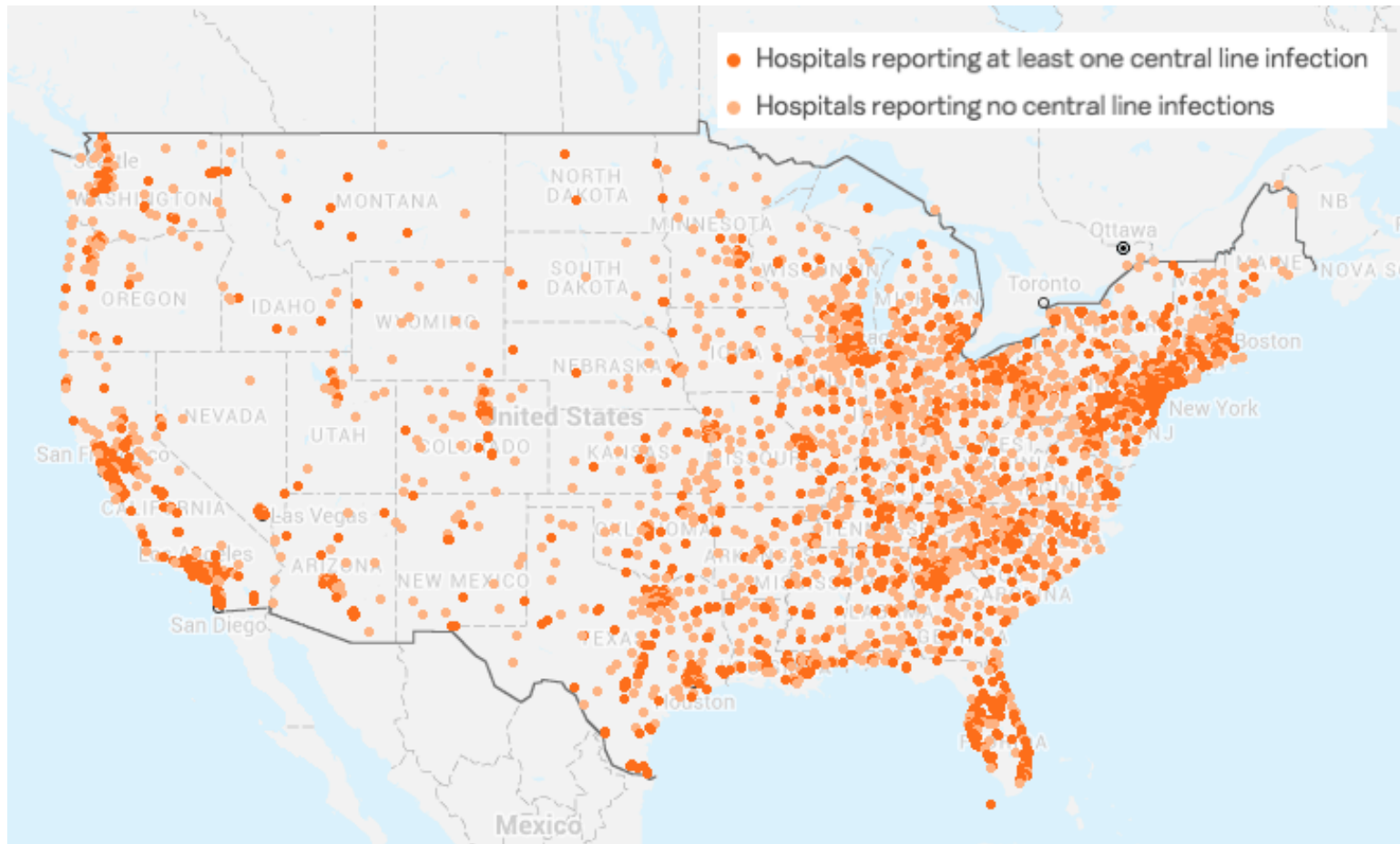
Source: Penn State

# 2004 Presidential Election

Purple America



Source: Princeton



Source: VOX

BREAK!

# Make a map!

<https://www.google.com/mymaps>

<http://bit.ly/new-311-data>