

# Maps as Spatial Visualizations

Mapping for Architecture, Urbanism, and the Humanities

September 15, 2017

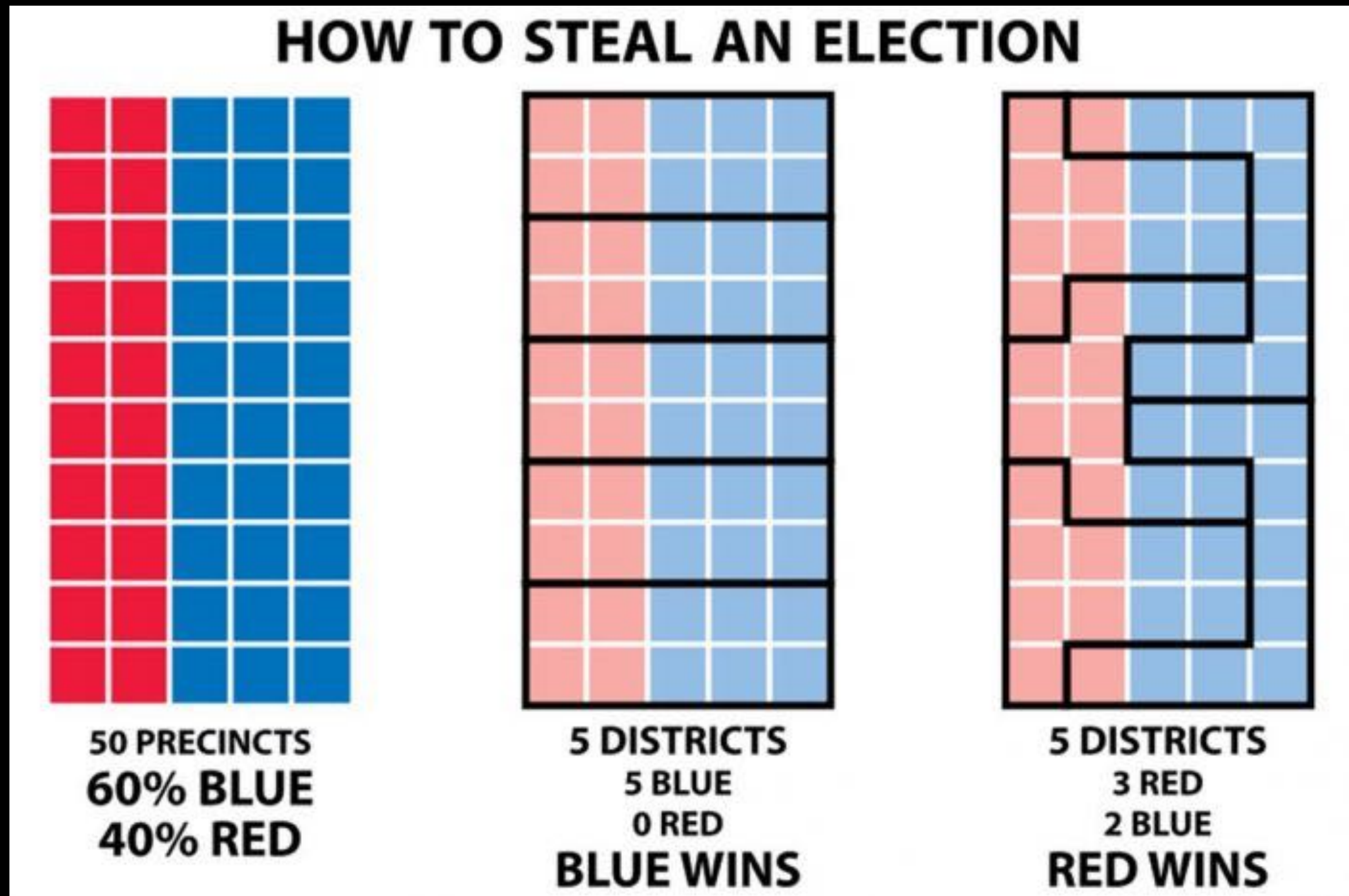
**What makes a map  
different from a picture?**

**What makes a map  
different from a graph or  
tree?**

# Mapping problems

# Modifiable Areal Unit Problem

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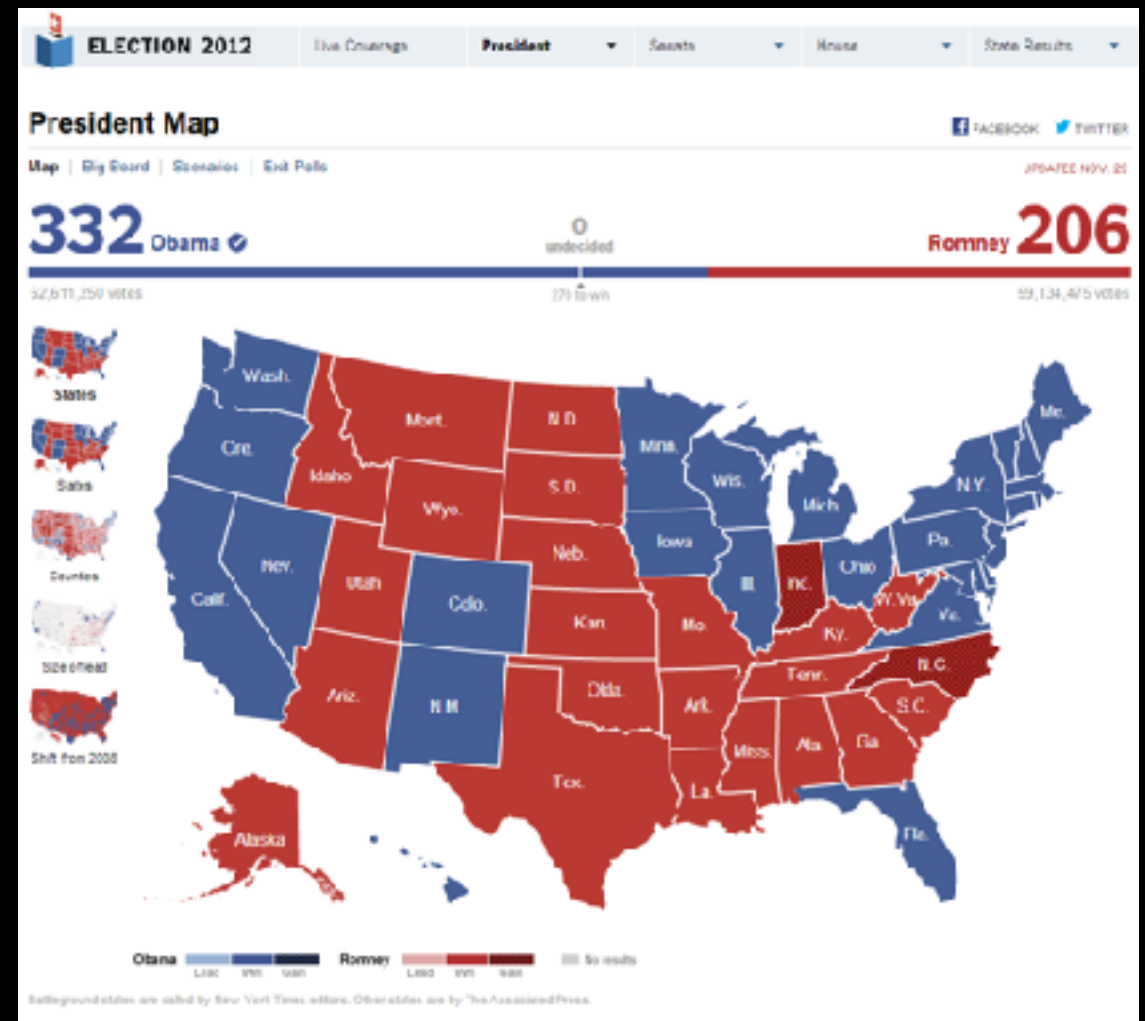
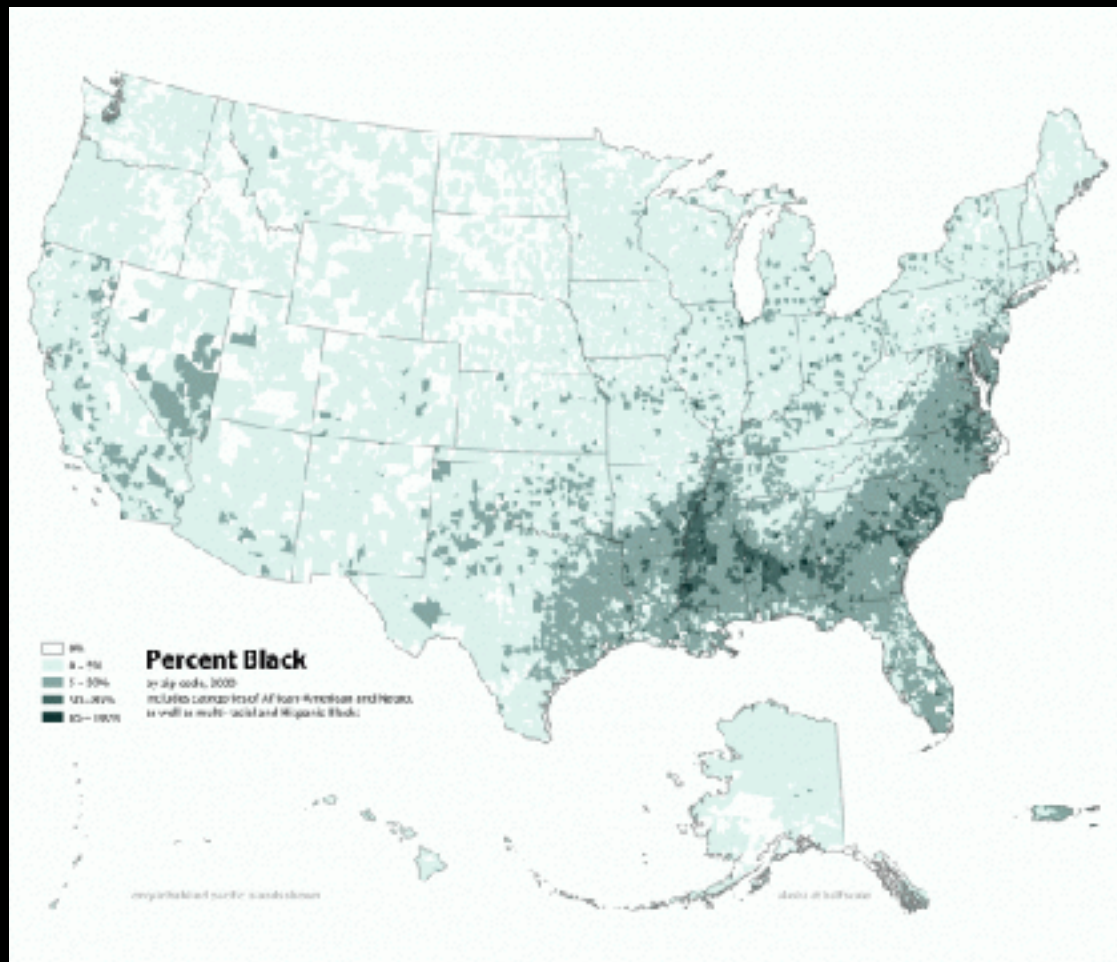
# Modifiable Areal Unit Problem

- Metric Geometry and Gerrymandering Group

<https://sites.tufts.edu/gerrymandr/>

- <http://www.washingtonpost.com/wp-srv/special/politics/gerrymandering/>

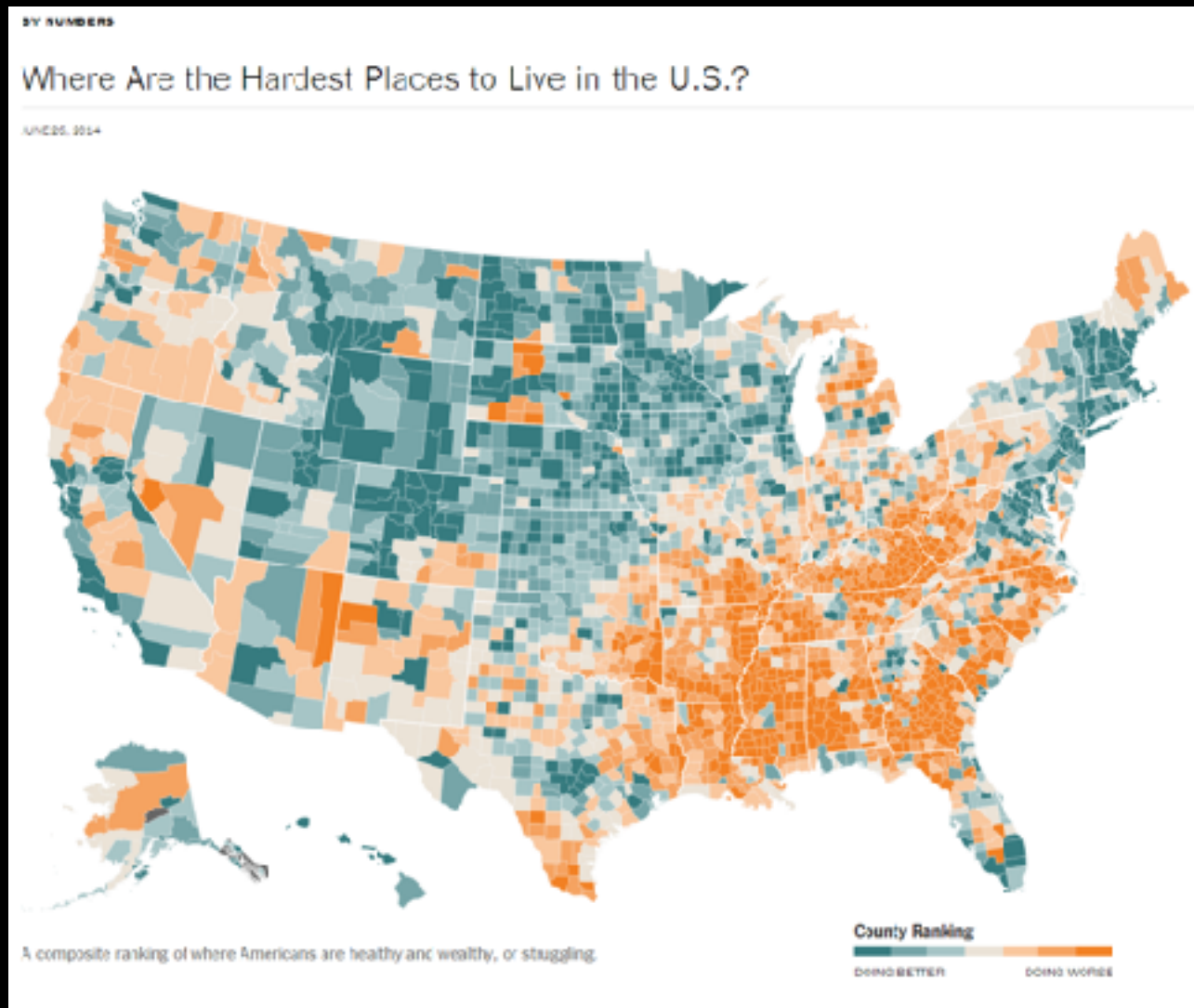
# Ecological Fallacy



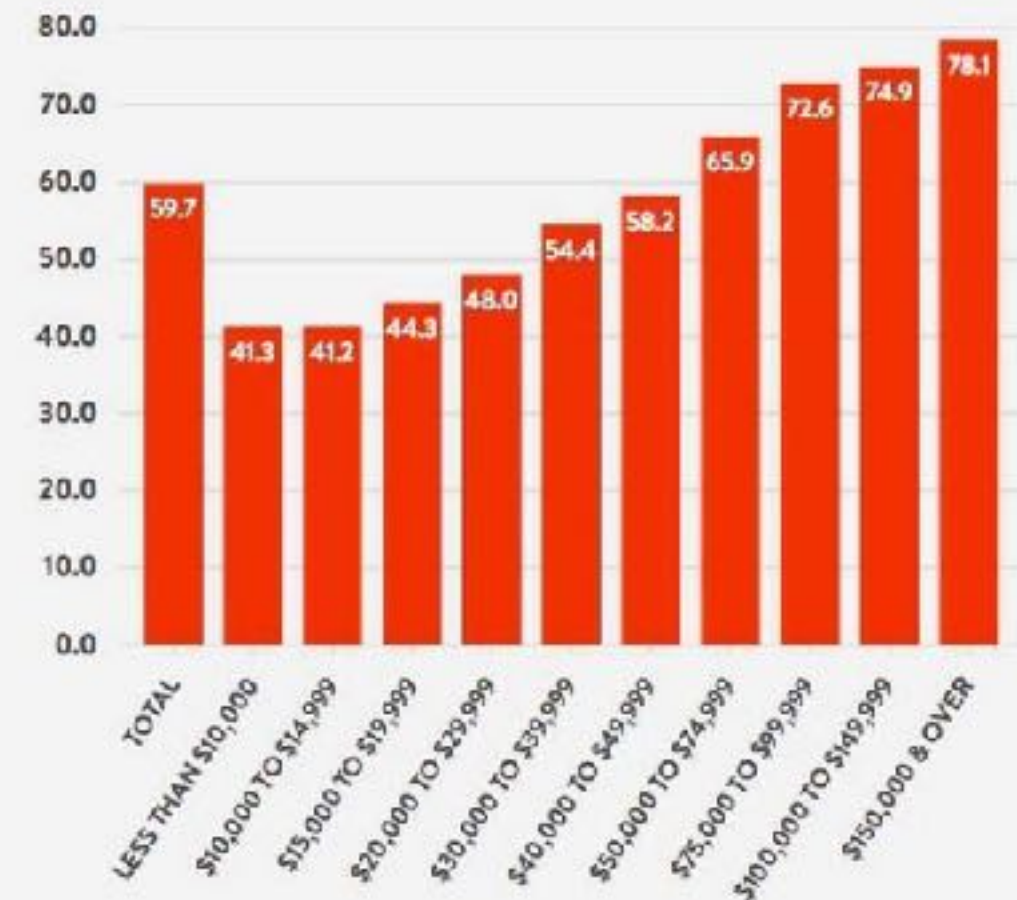


# Ecological Fallacy

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**FIGURE 2:** VOTER TURNOUT BY INCOME, 2008 US PRESIDENTIAL ELECTION.



SOURCE: US Census Bureau

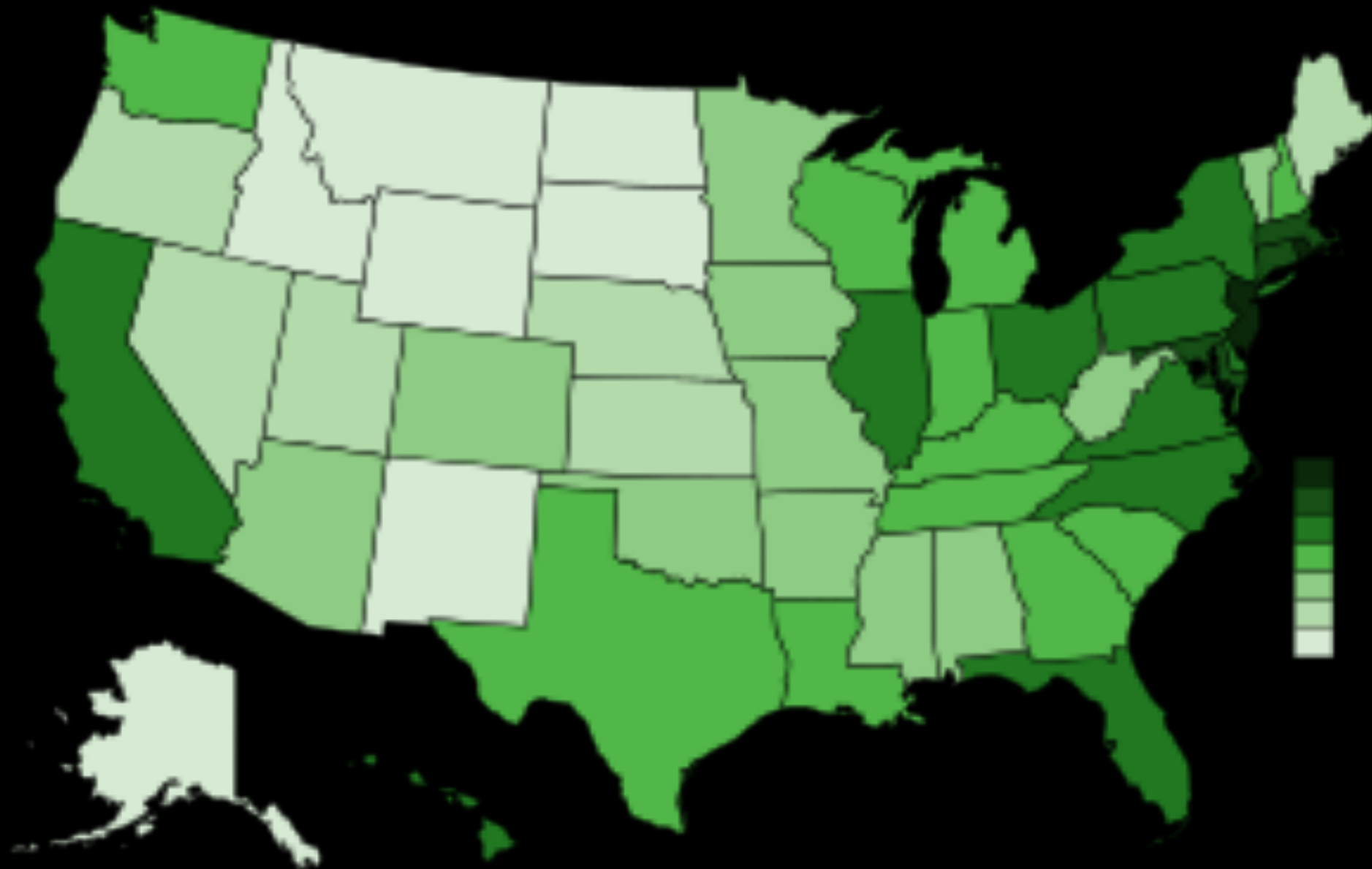
# Maps & Graphs

# Chloropleth

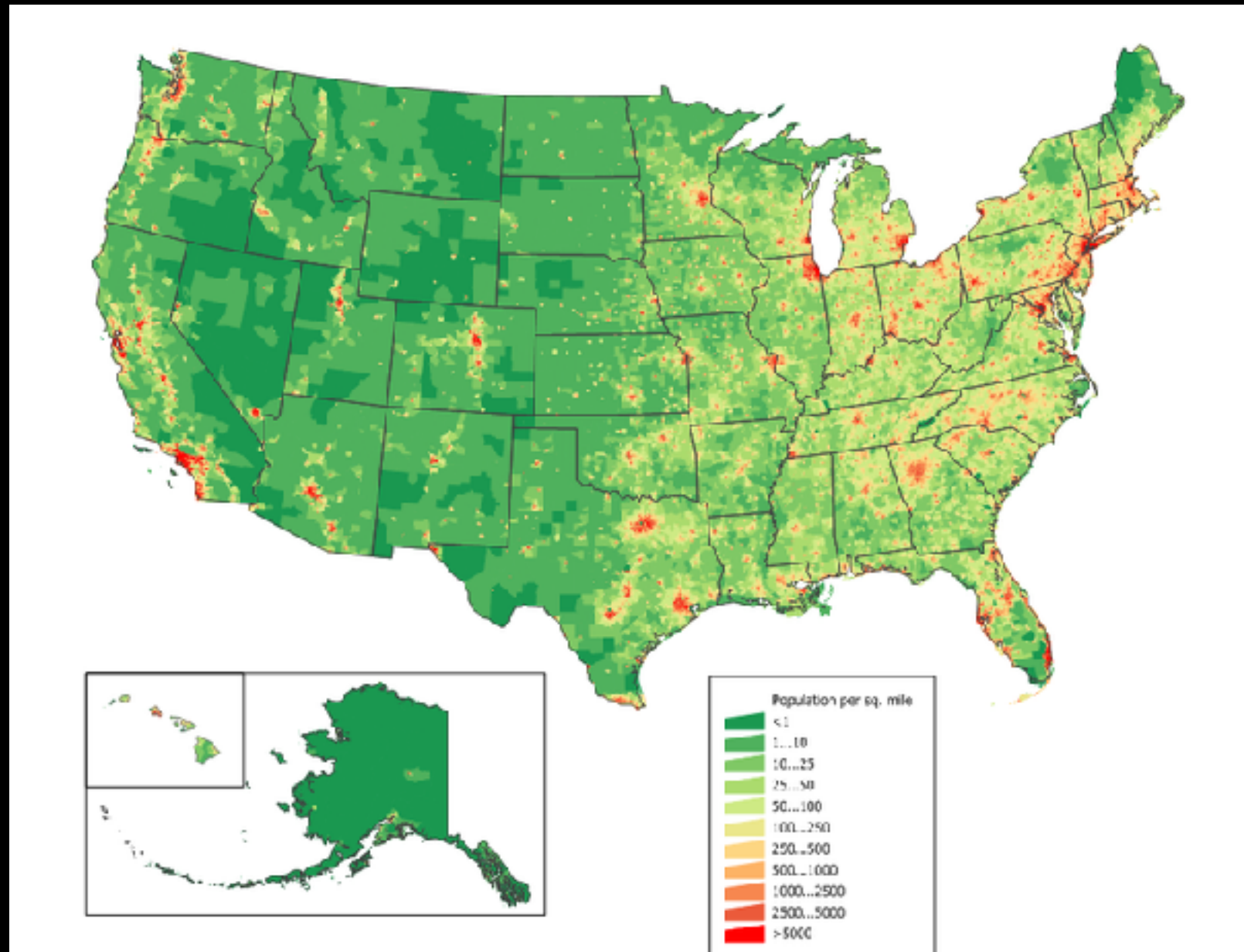
- Most loved Musicians in the US

<https://www.nytimes.com/interactive/2017/08/07/upshot/music-fandom-maps.html?mcubz=3>

# Population Density by State



# Population Density by State



2000 Census

# Dot Density Map

- <https://demographics.virginia.edu/DotMap/>

# Graduated Symbols

- <http://www.therefugeeproject.org/#/2016>



# Flow Map

- <https://www.lucify.com/the-flow-towards-europe/>

# The Wind Map

- <http://hint.fm/wind/>

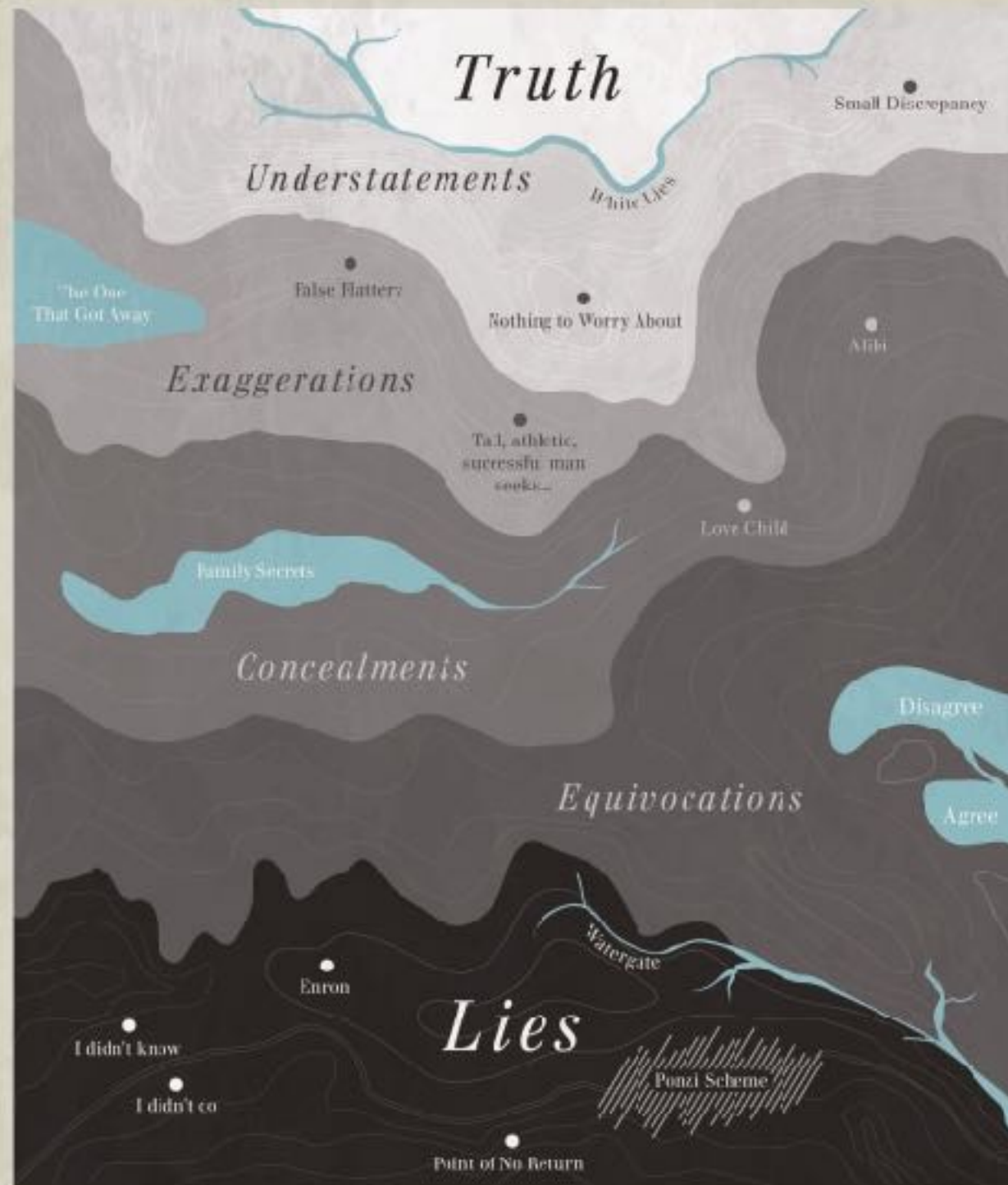
# Subway Maps

- NYC


<http://subwaylanguages.michelleajohnson.com/>

- London

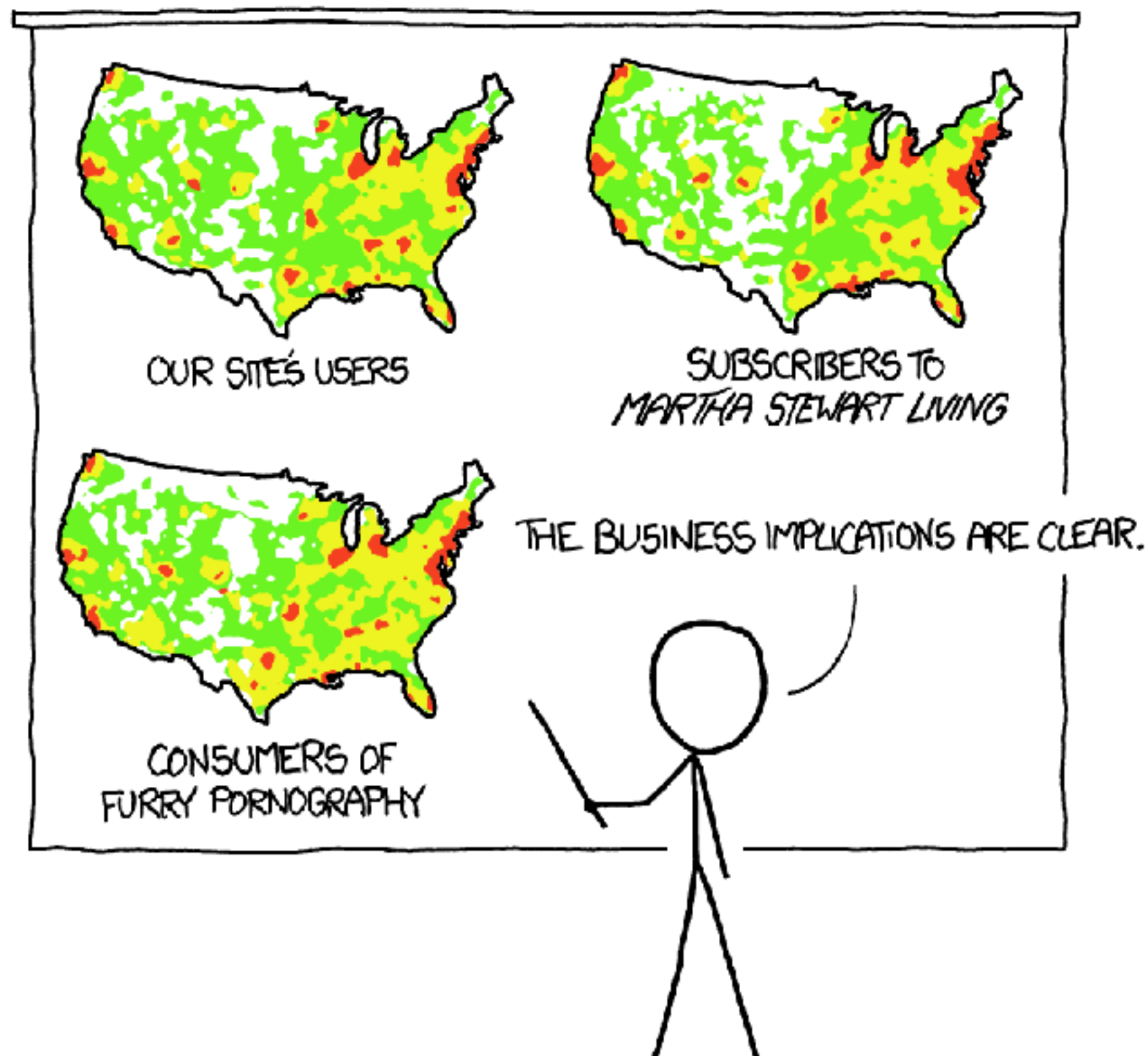
[http://tubecreature.com/  
#metric=tongues&year=2015&layers=TTTTTF&zoom=13&lon  
=-0.1500&lat=51.5200](http://tubecreature.com/#metric=tongues&year=2015&layers=TTTTTF&zoom=13&lon=-0.1500&lat=51.5200)



True North



# Map of Truth & Deception



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