

CUNY | Fall 2015

# Fundamentals of data and interactive journalism

Your instructor: Nadja Popovich

# A bit about me ...

I work at the Guardian's US office in New York, where I make interactive graphics and write about health, science and politics.



Some projects I've worked on over the past year ...

- Lack of diversity in Congress
- How vaccines protect communities
- What a new anti-abortion law means for Texas women

# Syllabus:

<http://popovichn.github.io/cuny-fundamentals-of-data>

Please fill out this quick survey!

<http://bit.ly/data-class-survey>

BREAK

# What is data?



# Why should you care about data?





**Olympic Games 2012**  
London 2012 Olympics  
blog

**Steve Busfield and James Ball**

Wednesday 1 June 2011 06:38 EDT



< Shares   Comments

0

377

Save for later

## Olympic tickets: How successful were you in your application?

Help us work out how London 2012 tickets were allocated with our simple spreadsheet  
[See the results](#)



How many of you have been allocated tickets to watch the cycling in the London 2012 velodrome? Photograph: Eddie Keogh / Reuters/REUTERS

The London 2012 ticketing process has come in for [much criticism this week](#) as sports fans discovered how many - or how few - Olympic tickets they had won in the ballot.

[A quarter of a million people have been left ticketless by the process but will be offered an "exclusive window" to buy tickets on a first-come first-served basis.](#) People who received a handful of tickets will only be allowed to try to purchase leftover tickets later.

Source: The Guardian

# Some Nonprofits Rake In Millions, But Spend Little On Good Deeds

Beauty pageants? The NFL? Why are these organizations tax-exempt? A new report released today by Sen. Tom Coburn breaks down the 9,000-page tax code and calls for loopholes to be closed.

posted on Dec. 8, 2014, at 11:45 p.m.



**Kendall Taggart**  
BuzzFeed News Reporter



**Some celebrity nonprofits give barely anything to charity.**

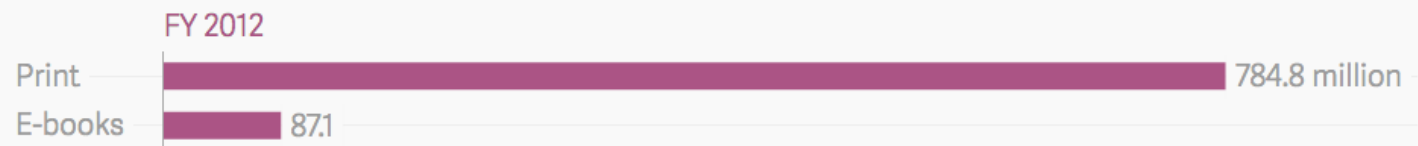


*Carlo Allegri / Reuters*

The Kanye West Foundation, which was founded to help teen dropouts, spent \$553,826 in 2009 on salaries, travel, and other administrative expenses. [Only \\$573 actually went to charity.](#) The charity [closed mysteriously](#) in 2011.

Source: Buzzfeed

## Public library materials available in the US

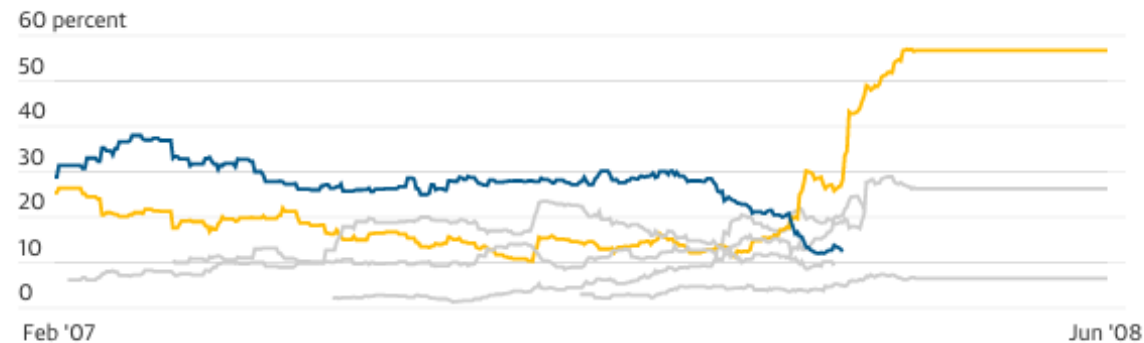


Source: Quartz

## Remember how Giuliani got trumped in the polls?

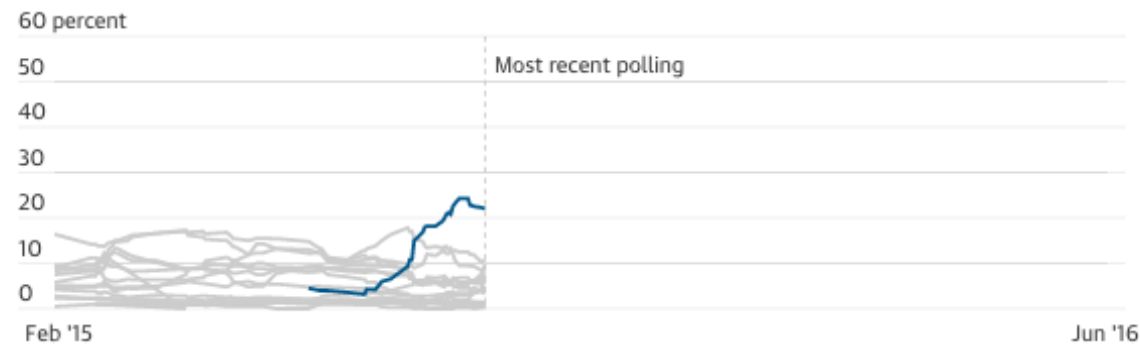
### 2008 Republican Presidential Nomination

● Giuliani ● McCain ● Other candidates



### 2016 Republican Presidential Nomination

● Trump ● Other candidates

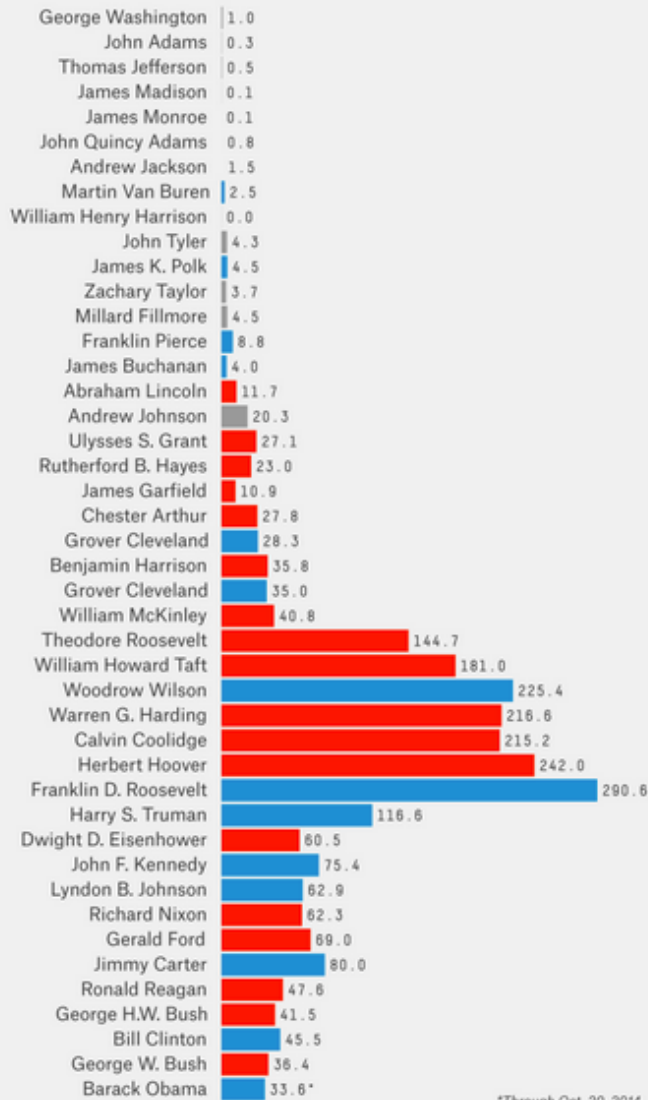


SOURCE: REAL CLEAR POLITICS

Source: The Guardian

## Executive Orders Have Become A Lot Rarer

Orders per year in office, by president



\*Through Oct. 20, 2014

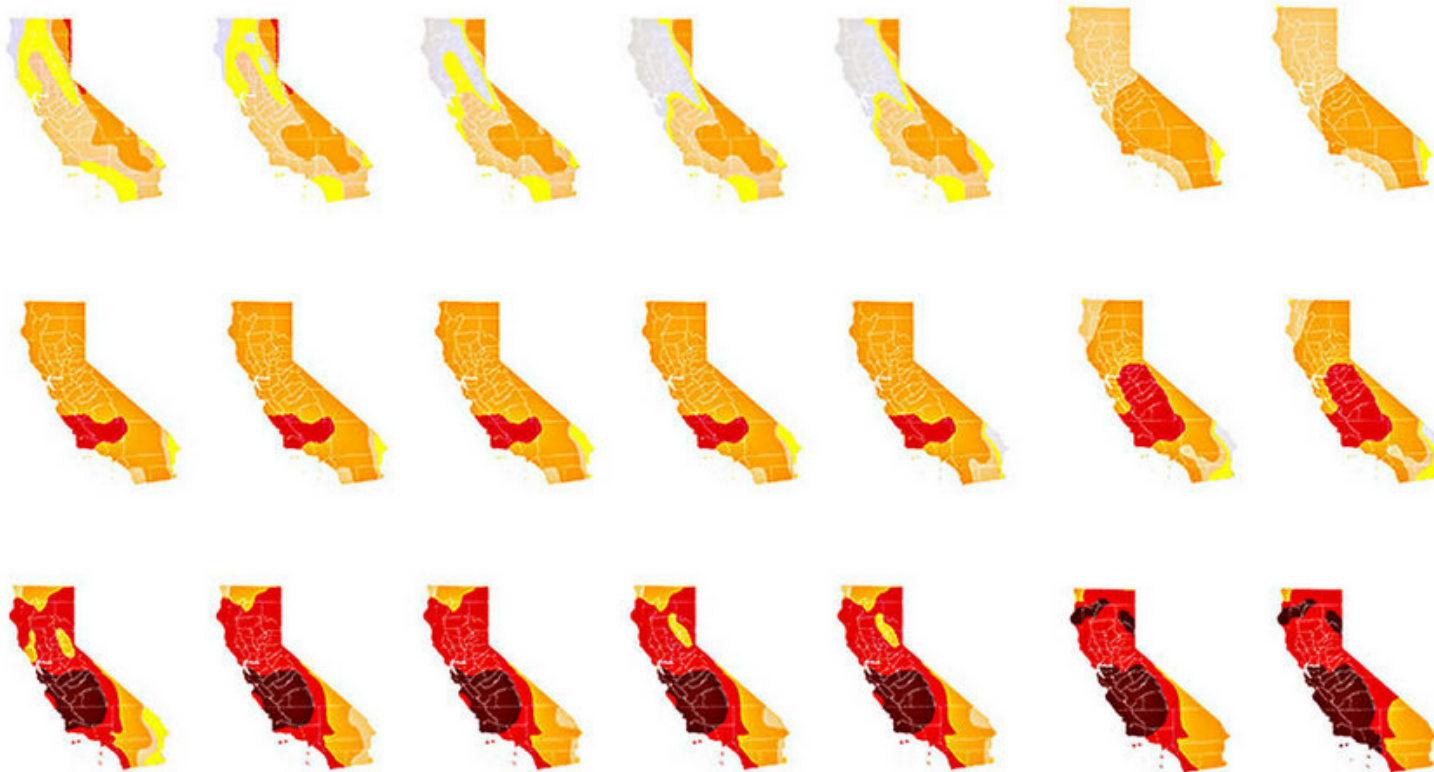
FIVETHIRTYEIGHT

SOURCE: THE AMERICAN PRESIDENCY PROJECT

Source: FiveThirtyEight

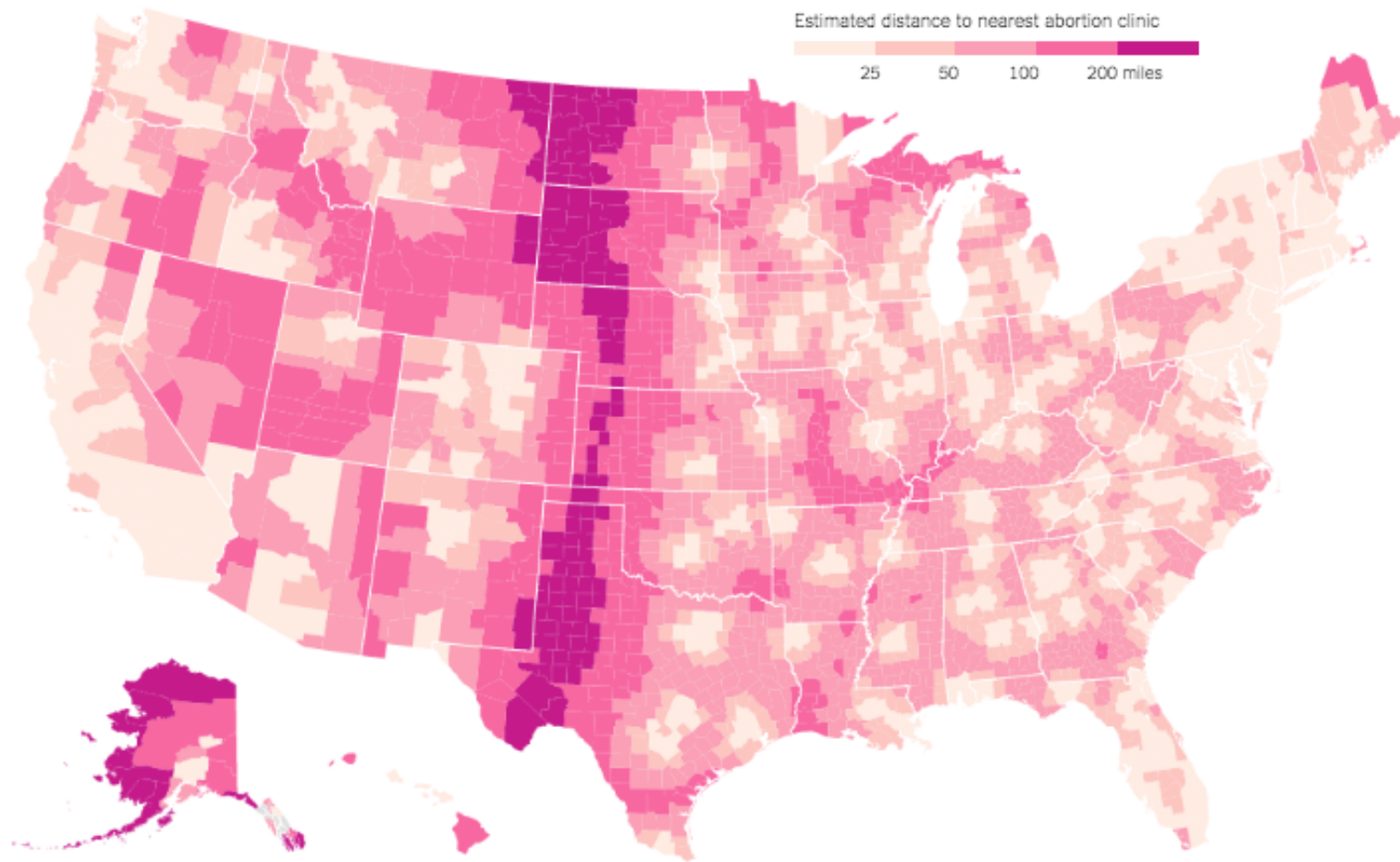


Source: Jezebel



Much of California is mired in extreme and exceptional drought. (Los Angeles Times)

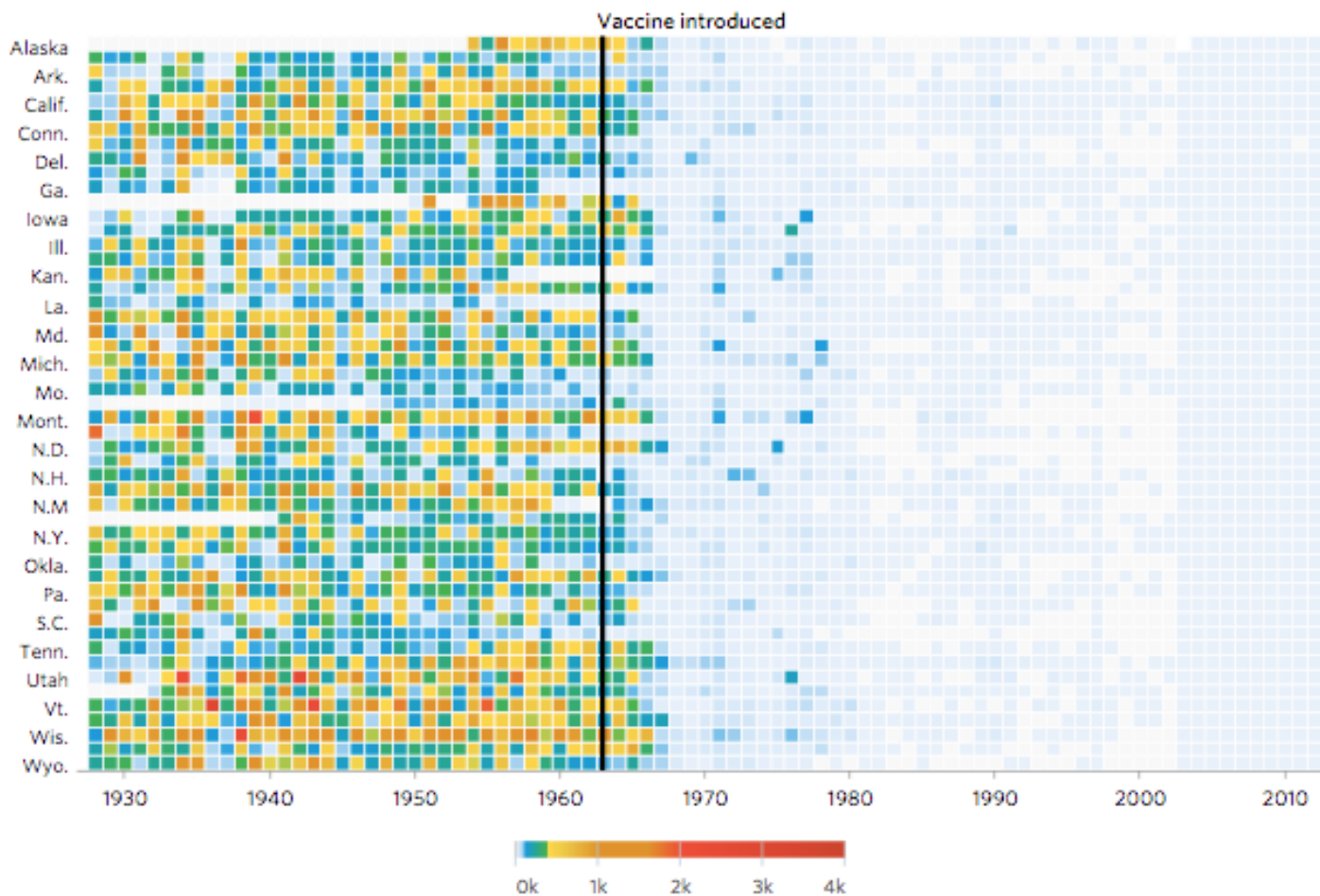
Source: LA Times



Source: New York Times



## Measles



Source: Wall Street Journal



# Mapping the Bacteria in New York's Subways

Every day, New York City's 5.5 million commuters seed the city subways with bacteria from the food they eat, the pets or plants they keep, and their shoes, sneezes and unwashed hands.



For the first time, researchers at Weill Cornell Medical College sampled DNA in New York City's 466 open subway stations. They found genetic material from 15,152 different species, most of them harmless or unidentified. Almost half the DNA belonged to bacteria. No two subway stations were exactly the same, and the research continues.

So far, the scientists have identified 67 bacteria species associated with disease and infections. Here are details on a few of the bacteria found. [Related article »](#)

Published Feb. 5, 2015

Explore by station

Explore by bacteria type

Share this view:  

FIND A STATION:

Times Square-42nd St, Theater District (A, C, E, ...)

## Where Certain Types of Bacteria Were Found

Select a category below to see the stations where researchers found the associated types of bacteria.

Antibiotic resistance Diarrhea Dysentery

Food poisoning Heart-valve infections

Italian cheese Kimchi and sauerkraut

Medical-device infections Meningitis

**Mozzarella cheese**

### *Lactococcus lactis*

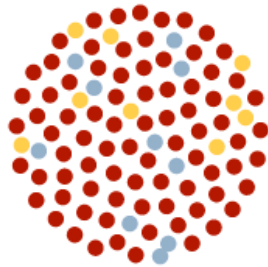
Associated with **Mozzarella cheese**

*Lactococcus lactis* is used in production of mozzarella and many other cheeses, including Brie, Camembert, Colby, Gruyère, Cheddar, Parmesan and Roquefort. The state Assembly of Wisconsin, the leading cheese producing state in the country, voted it the official state microbe.

CLOSE X

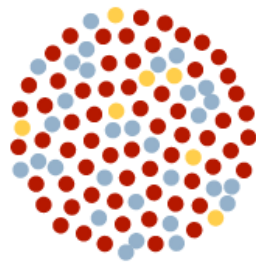


Source: Wall Street Journal



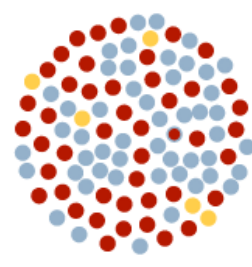
NOT PROTECTED

10.0% vax rate



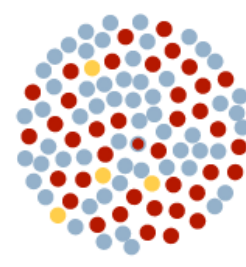
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30.0% vax rate



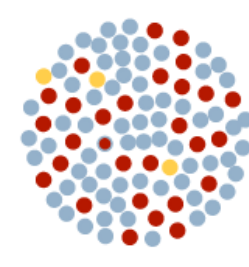
NOT PROTECTED

50.0% vax rate



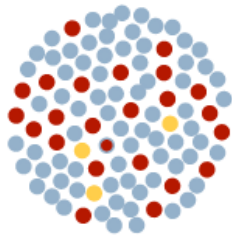
NOT PROTECTED

58.5% vax rate, similar  
to Okanagan County, WA



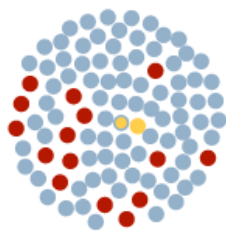
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68.9% vax rate, similar  
to Thurston County, WA



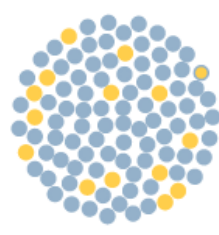
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74.4% vax rate, similar  
to Island County, WA



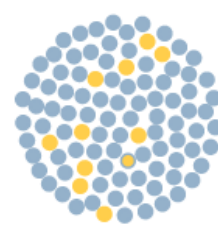
NOT PROTECTED

83.8% vax rate, similar  
to Santa Cruz County,  
CA



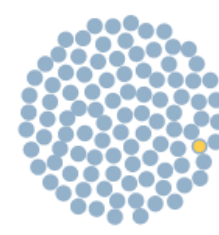
PROTECTED

86.0% vax rate, similar  
to Los Angeles County,  
CA



PROTECTED

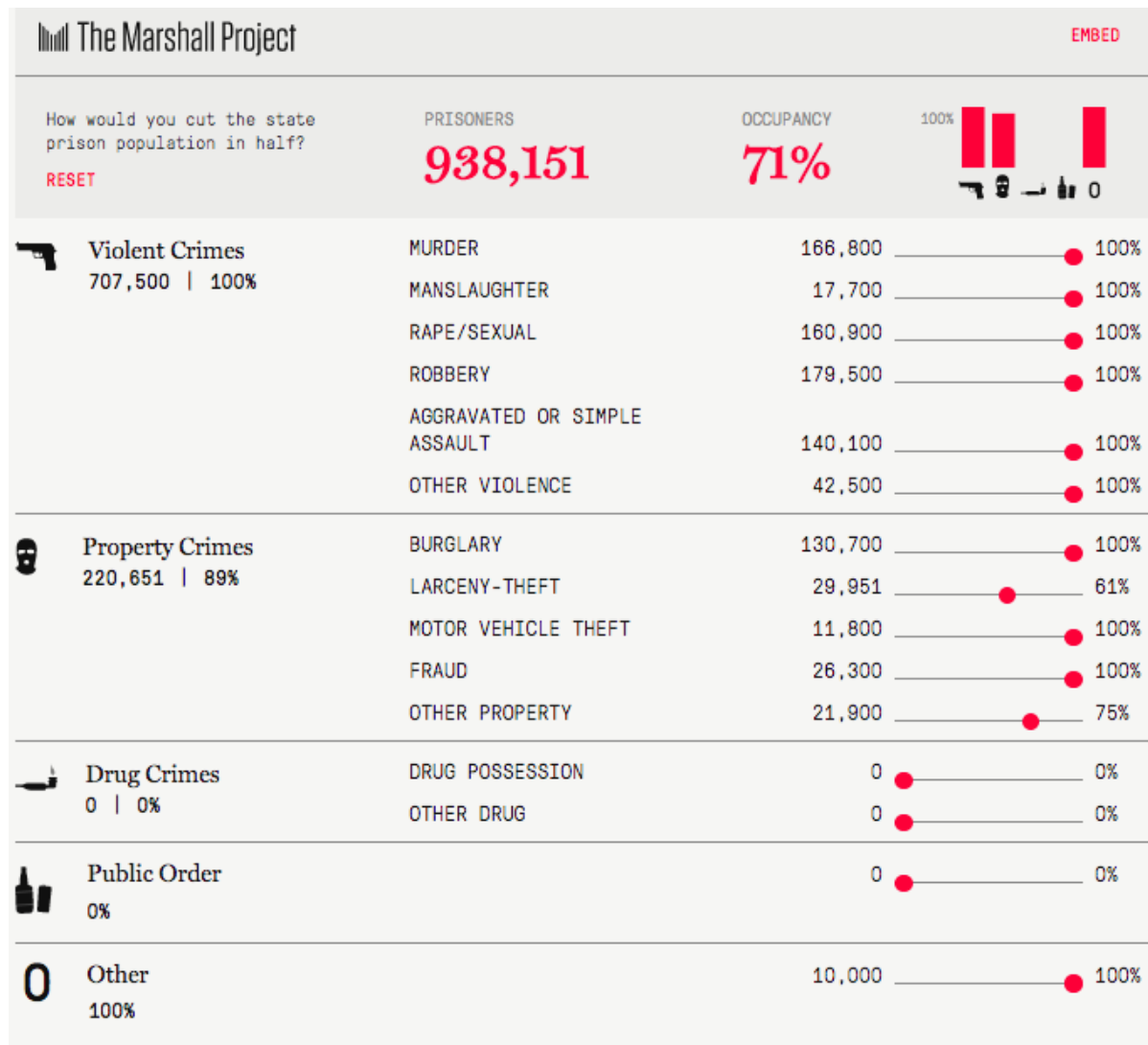
90.0% vax rate, similar  
to Orange County, CA



PROTECTED

99.7% vax rate, similar  
to Gadsden County, FL

Source: The Guardian



Source: The Marshall Project



*Aren't you nervous?*

Your account has a balance of \$31,161.

Sell!



Data: Factset

Source: Quartz

2. “There is no obligation on others in government to accept the court as the final arbiter of every constitutional question.”

Desegregation



Marriage equality



**Incorrect.** That was GOP presidential candidate Sen. Ted Cruz of Texas, in response to the Supreme Court’s ruling in *Obergefell v. Hodges*.

NEXT

Interactive by **Chris Kirk**.

Source: Slate

BREAK

Group work time



Slides made using [Reveal.js](#)