





NYT: 7/18 The Maps That Show That City vs. Country Is Not Our Political Fault Line



Greater Appalachia

Settlers from war-ravaged Ulster, northern England, lowland Scotland. Deep commitment to personal sovereignty and individual liberty; intense suspicion of external authority.

New France

Folkways of French peasantry blended with traditions of Algonquin-speaking people of what is now Eastern Canada. Down-to-earth, egalitarian, consensus-driven.

Spanish Caribbean

Legacy of the maritime component of Spain's New World empire with hub in Havana. Includes Puerto Rico and other territories in Caribbean basin.

Midlands

Culturally pluralistic, founded by English Quakers. Ethnic and religious purity were never priorities; community-oriented and distrustful of government intervention.

Left Coast

New Englanders (by ship) and farmers, prospectors and fur traders from Appalachian Midwest (by wagon). Yankee utopianism meets individual self-expression and exploration.

Far West

Settlement largely controlled by corporations or government via deployment of railroads, dams, irrigation, mines; exploited as an internal colony, to the lasting resentment of its people.

Yankeedom

Puritan legacy; perfect earthly society with social engineering, individual denial for common good; assimilate outsiders; vigorous government to thwart would-be tyrants.

New Netherland

Dutch-founded; retains traits of 17th-century Amsterdam: a global trading culture; materialistic; multicultural; committed to tolerance and freedom of inquiry and conscience.

Tidewater

17th-century gentry recreated semi-feudal manorial society of English countryside. Conservative; respect for authority and tradition, not equality or political participation.

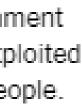
Deep South

Established by slave lords from English Barbados as a West Indies-style slave society. Modeled on slave states of the ancient world — democracy was the privilege of the few. Fights for rollbacks of federal power, taxes on capital and the wealthy, and environmental, labor and consumer protections.

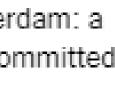


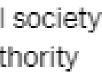


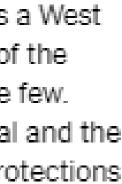








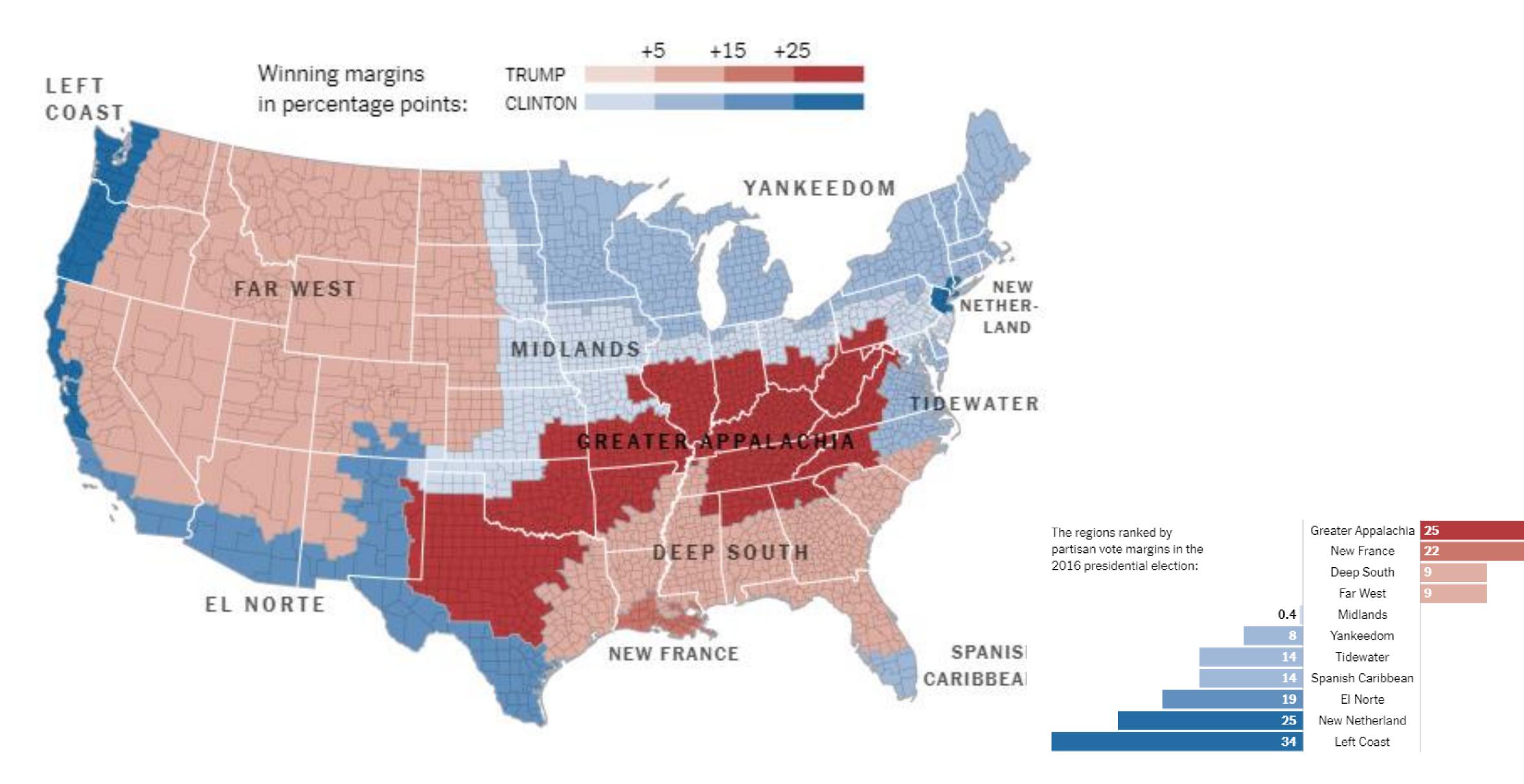




The Partisan Landscape

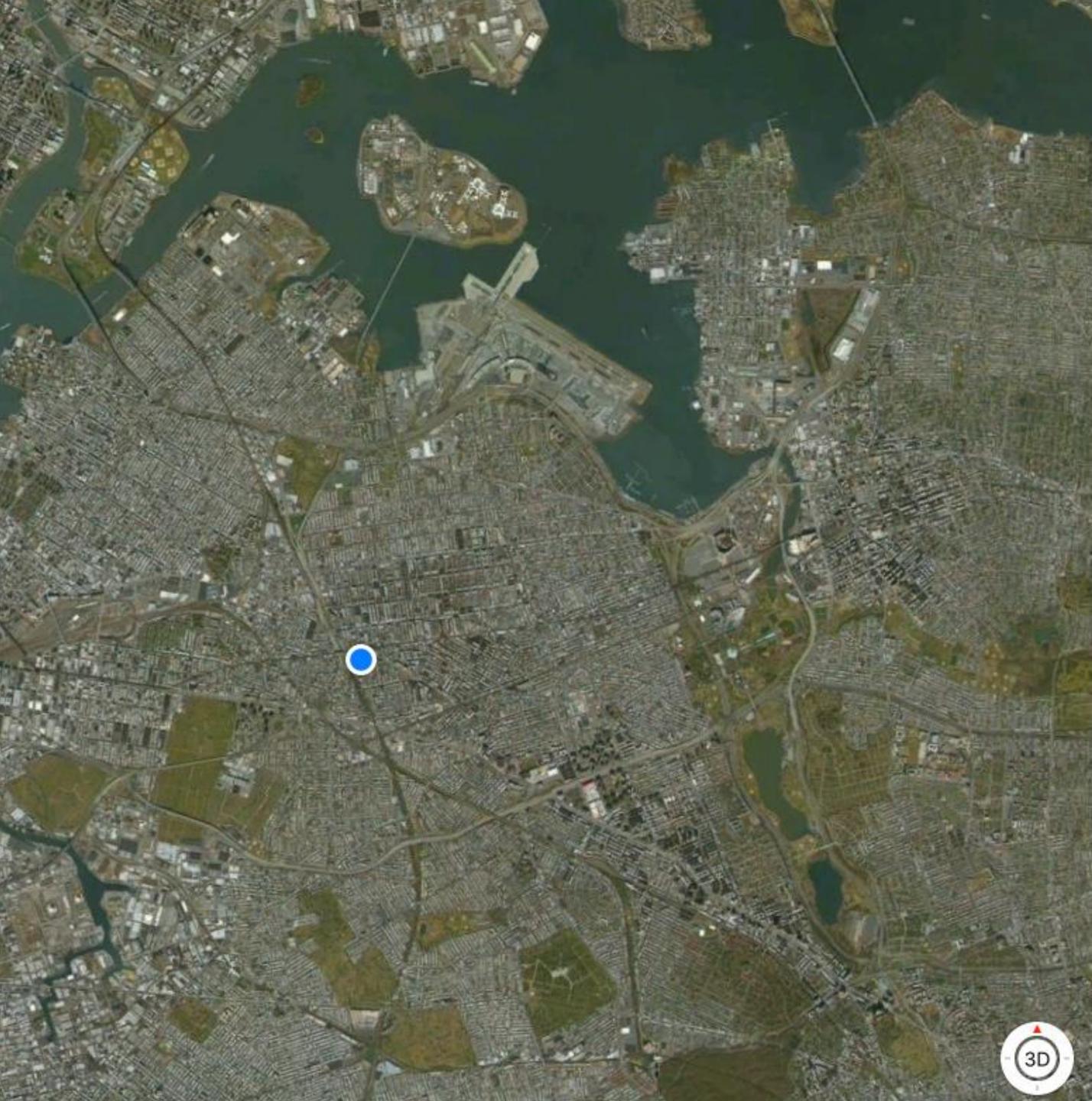
2016 presidential vote by region.

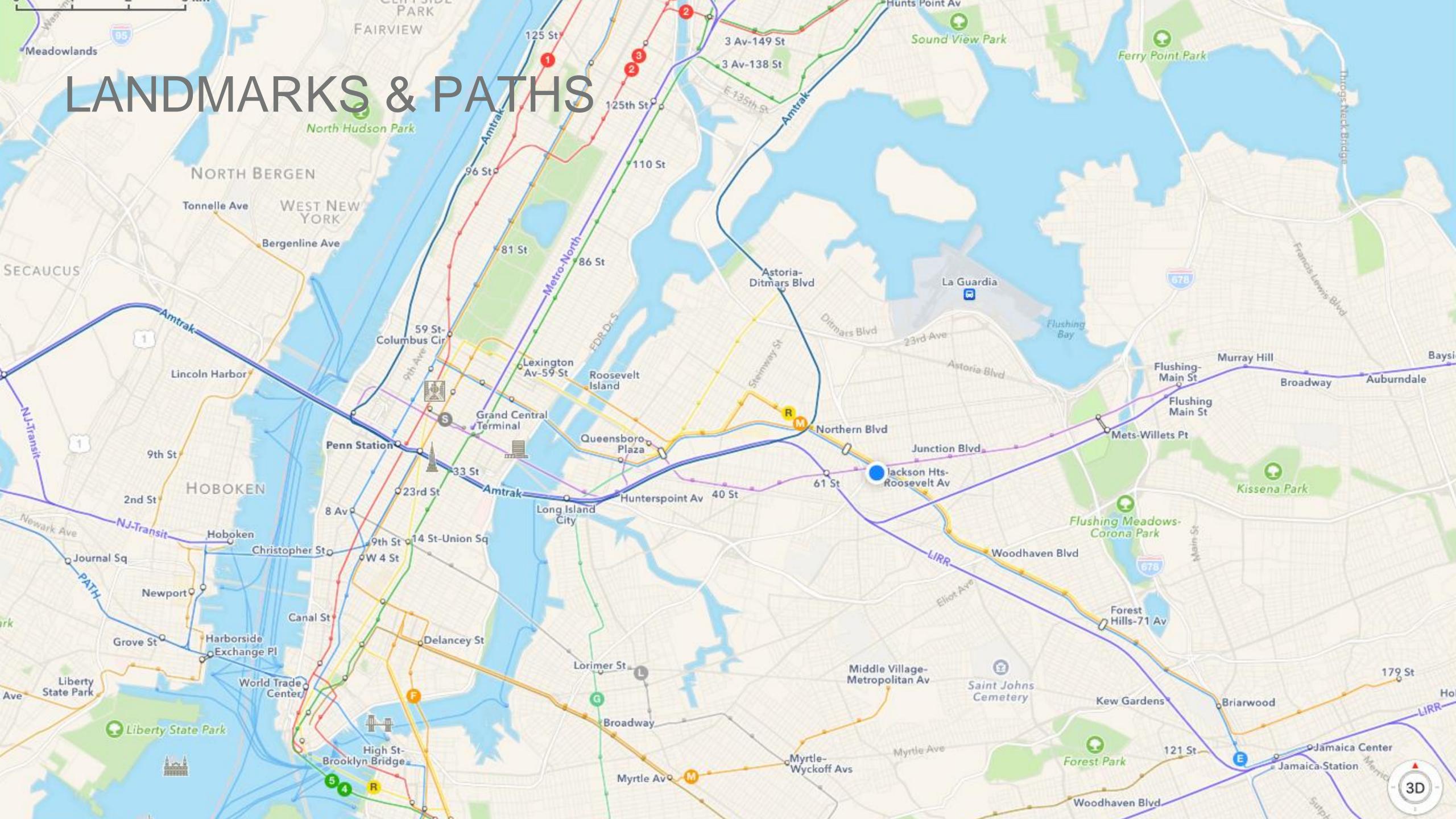
Compare this with the map on the previous page and observe the correlations



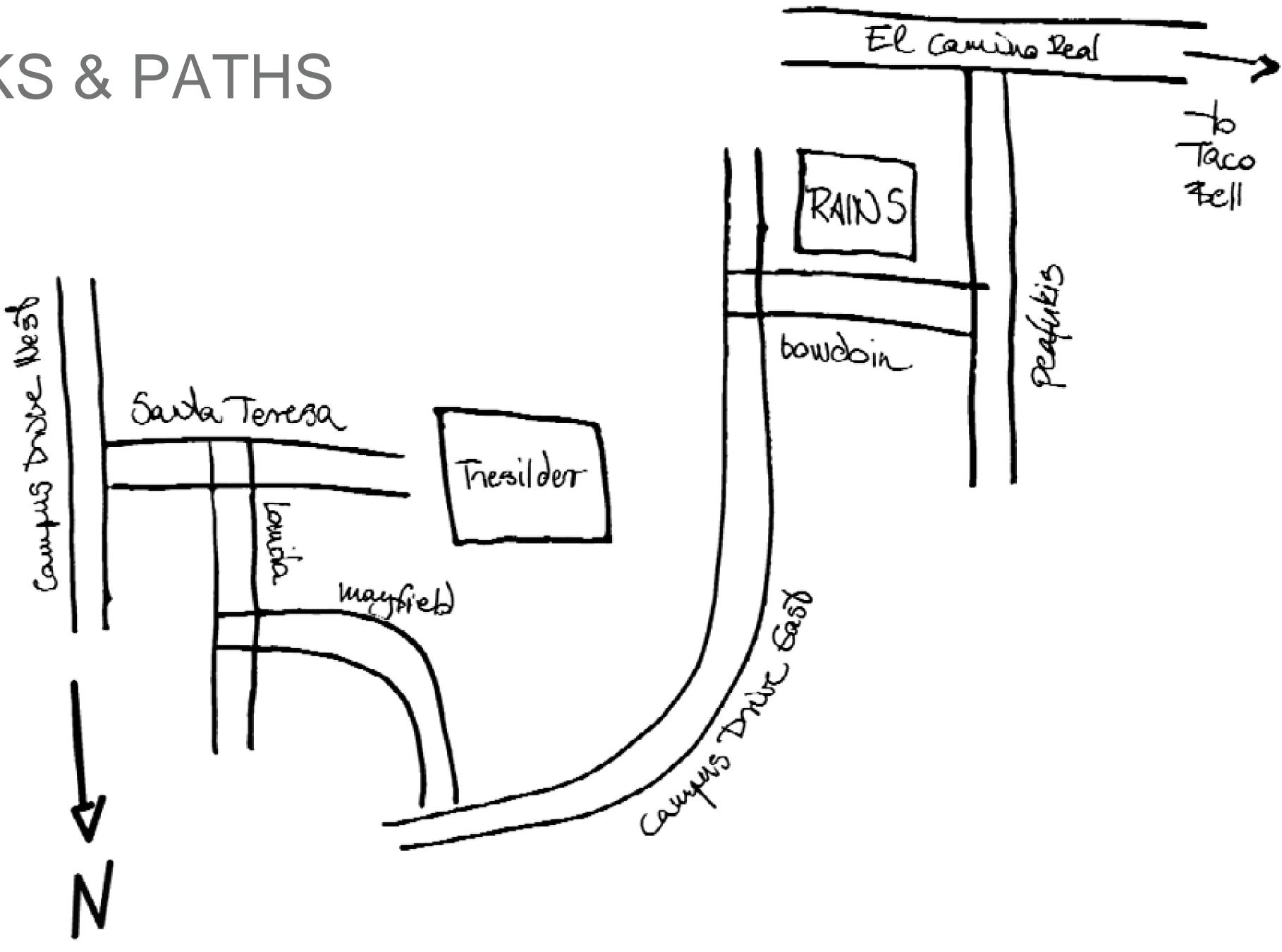


SATELLITE

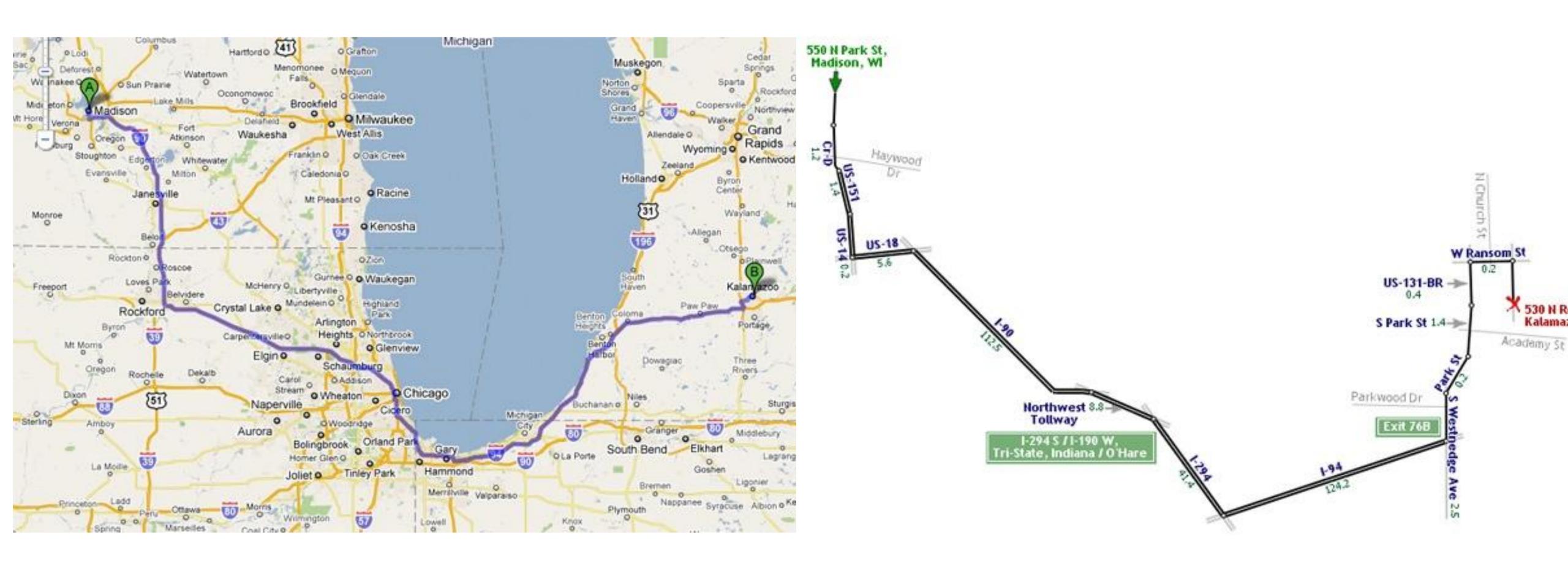




LANDMARKS & PATHS



LINEDRIVE (2001)



AUTOMATIC GENERATION OF TOUR





STREET VIEW

0

-0

Broadwar

Broadway

ASSESSMENT LERender Commenter



STREETSIDE VIEW (2010)













STREET LIGHT VIEW (2010)

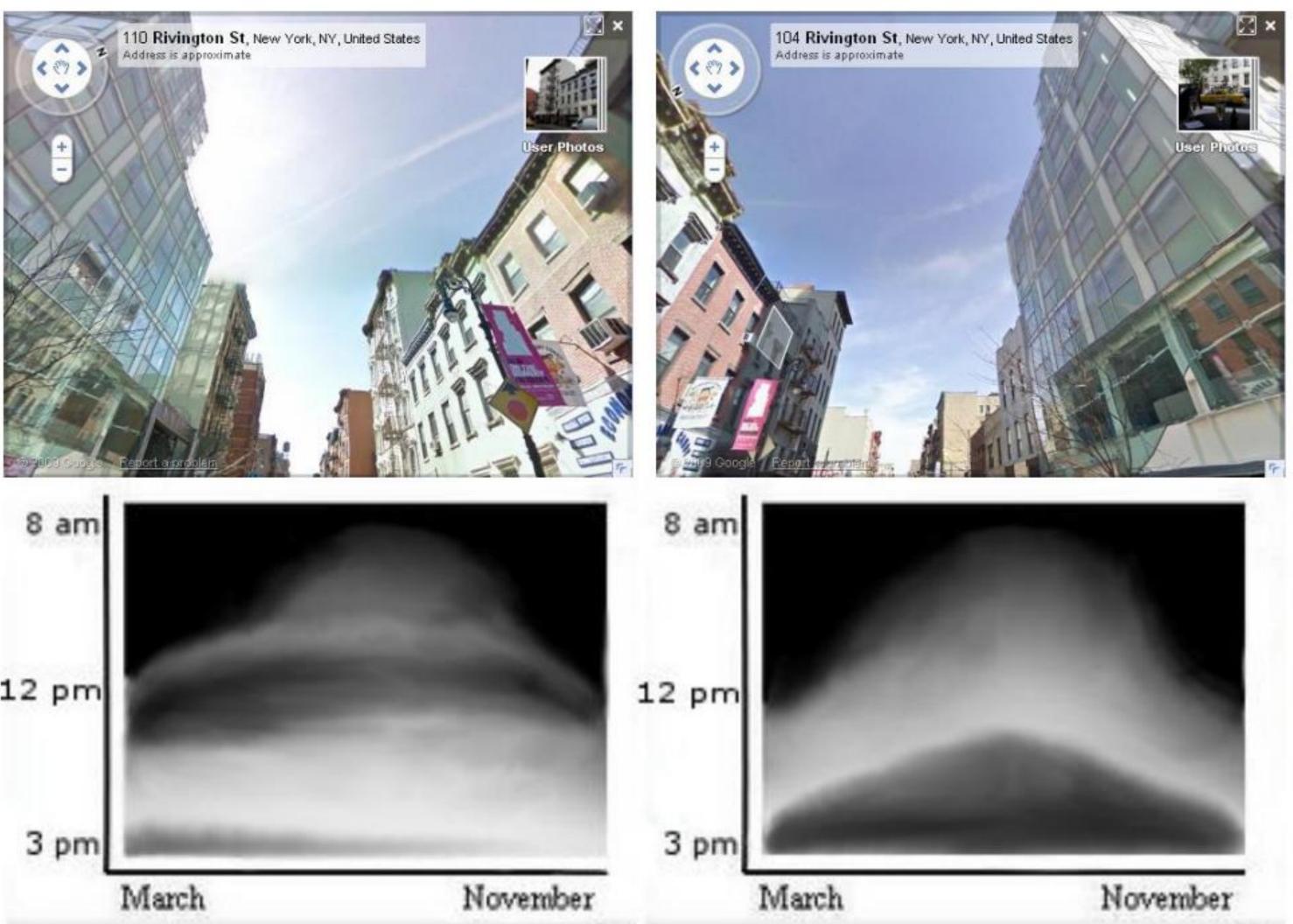
Illumination of two apartments (above) compared with *illumination thumbnails* (below)

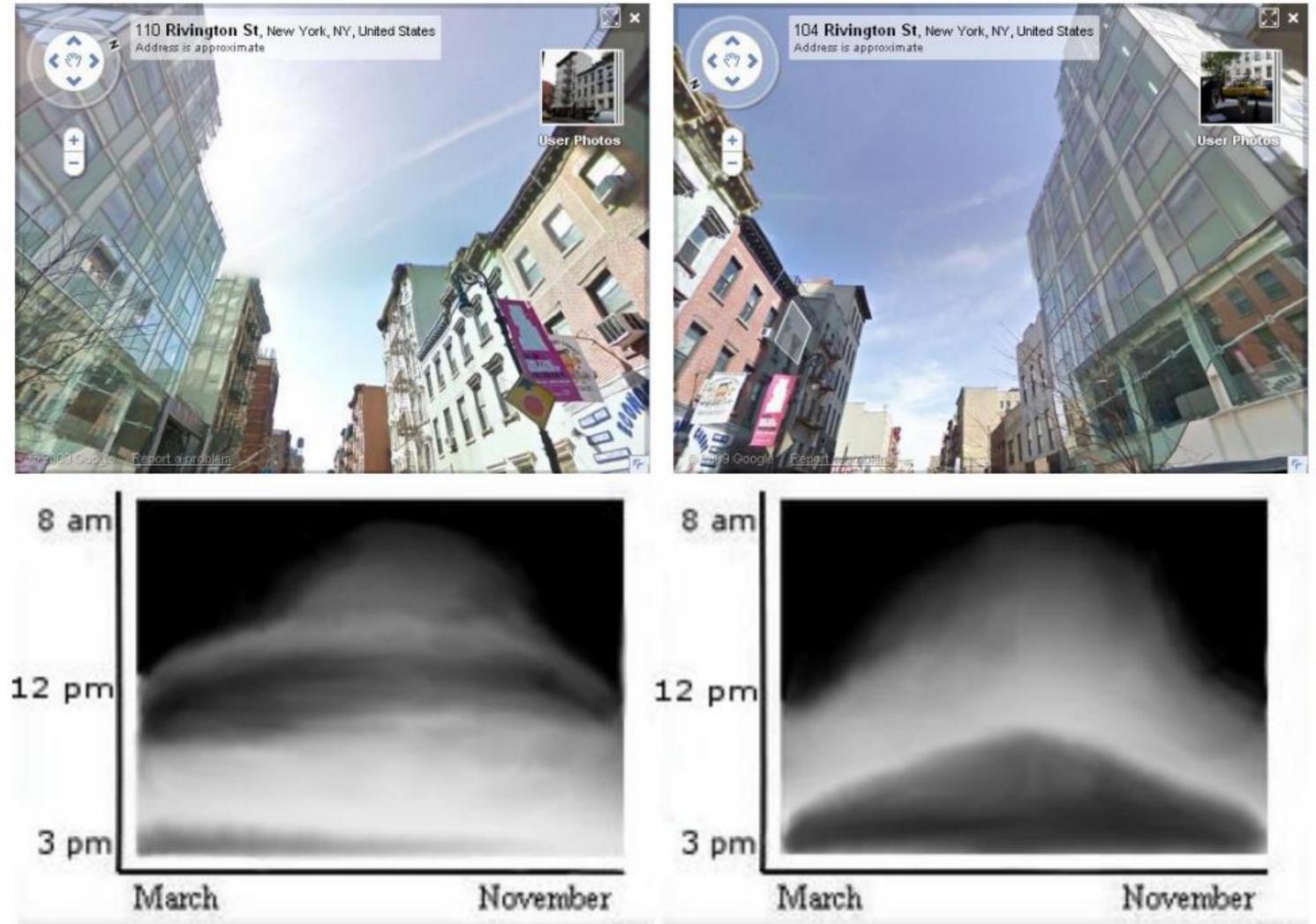
The difference in lighting is apparent on the thumbnail

- the first apartment area suffers from light occlusion at around noon, and again toward the evening
- the second apartment area is occluded only toward the evening, nearing 3pm

The buyer's daily routine and preferences will decide which apartment to choose.

C. Rojo, W. Xu, K. Mueller, "Street Light View: Enriching Navigable Panoramic Street View Maps with Informative Illumination Thumbnails," IEEE Visualization Conference, Salt Lake City, October, 2010



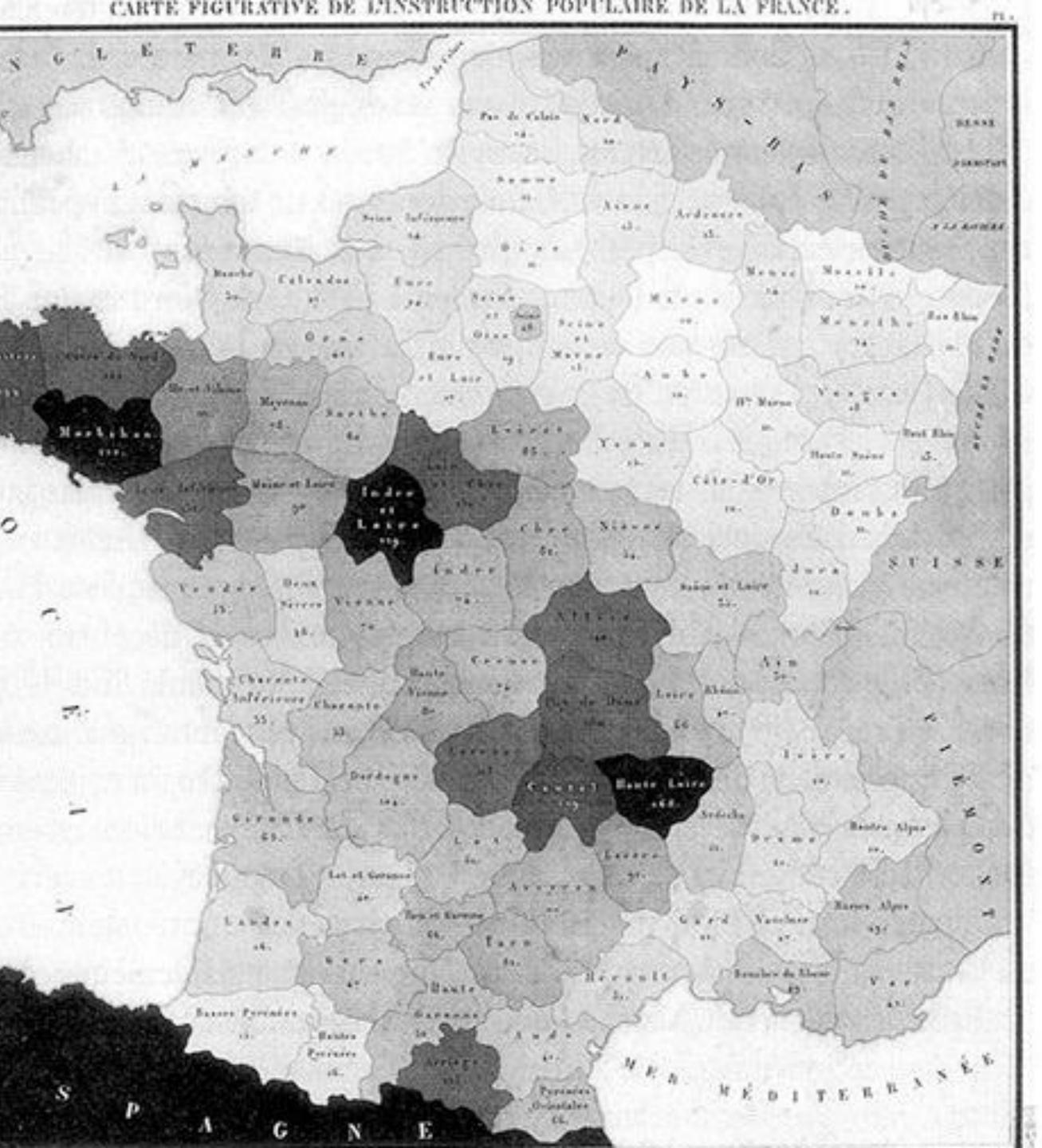




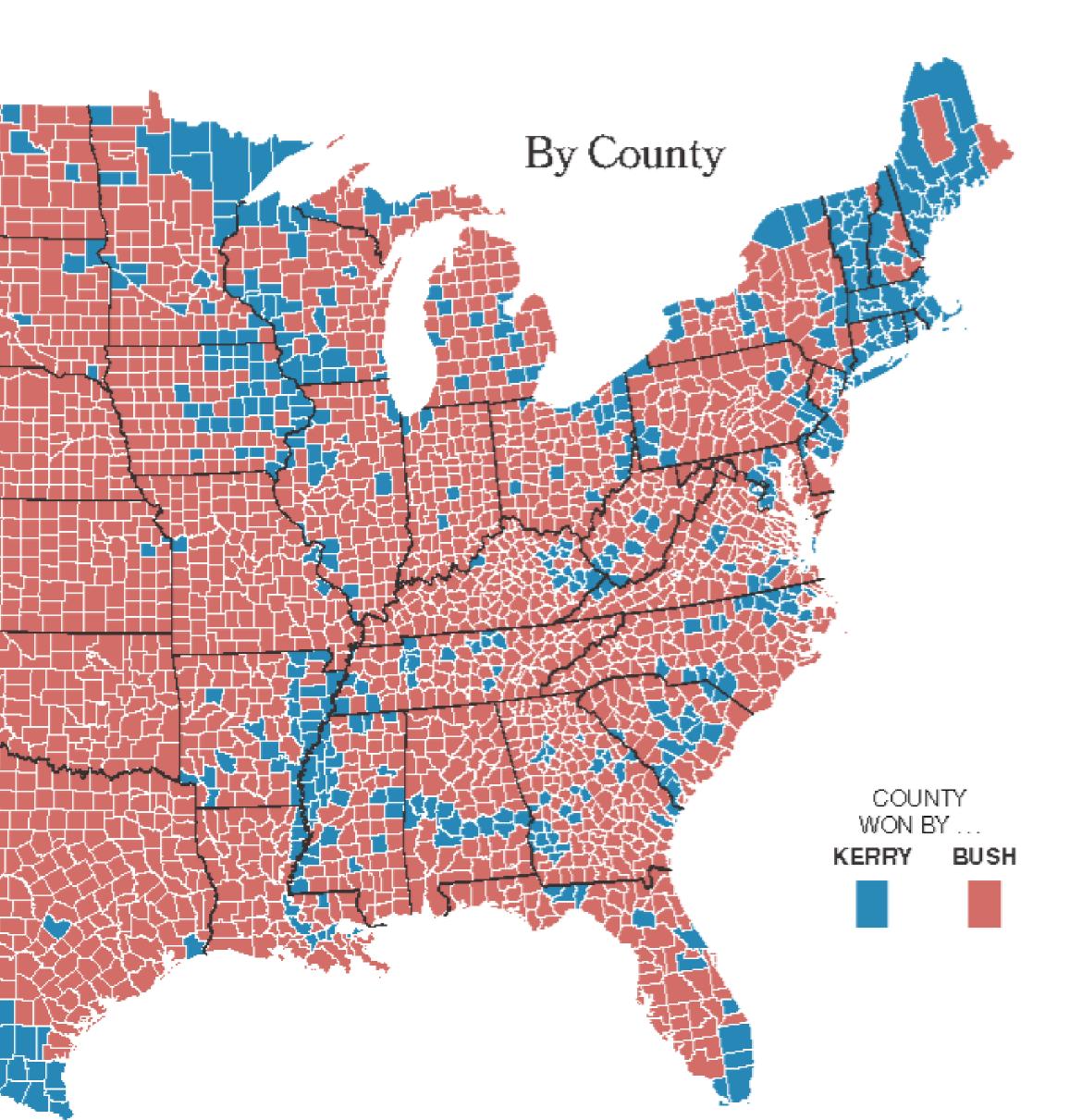


CHOROPLETH MAPS

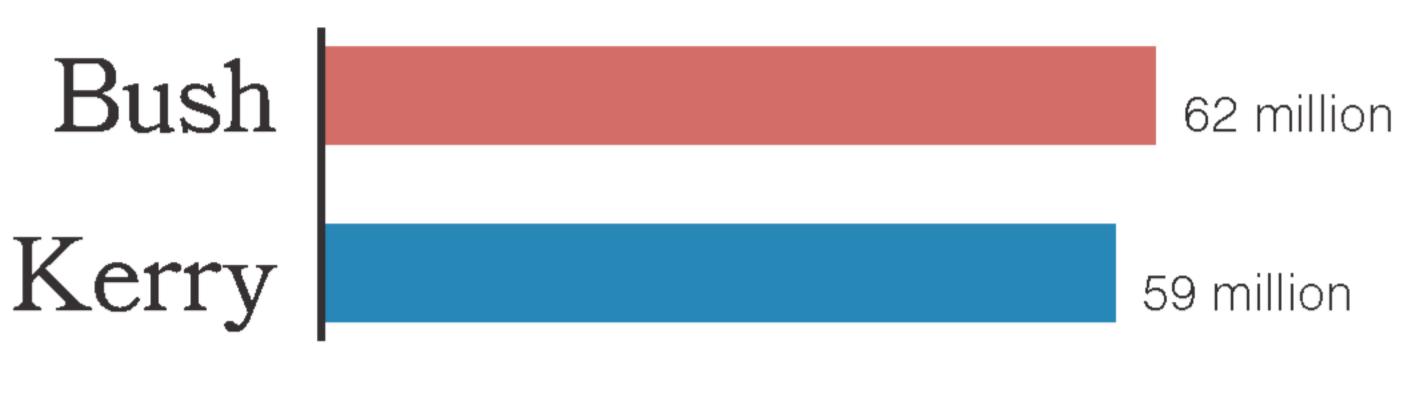
- Use colors/shadings to show data
- based on Greek words meaning "area/region" and "multitude"
- ➤ First in 1826 (by Charles Dupin)
 - Illiteracy in France
 - > darker regions mean higher illiteracy
- > Perception problems?



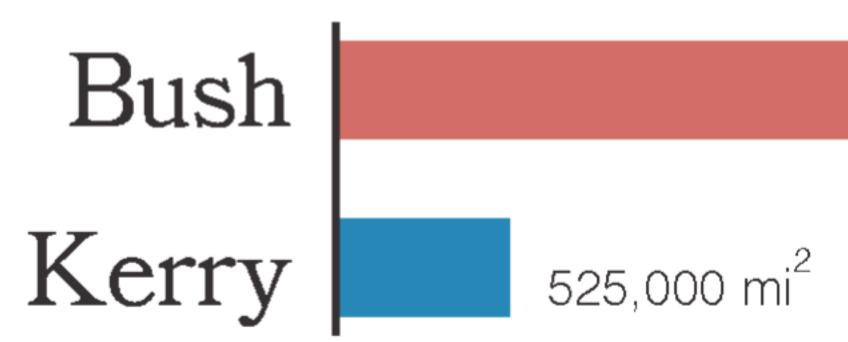
KERRY VS. BUSH (2004) COUNTY LEVEL BY MAJORITY



KERRY VS. BUSH (2004)



Amount of red and blue shown on map



2004 Popular Vote

2,500,000 mi²

Hence the maps do not convey voter representation well

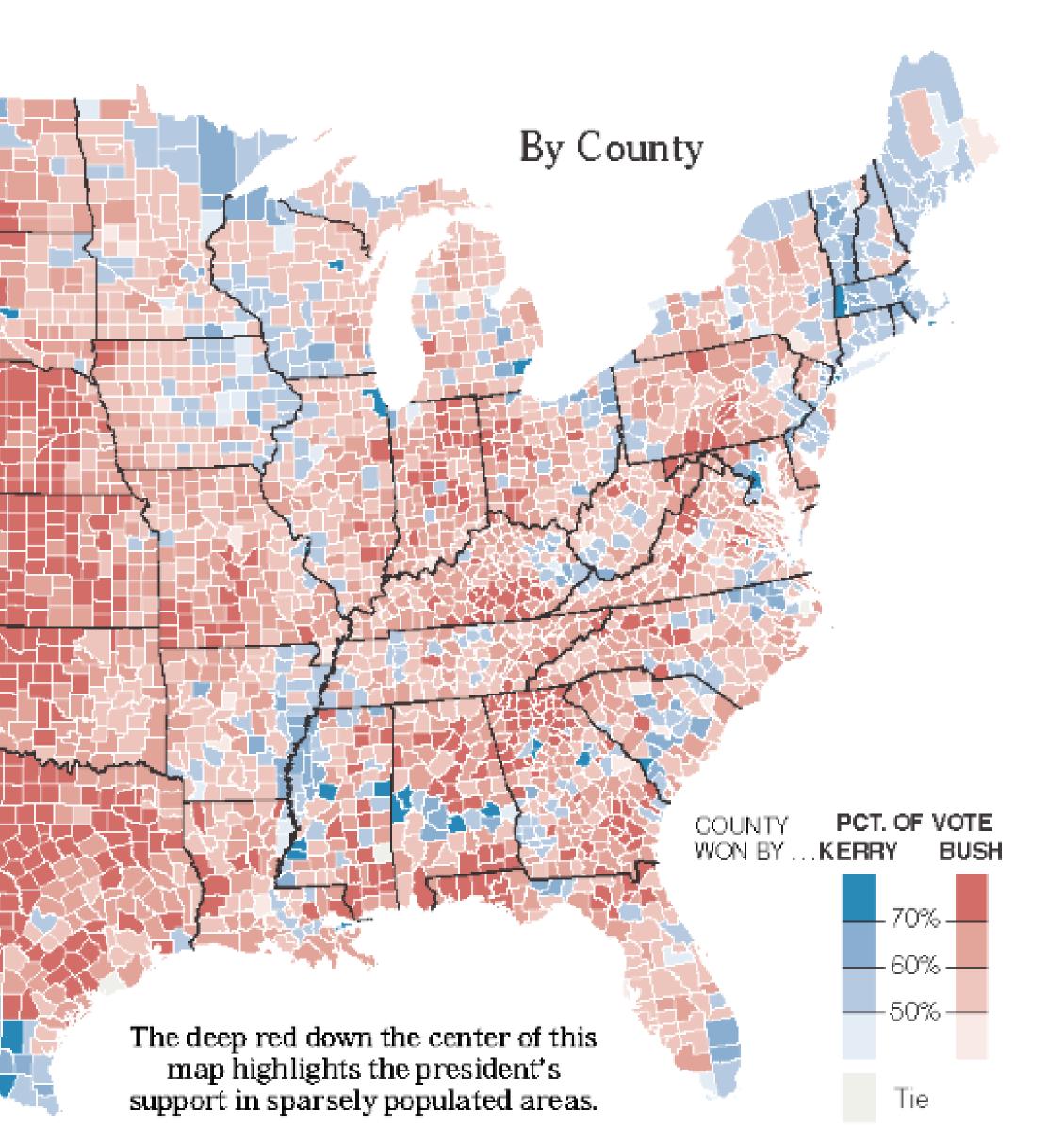
Ideally the amount of colors would stand for the amount of votes



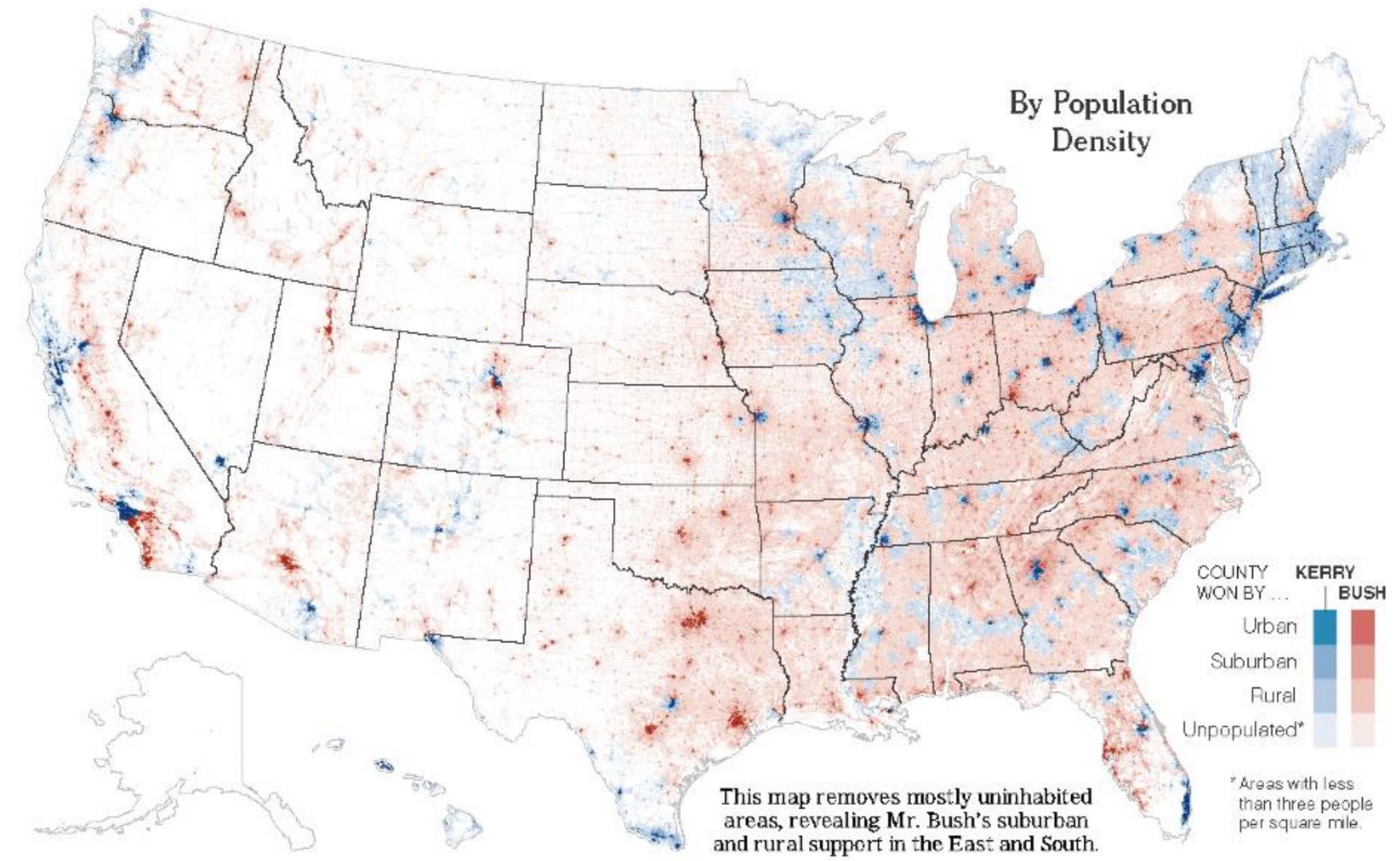
KERRY VS. BUSH (2004) COUNTY LEVEL BY % MARGIN

-

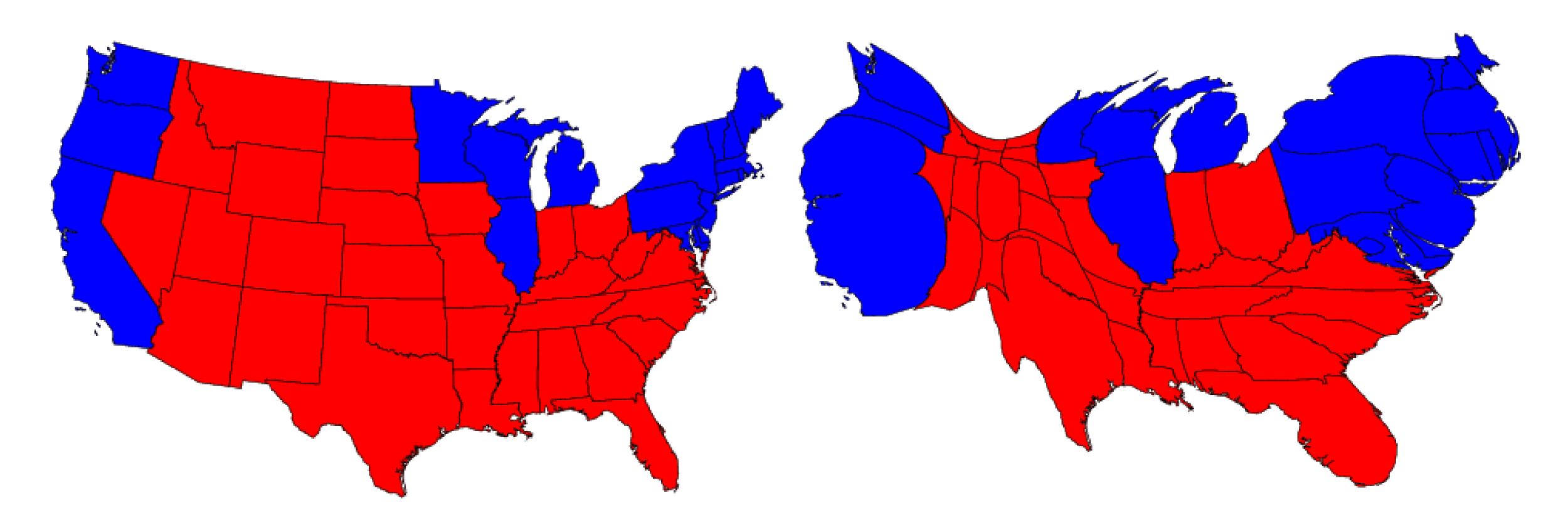
and the second second



KERRY VS. BUSH (2004) CORRECTED FOR POPULATION DENSITY



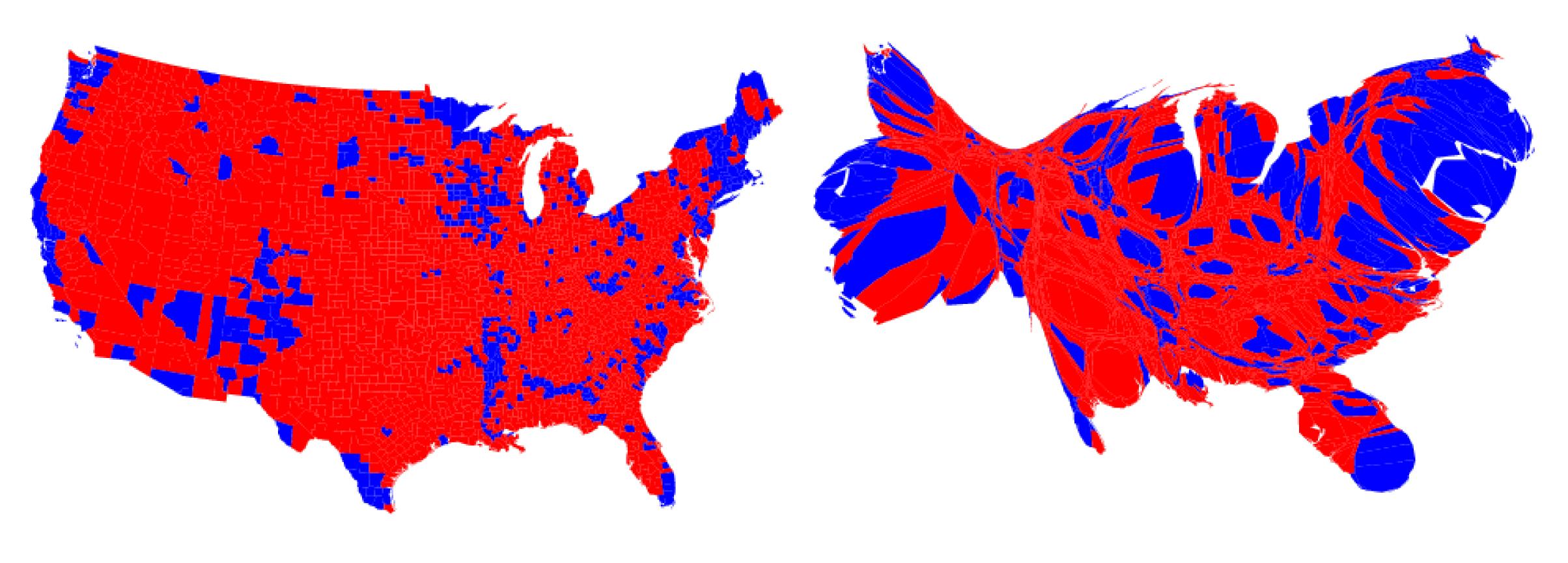
KERRY VS. BUSH (2004) BY STATE



geographically accurate

geography scaled by population gives a seemingly fairer visual representation of the "one man, one vote' principle

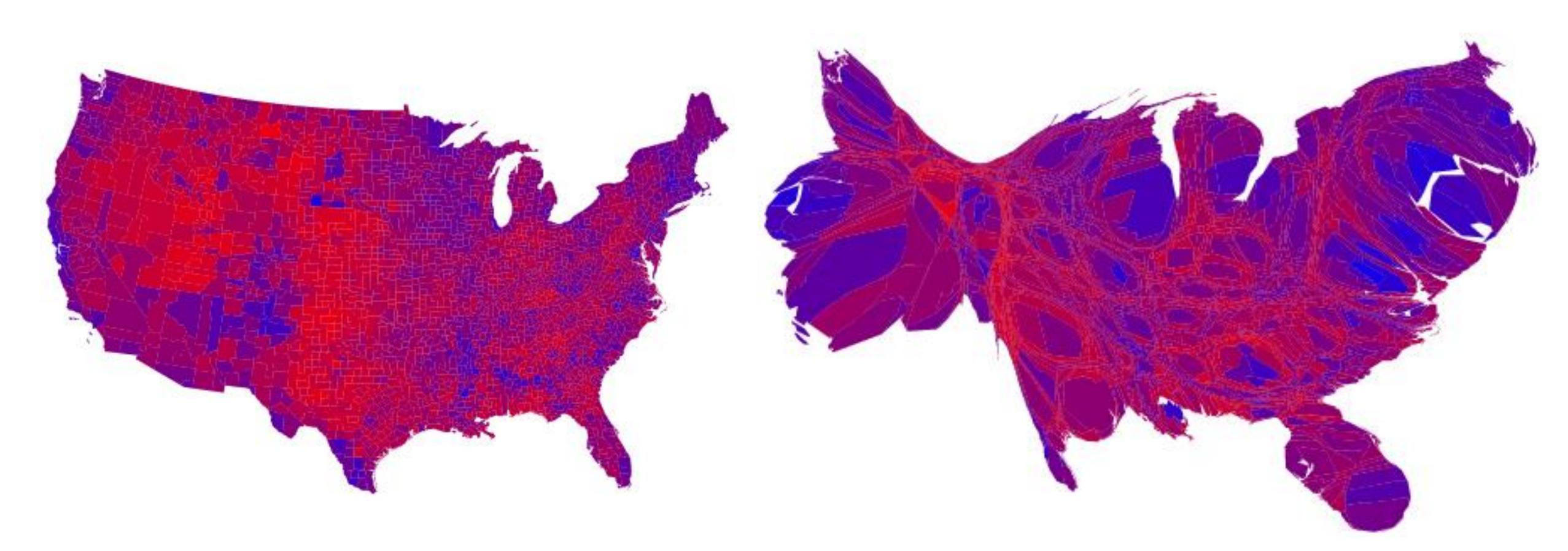
KERRY VS. BUSH (2004) BY COUNTY



geographically accurate

geography scaled by population gives a seemingly fairer visual representation of the "one man, one vote' principle

KERRY VS. BUSH (2004) COUNTY LEVEL BY % MARGIN



geographically accurate

geography scaled by population gives a seemingly fairer visual representation of the "one man, one vote' principle

KERRY VS. BUSH (2004) COUNTY LEVEL BY % MARGIN

Michael Gastner, Cosma Shalizi, and Mark Newman University of Michigan

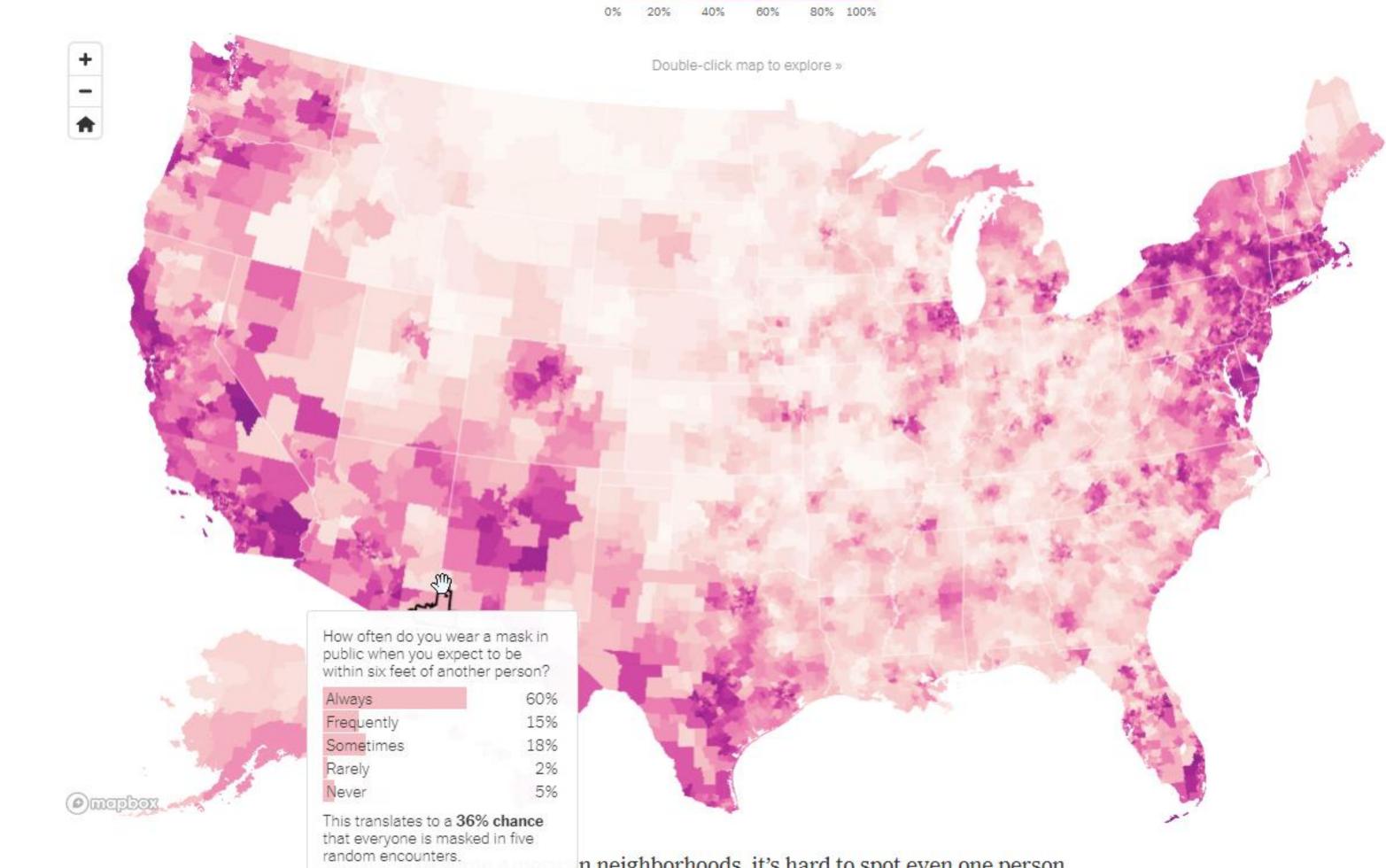


seemingly even fairer visual in terms of 'one man, one vote'

COLOR IS POWERFUL

https://www.nytimes.com/interactive/2020/10/30/opinion/election-resultsmaps.html?action=click&module=Opinion&pgtype=Homepage

MASK WEARING DISCIPLINE



Chance all five people are wearing masks in five random encounters (New York Times)

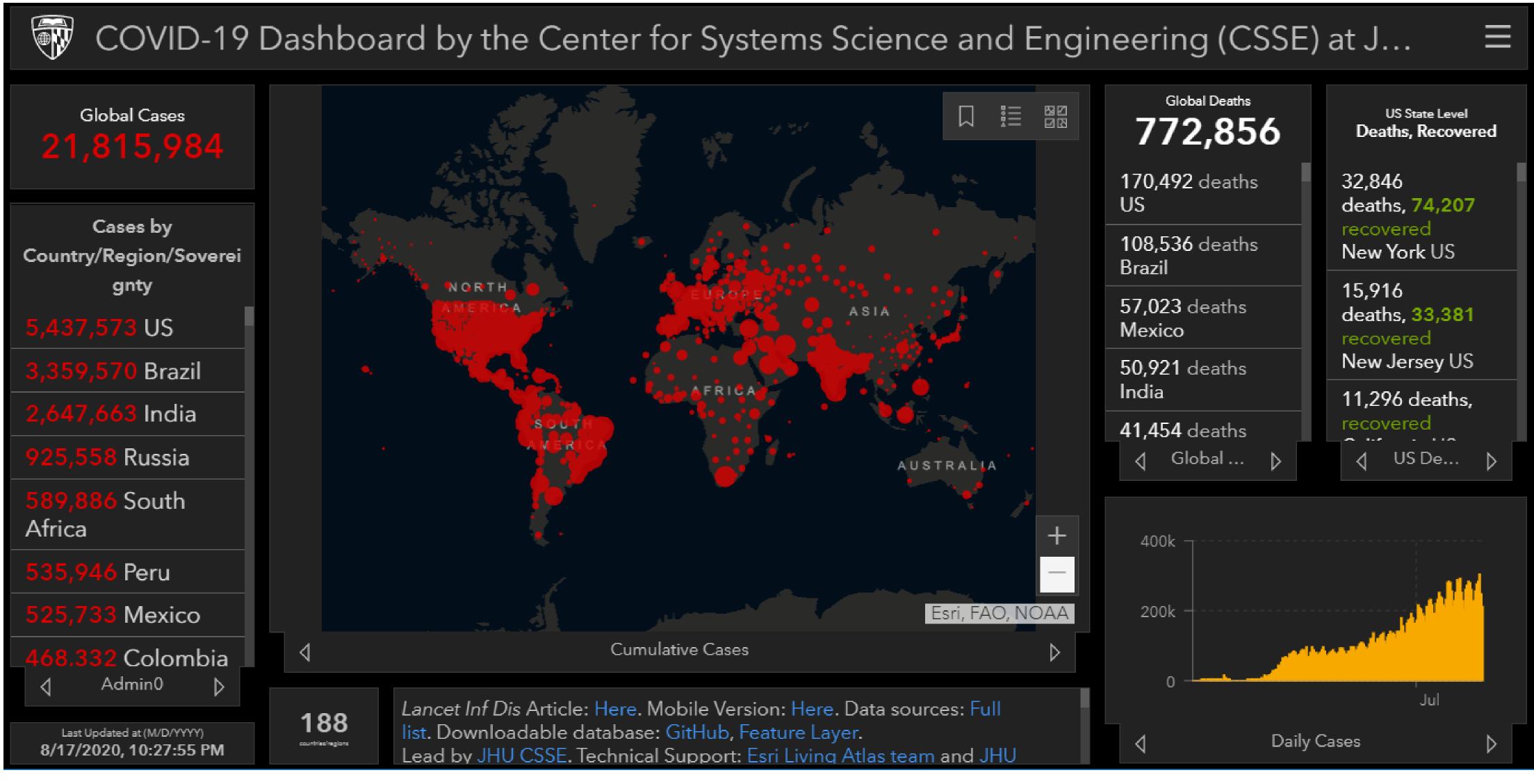
Chance all five people are wearing masks in five random encounters

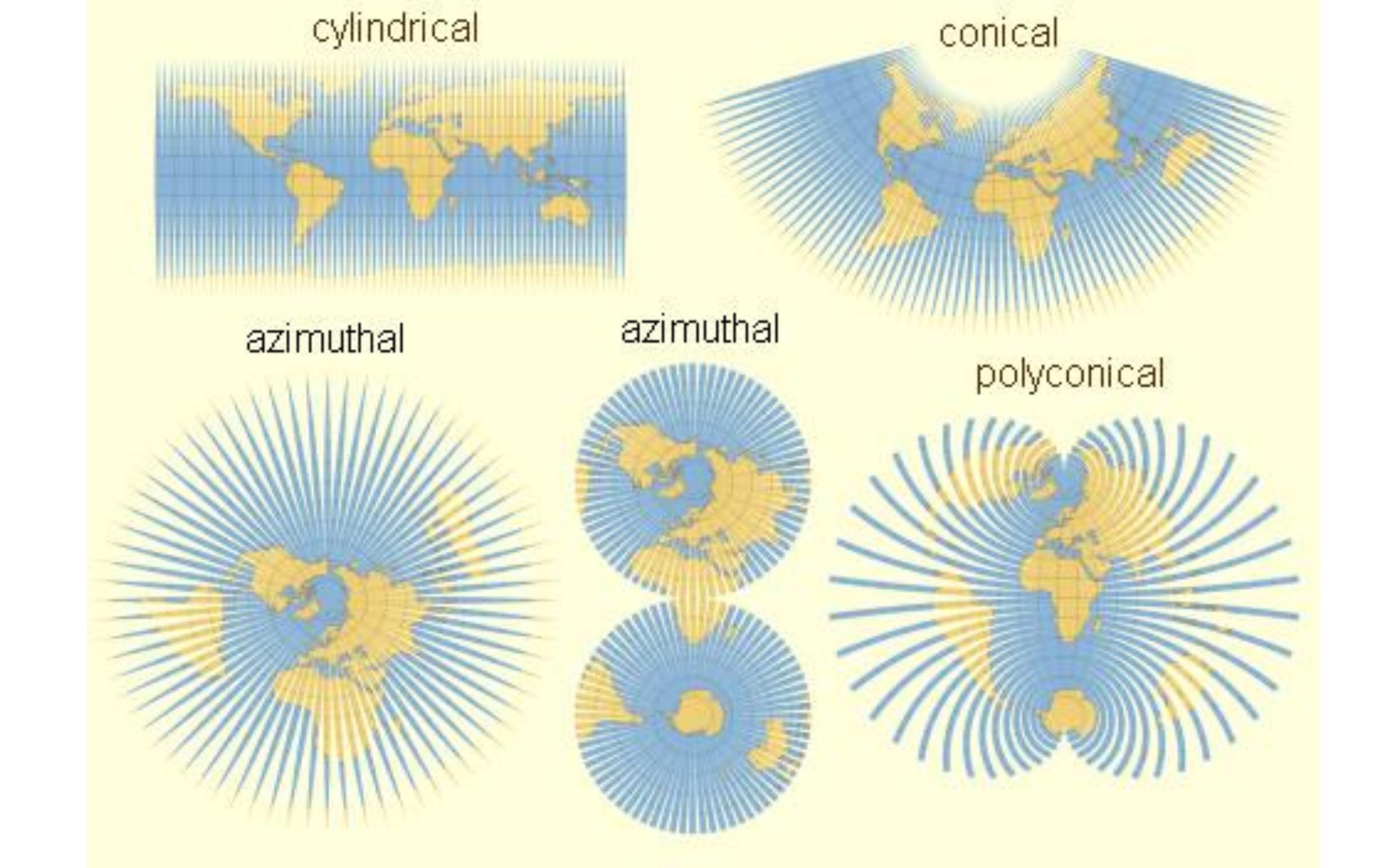
			A CONTRACTOR OF A CONTRACTOR A	
20%	40%	60%	80%	100%
		0.000		

n neighborhoods, it's hard to spot even one person



JOHNS-HOPKINS COVID-19 DASHBOARD





UNFOLDING THE EARTH: MYRIAHEDRAL PROJECTIONS

https://www.youtube.com/watch?v=TMKaxQvJQp4

Jarke J. van Wijk. Unfolding the Earth: Myriahedral Projections. The Cartographic Journal, Vol. 45, No. 1, pp.32-42, February 2008.

Unfolding the Earth: Hyriahedral Projections

Jarke TU E

I. van Wijk indhoven



CHINA

ANGLADA

RUSSIA

HAND

DONESL

ALSTRALIA

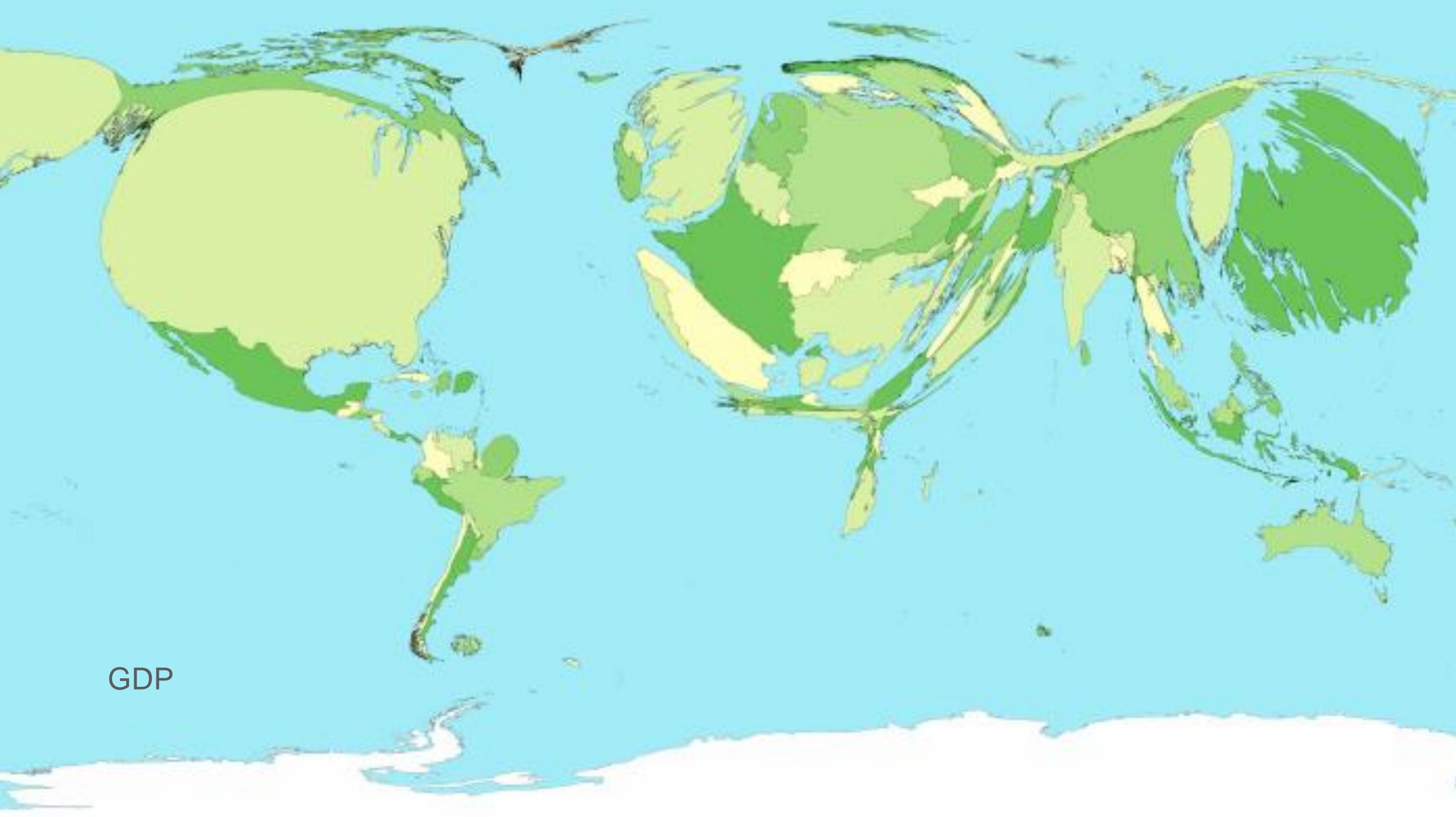
INDIA

TC-Died

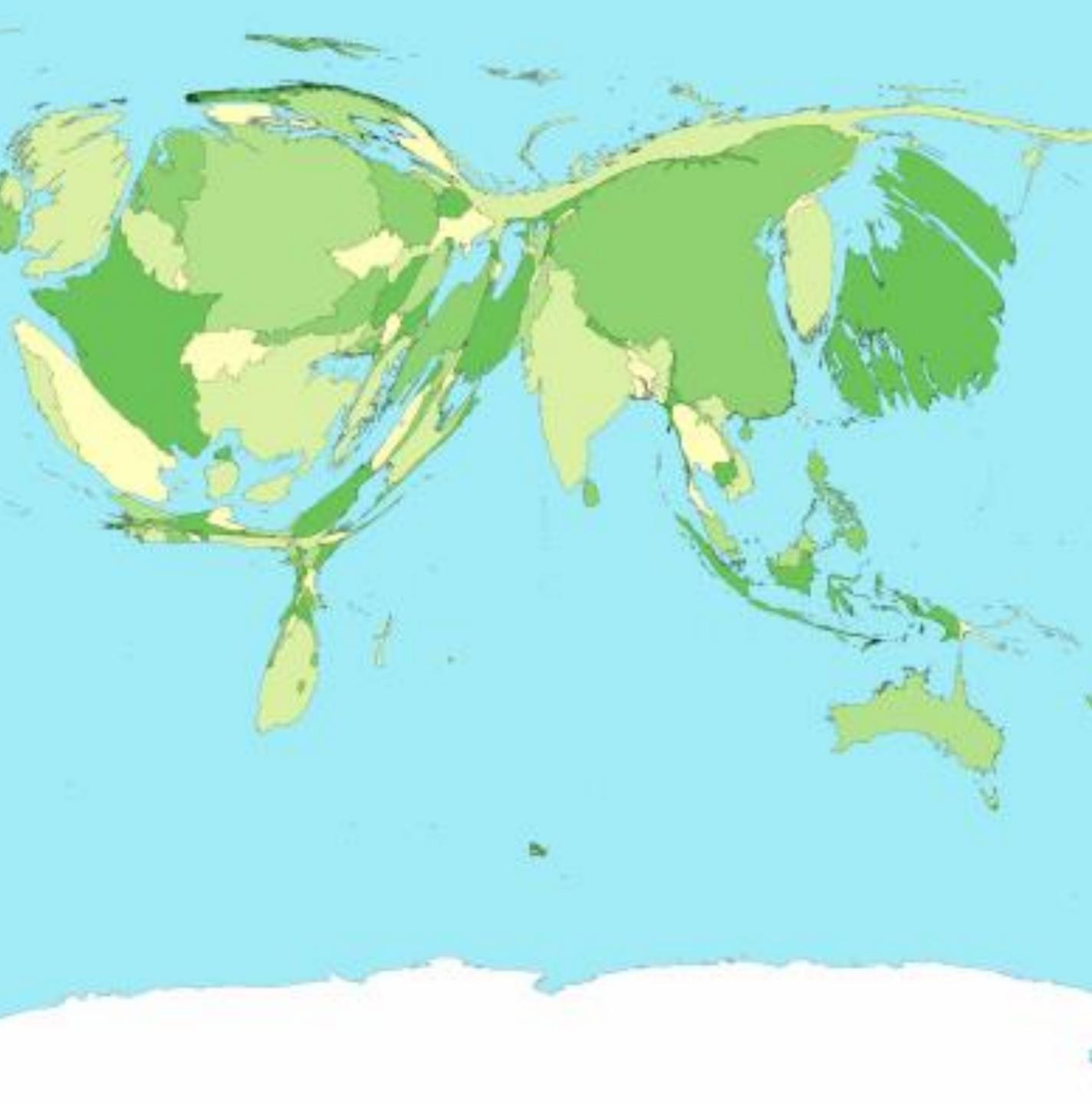
INDIAN OCEAN

The next slides use populationbased distortion for various national parameters \rightarrow '

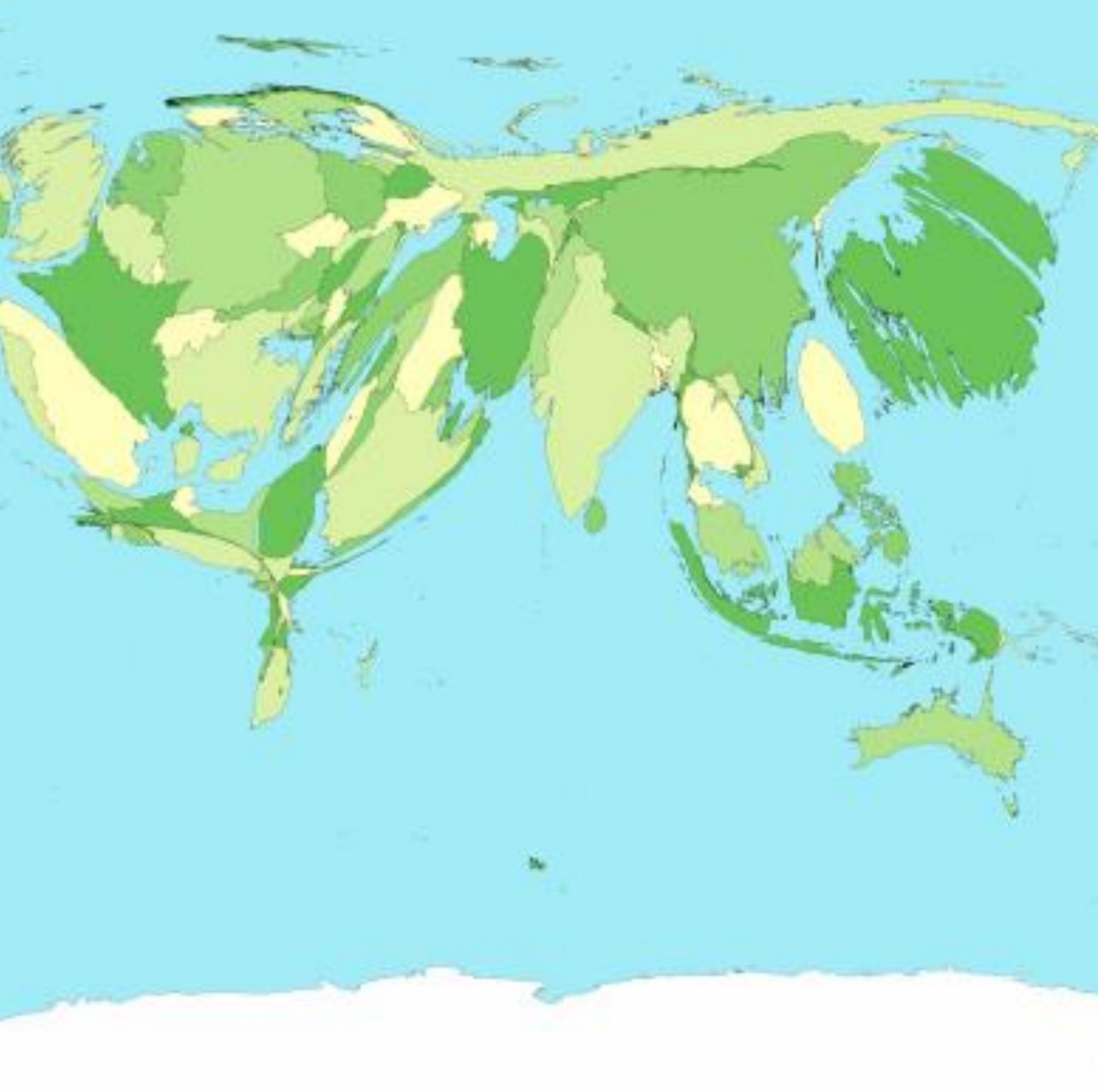




Spending on healthcare



Energy consumption



Greenhouse gas emission

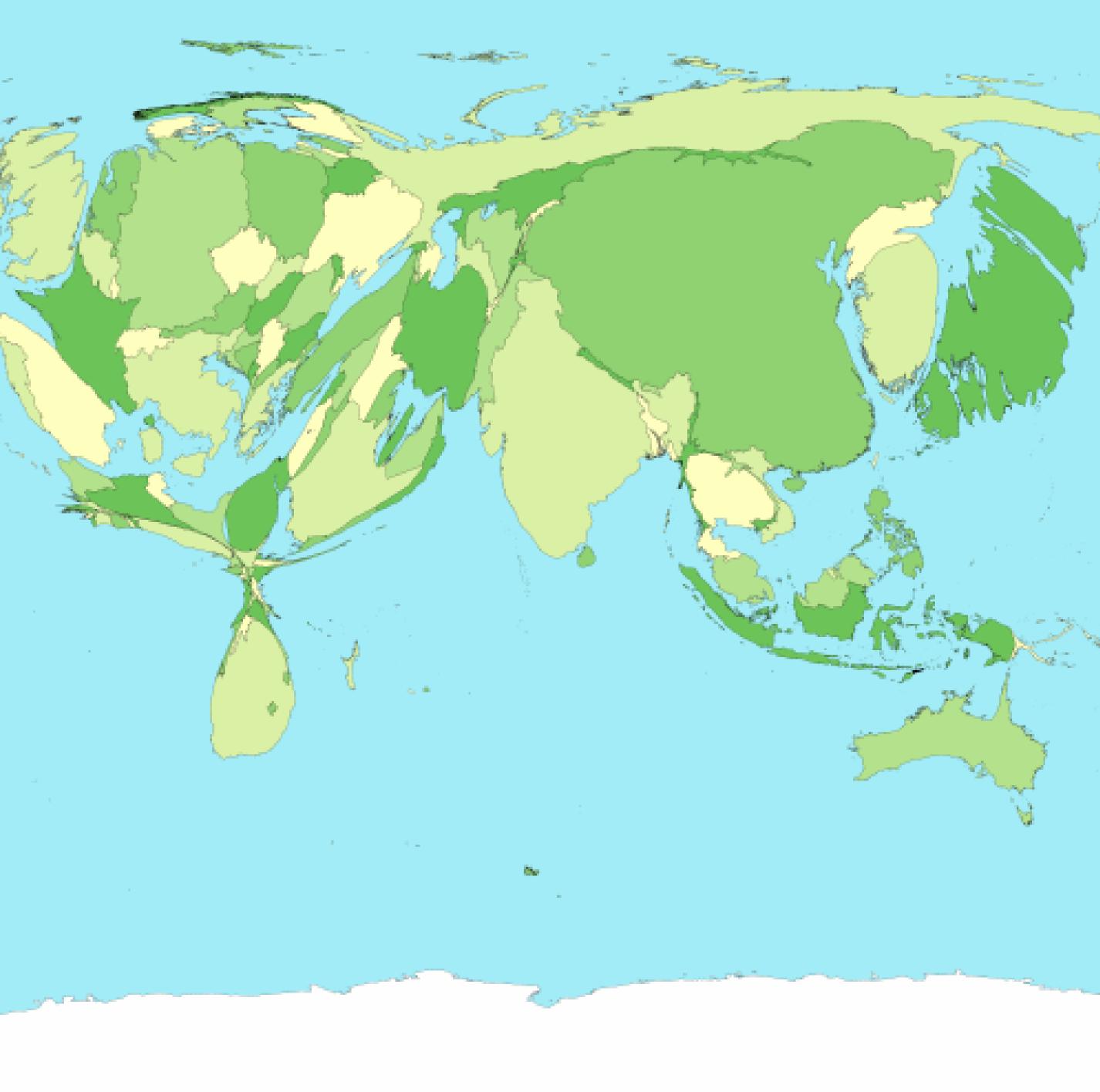
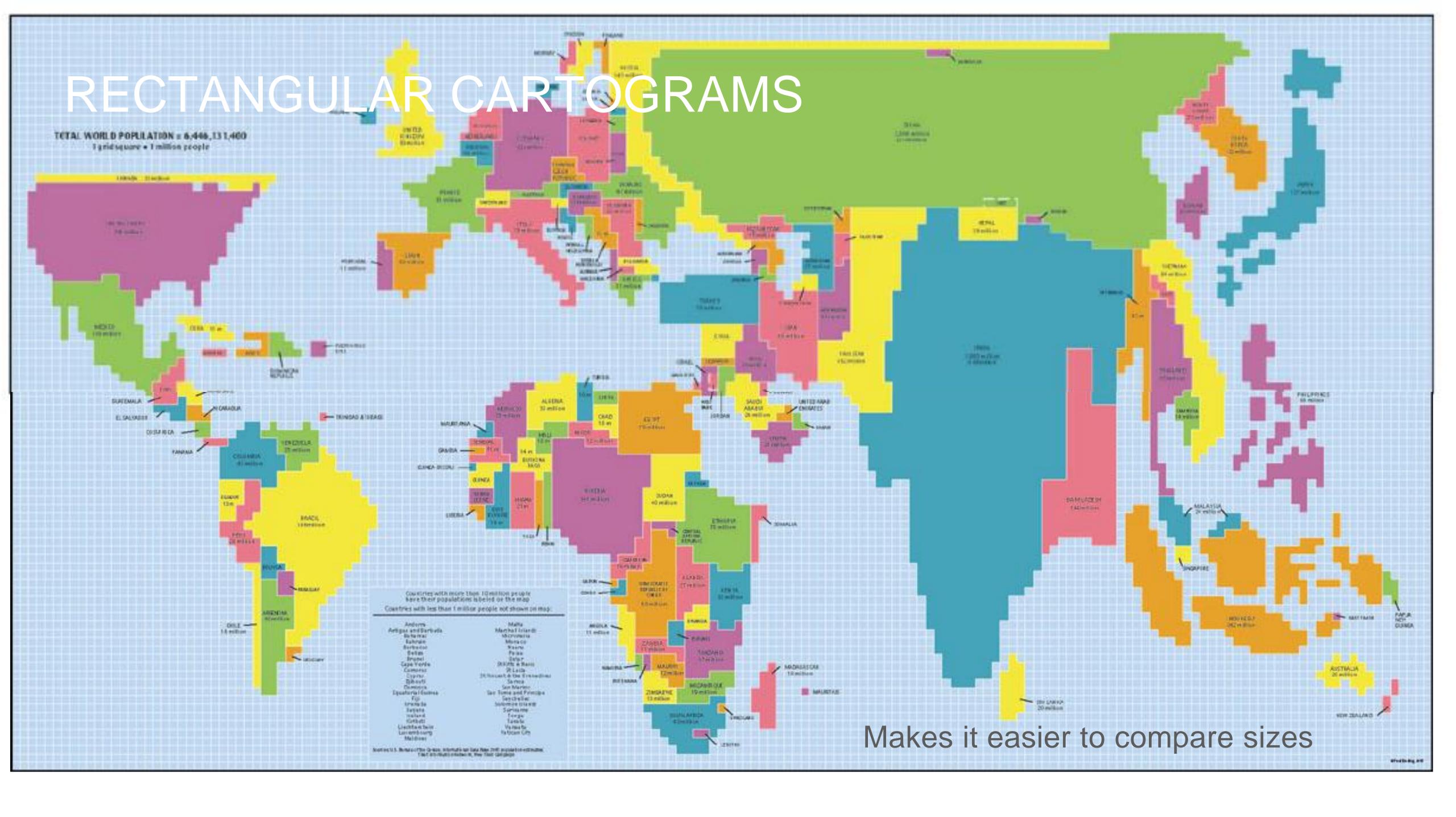


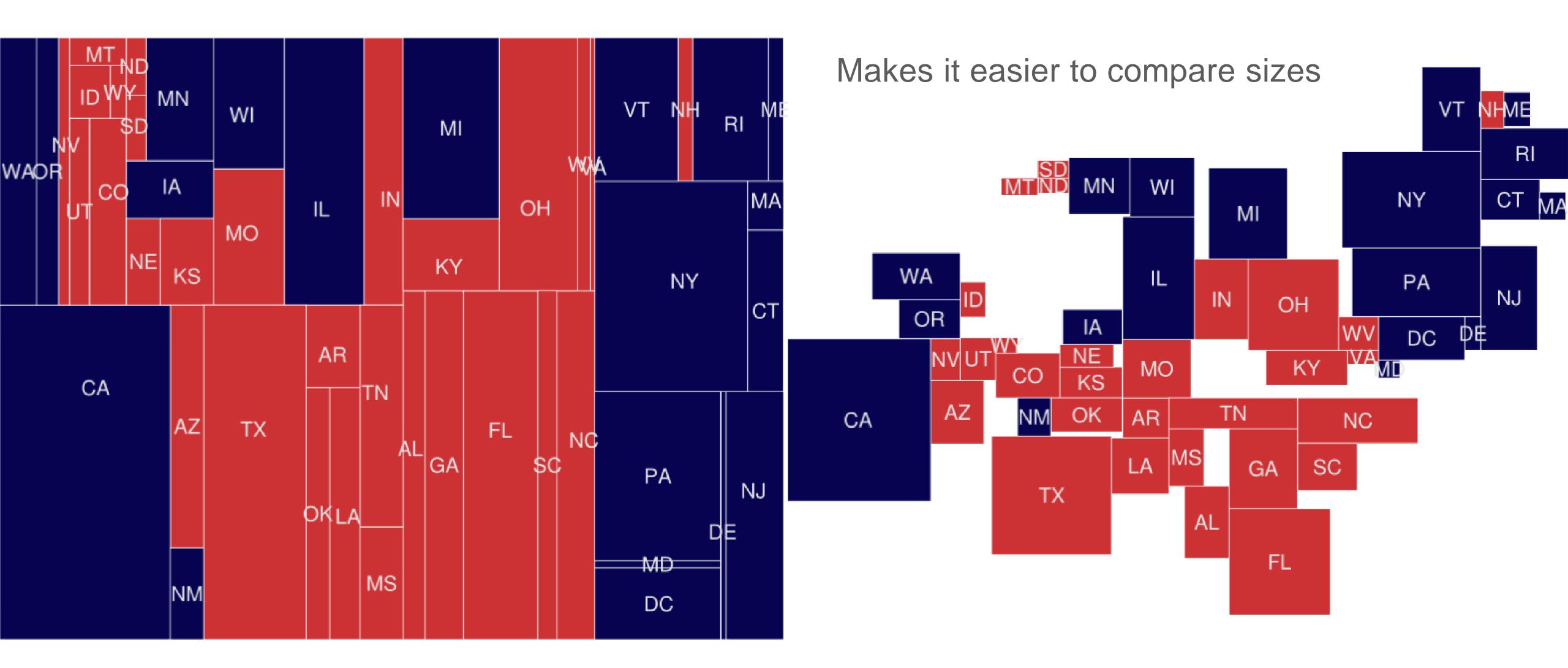
Figure 1.8 Airlines' view of the United States. Maps can be scaled to units other than distance. In this case, airline fares are used instead of miles or other linear units. (Map copyright by the author.) Dubuque Minneapolis/ . Seattle StPaul Des Moines Salt Lake City Denver .Oakland St. Louis Kansas City San Francisco .Ft. Smith Los Angeles Dallas/ Fort Worth San Diego Tucson Austin El Paso





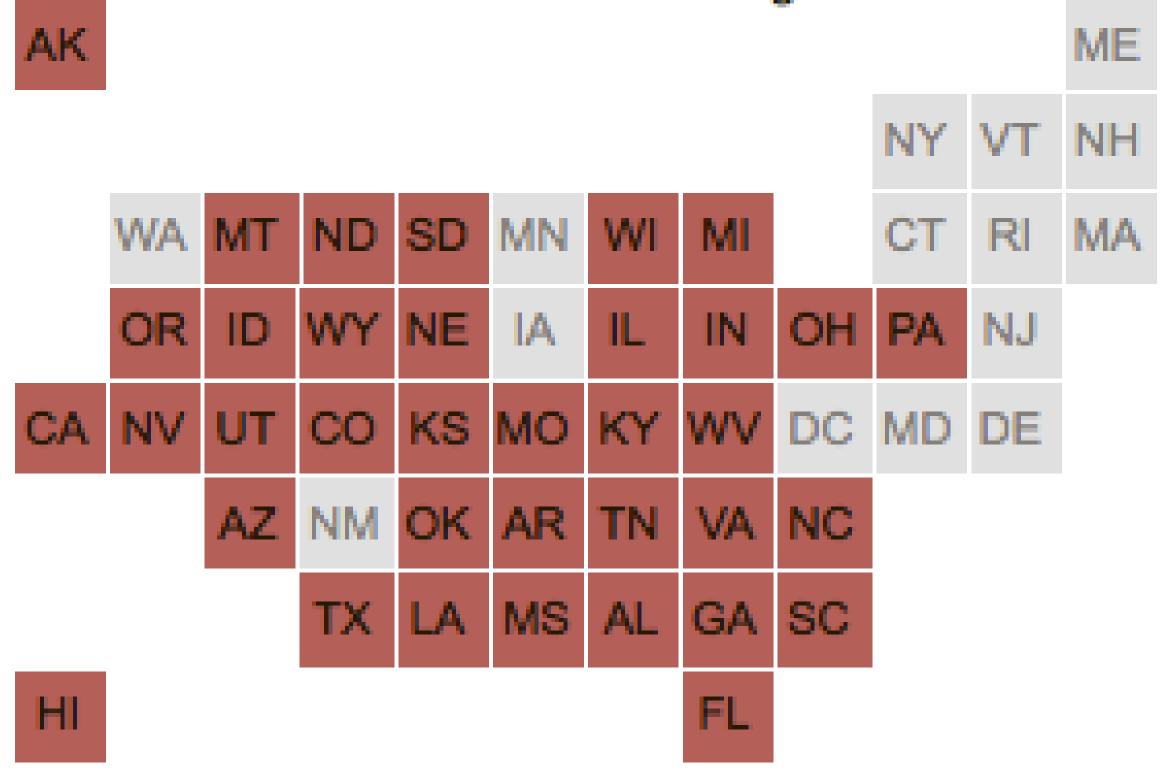


RECMAP (2004)



GRID MAP

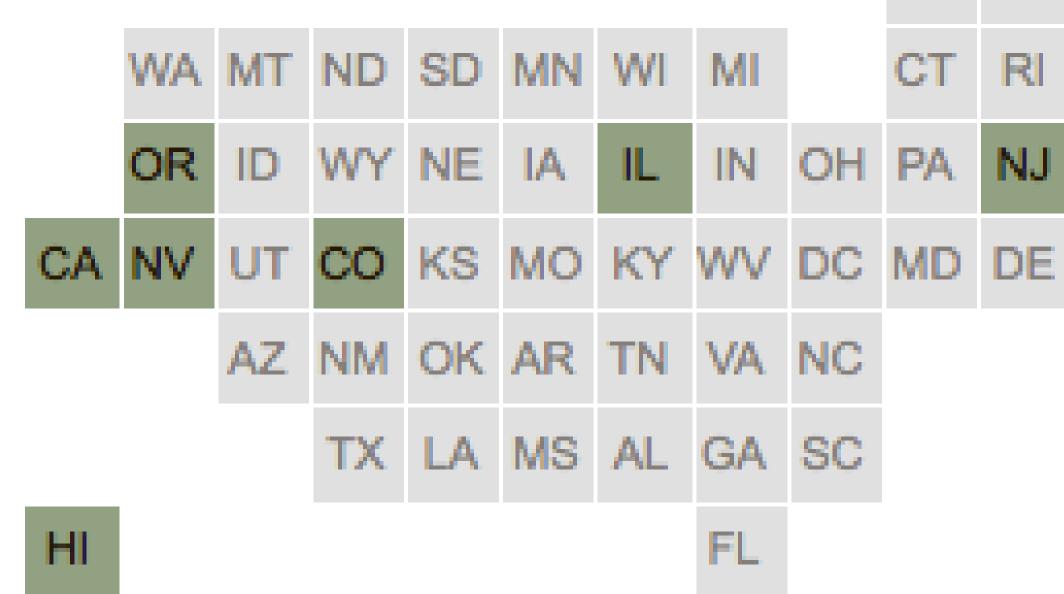
States with bans on same-sex marriage*

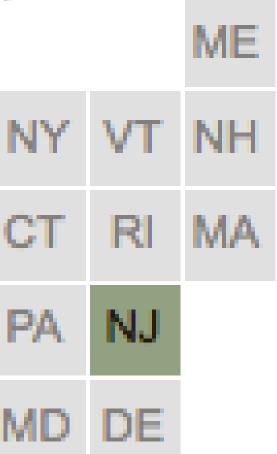


Makes it easier to compare spatial entities (here states) in terms of a binary variable

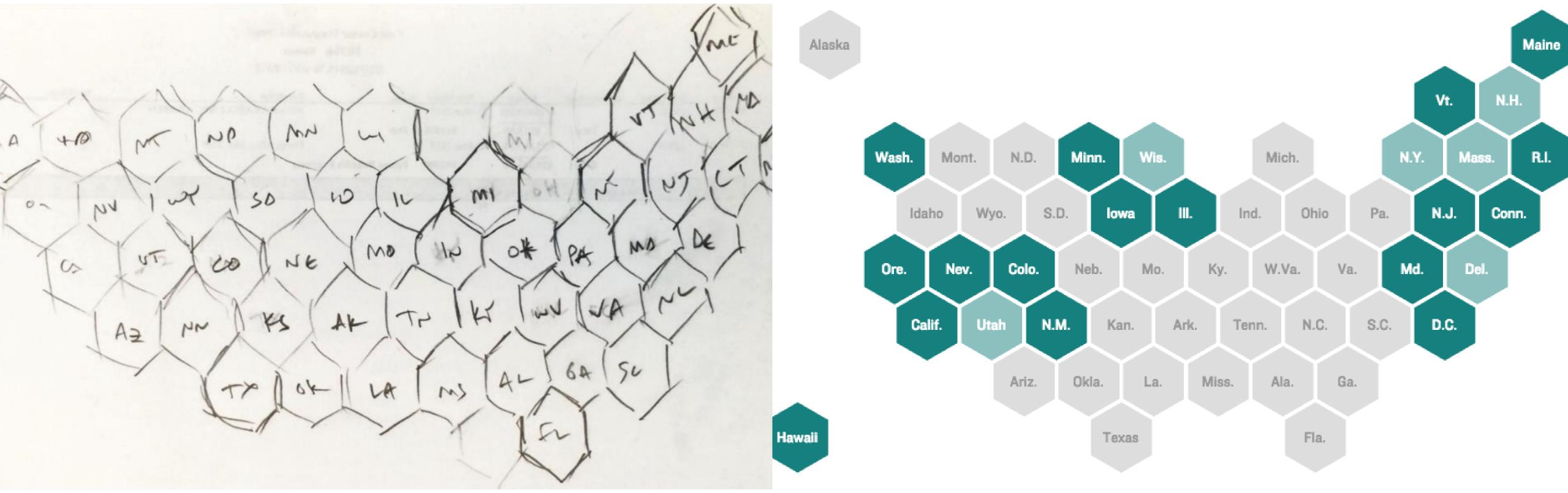
States that allow civil unions or broad domestic partnerships, but not marriage







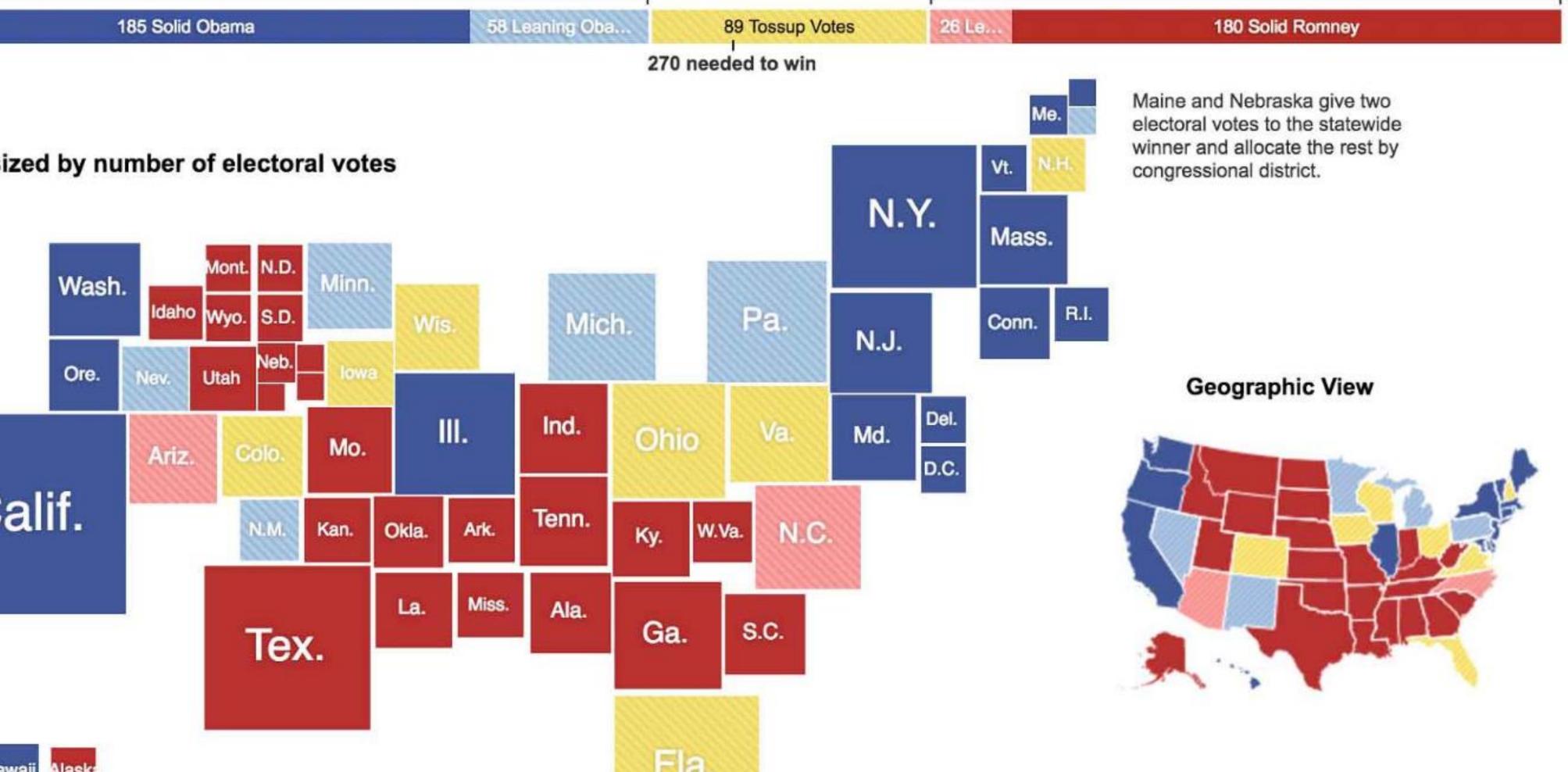
GRID MAP

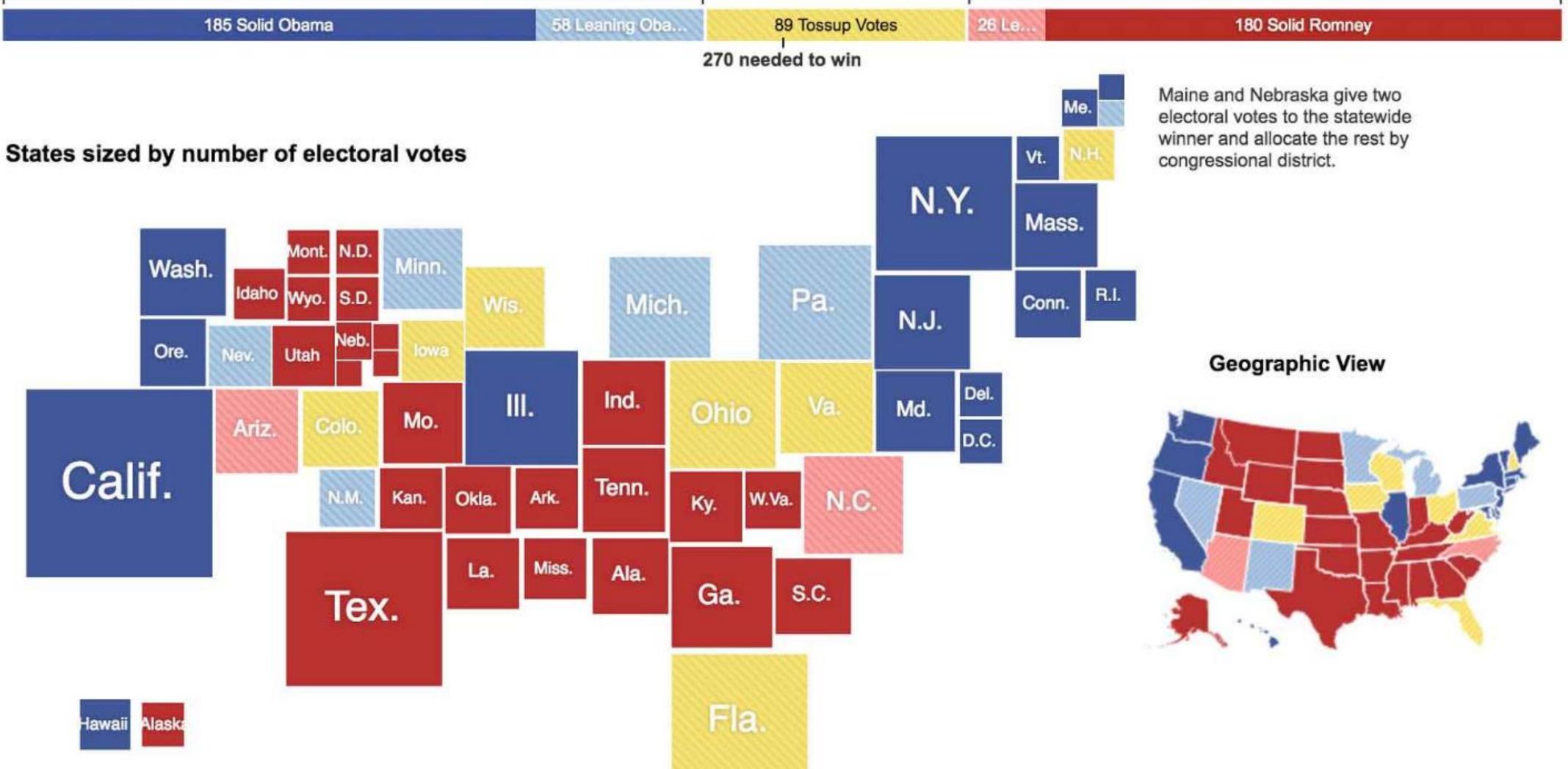


Hexagonal shape allows for better (state) neighborhood encoding (has more sides)







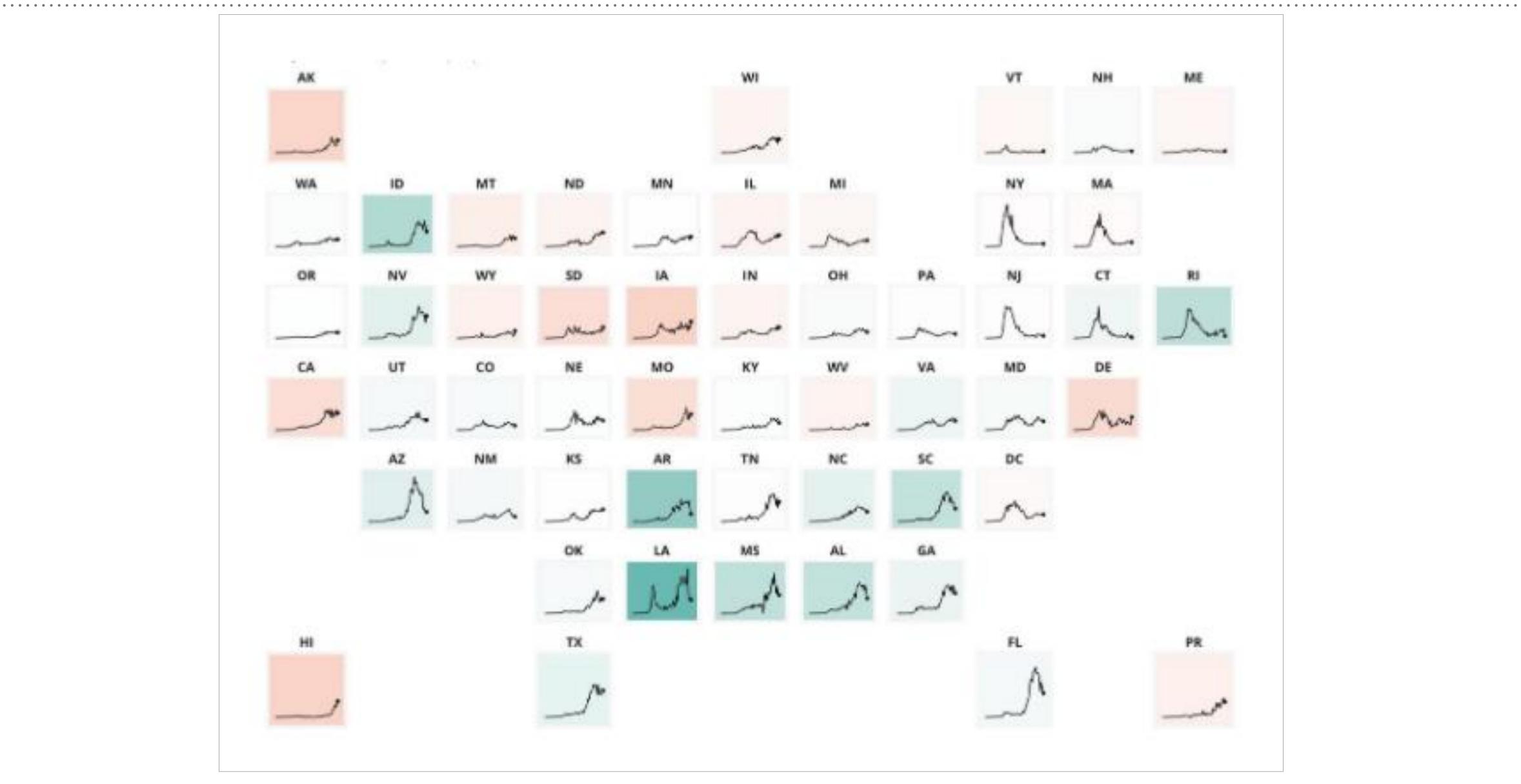


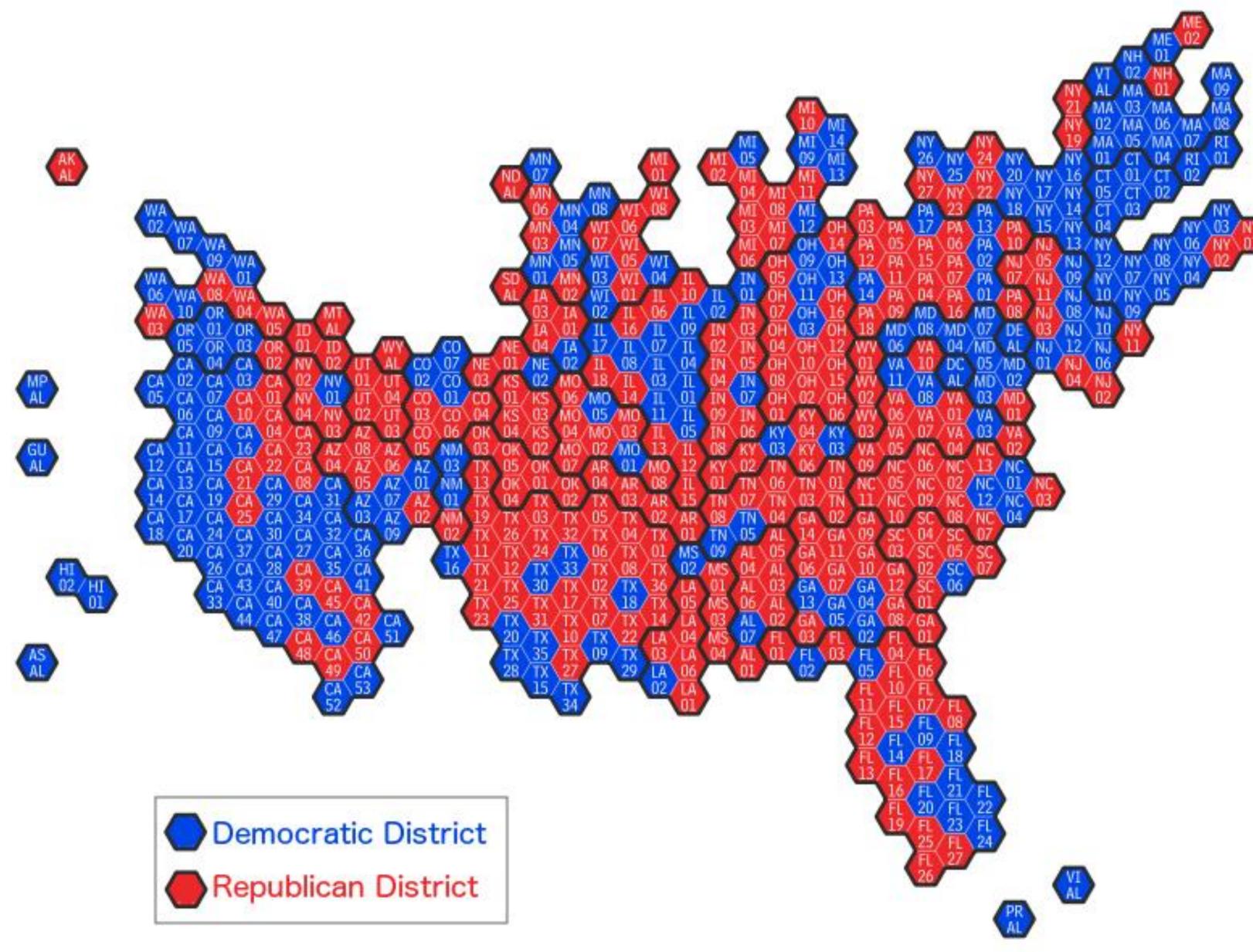
Needs 64 to win

206

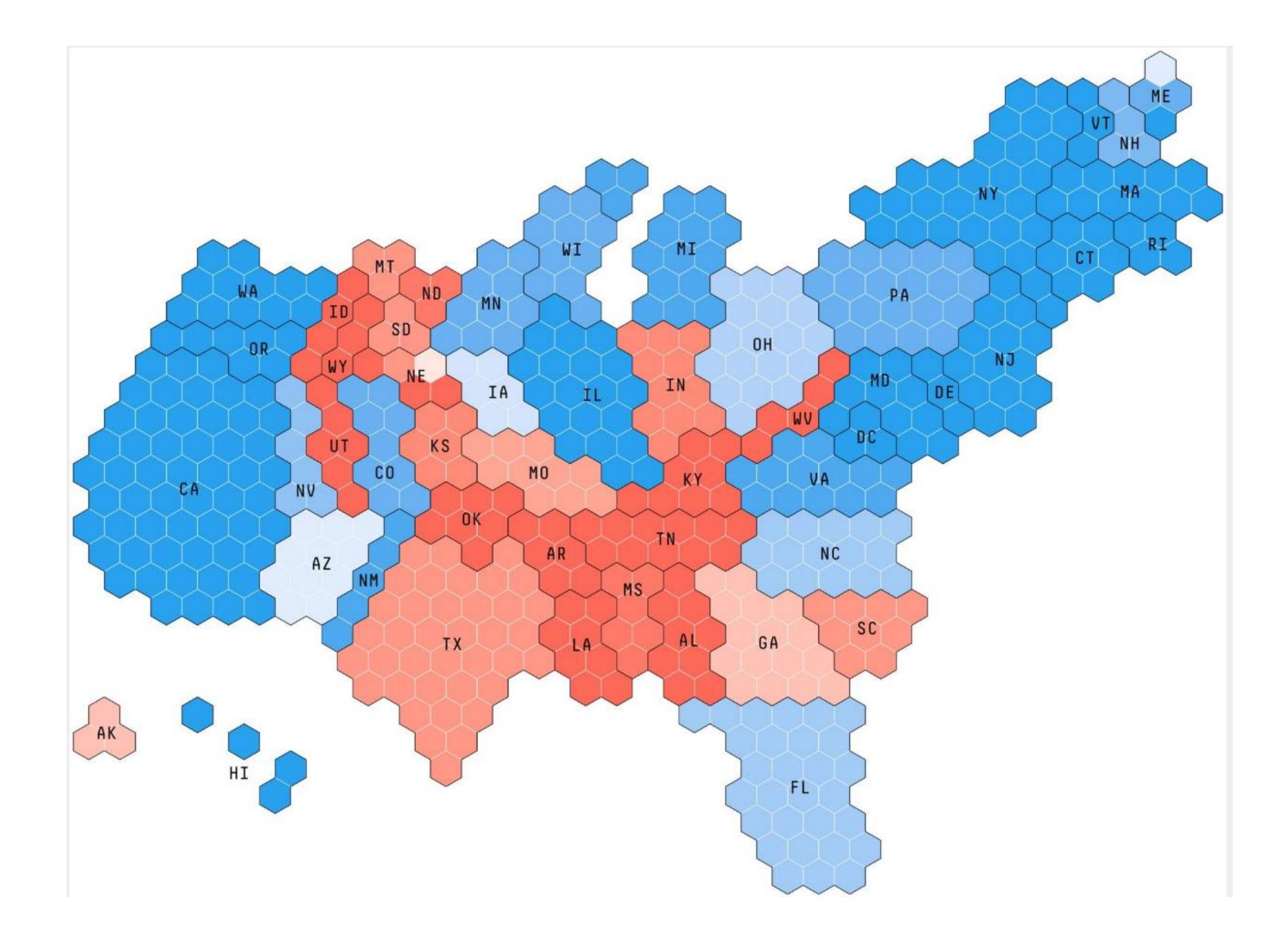
Romney ELECTORAL VOTES

COVID-19 DEATH RATE TRENDS









What's in a Surname?

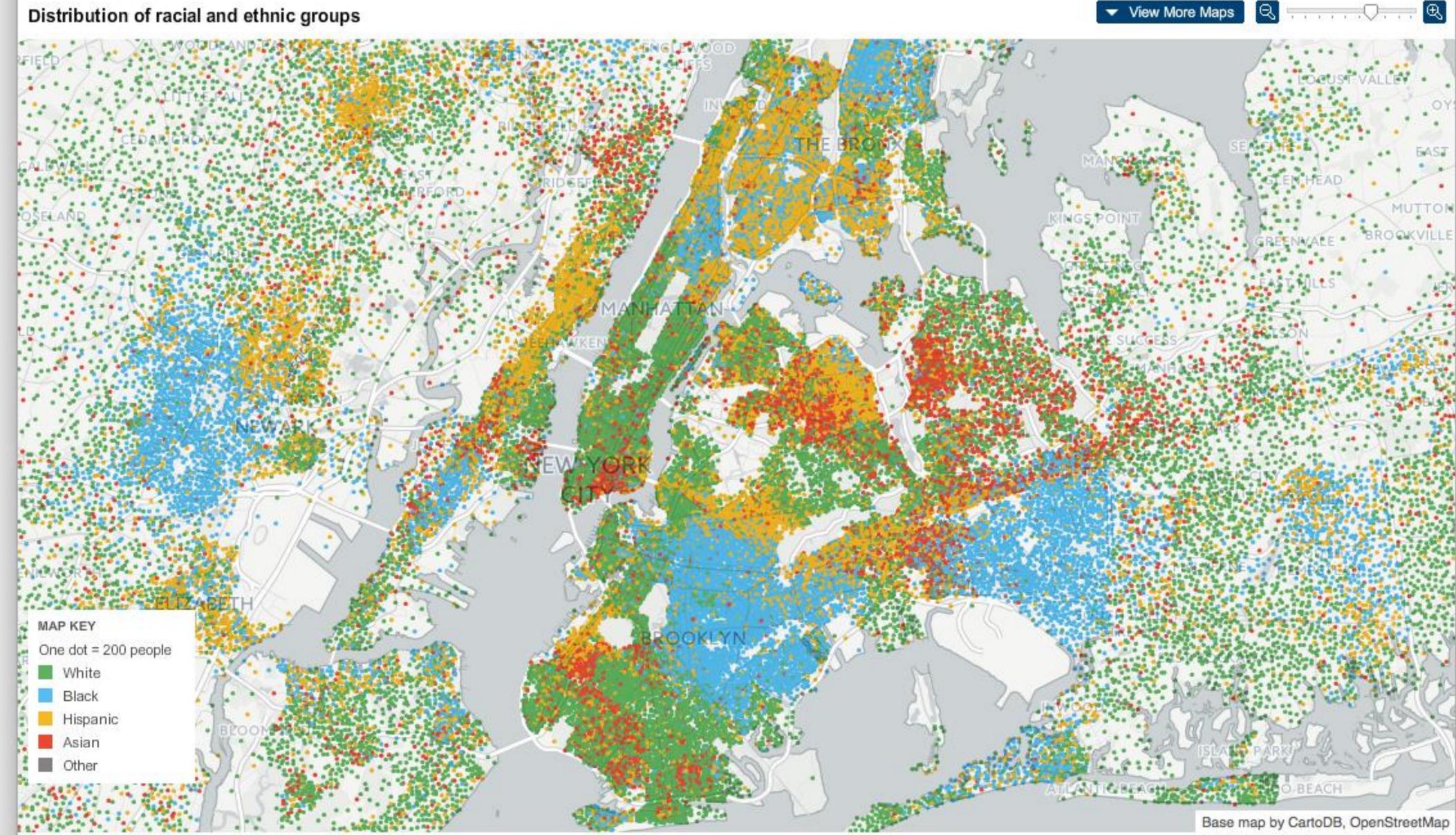




The New York Times

Mapping America: Every City, Every Block

Browse local data from the Census Bureau's American Community Survey, based on samples from 2005 to 2009. Because these figures are based on samples, they are subject to a margin of error, particularly in places with a low population, and are best regarded as estimates. View Readers Maps (49)

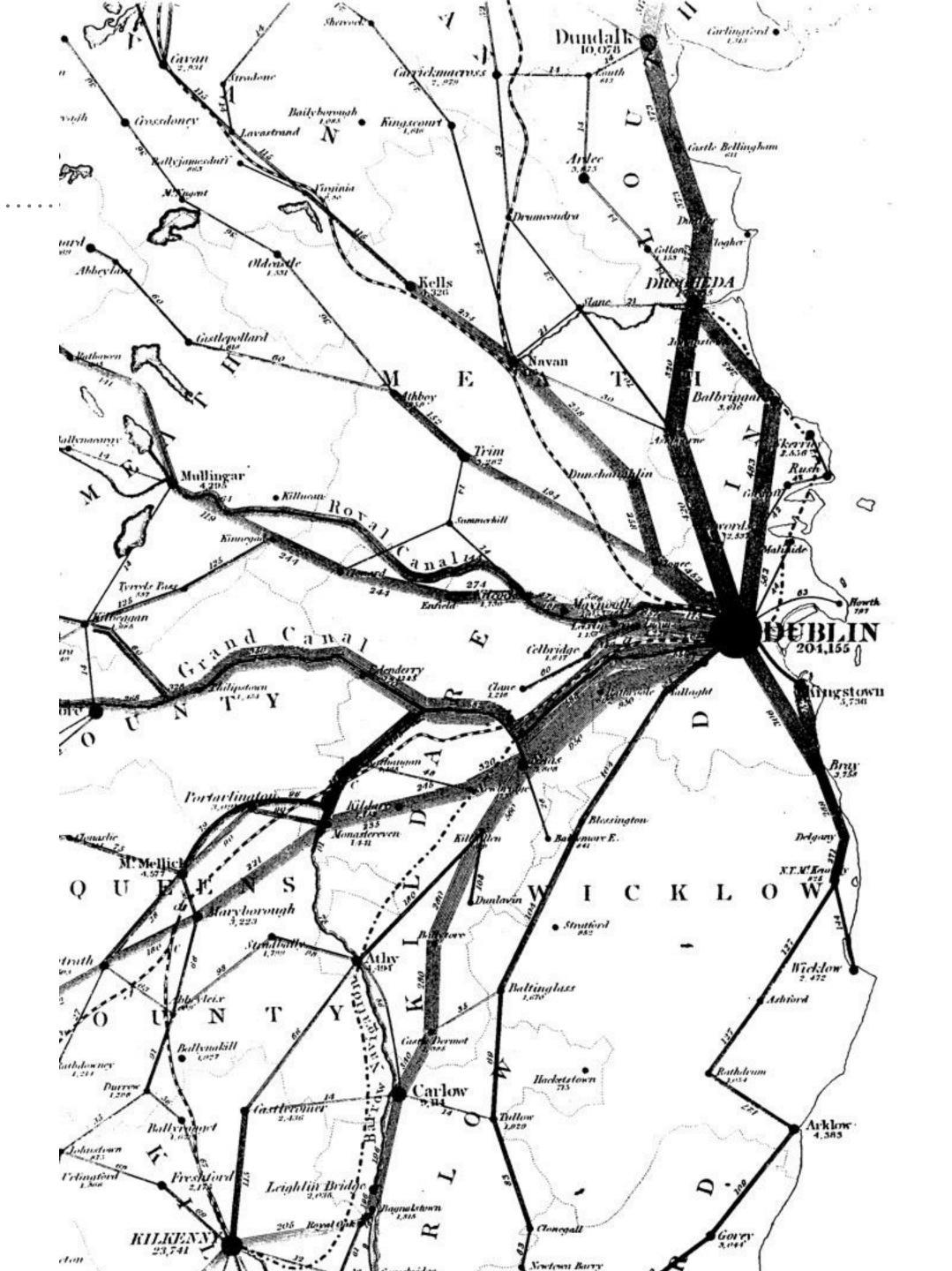


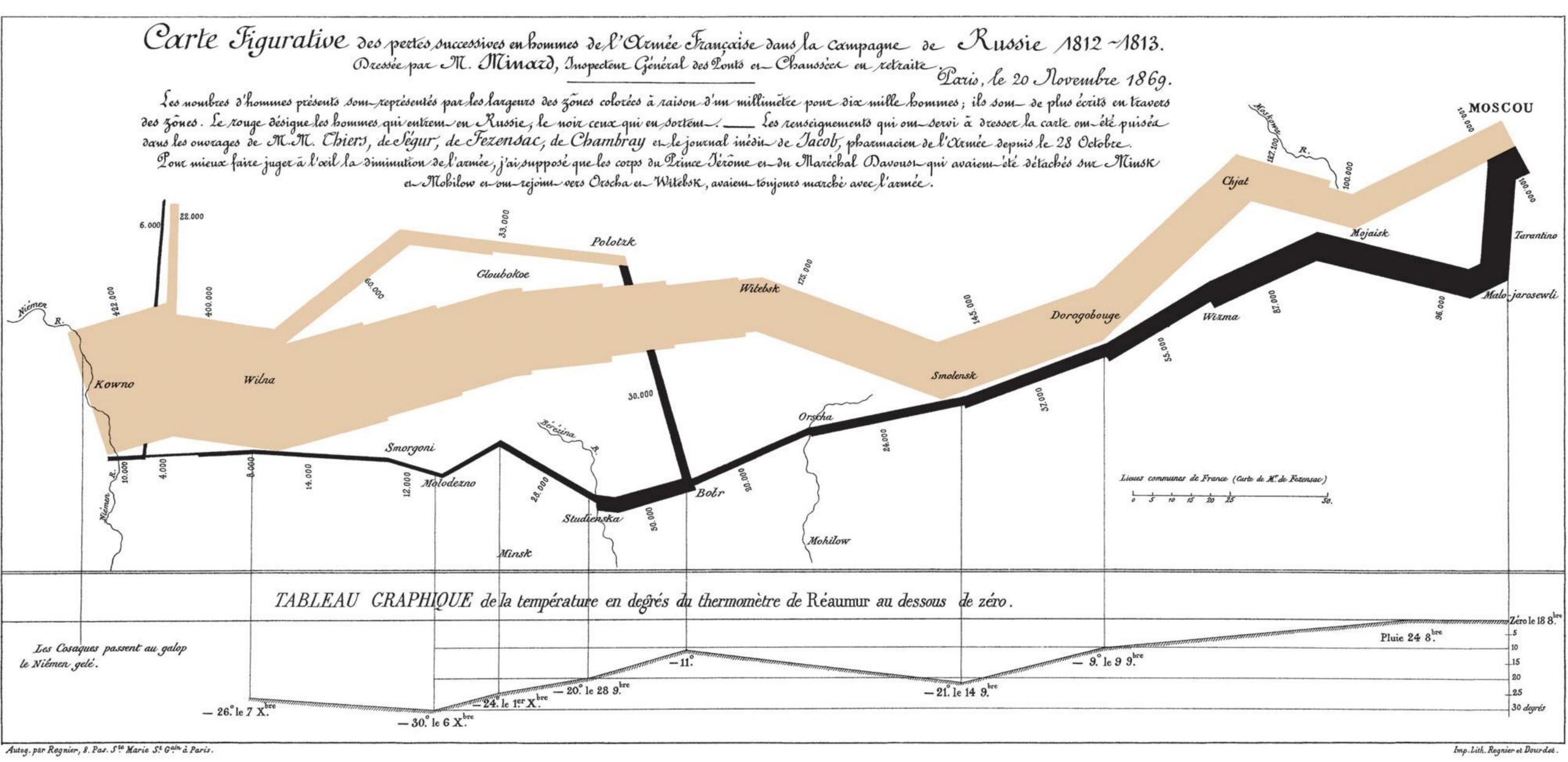
Find something interesting? Share this view on 🕒 Twitter or 📑 Facebook

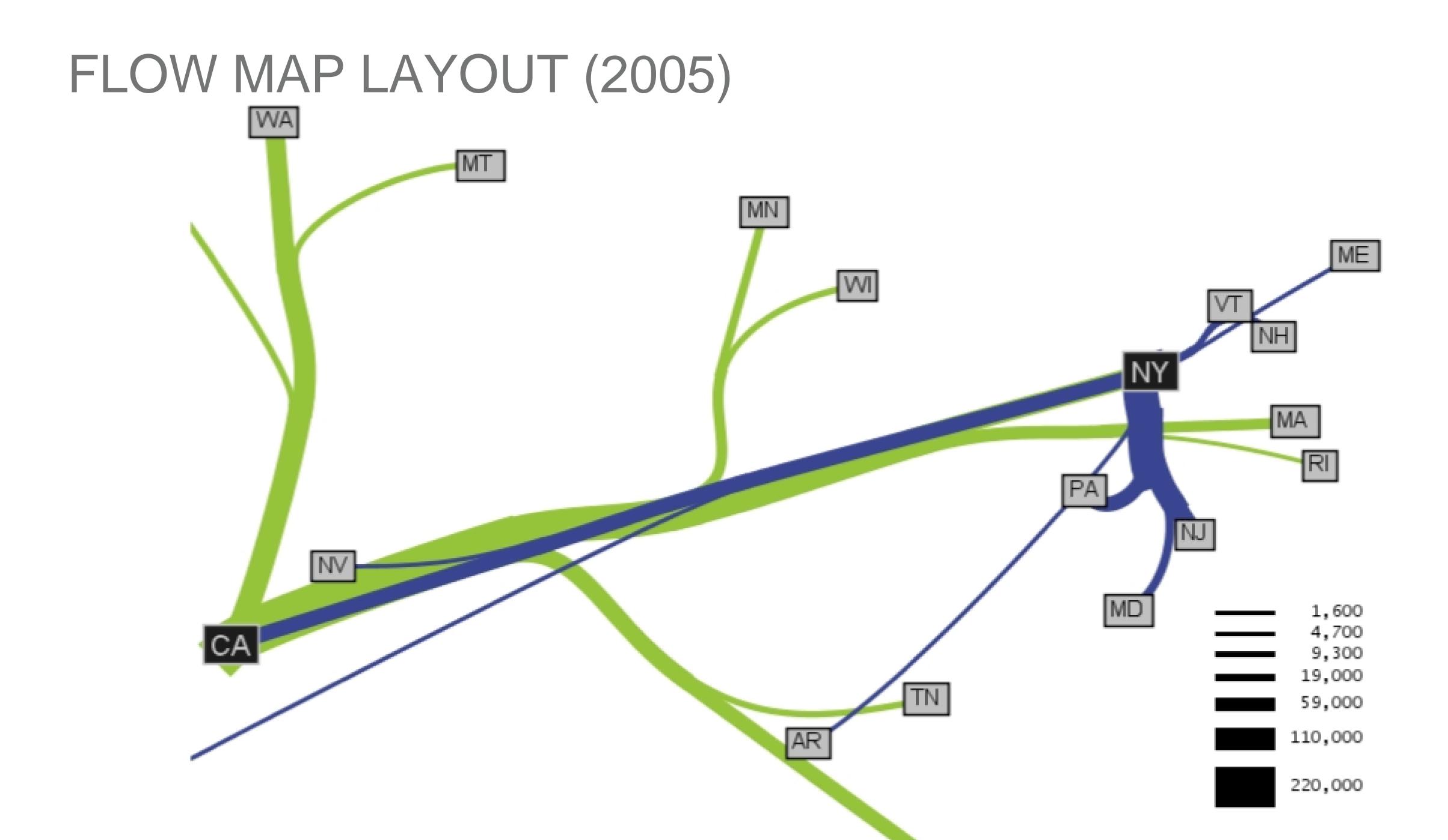
FLOW MAPS

► First in 1837

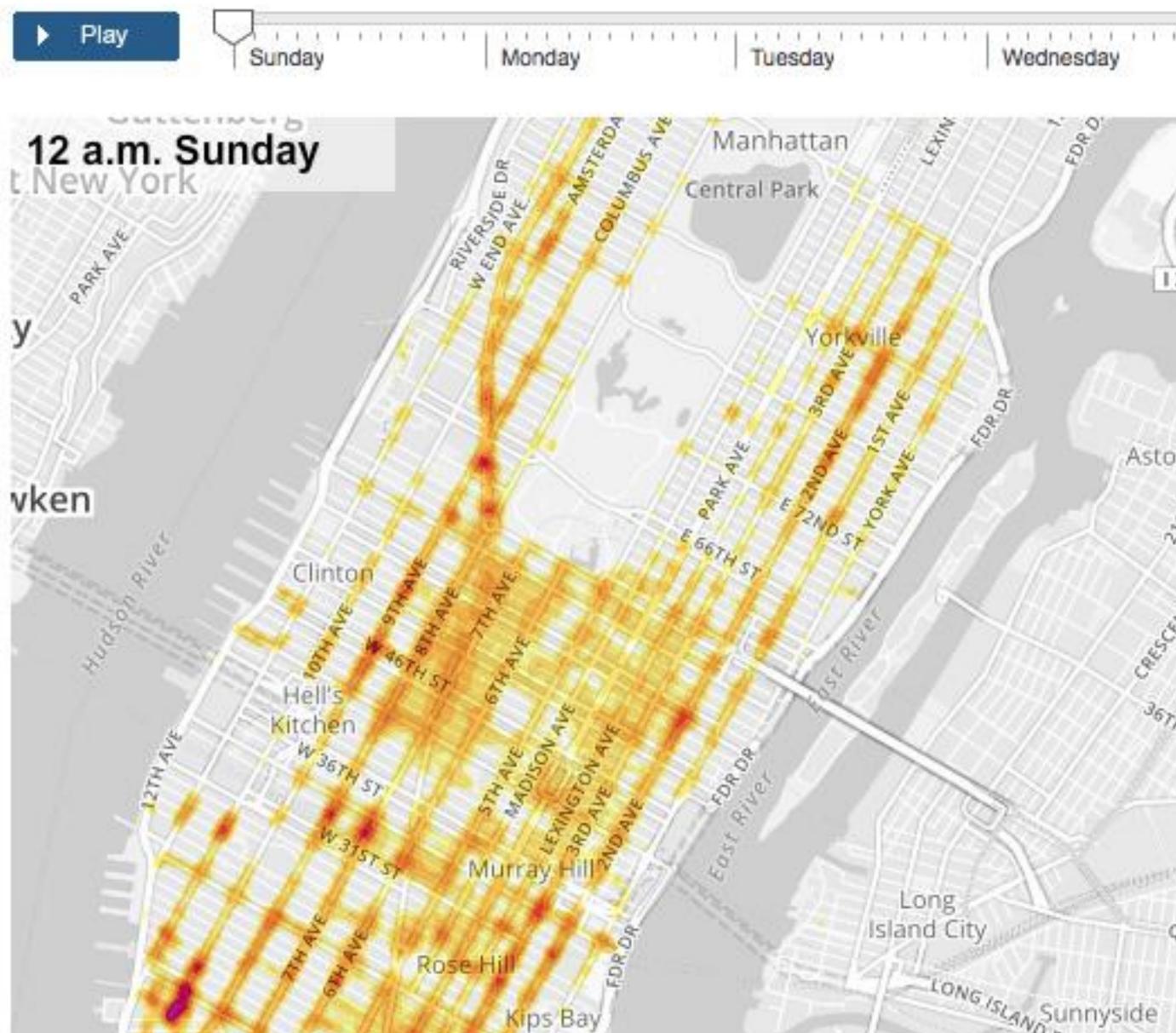
Transportation of Passengers in Ireland







TIME-VARYING MAPS



Wednesday

Thursday

Friday

1.1.1.1.1.1.1.1.1 Saturday





Penn Station

One of the busiest train stations in the world, and the busiest cab stand in the city.



Columbus Circle

Central Park, Whole Foods and Lincoln Center nearby.



Lower East Side

Comes alive after work, and throbs until well after midnight.



Bloomingdale's

Midday center for shopping.

Grand Central Terminal

Meatpacking District



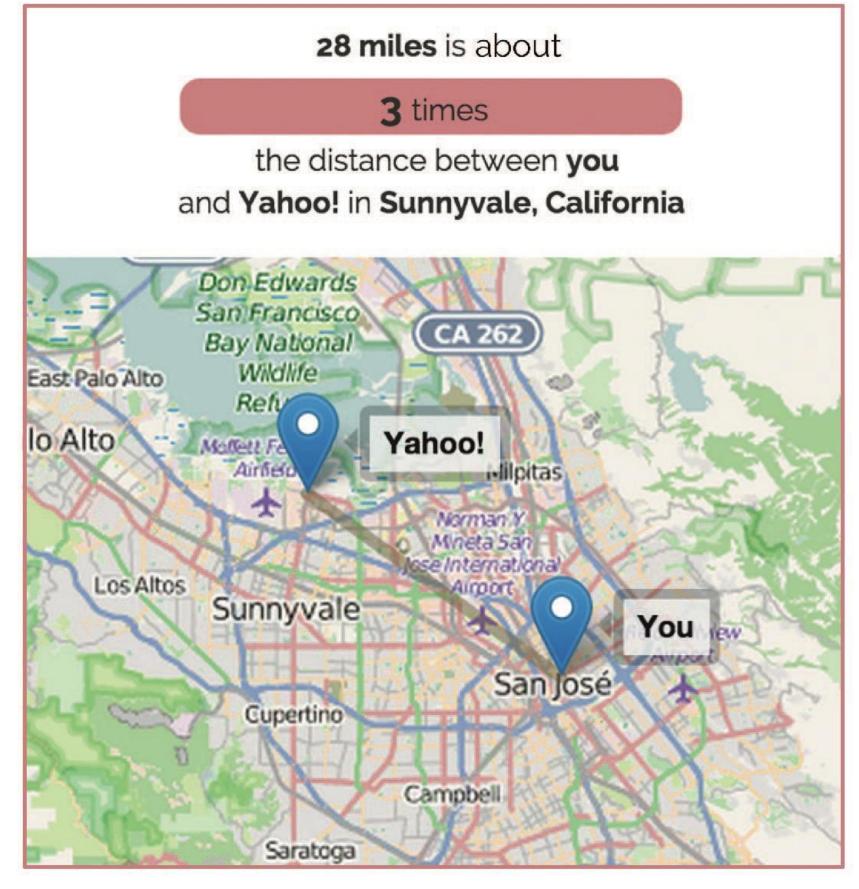
PERSONALIZED SPATIAL ANALOGIES (2016)

Some Say New Wal-Mart Intrudes on Historic Mexican Pyramids

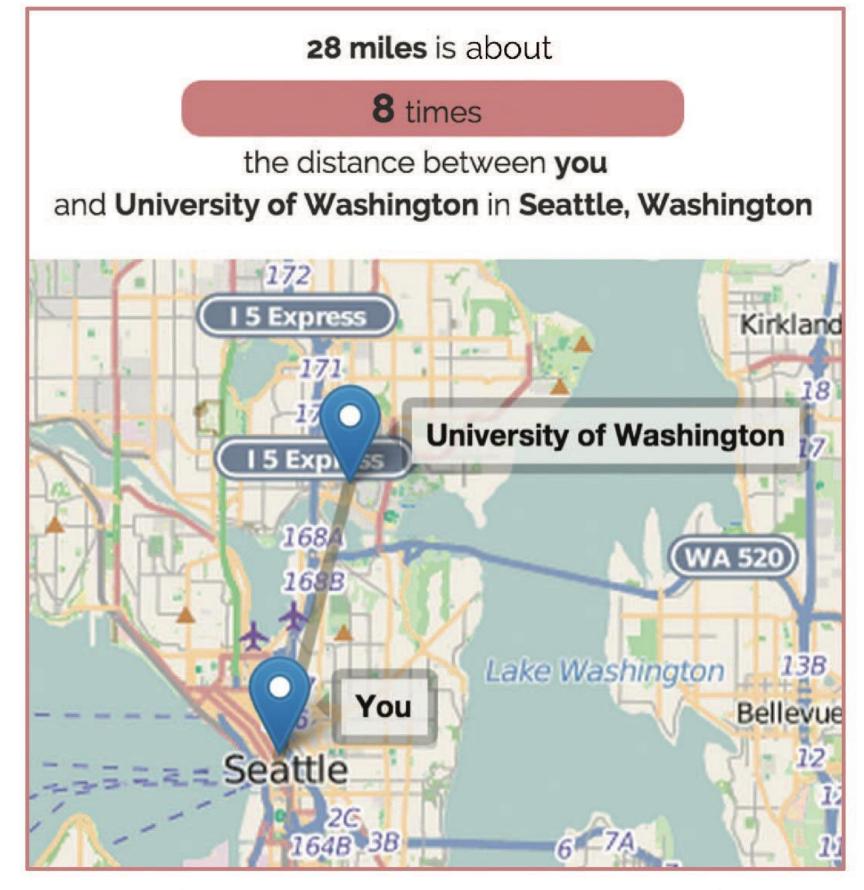
Oct 5, 2004, Mexico

The multinational retailer is building a discount supermarket **28 miles** one of Mexico's from most treasured ruins. The pre-Columbian city's mighty pyramids, dedicated to the sun and moon, tower within view of the Bodega Aurrera, a Wal-Mart subsidiary.

User location:

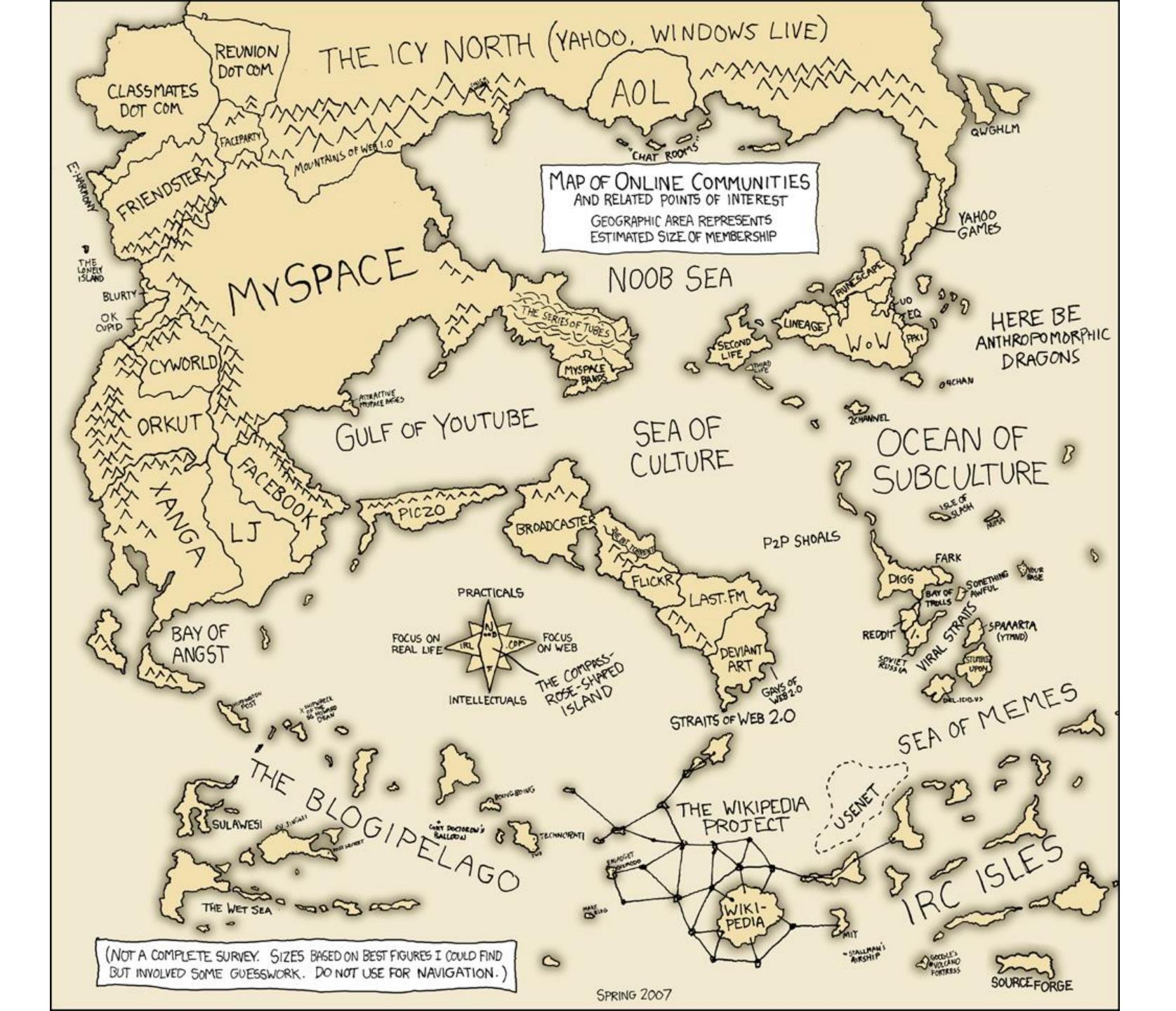


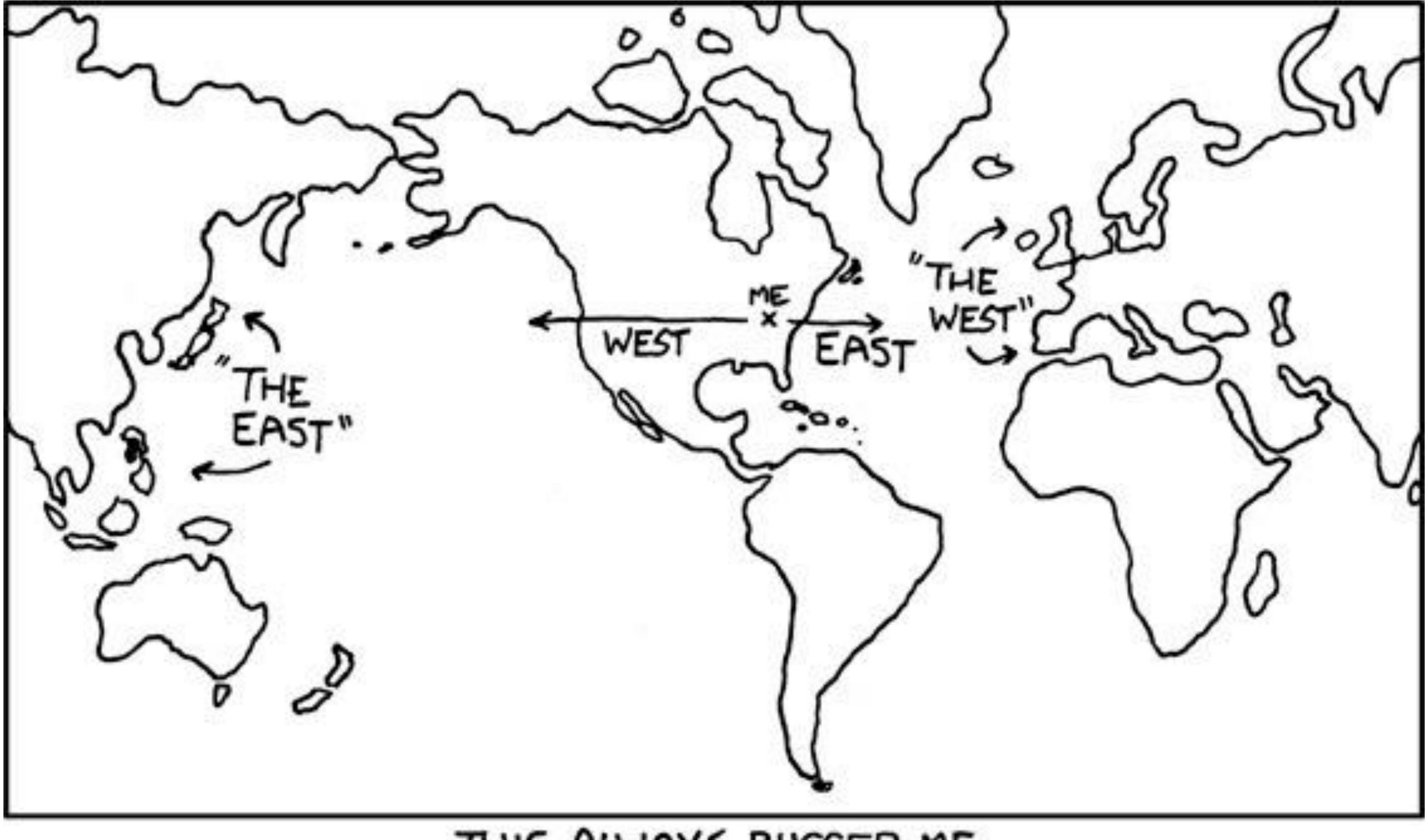
San Jose (37.338208 -121.886328)



Seattle (47.603961, -122.329887)







THIS ALWAYS BUGGED ME.