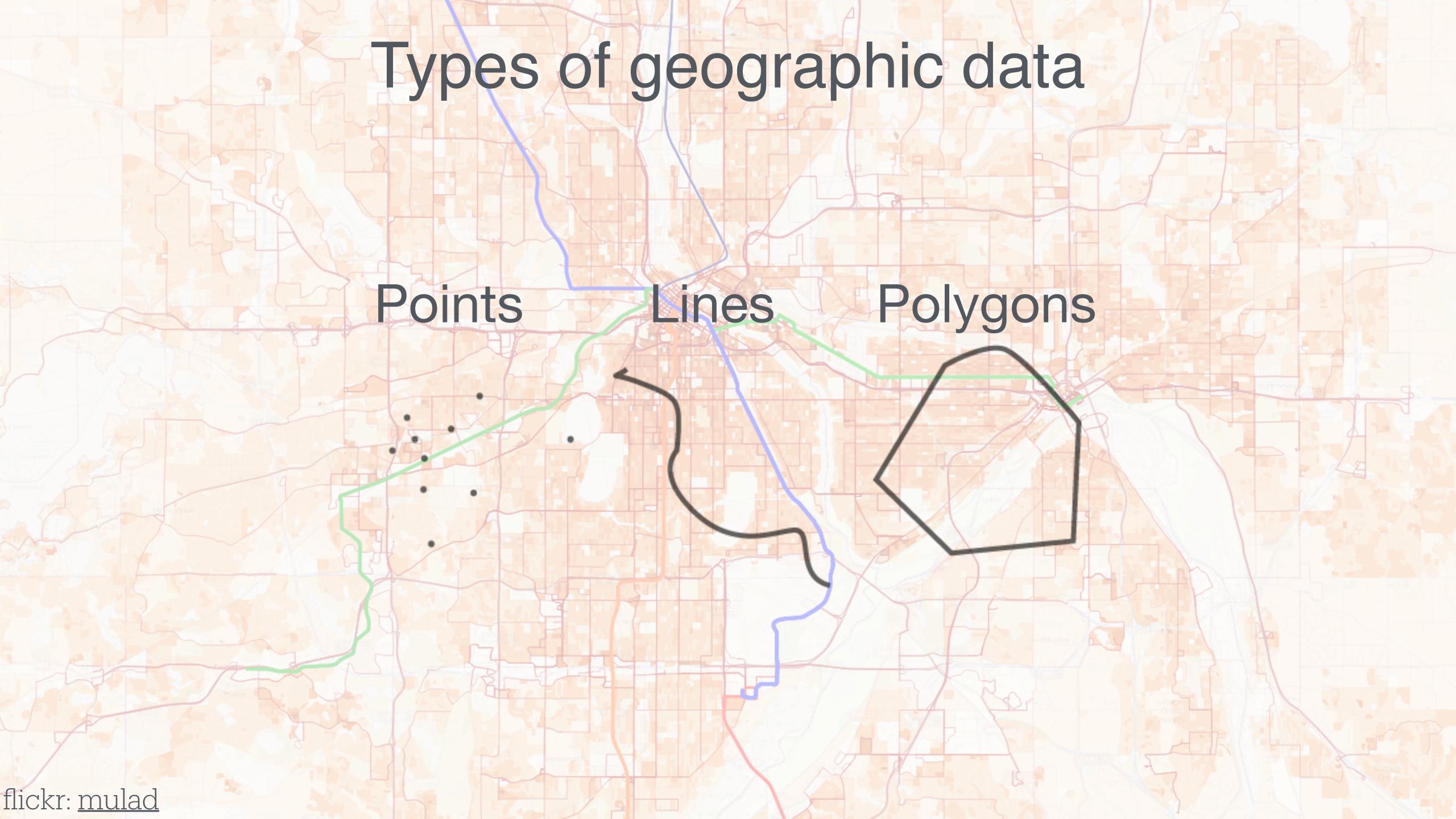


Amelia is @amelia@vis.social on Mastodon @AmeliaMN

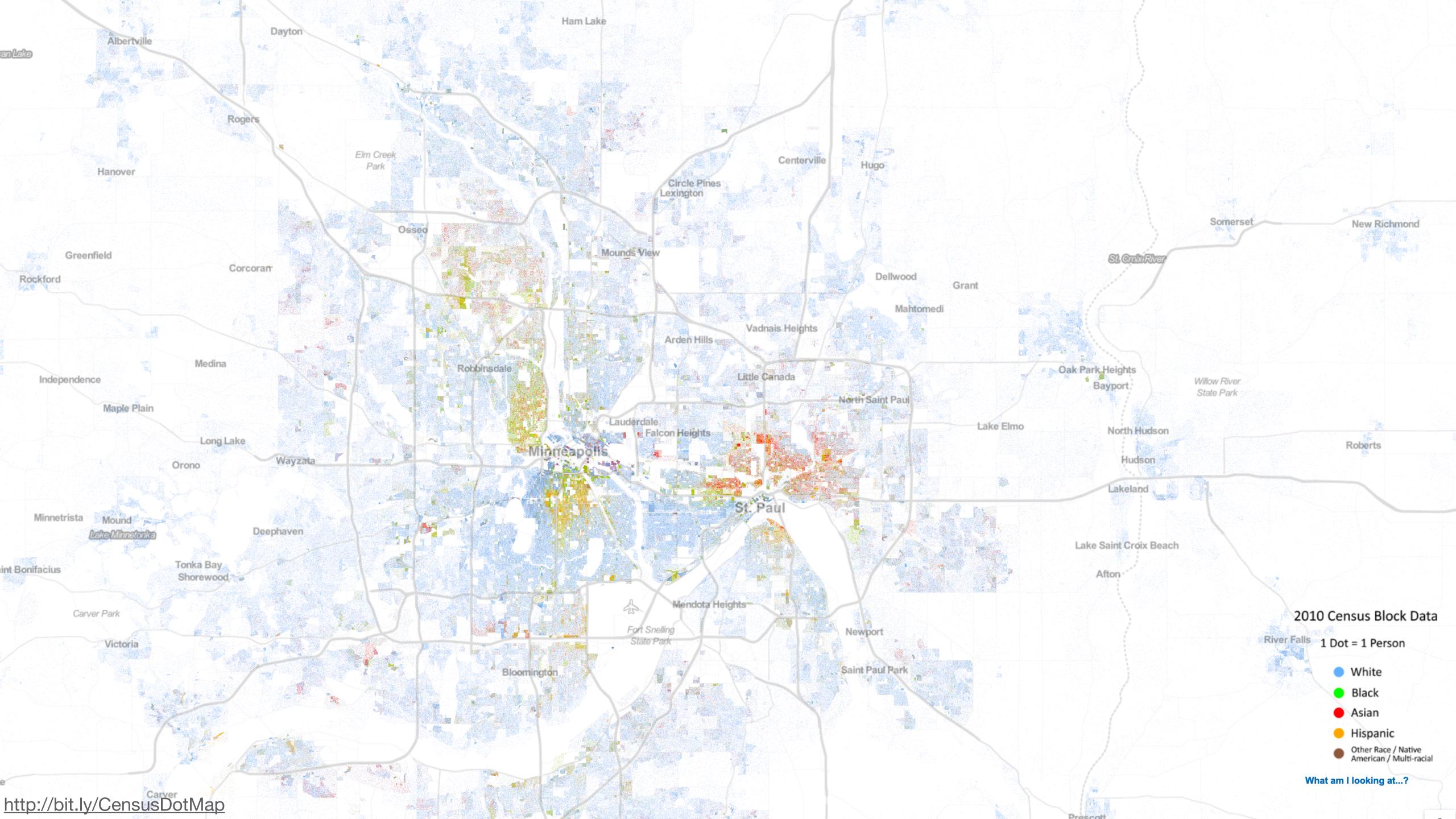
The problem with maps is that the world looks like a map. We don't have that problem with other visualizations. @tmcw #NICAR14

2/28/2014, 10:15:19 AM

Favs: 8 Retweets: 1 link



Points



COOPER CENTER RESEARCH GROUPS

DEMOGRAPHICS

ECONOMICS

ENERGY SURVEY RESEARCH

DONATE

DEMOGRAPHICS RESEARCH GROUP

ABOUT DATA MAPS REPORTS CENSUS 2020 CONTACT

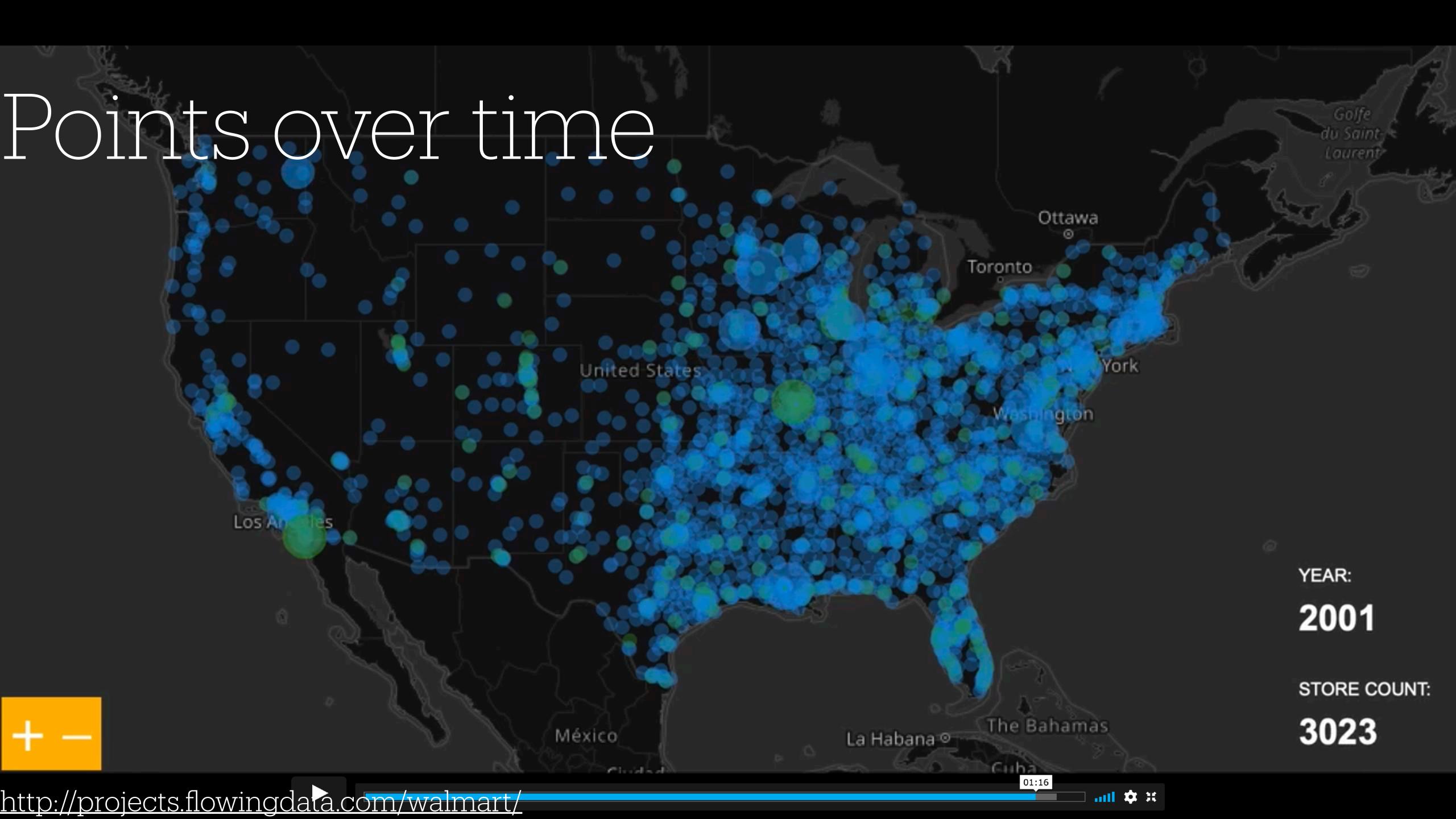


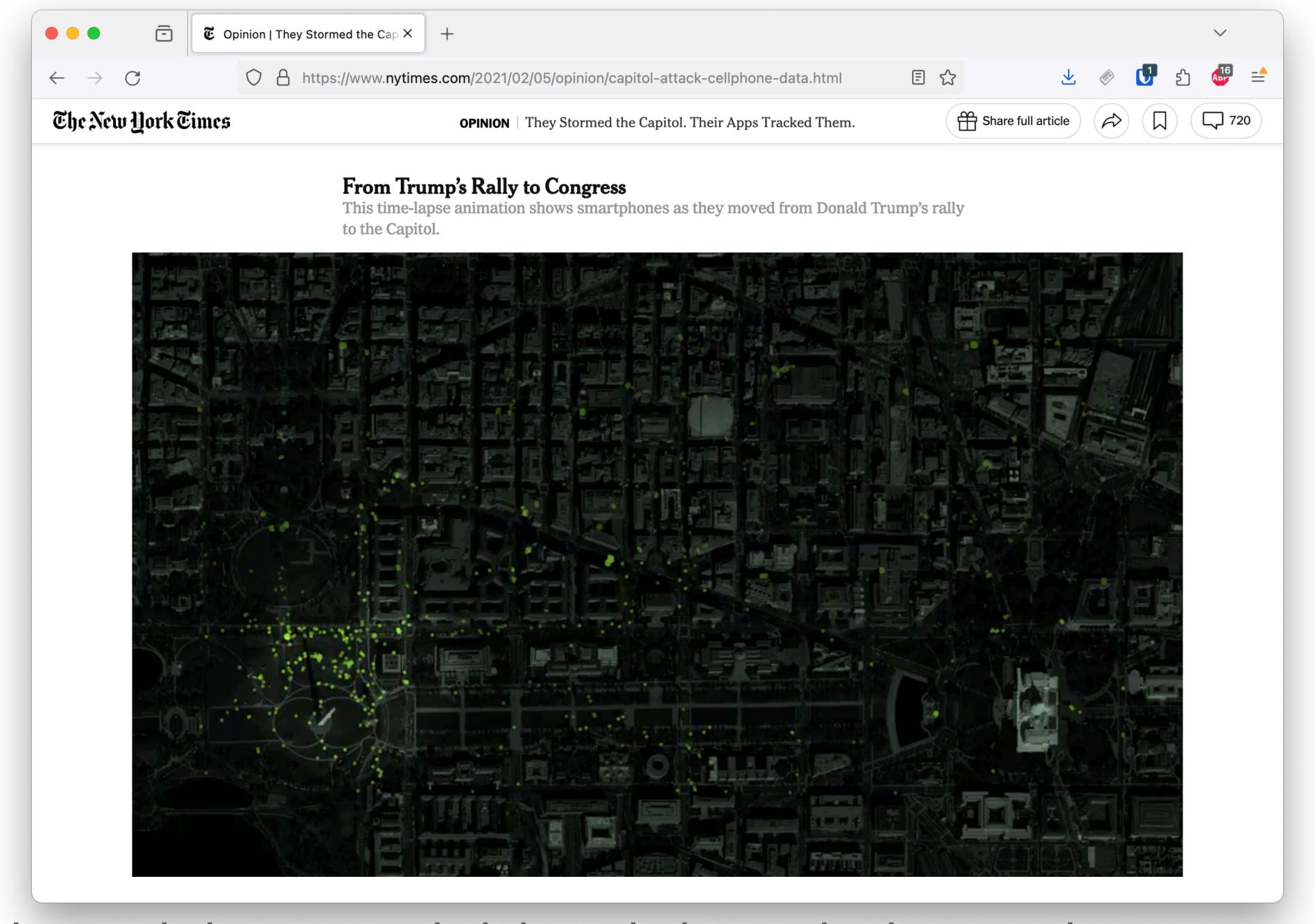
WHY WE HAVE REMOVED THE RACIAL DOT MAP

After nine years and millions of views, the 2010 Racial Dot Map has reached its expiration date. We have taken it offline as it no longer provides the most accurate depiction of the nation's population distribution and changing racial composition. Several factors contributed to this decision:

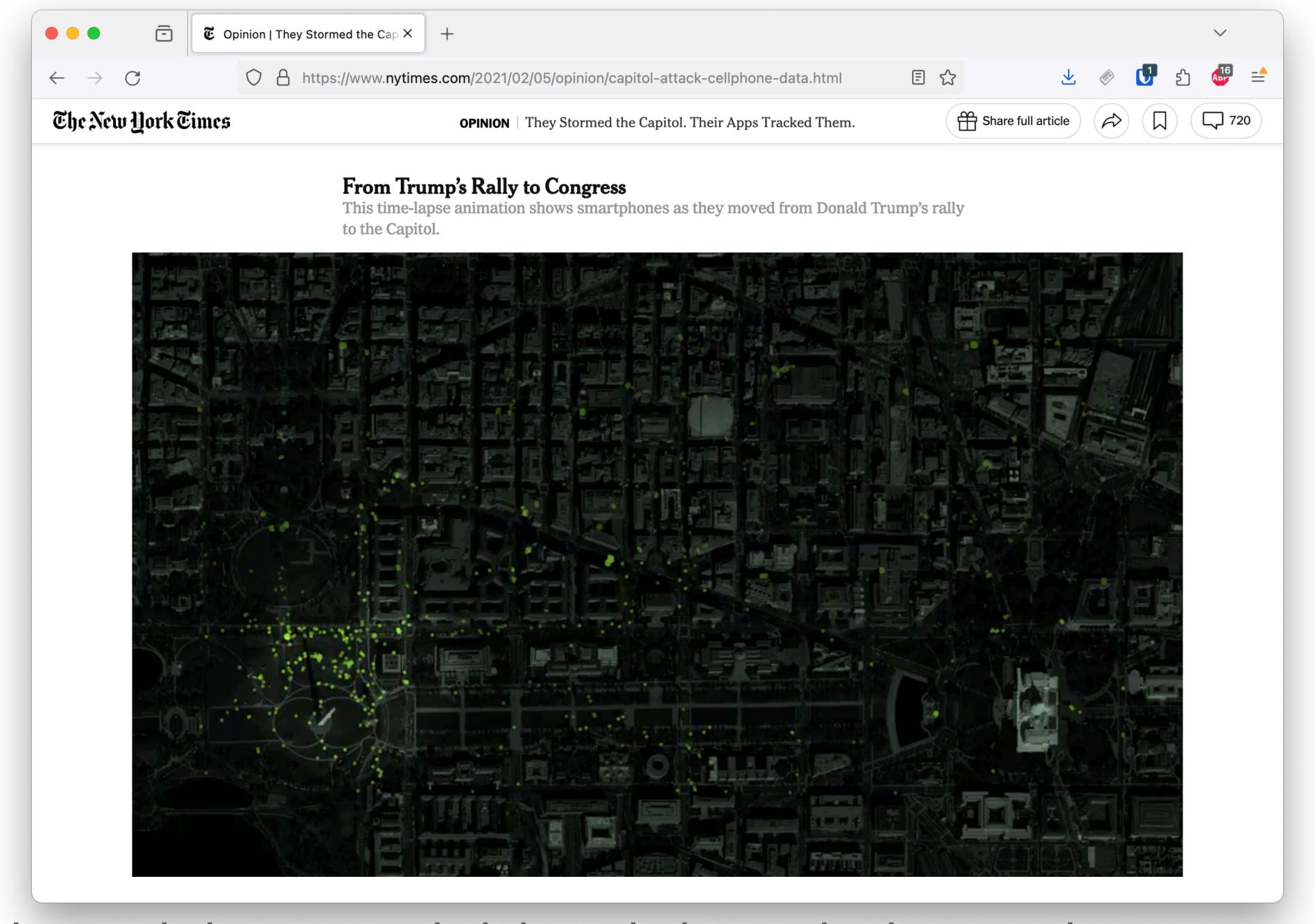
- 1. The 2020 Census count released by the U.S. Census Bureau on August 12, 2021 provides a new snapshot of the U.S. population by race and ethnicity, making 2020 the most current data of record. As demographers committed to data integrity, we cannot continue to host a map that does not accurately tell the story of race in the United States.
- 2. Between the 2010 and 2020 censuses, the multi-race and "Some Other Race" categories show significant growth. In the 2020 Census, ten percent of the population identified as multi-race compared to three percent in 2010; and "Some Other Race" became the second largest racial group, surpassing the population identifying themselves as Blacks or African-Americans. Both the dynamic growth of these populations and complexity of reflecting this rich diversity through color-coded dots made the model used for the Racial Dot Map inadequate to the task.
- 3. Producing a new map, equally elegant in its simplicity but capable of reflecting many more racial/ethnic groups is beyond our organization's financial and personnel resources.

We appreciate that so many of you have been passionate advocates for the 2010 Racial Dot Map and the ways it has helped to promote equity in your communities.



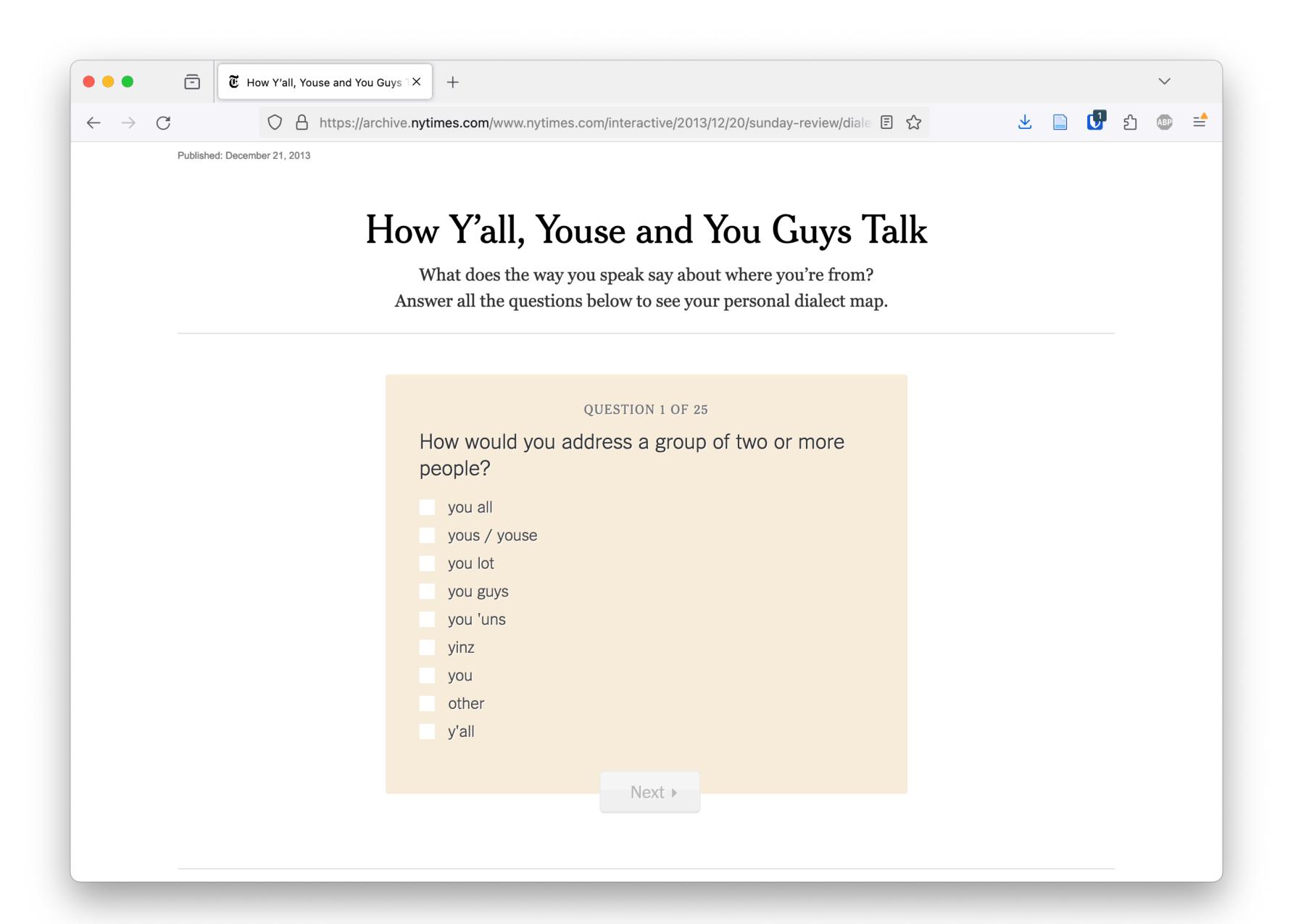


They Stormed the Capitol. Their Apps Tracked Them. Charlie Warzel and Stuart A. Thompson https://www.nytimes.com/2021/02/05/opinion/capitol-attack-cellphone-data.html



They Stormed the Capitol. Their Apps Tracked Them. Charlie Warzel and Stuart A. Thompson https://www.nytimes.com/2021/02/05/opinion/capitol-attack-cellphone-data.html

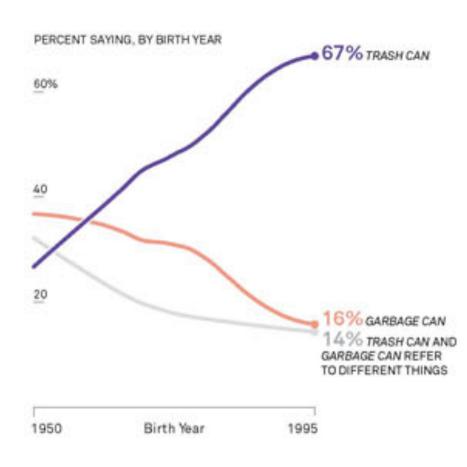
Heat maps

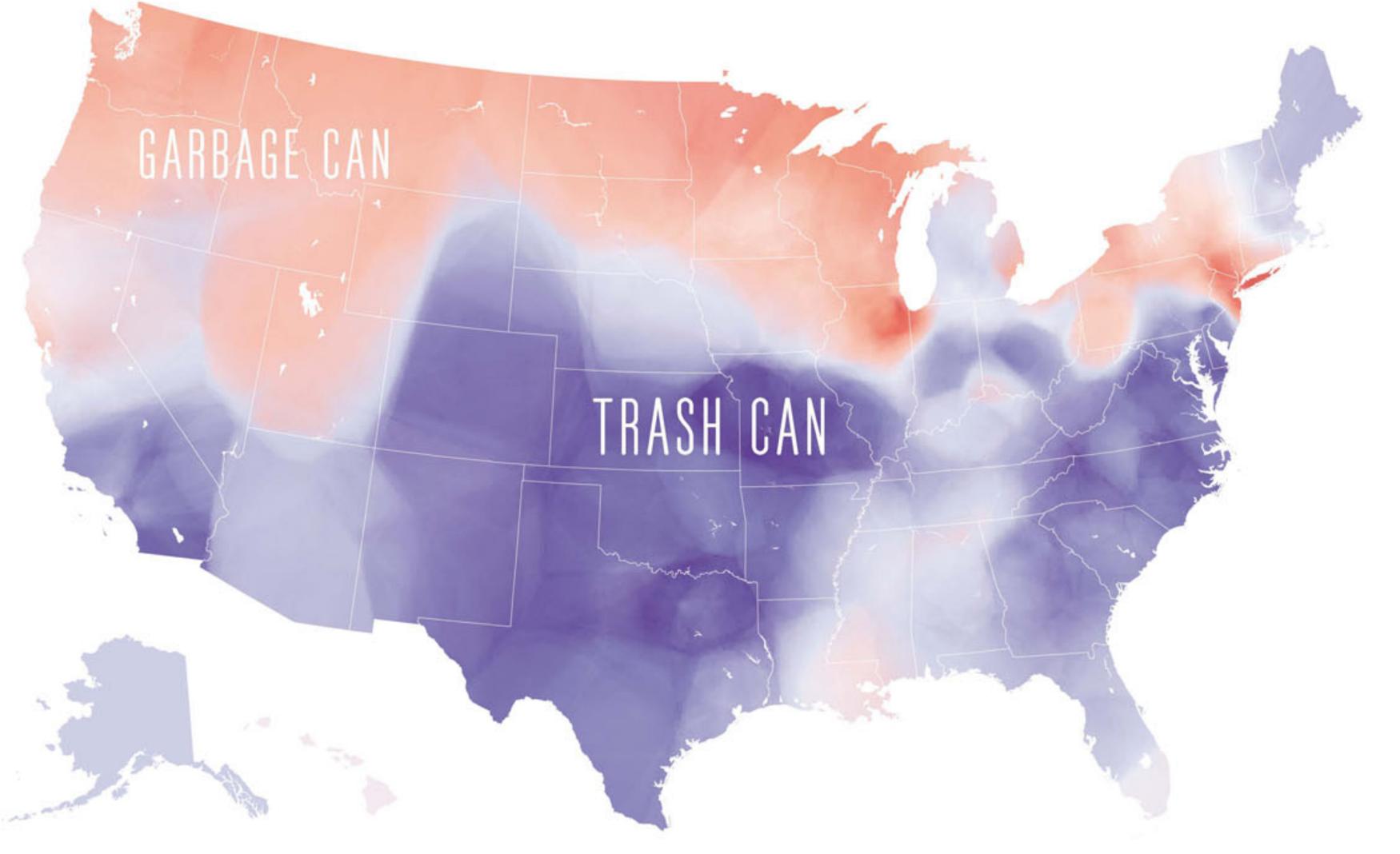


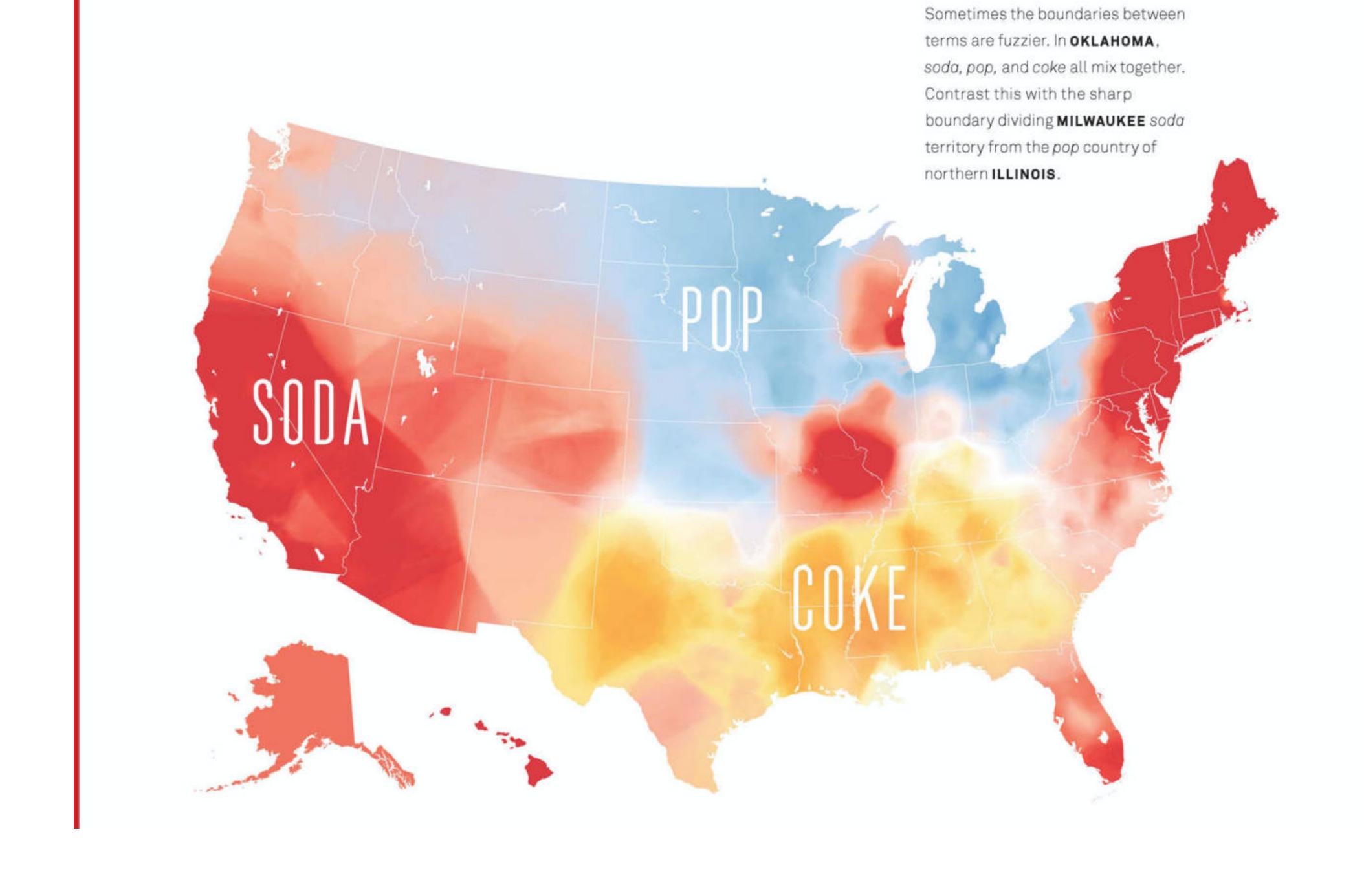
How Y'all, Youse and You Guys Talk. Josh Katz and Wilson Andrews https://archive.nytimes.com/www.nytimes.com/interactive/2013/12/20/sunday-review/dialect-quiz-map.mobile.html

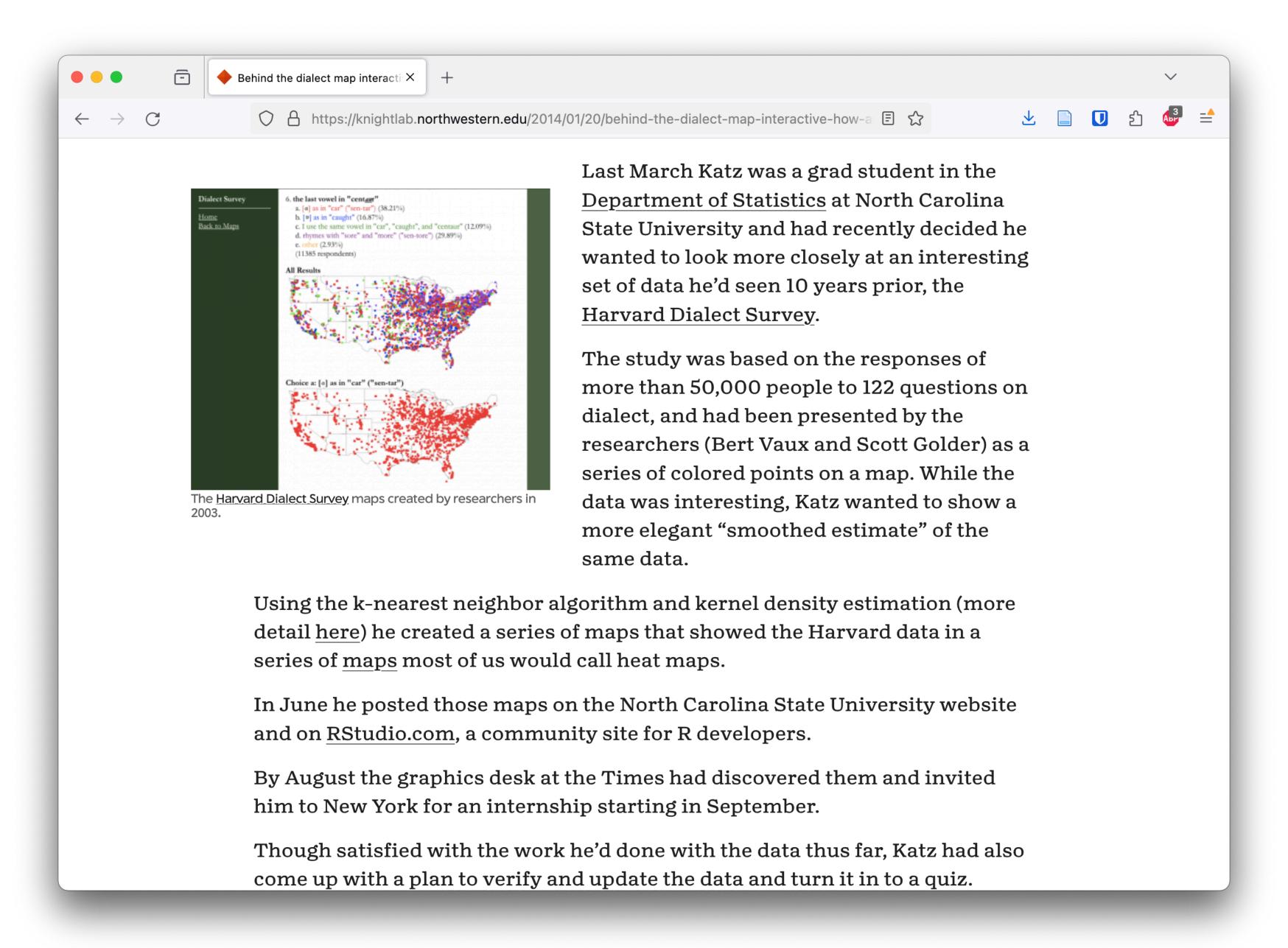
WHERE WE THROW OUR TRASH

Since the 1950s, trash can has become increasingly common in American speech. Two in three people born in the 1990s would say trash can over garbage can.

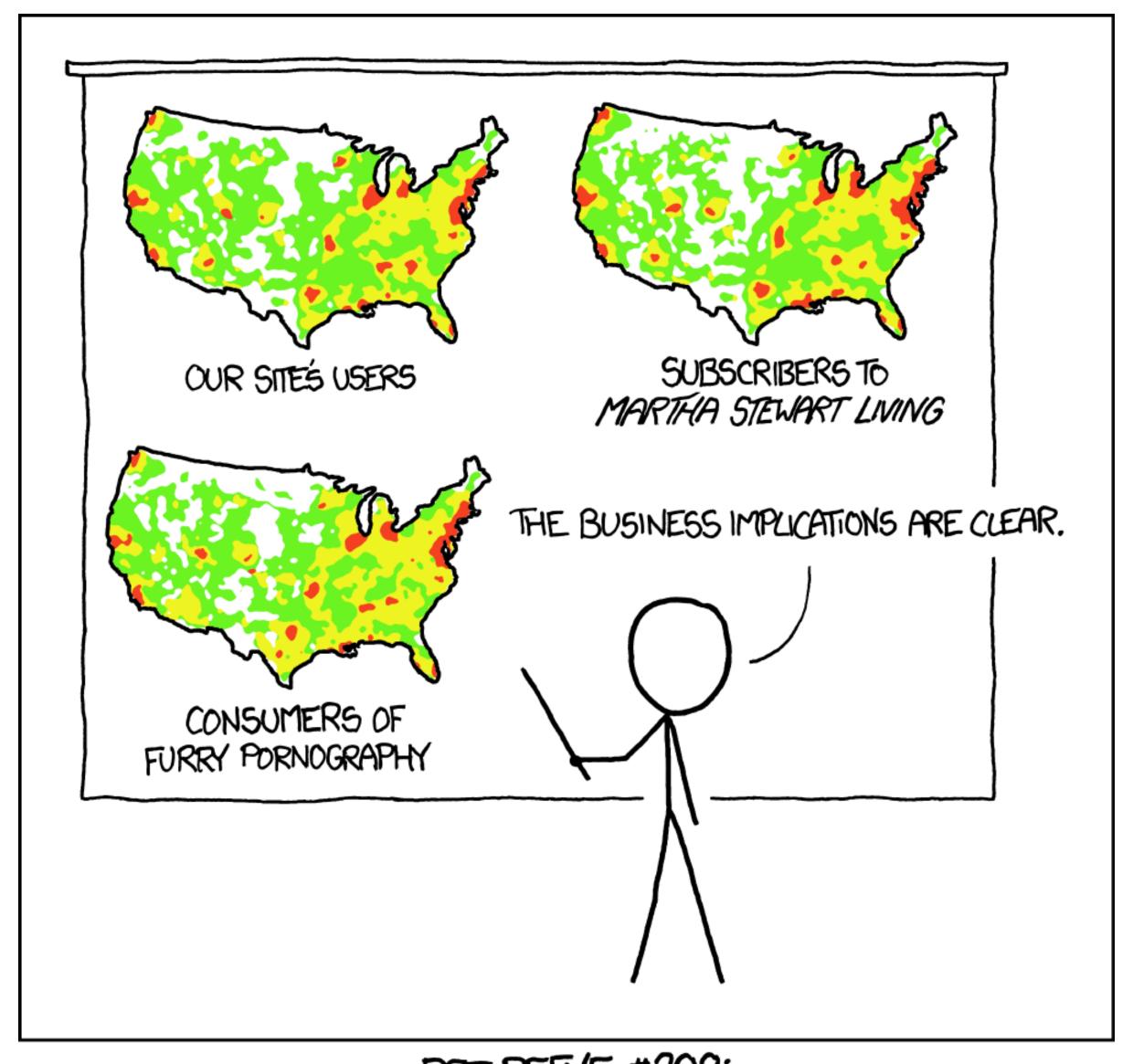






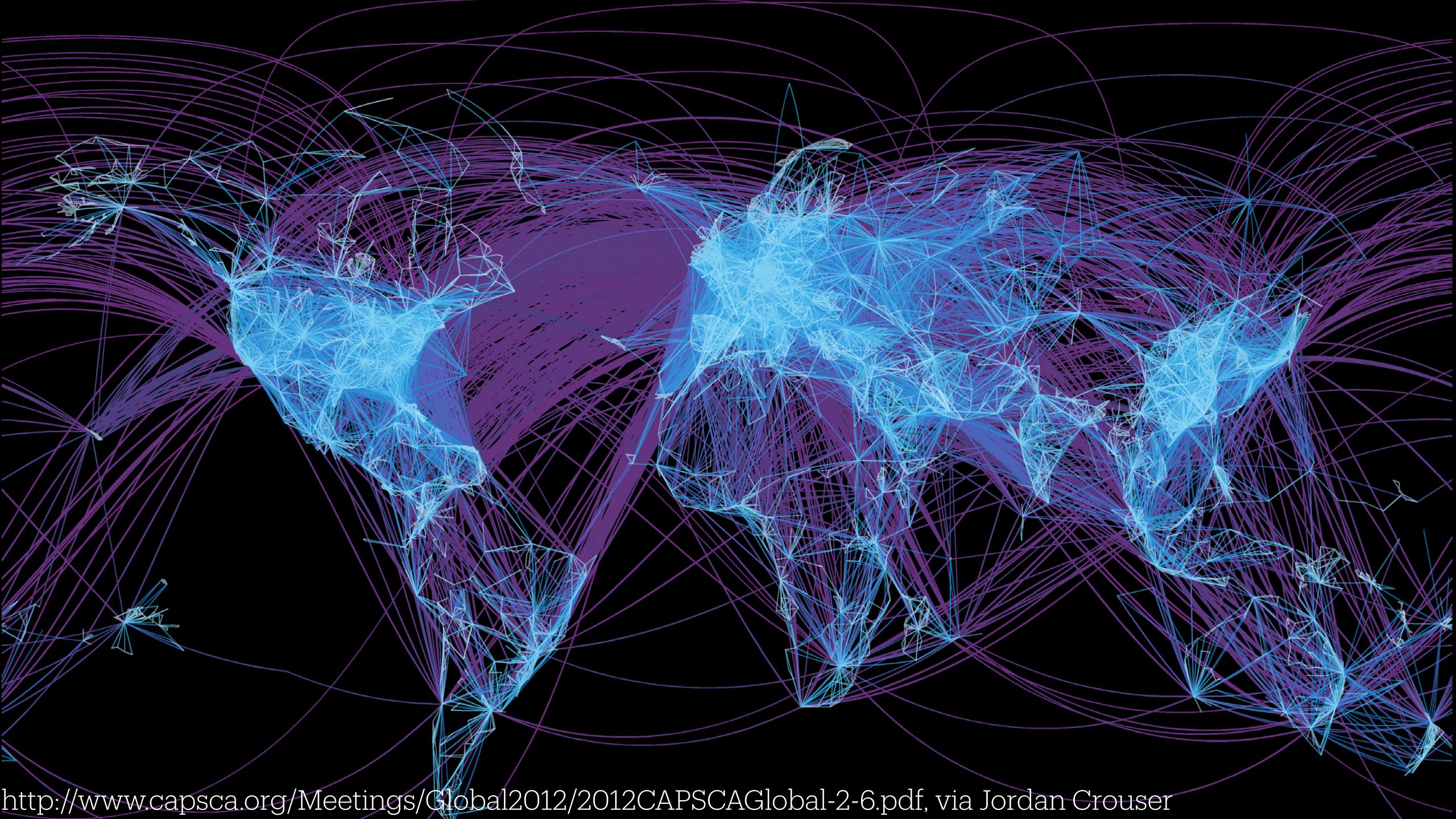


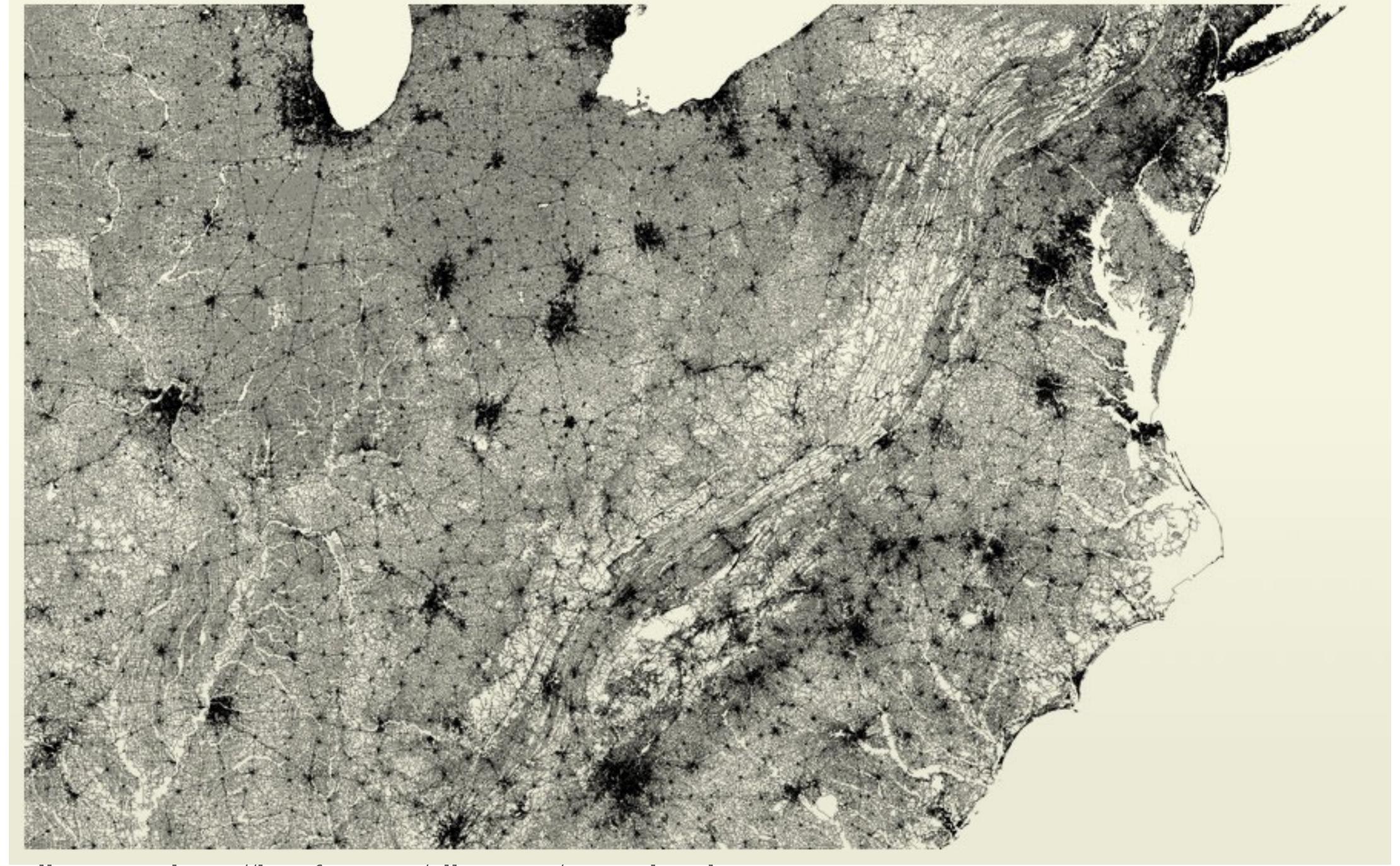
Behind the dialect map interactive: How an intern created The New York Times' most popular piece of content in 2013. Ryan Graff https://knightlab.northwestern.edu/2014/01/20/behind-the-dialect-map-interactive-how-an-intern-created-the-new-york-times-most-popu



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

Lines





Ben Fry, All Streets. http://benfry.com/allstreets/map5.html



Ben Fry, All Streets. http://benfry.com/allstreets/map5.html

Polygons

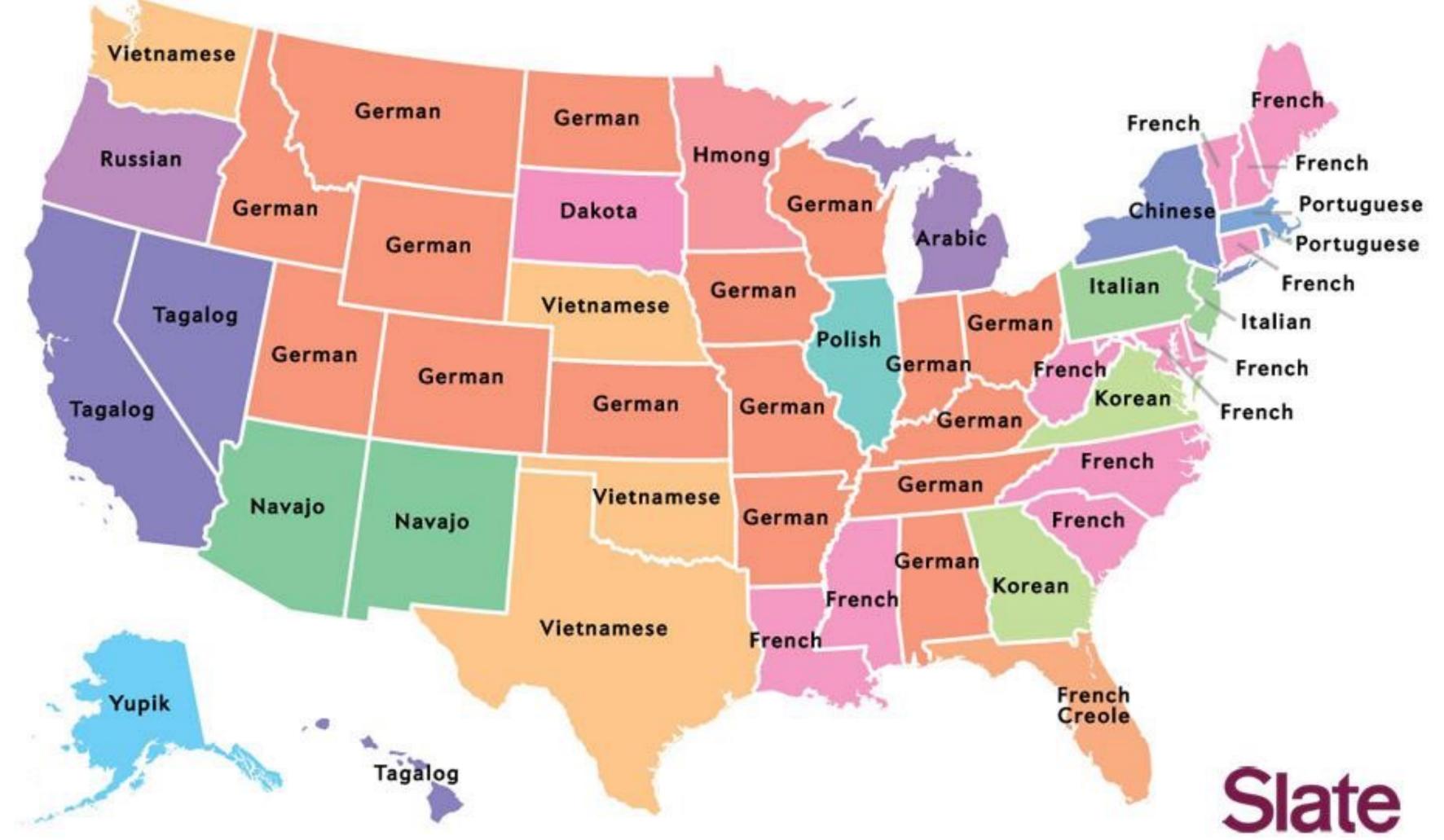
Choropleth maps



https://slate.com/culture/2014/05/language-map-whats-the-most-popular-language-in-your-state.html

Choropleth maps

Most Commonly Spoken Language Other than English or Spanish



https://slate.com/culture/2014/05/language-map-whats-the-most-popular-language-in-your-state.html

Choropleth maps



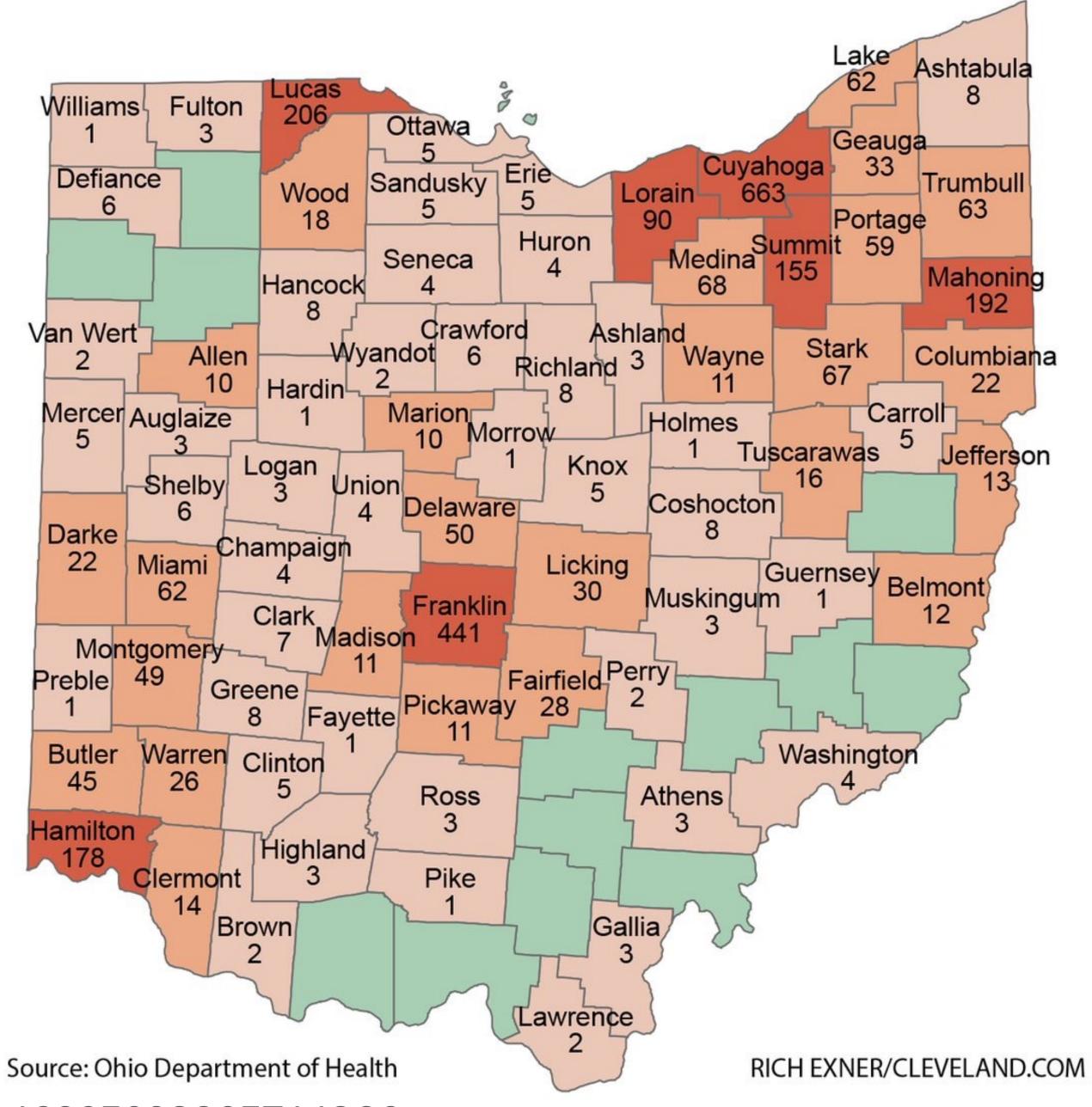
https://slate.com/culture/2014/05/language-map-whats-the-most-popular-language-in-your-state.html

"all maps of parameter estimates are misleading"

- Gelman and Price

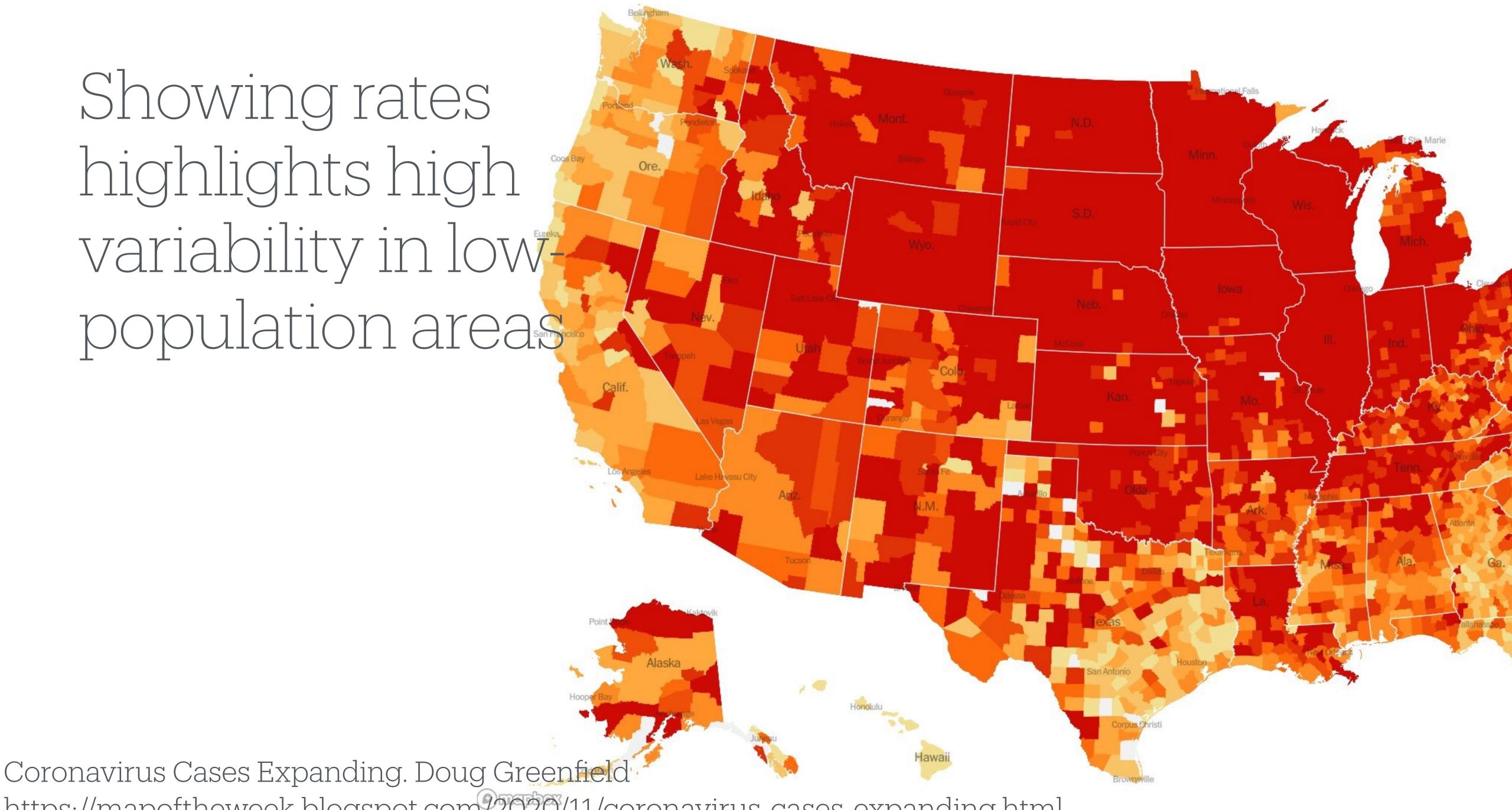
Showing raw areas

2,902 confirmed coronavirus cases



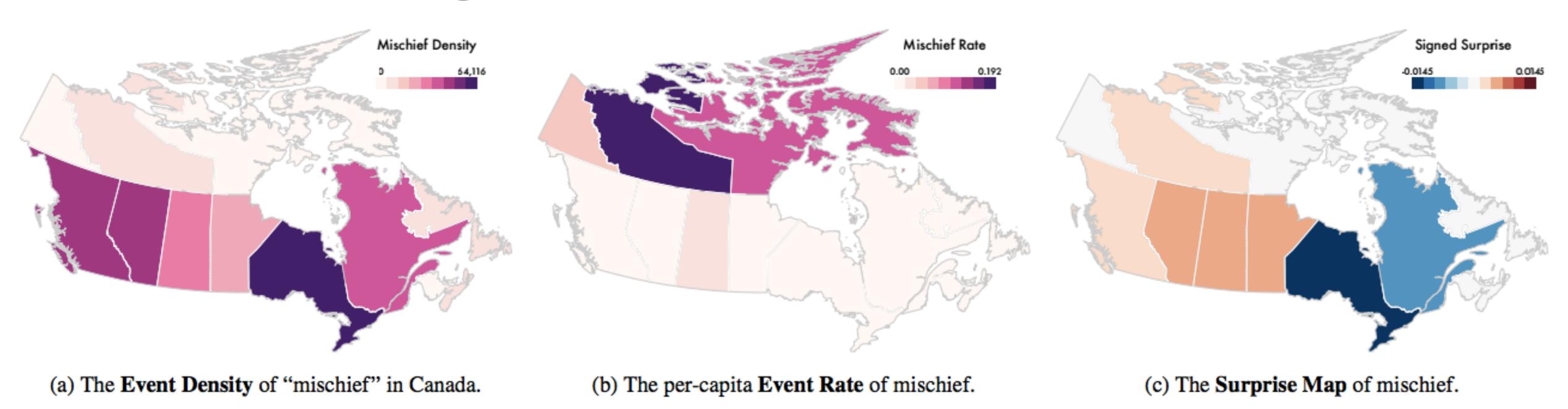
via https://twitter.com/nick_suarezc/status/1246235329985744902

Showing rates highlights high variability in lowpopulation areas



https://mapoftheweek.blogspot.com/2020/11/coronavirus-cases-expanding.html

Surprise! Bayesian Weighting for De-Biasing Thematic Maps.

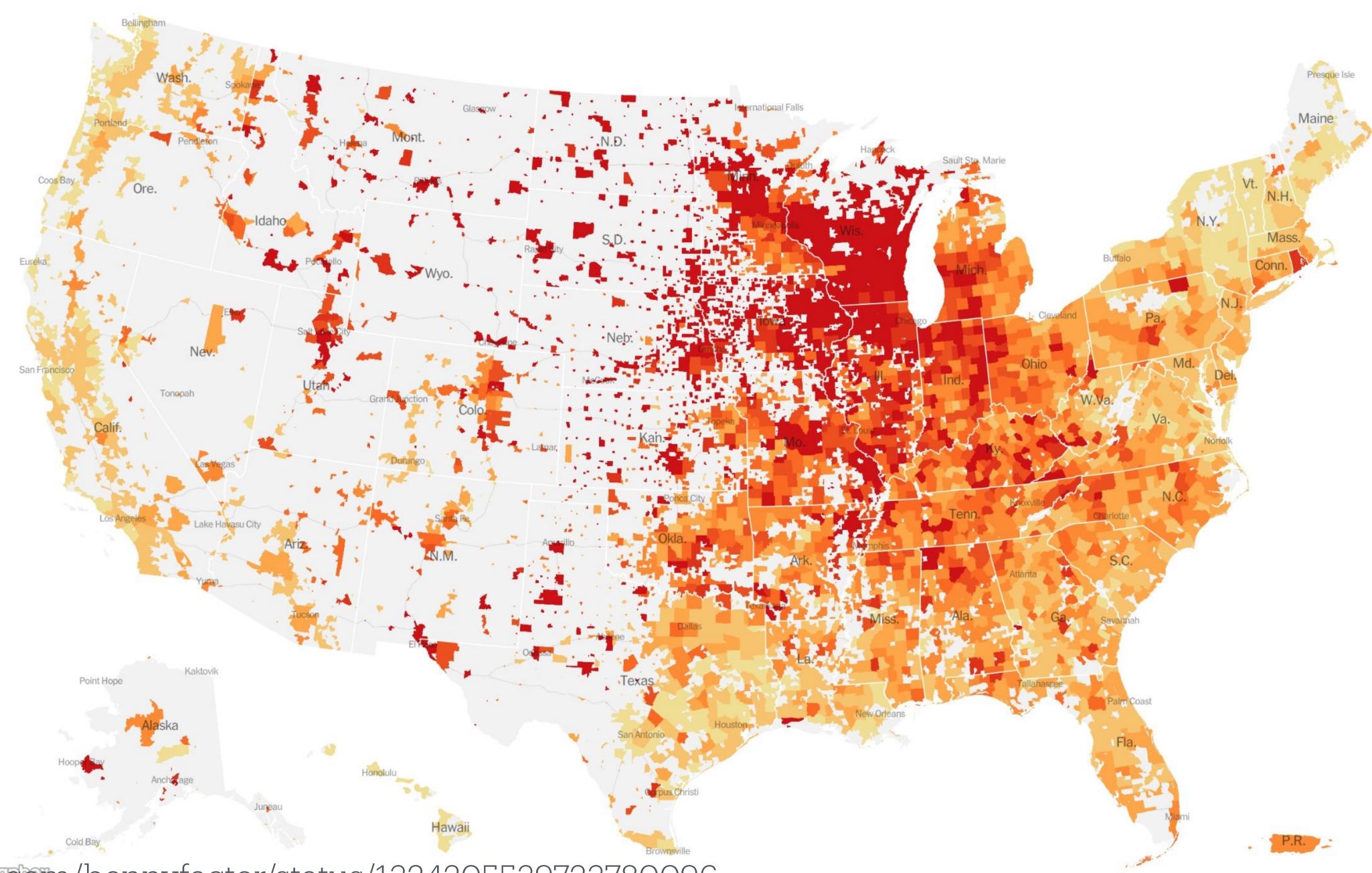




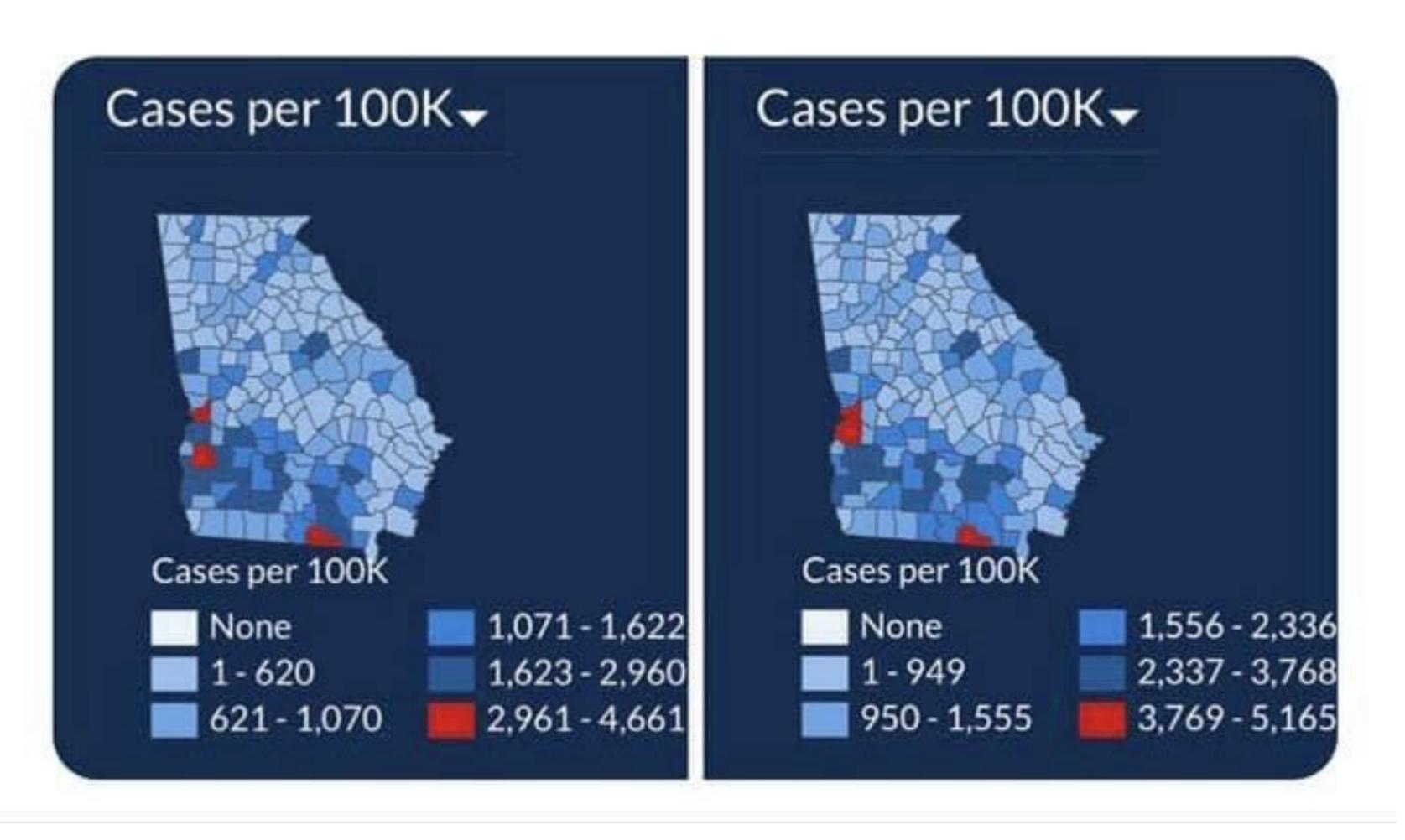
While I hate the sheer amount of covid illness this map represents, I think it's really smart what the NYT did here in not coloring in areas where the population density is below 10/sq mile. Gives a vastly more useful understanding of who is sick, where than a usual choropleth



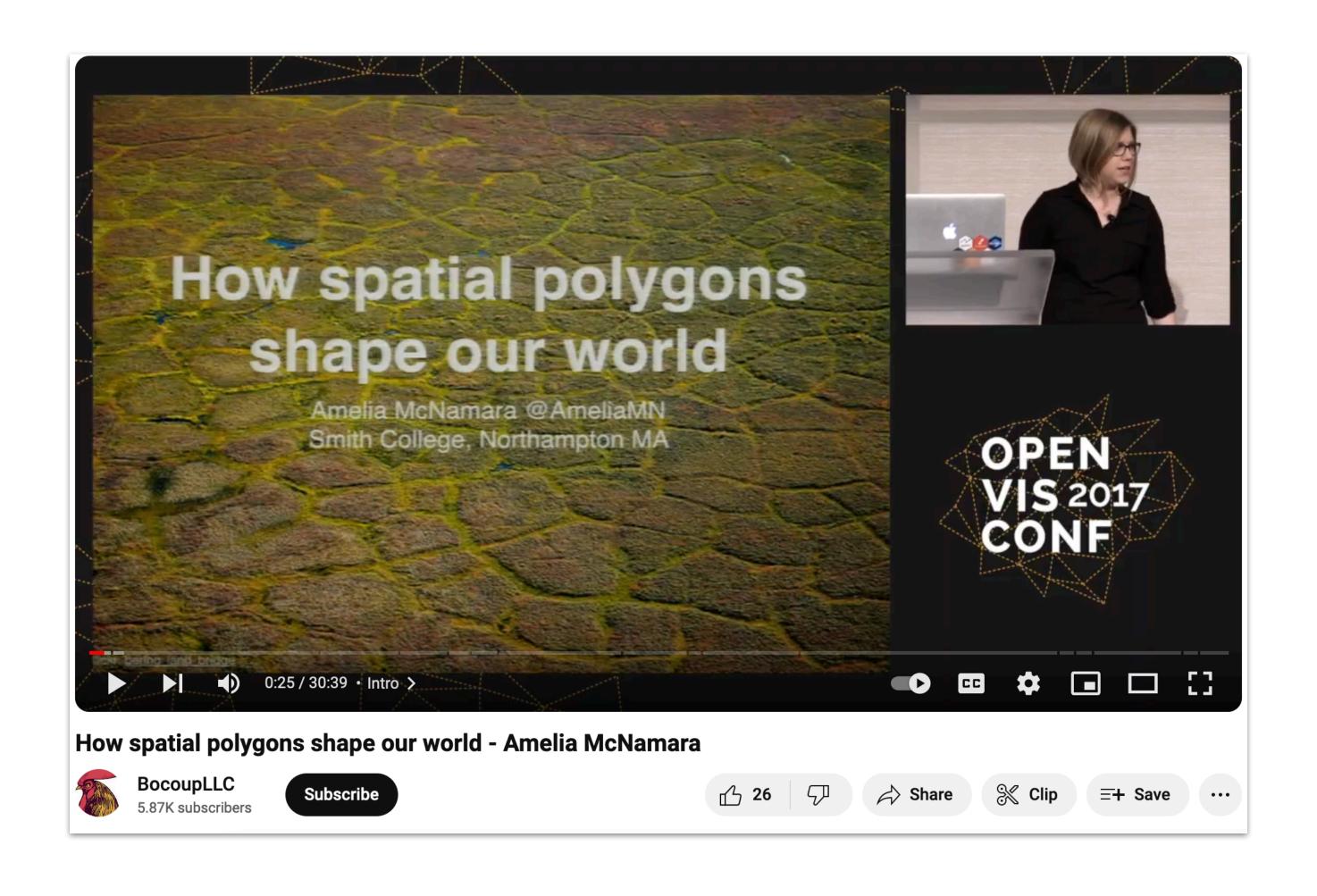




If things are changing over time, watch the legend

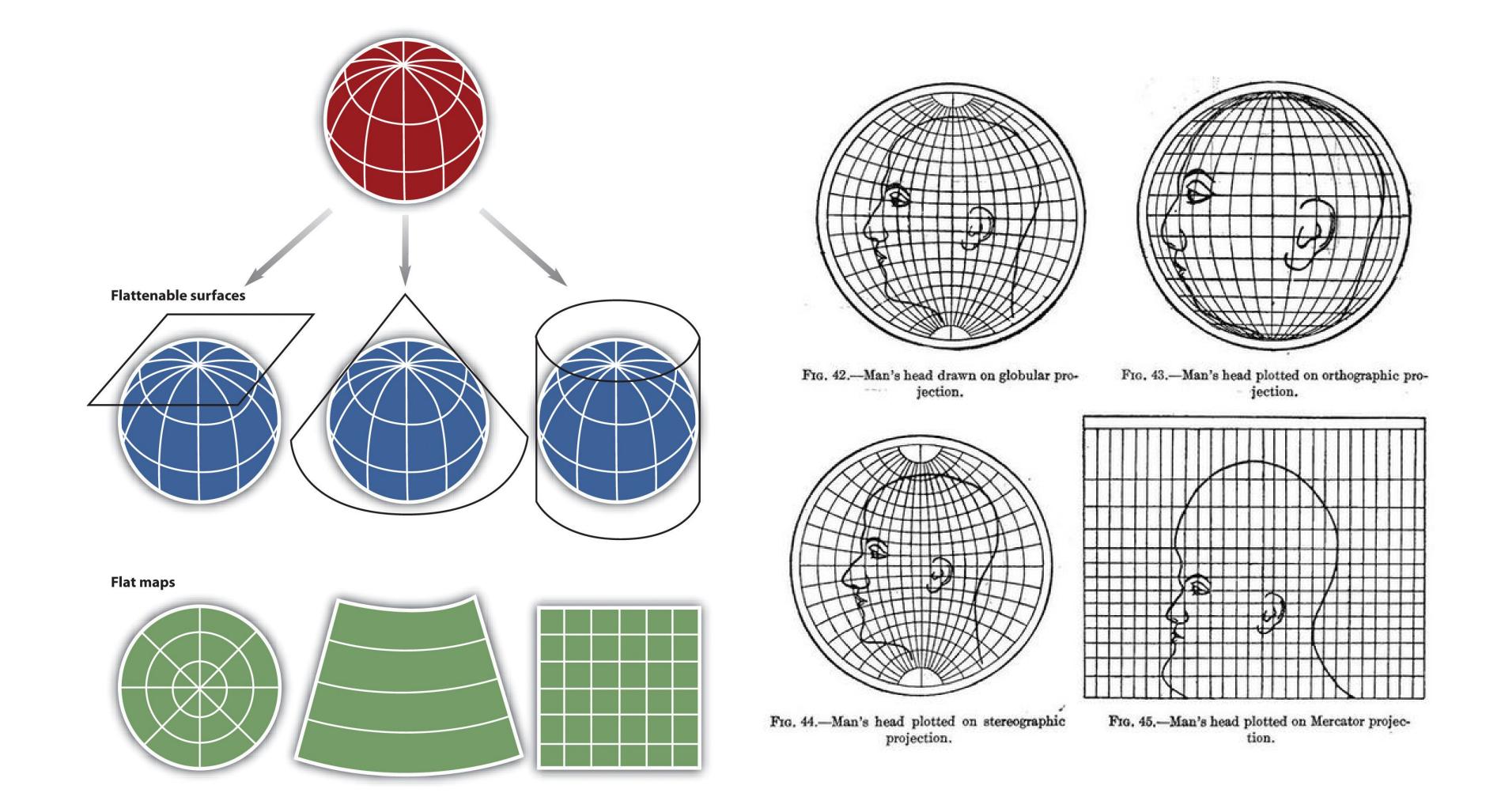


Modifiable Areal Unit Problem



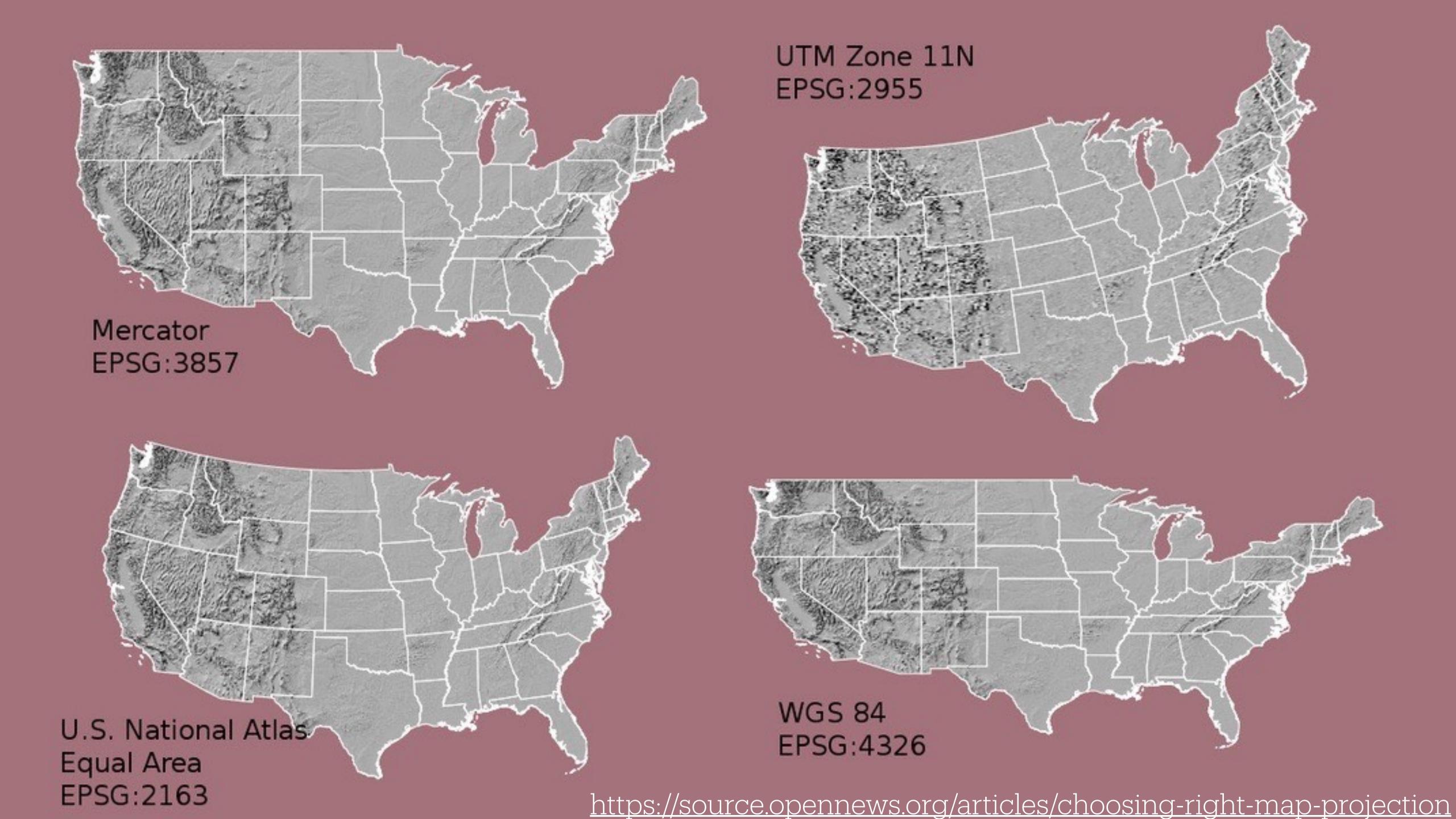
Projections

Map projections



Campbell, J.E., & Shin, M. (2012). Geographic Information System Basics.

Deetz, C. H., & Adams, O. S. (1921). Elements of map projection with applications to map and chart construction.



Top 100 Countries The True Size of Africa Area in square kilometers, Percentage of World Total A small contribution in the fight against rampant *Immappancy*, by **Kai Krause** Sources: Britannica, Wikipedia, Almanac 2010 In addition to the well known social issues of *illiteracy* and *innumeracy*, **NETHERLANDS** there also should be such a concept as "immappancy", meaning in-**BELGIUM** sufficient geographical knowledge. A survey with random American schoolkids let them guess the population and land area of their country. **SWITZERLAND** Not entirely unexpected, but still rather unsettling, the majority chose "1-2 billion" and "largest in the FRANCE world", respectively. Even with Asian and European college students, geographical estimates were often off by factors of 2-3. This is partly due to the highly distorted nature of the predominantly used mapping pro-PORTUGAL jections (such as *Mercator*). A particularly extreme example is the worldwide misjudgement of the true size of Africa. This single image tries **EASTERN** to embody the massive scale, which is **EUROPE** larger than the USA, China, India, Japan and all of Europe - combined! UNITED STATES AREA COUNTRY USA 9.629 China 9.573 3.287 India 1.964 Mexico 1.285 Peru France 633 Spain 506 The graphical layout of this map is meant purely as a *visualization* to illustrate the fact: Africa is *much* larger than *almost everyone* assumes! 462 **Papua New Guinea** Even totally blurred outlines could have been used to make that point, **CHINA** however the table at left is very accurate, citing: 441 Sweden http://en.wikipedia.org/wiki/List of countries and outlying territories by total area 378 Japan Note for instance that the figure in the table for the USA *does* include 357 Germany Alaska and Hawaii, but they are not even used in the map, as are a CHINA PART 2 handful of other entries (such as Norway and Sweden). Norway The reason for this is that the map purposely uses the familiar shapes, 301 Italy as if you are 'moving pieces in Google Maps'. Because the mathematically exact depiction, using equal area scaling, would be even more New Zealand drastic, but would appear highly distorted. I chose to retain the com-**United Kingdom** 243 monly known outlines and proportions to tell the story, even if this conservative size has 'left-over parts'. Nepal

Brazil 8.514.877 5,70 Australia 7.692.024 2,30 3.287.263 Argentina 2.780.400 1.80 Kazakhstan 2.724.900 2.505.813 2.381.741 Congo 2.344.858 1,60 2.166.086 1,50 Saudi Arabia 2.149.690 1,40 1.964.375 1.860.360 1,30 Mongolia 1.285.216 1.284.000 0,85 1.267.000 0.85 1.246.700 0.83 1.240.192 0,82 South Africa 1.221.037 Colombia 1.141.748 0,76 Ethiopia 1.104.300 0.74 1.098.581 Mauritania 1.025.520 1.002.000 945.087 Nigeria 912.050 824.116 801.590 0,54 0,53 796.095 783.562 0.53 0,51 756.102 Zambia 752.612 0,51 Myanmar 676.578 652.090 637.657 0,43 632.834 C. African Rep 622.984 603.500 /ladagascar Botswana Kenya 580.367 527.968 Thailand 513.120 0,34 0,34 505.992 488.100 0.33 475.442 0,32 New Guinea 462.840 0,31 447.400 0.30 446.550 0,30 441.370 0,30 438.317 406.752 357.114 Rep o.t. Congo 342.000 338.419 0,23 331.212 0,22 0,22 330.803 Malaysia 323.802 0,22 0,22 Côte d'Ivoire 322.463 312.685 0,21 309.500 301.336 300.000 Western Sahara 266.000 256.369 Ecuador 245.857 0,17 242.900 Jnited Kingdom 241.038 0.16 Ghana 238.539 0.16 238.391 0,16 236.800 0.16 214.969 0,14 Belarus 207.600 0,14 Kyrgyzstan 196.722 Cambodia 176.215 Uruguay 147.181 143.998 143,100 120.538 117.600 0,08 TOP 100 TOTAL 132.632.524

United States

Europe

India

AREA km²

© creative commons

The Surface of the MOON

No Rights Reserved

144

37.930

Bangladesh

Greece

TOTAL 30.102

AFRICA 30.221

This work is placed in the **Public Domain**

The small maps on the right are again the singular message: see

some of the countries in direct relation to Africa, a view that is quite

It is worth looking at Bucky Fullers maps or the Peters equal area

proposals, among many other beautiful attempts to display geographi-

cal information. Numerous other side-by-side comparisons have been

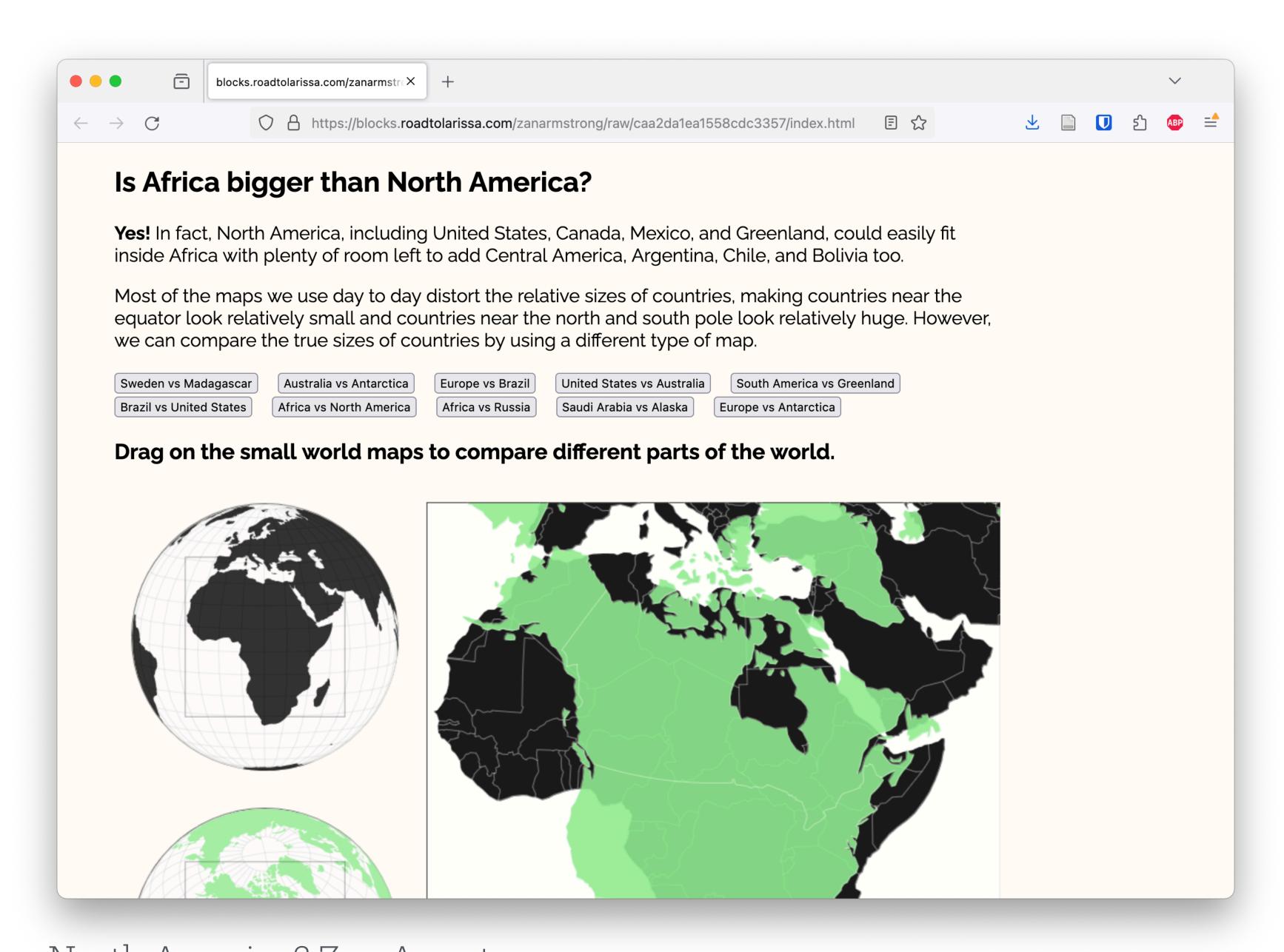
made, this is by far not the first and hopefully not the last such map:

someone should find the best fit of all puzzle pieces in a neutral projec-

Until then, please do not take it all too literal ('where is Ibiza??')

and simply take that one impression with you: Africa.... is immense.

unfamiliar and rarely seen.



Is Africa bigger than North America? Zan Armstrong. https://blocks.roadtolarissa.com/zanarmstrong/raw/caa2da1ea1558cdc3357/index.html