ISU GRAPHICS GROUP, FEBRUARY 28TH, 2020 POLITICAL DATA JOURNALISM: A HISTORY OF ELECTION GRAPHICS IN THE U.S.

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By THOMAS KAPLAN, REBECCA R. RUIZ and TRIP GABRIEL



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Feb. 15, 2020

'The West is Winning,' Pompeo Said. The West Wasn't Buying It.

At a Munich security conference, the president of France urged Europe to create its own policy toward Russia.

By DAVID E. SANGER and STEVEN ERLANGER

Feb. 15, 2020



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### In today's inc

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#### By PETER BAKER and MAGGIE HABERMAN

NEWS ANALYSIS

Distrust

White House.

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Feb. 15, 2020

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By NICHOLAS KULISH and ALEXANDER BURNS



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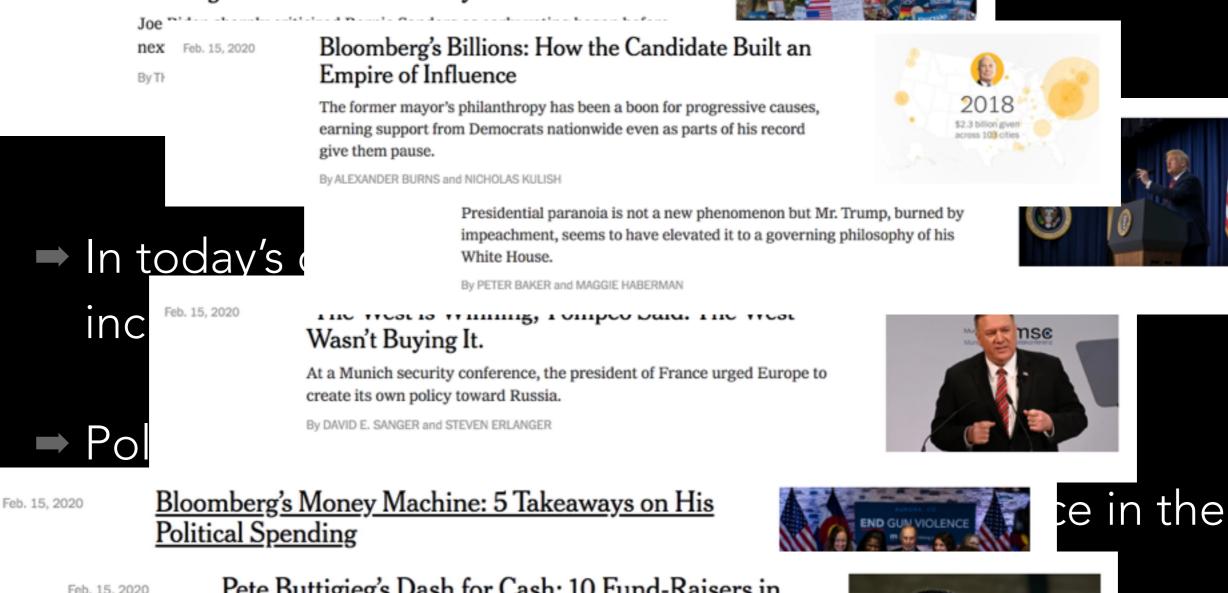
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Feb. 15, 2020

### Pete Buttigieg's Dash for Cash: 10 Fund-Raisers in Two Weeks

He leads in the delegate race after Iowa and New Hampshire. But the map is dramatically expanding ahead of Super Tuesday and so are the costs of campaigning.

By SHANE GOLDMACHER

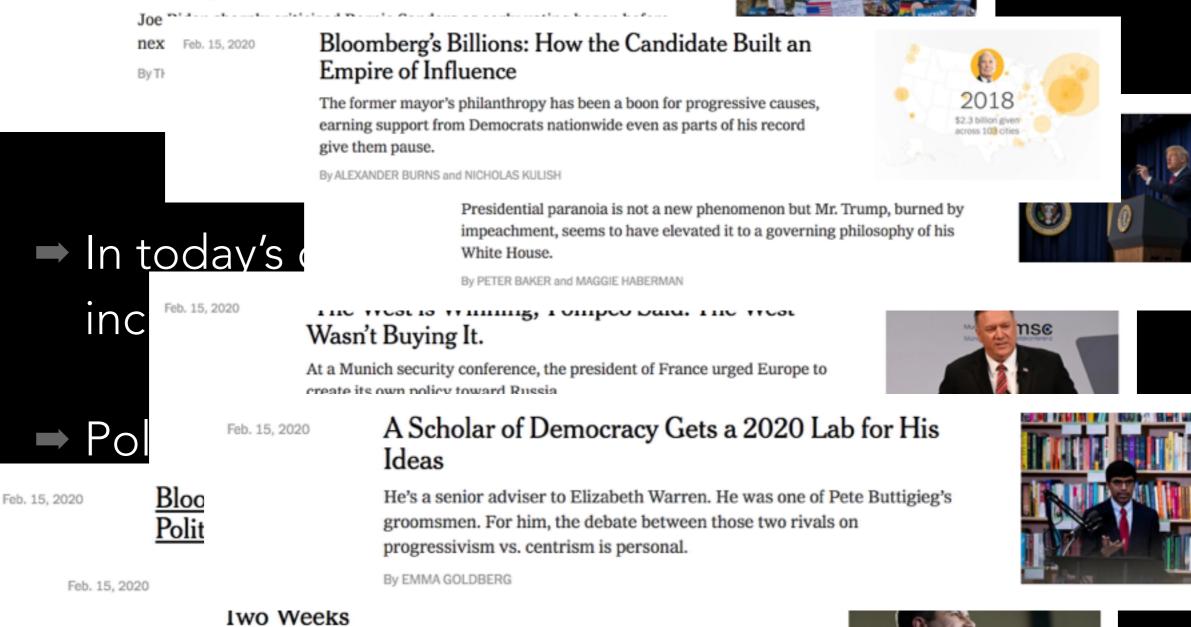




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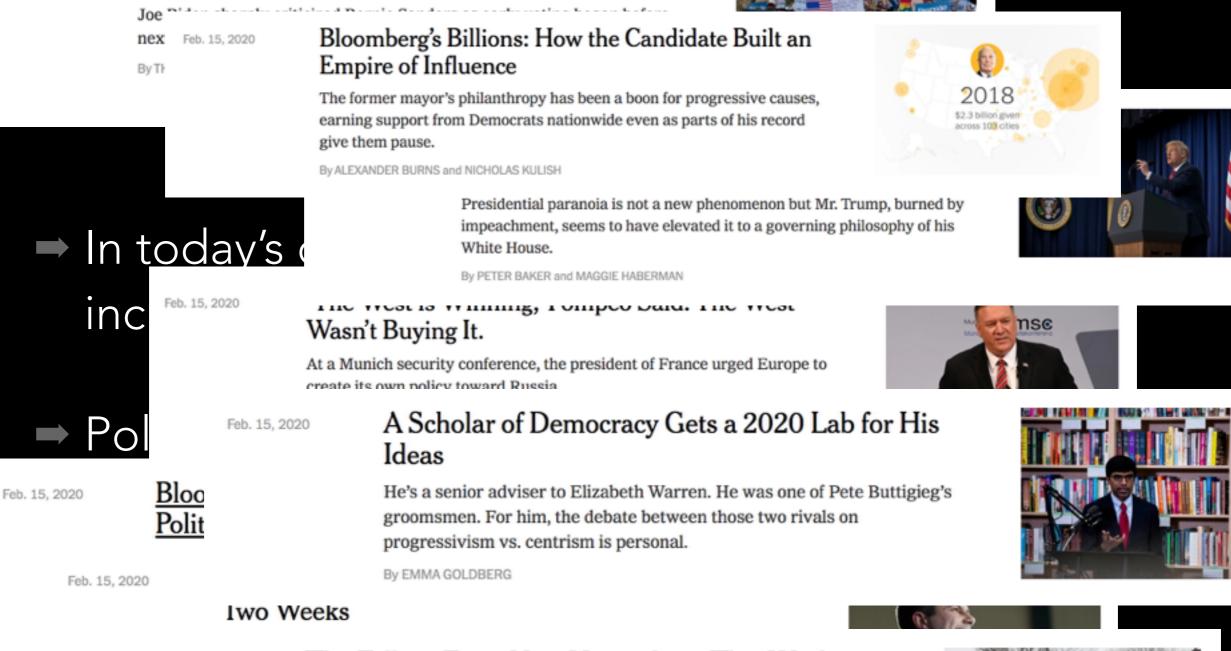




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Biden Calls on Sanders to Show Accountability for
'Outrageous' Online Threats by Followers





Feb. 15, 2020

# The Fallout From New Hampshire: This Week in the 2020 Race

There are "only" eight candidates left in the Democratic primary and we still do not know who won Iowa. Here is a recap of what you might have missed from a busy week in the Democratic primary.





### "AHHHHHHHHH!!!!!"

-GENERAL AMERICAN PUBLIC, 2020

 Data collection has also increased, giving the public quick access to TONS of information

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- News organizations and data visualization enthusiasts have lots of information to use

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- $\blacksquare$  Beginning with... graphics from the 1800's!

### Scribner's Statistical Atlas

Followed (and inspired by)
 Francis A. Walker's
 Statistical Atlas

#### PREFACE.

The study of statistics, with the means ordinarily at command, is a dry and difficult one. It should not, therefore, be a matter of surprise that comparatively little information regarding the condition and resources of a country, is to be found among its people. Such information is, for the most part, hidden away in long and forbidding columns of figures, and dispersed through many volumes more or less inaccessible. To group the various classes of facts, and to determine their bearings one upon another, is, with raw statistics, a formidable task.

Let these facts be expressed not alone in figures, but graphically, by means of maps and diagrams, appealing to a quick sense of form and color and "clothing the dry bones of statistics in flesh and blood," and their study becomes a delight rather than a task. The density of settlement, the illiteracy of the people, the wealth or poverty of different sections, and many other features of great importance, hitherto but vaguely comprehended, are made to appear at a glance, and are so vividly impressed as not to be easily forgotten. By such aids not only the statistician and political economist, but the masses of the people, who make public sentiment and shape public policy, may acquire that knowledge of the country and its resources which is essential to intelligent and successful government.

It is the aim of this work to bring together and to present by graphic methods, all the leading statistical facts regarding the physical, social, industrial, commercial and political conditions of the United States. It portrays the physical features of the country, which more or less determine its development; the political history of the nation, the succession of parties and the ideas for which they existed; and the progress of settlement, from the eastern seaboard, across the Appalachians, throughout the valley of the Mississippi, and beyond the barriers of the Cordilleras. It treats of the population, its varieties of race and nativity, its educational and religious condition, its occupations, and its mortality. Passing to the industries, it exhibits the great leading branches, agriculture, manufactures, mining, trade and transportation. Under the head of Finance and Commerce, it pictures the wealth of the country, its public debt and taxation, its foreign commerce and carrying trade, its expenditures and its sources of revenue—thus presenting to the comprehension of all, the balance sheet of the General Government. The work closes fittingly with a series of diagrams which summarize and bring together for comparison, the leading facts previously developed.

In the belief that the simpler methods of illustration are, as a rule, the most effective, care has been taken to avoid over-elaboration. By the use of different shades of color, the maps are made to present a bird's-eye view of the various classes of facts, as related either to area or to population. The diagrams are all of the simple *linear* charactor, in which comparisons are shown by extent in one dimension only. Of the many kinds of diagrams hitherto used in the illustration of statistical facts, this form is at once the simplest and the most effective.

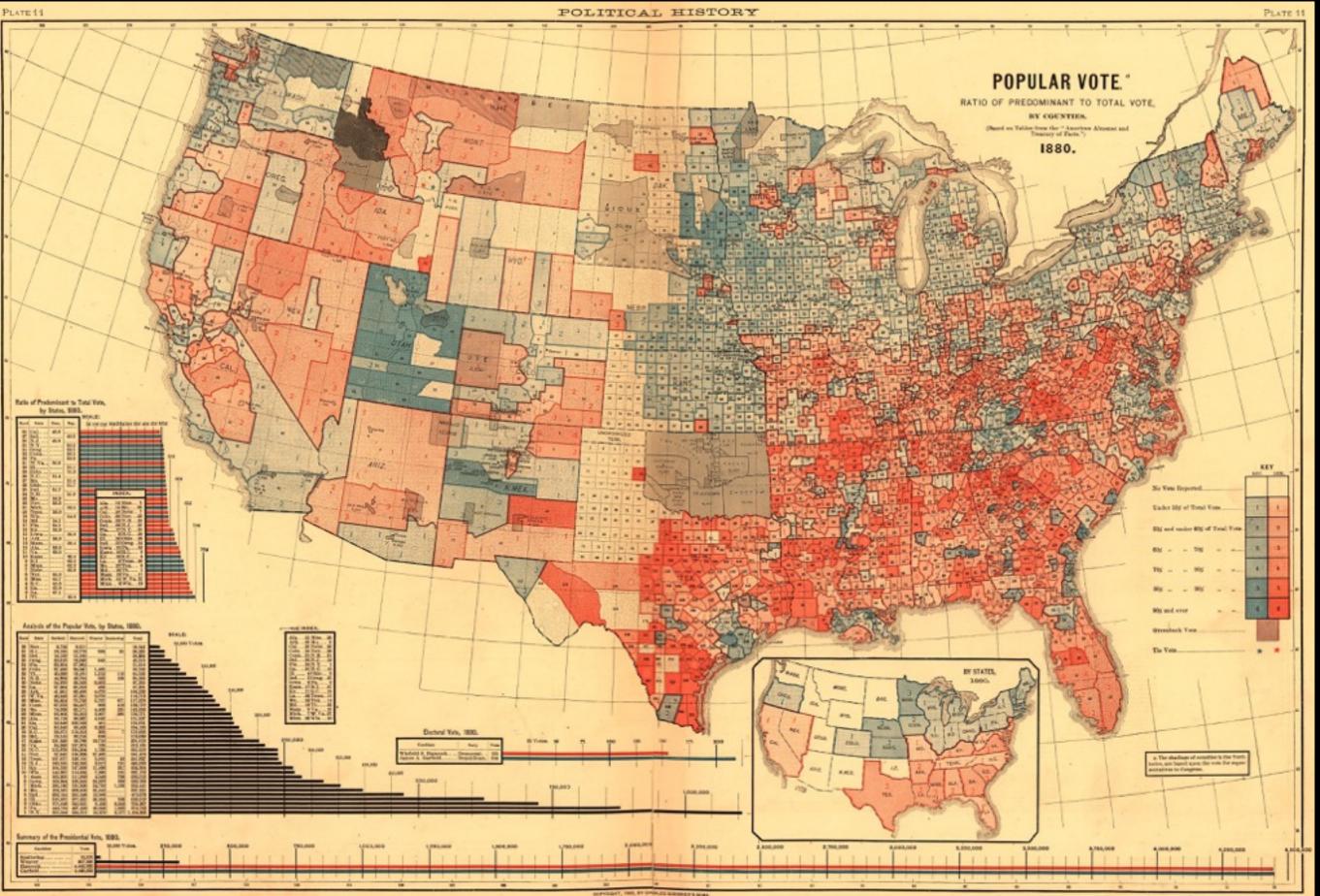
The maps of the United States employed, are of three sizes: A folio map, in which the county is the unit of comparison; a state map, covering half a page, the data for which were first plotted by counties on the larger map and transferred, with such modifications as the reduction required; and a miniature map, for representing the

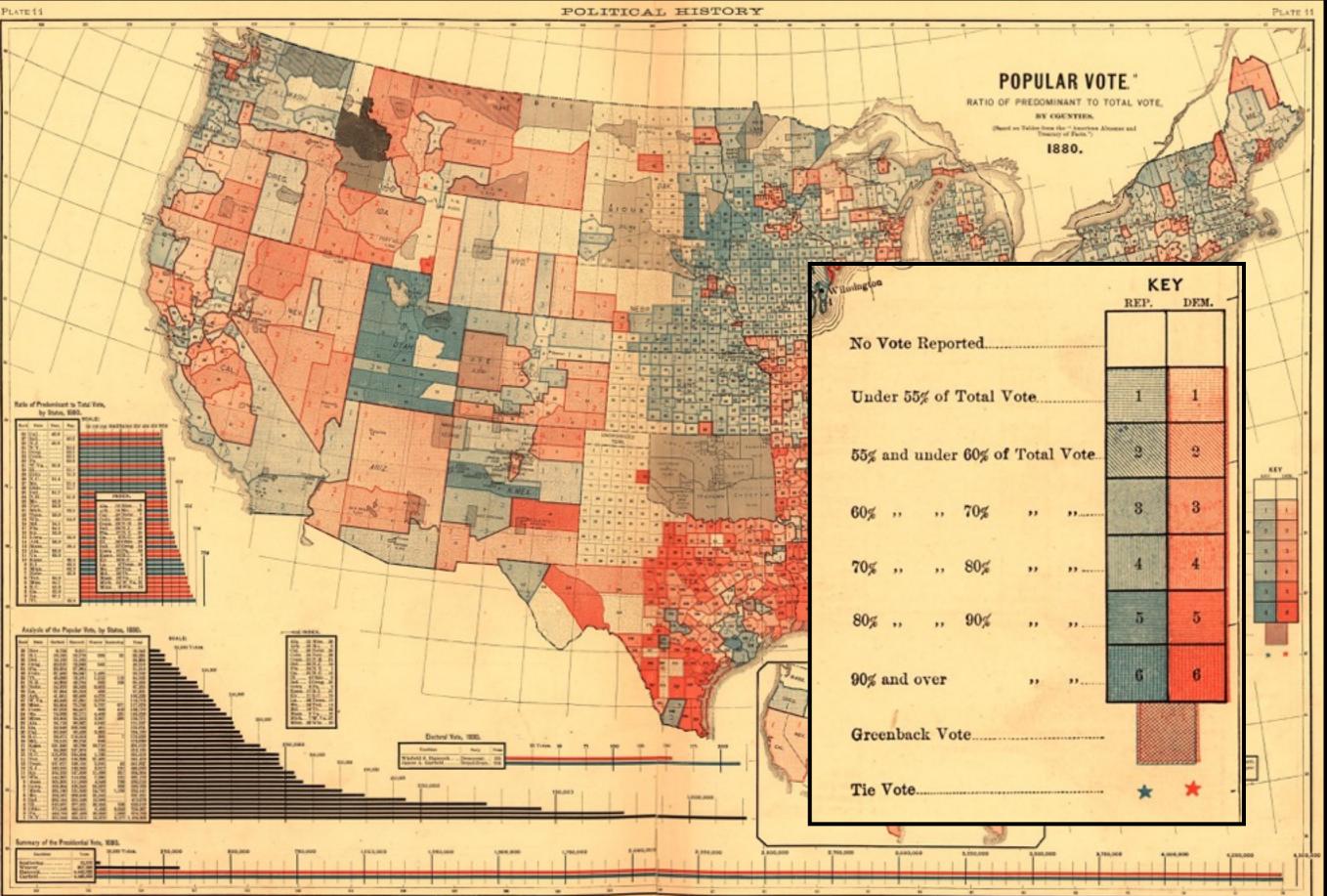
### "The study of statistics, with the means ordinarily at command, is a dry and difficult one."

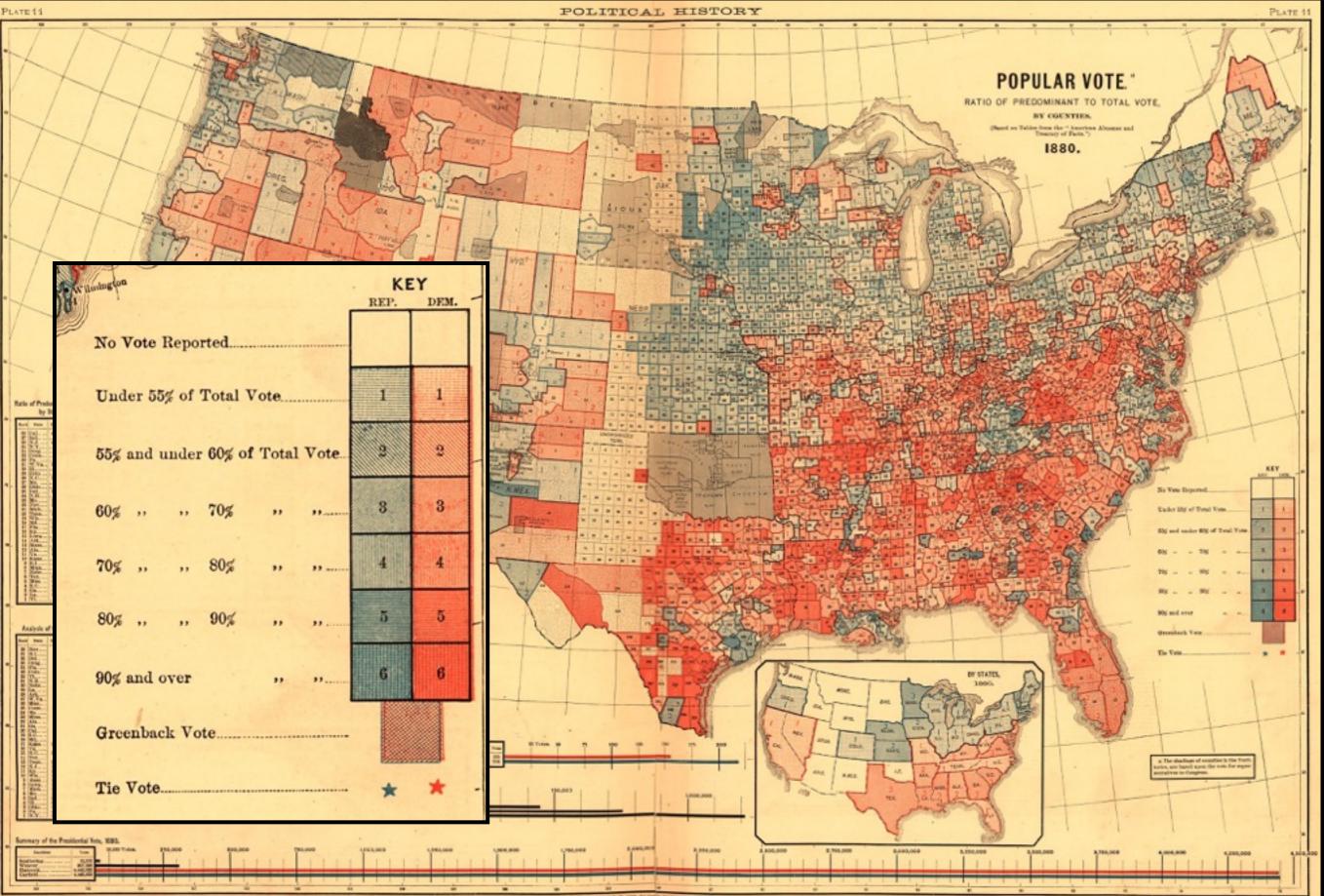
### -PREFACE OF SCRIBNER'S STATISTICAL ATLAS

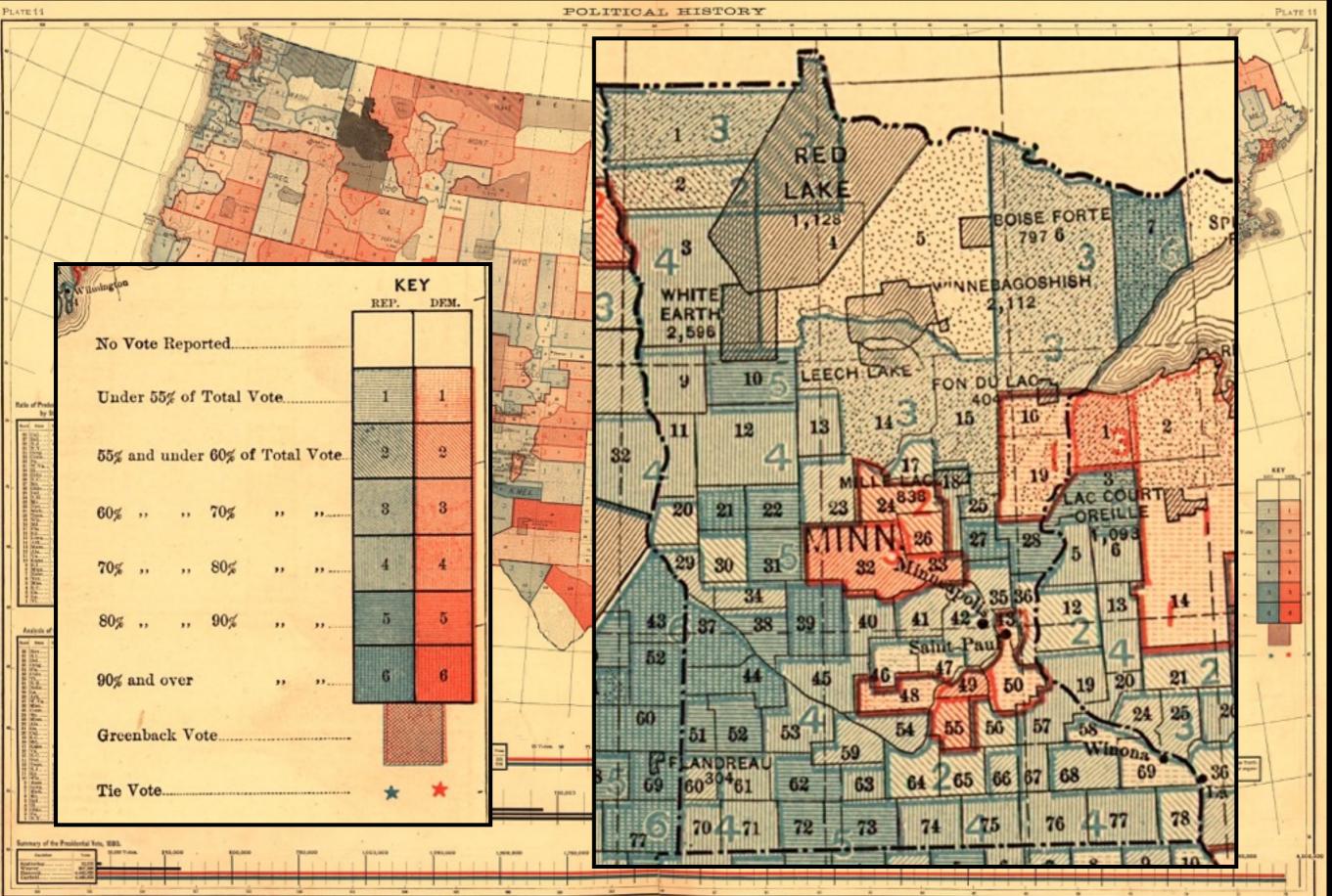
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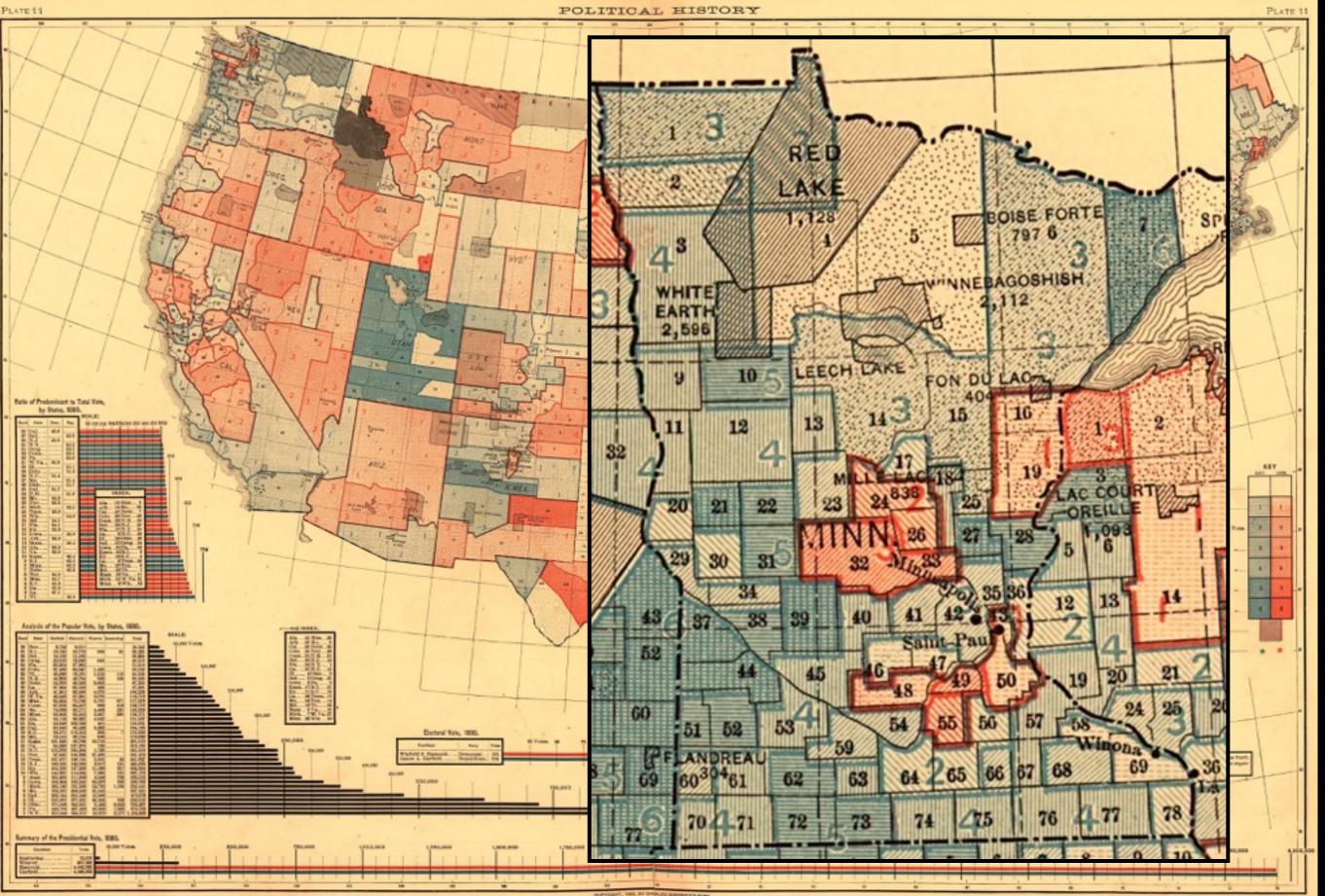
Let these facts be expressed not alone in figures, but graphically, by means of maps and diagrams, appealing to a quick sense of form and color and "clothing the dry bones of statistics in flesh and blood," and their study becomes a delight rather than a task. The density of settlement, the illiteracy of the people, the wealth or poverty of different sections, and many other features of great importance, hitherto but vaguely comprehended, are made to appear at a glance, and are so vividly impressed as not to be easily forgotten. By such aids not only the statistician and political economist, but the masses of the people, who make public sentiment and shape public policy, may acquire that knowledge of the country and its resources which is essential to intelligent and successful government.

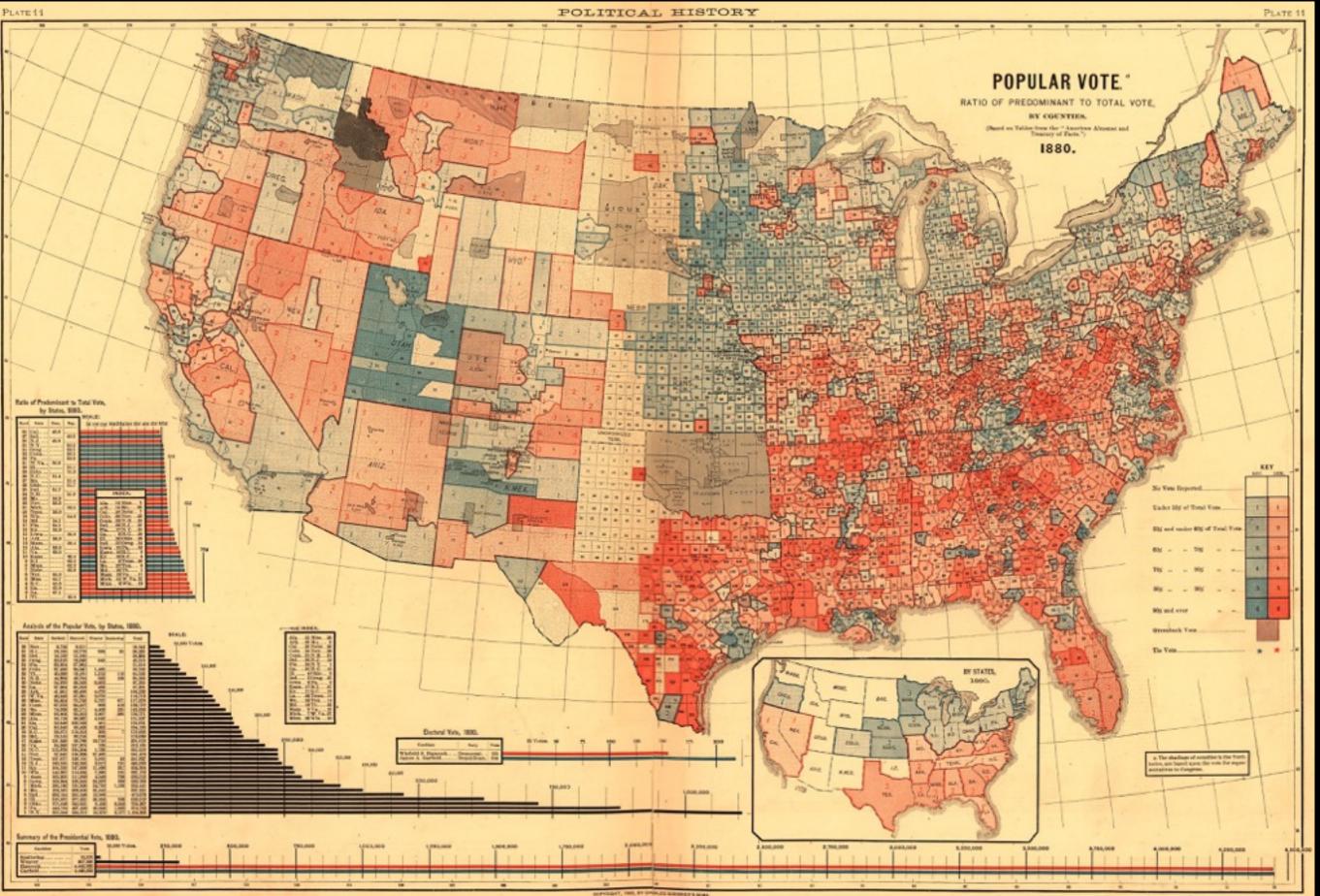


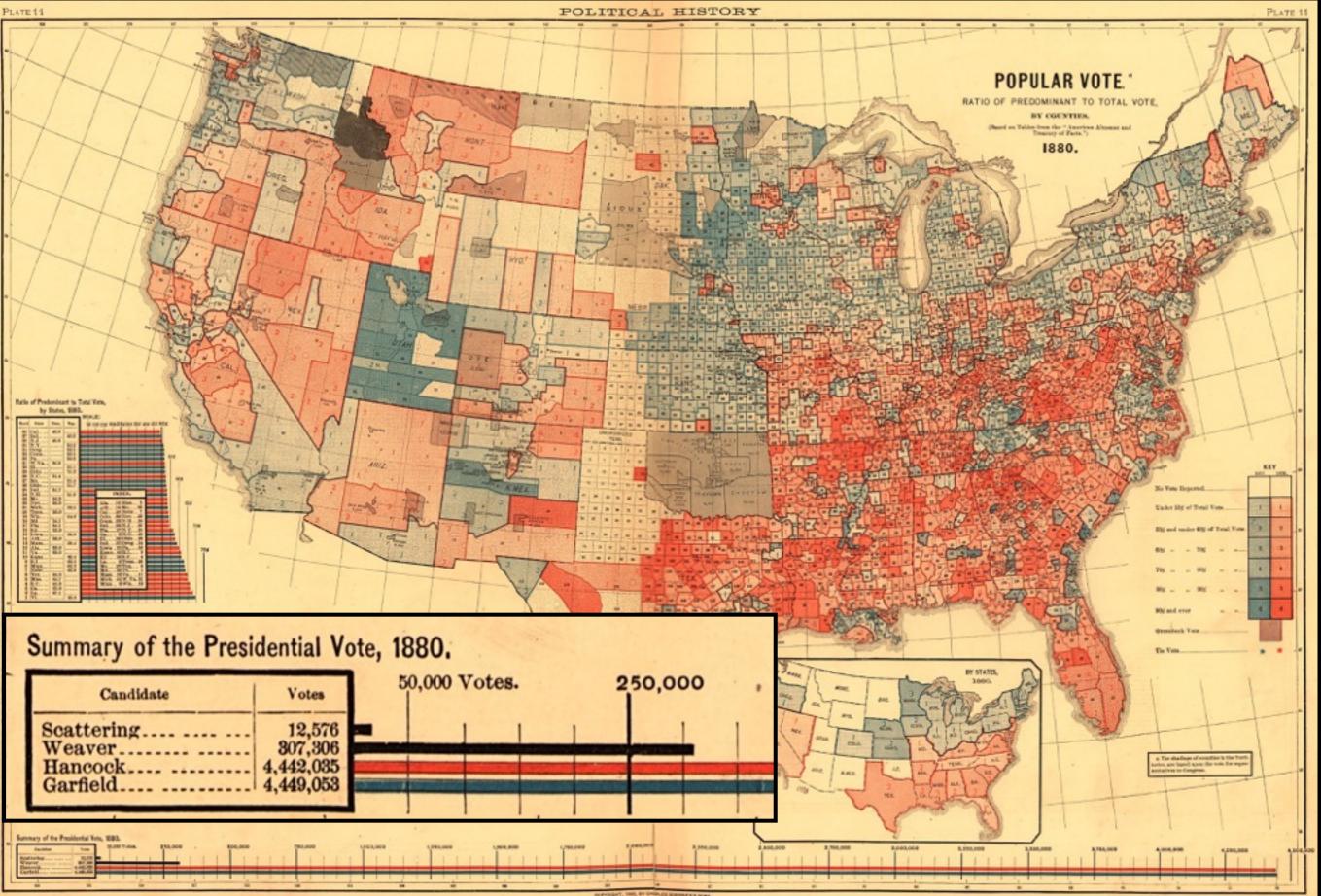


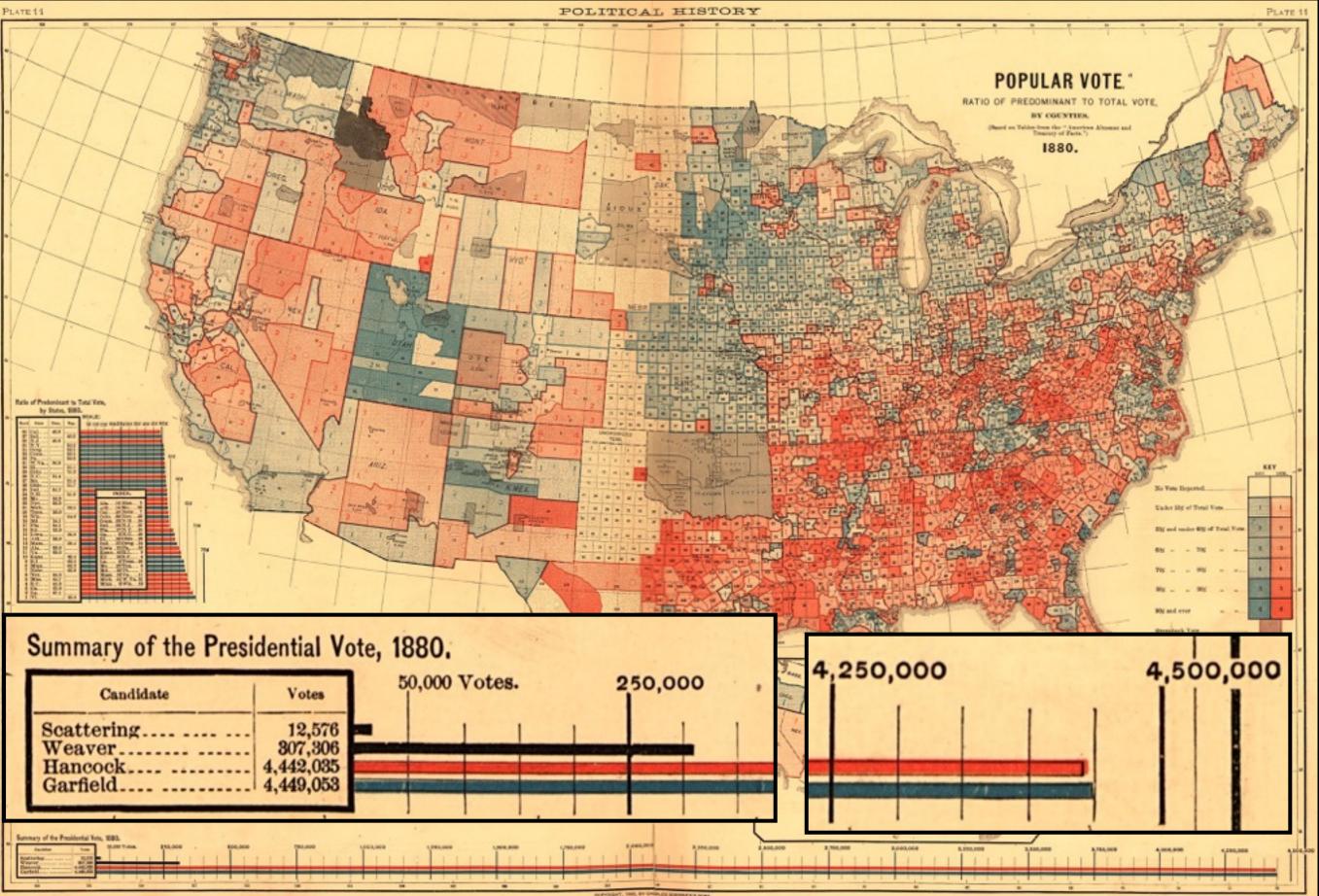


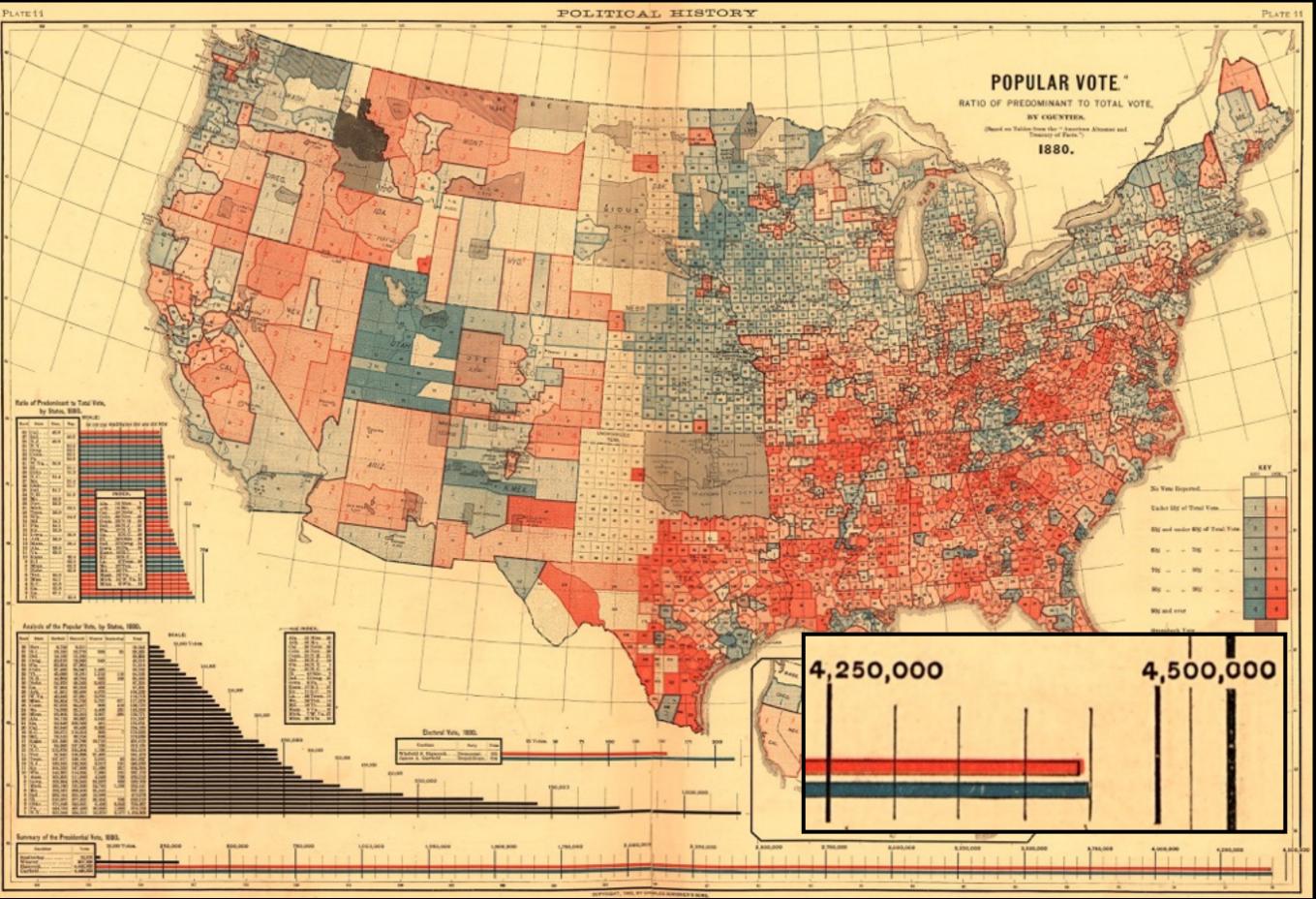


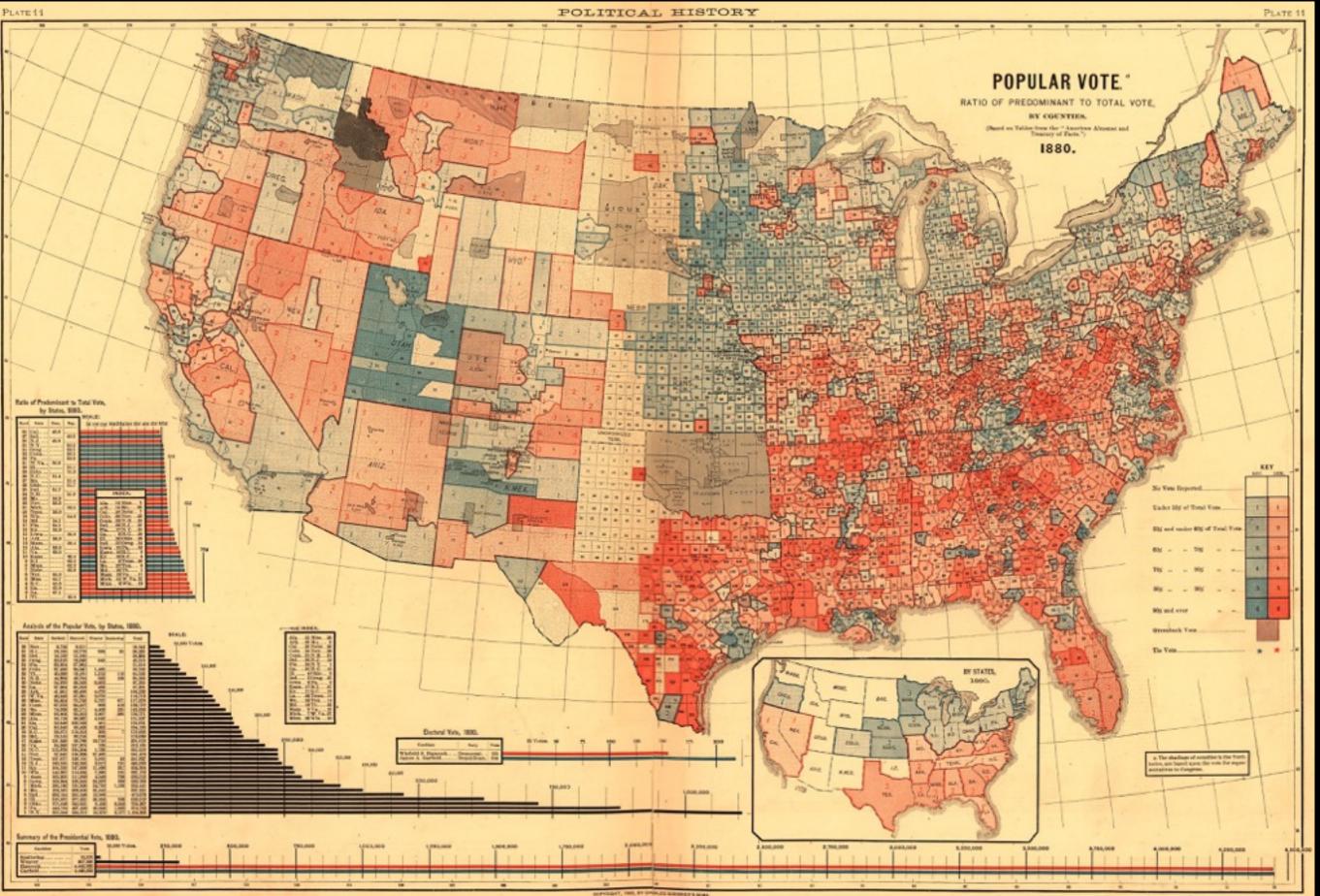


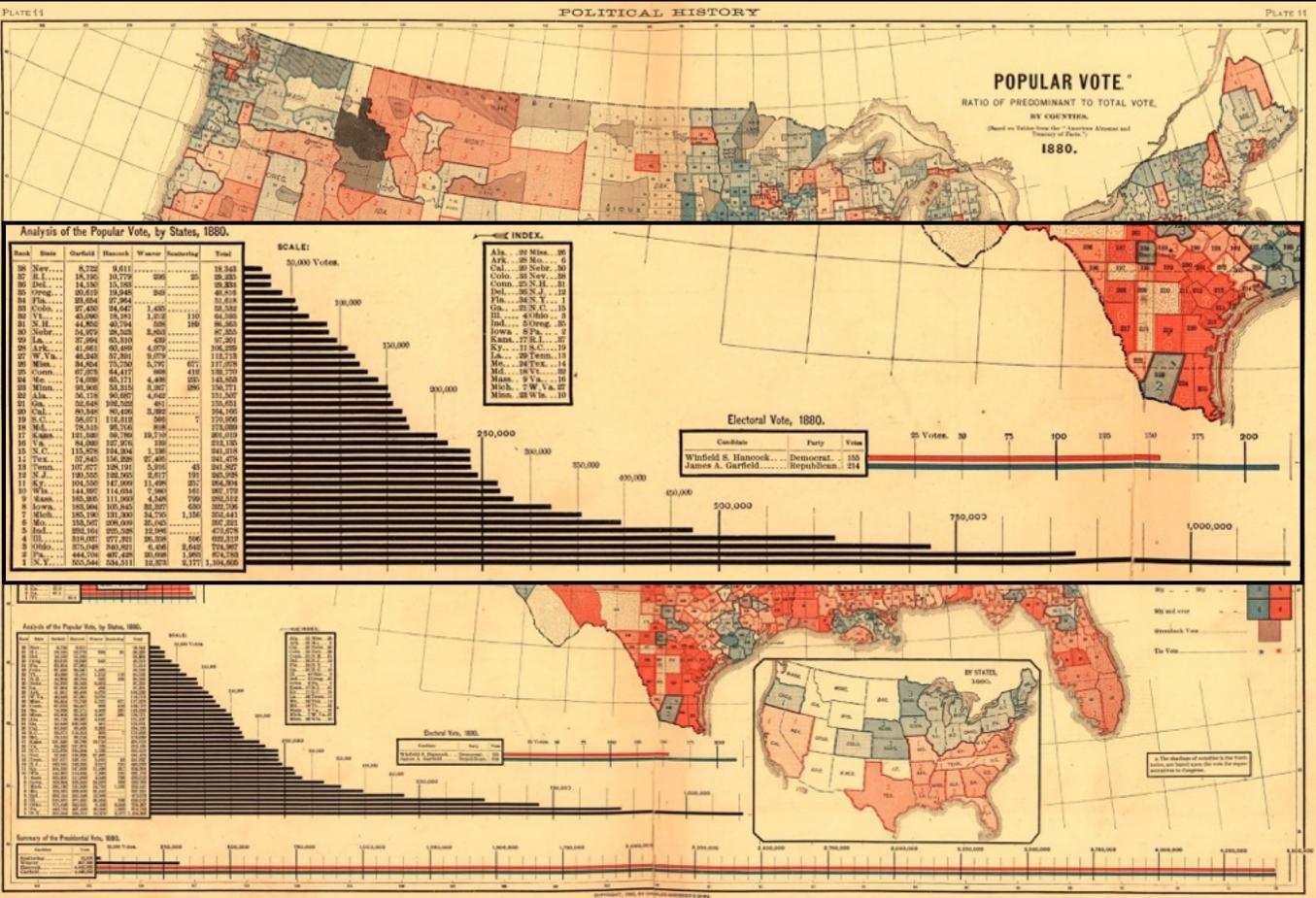


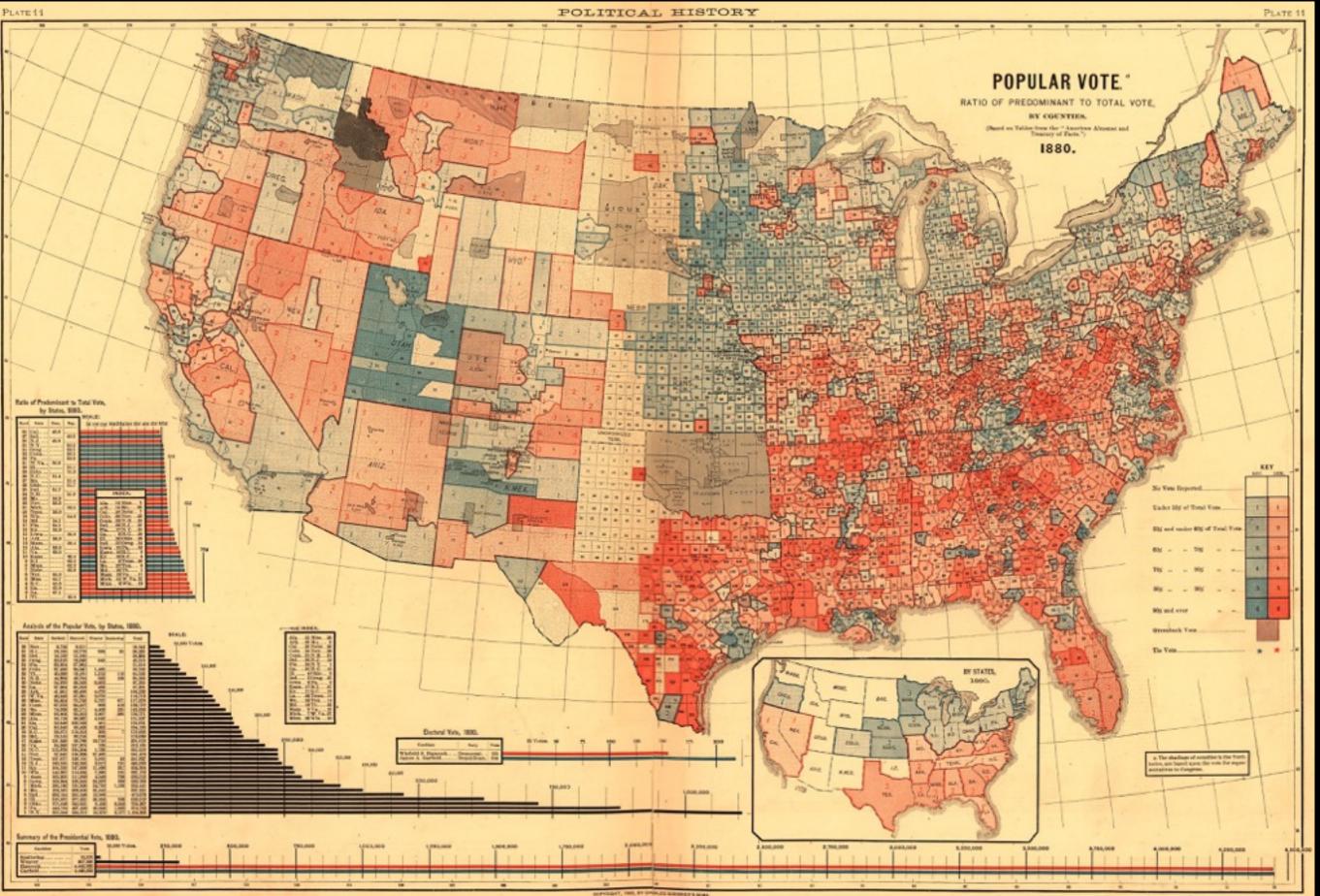


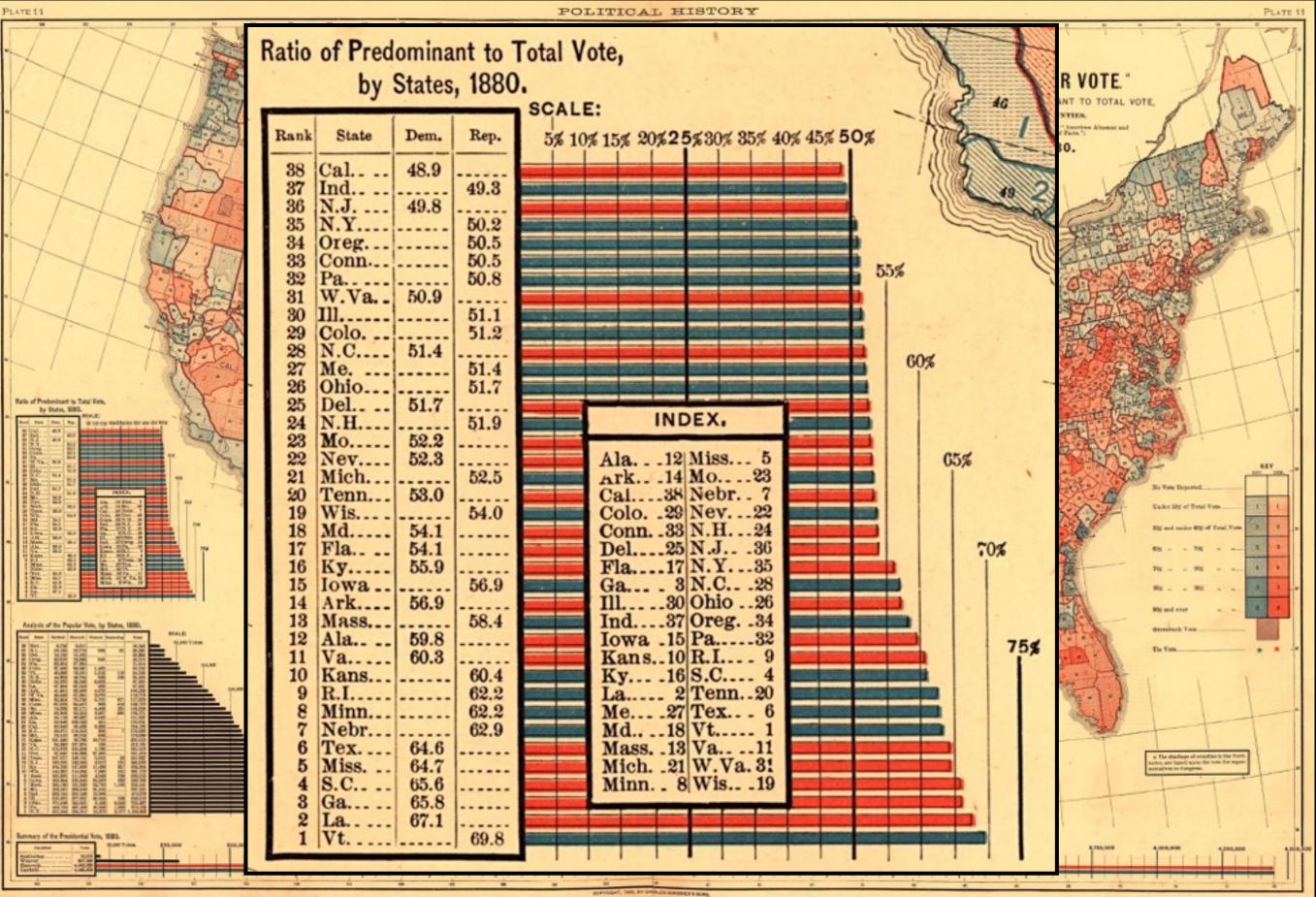












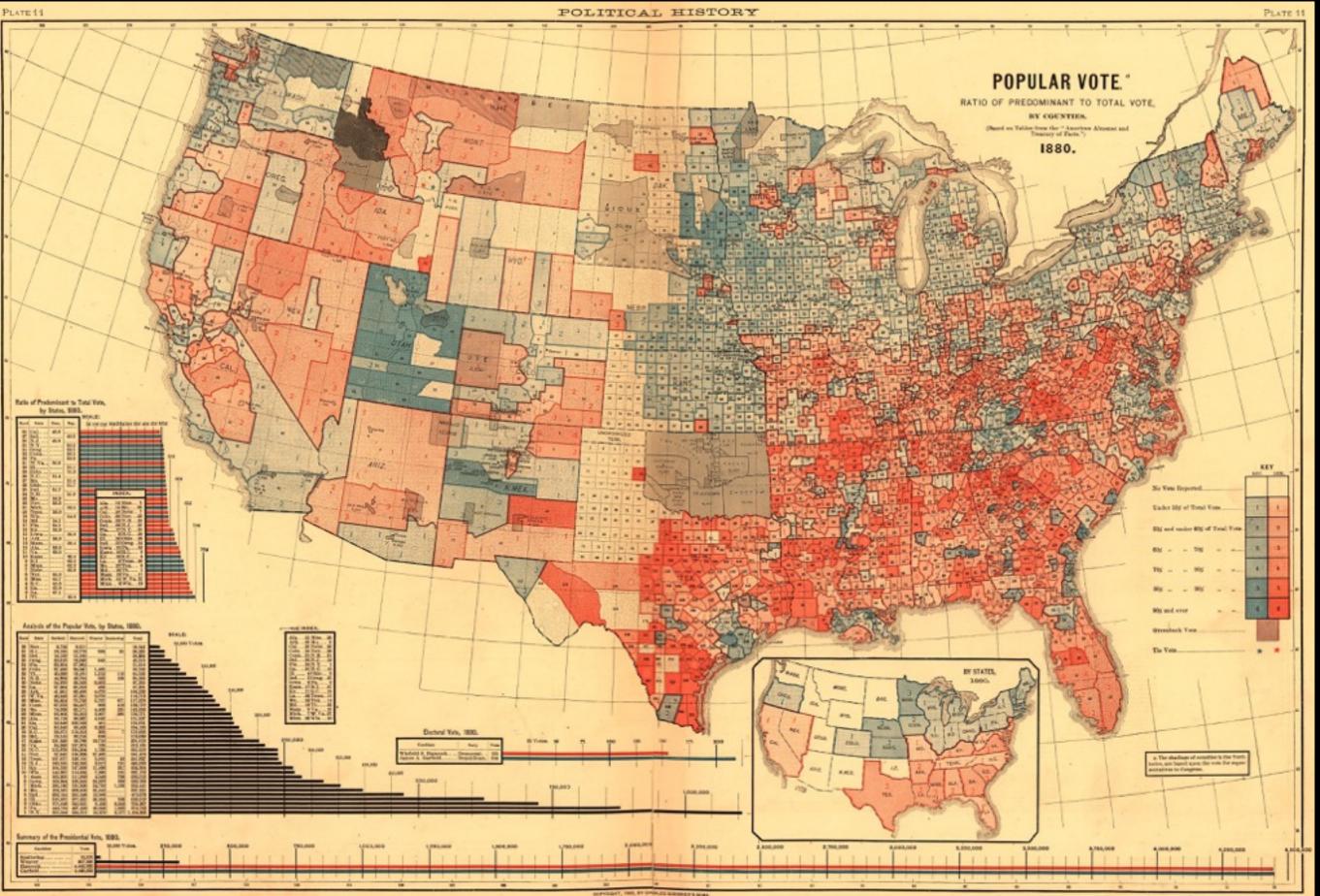
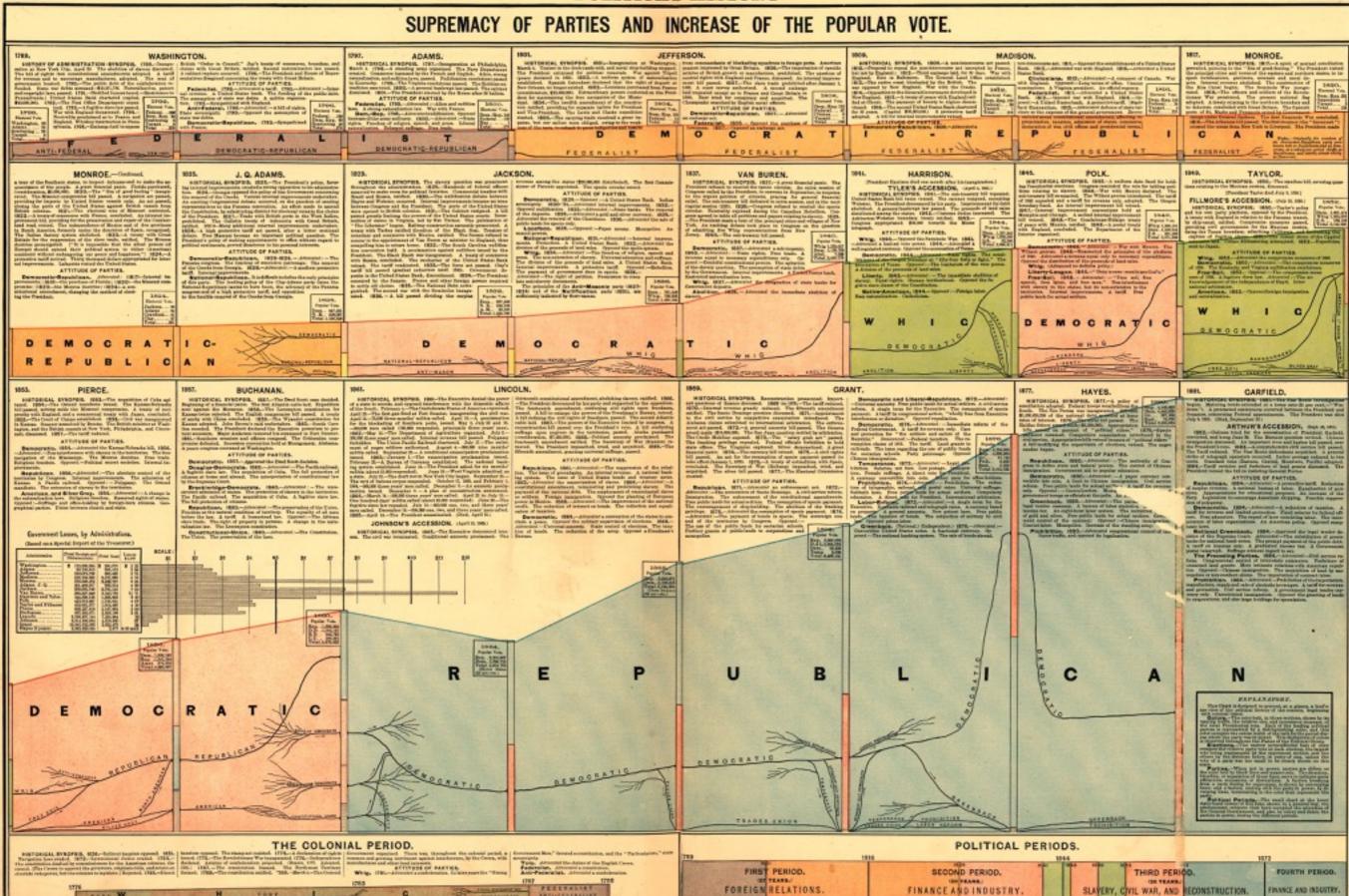


PLATE 6

POLITICAL HISTORY

PLATE 6



ANTI-FEDERALIET.

PLATE 6

POLITICAL HISTORY

PLATE 6

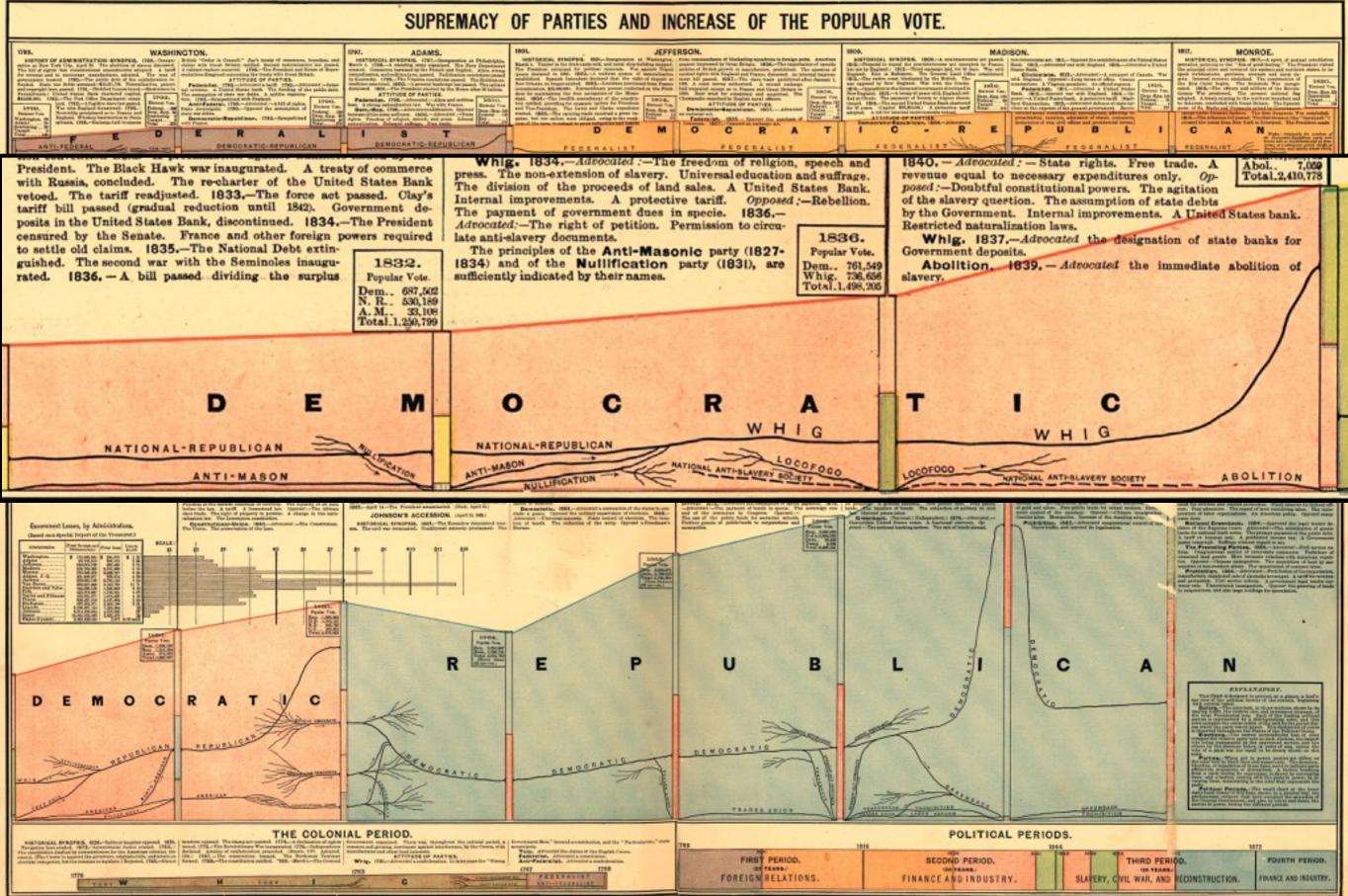
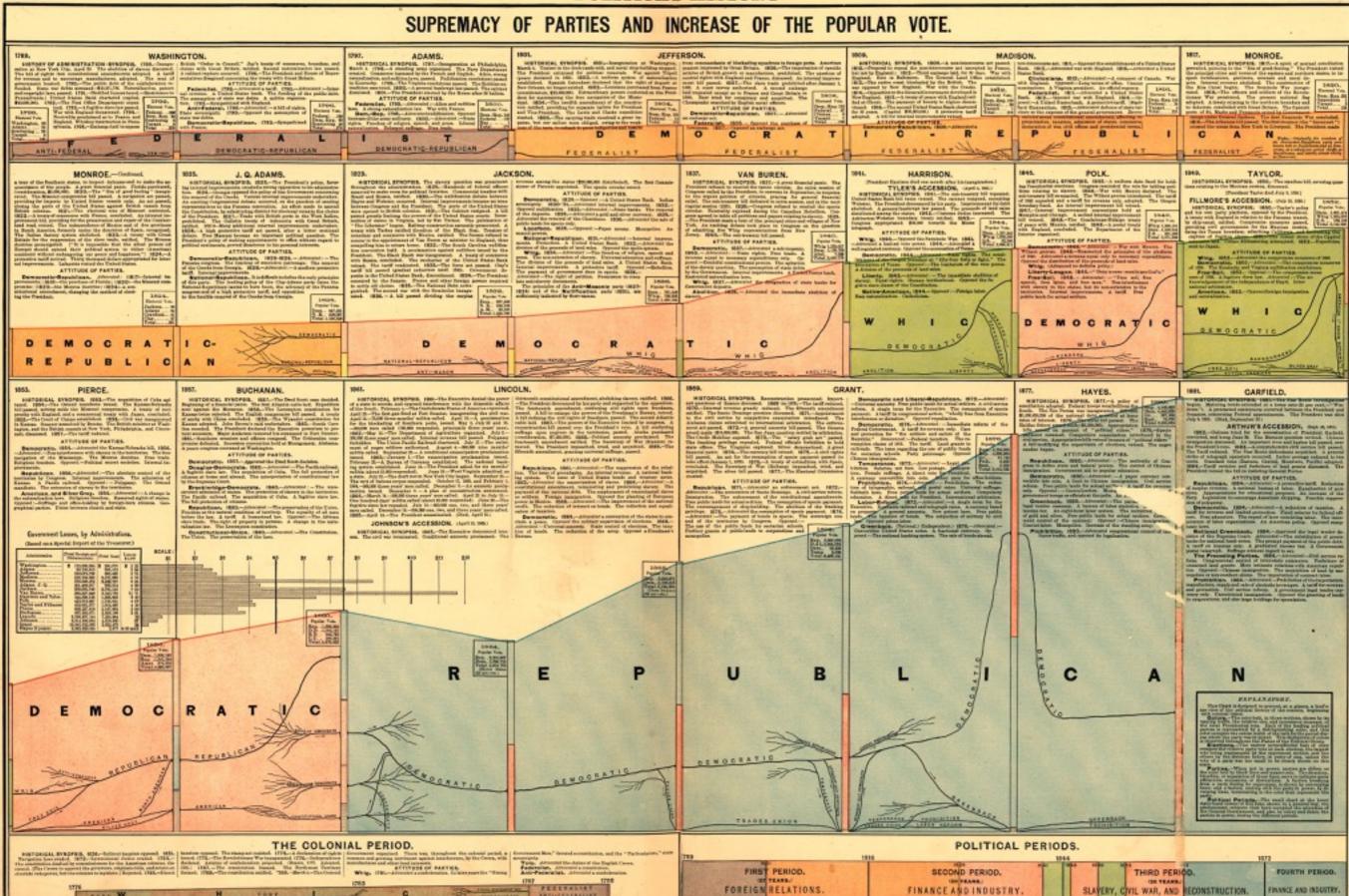


PLATE 6

POLITICAL HISTORY

PLATE 6



ANTI-FEDERALIET.

#### 1869.

#### SCRIE

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<ul> <li>processes of the proofs - 4 prove threads path. Further particle pro- trends thread and the proof - 10 million - 20 million - 10 milli</li></ul>	financial pass bill passed, take effect, concluded, acquitted, created, <b>Repub</b> Advocated : Immigration Free public The encour privilege. I Advocated trol of the The use of Further gra- monopolies.
presider 1828-the Morris thereine (1824-4 and ethniced secondares), charging the method of deet	

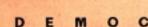
DEMOCRA EPUBL

#### PIERCE

1001-1







HISTORICAL SYNOPSIS. Reconstruction prosecuted. Important questions of finance discussed. 1869 (to 1873) .- The tariff reduced. 1870,-Internal revenue greatly reduced. The fifteenth amendment ratified. The Santo Domingo question discussed. 1871,-Appointment to the civil service by competitive examination introduced. The Alabama claims submitted to international arbitration. The enforcement act passed. 1872 .- A general amnesty bill passed. The Geneva ward made (\$15,000,000). The San Juan question settled by arbitration. The Credit Mobilier exposed. 1873 .- The "salary grab act" passed. The franking privilege repealed. Federal officials forbidden to hold tate offices. The Virginius captured. Silver demonetized. A great inancial panic. 1874,-The currency bill vetoed. 1875,-A civil rights bill passed. An act for the resumption of specie payment passed (to ake effect January 1, 1879). 1876 .- A treaty of extradition with Spain, oncluded. The Secretary of War (Belknap) impeached, tried, and equitted. The silver bill passed. 1877 .- The Electoral Commission reated.

#### ATTITUDE OF PARTIES.

Republican. 1871 .- Advocated an enforcement act. 1872 .-Idvocated :- The annexation of Santo Domingo. A civil service reform. mmigration. The enforcement of the constitutional amendments. Free public lands for actual settlers. The resumption of specie payment. The encouragement of ship-building. The abolition of the franking rivilege. 1875,-Advocated the resumption of specie payment. 1876. Advocated :- The payment of bonds in specie. The sovereign con-

rol of the territories by Congress. Opposed :he use of the public funds for sectarian schools. 1828. urther grants of public lands to corporations and Popular Vote.

DEMOCRATI

TRADES UNION

#### GRANT.

Rep. 3,597,070 D.4 L.2,834,070

B

29,409 otal. 6,466,165

Democratic and Liberal-Republican. 1872.-Advocated : -Universal amnesty. Free public lands for actual settlers. A civil service reform. A single term for the Executive. The resumption of specie payment. A tariff by congressional action, "wholly free from Executive interference or dictation." Opposed repudiation.

Democratic. 1876 .- Advocated : - Immediate reform of the Federal Government. A tariff for revenue only. Care and protection for "the soldiers and sailors of the

Republic." Denounced :-Federal taxation. The resumption clause of 1875. The tariff. Land grants to railroads. The issue regarding the use of public funds for sectarian schools. Party patronage. Opposed Chinese immigration.

Temperance, 1872,-Advocated; - Legal pro-Total.8,412,733

Temperance. 1872.—Advocated: - Legal pro-hibition. Salaries, not fees. Low postage. Lamigra-tion. Female suffrage. A direct vote for President. A currency convertible into coin. Sober men for office-holders. Prohibition. 1876.—Advocated : - Prohibition. The reduc-tion of telegraphic, railroad, and postal rates. Universal suffrage. Sabbath laws. Free public lands for actual settlers. Compulsory education. A direct role for President. International arbitration. Labor-Reform. 1872.—Advocated :-- A single term for the Executive. Equilable railroad and telegraph rates. A currency based

Executive. Equitable railroad and telegraph rates. A currency based on property: A general amnesty. New patent laws. Free public lands. The taxation of bonds. The subjection of military to civil law. Opposed prison labor.

TEMPERANCE

RADES UNION

PROHIBITION

LABOR REFORM

Greenback. (National.) (Independent.) 1876 .- Advocated :-Convertible United States notes. A fractional currency. Opposed :-- The national banking system. The sale of bonds abroad.

HAYES.

1877.

1876,

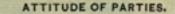
Popular Note.

Dean. 4,284,885 Rep. .4,033,950

81,740 9,522

2.634

HISTORICAL SYNOPSIS. 1877 .- A policy conciliation adopted. Federal troops recalled from th South. The Nez Perces war inaugurated. 1877-185 \$1,030,628,200 of the national debt re-issued at low rates of interest. 1878, The silver bill passed. The Halifax fishery award made (\$5,500,000). Appropriation bills yetoed on account of "political riders." payment resumed. Competitive examination in civil service. Appropriation bills vetoed because of " A bill modifying the supervision of elections, ve exodus began.



Republican. 1880,-Advocated ; - The av gress to define state and federal powers. The co immigration. Government aid to popular educati

Democratic. 1880 .- Advocated : - A pape vertible into coin. A limit to Chinese immigrati reform. Free public lands for actual settlers. A only. Opposed : - Centralization. Monop government troops or officials at the polls. An e.

Greenback. 1880 .- Advocated :- The pays legal tender currency. A bureau of labor statisti income tax. An eight-hour labor system. The u of gold and silver. Free public lands for actual s ment control of the currency. Opposed :--Chine Convict labor. Monopolies. Increase of the stand Prohibition. 1880,-Advocated congression liquor traffic, and opposed its legalization.

MOCR

MONROE

PLATE 6

DERALIST TAYLOR.

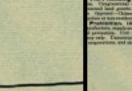
LMORE'S ACCESSION, INC. II.



ENOGRAT

CARFIELD.

ARTHUR'S ACCESSIO



GREENBACK

PROHIBITION



CONSTRUCTION.



FOURTH PERIOD.

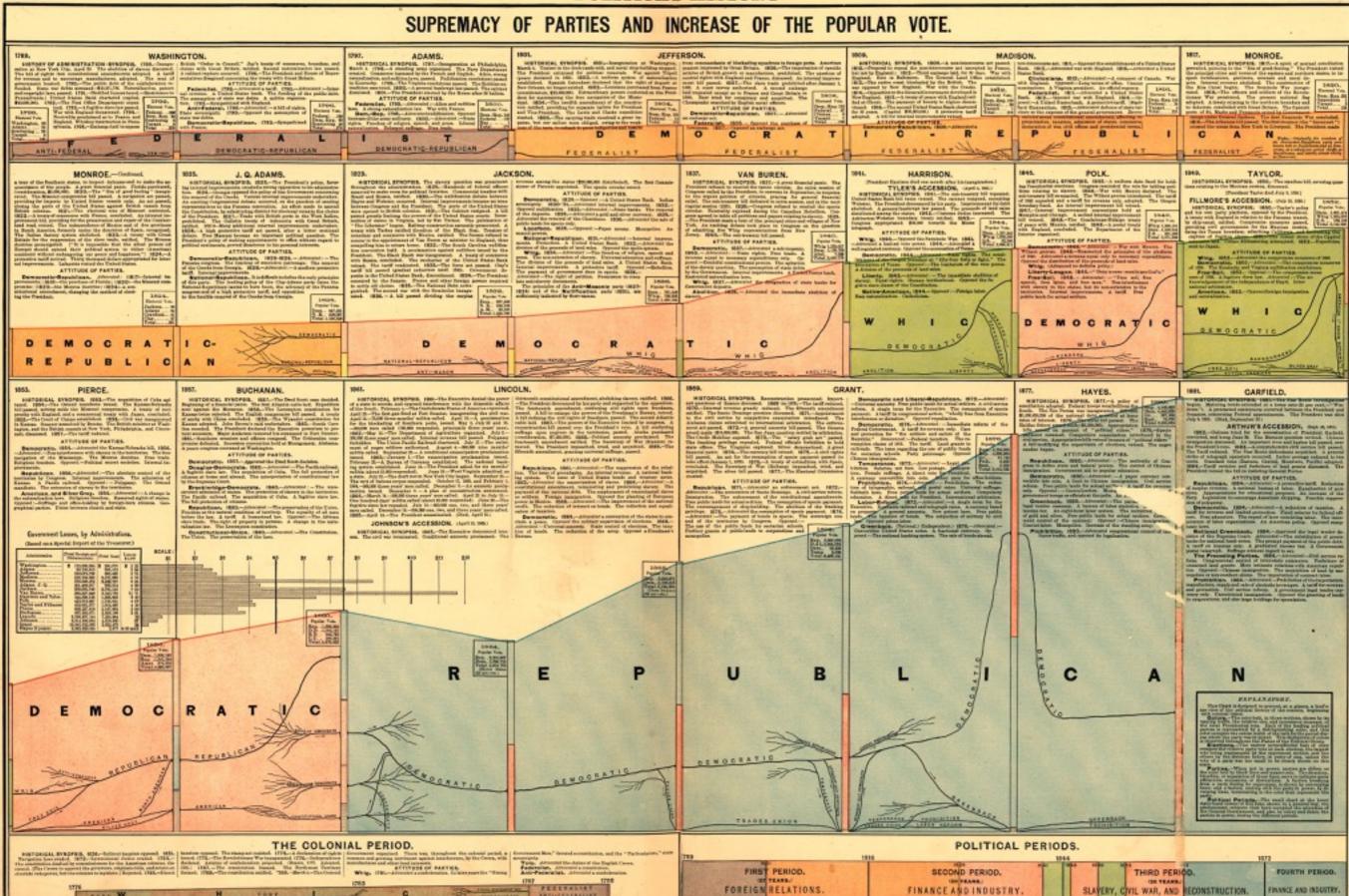
FINANCE AND INDUSTRY.

#### SCRIBNER'S STATISTICAL ATLAS, 1890

PLATE 6

POLITICAL HISTORY

PLATE 6



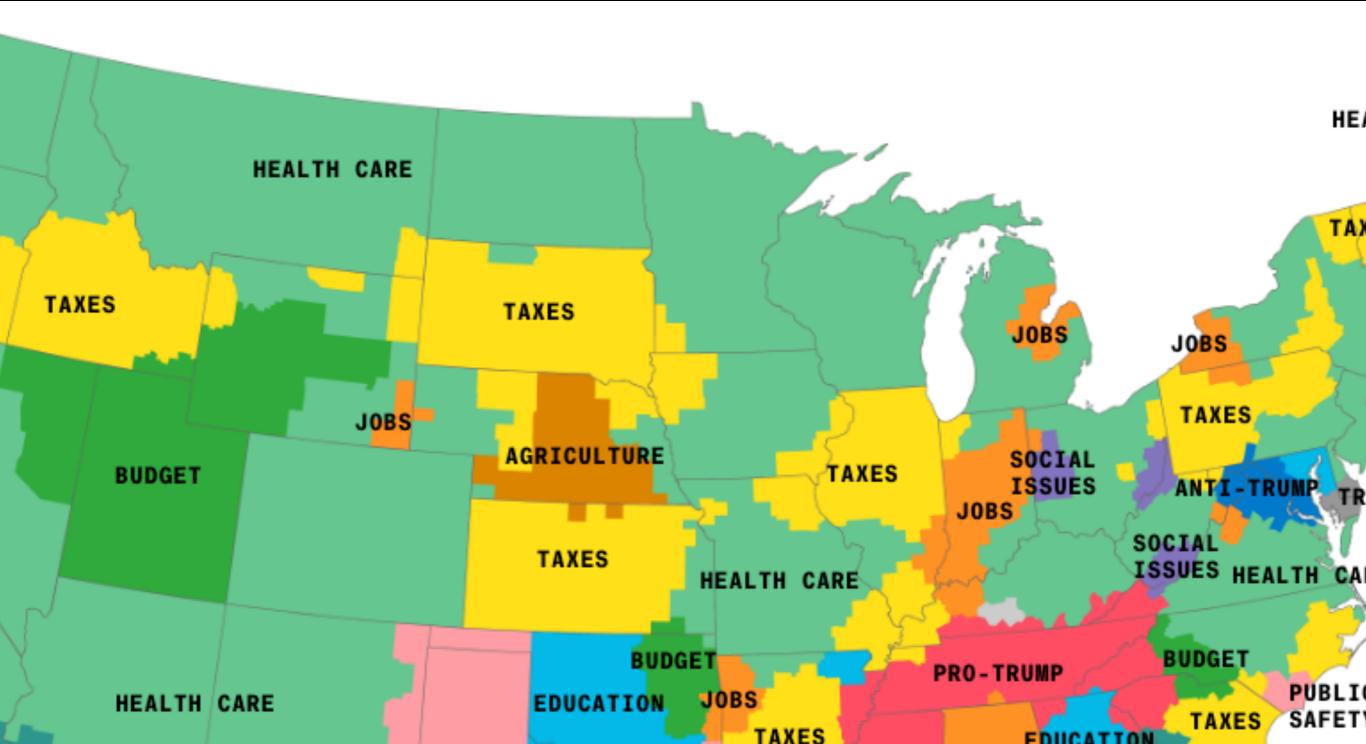
ANTI-FEDERALIET.

## INNOVATION IN MODERN ELECTION GRAPHICS

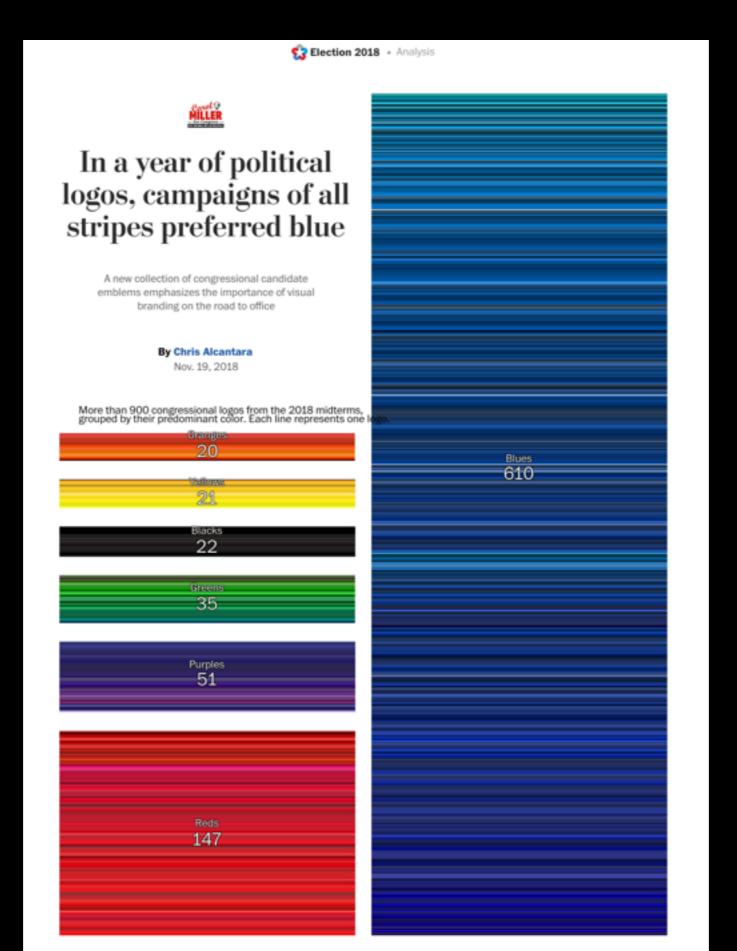
Lots of data, so lots of approaches:

- Results
- ➡ Turnout
- Predictions
- Campaigns and advertising
- Other fun innovations!

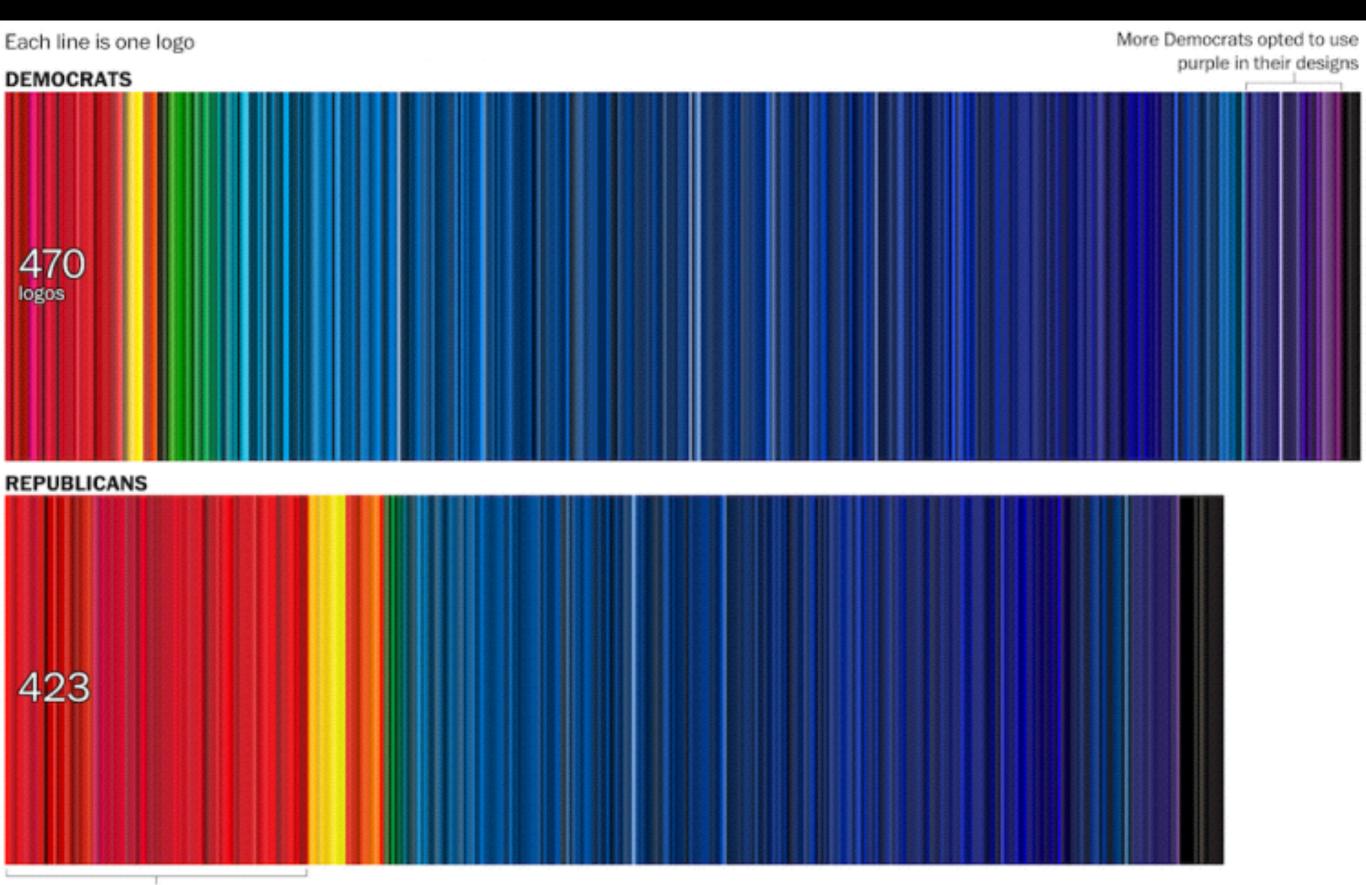
# CAMPAIGNS & ADVERTISING



#### WASHINGTON POST: COLOR IN CAMPAIGN LOGOS



#### WASHINGTON POST: COLOR IN CAMPAIGN LOGOS



Republicans didn't shy away from their flagship color

Bloomberg

# What the 2018 Campaign Looks Like in Your Hometown

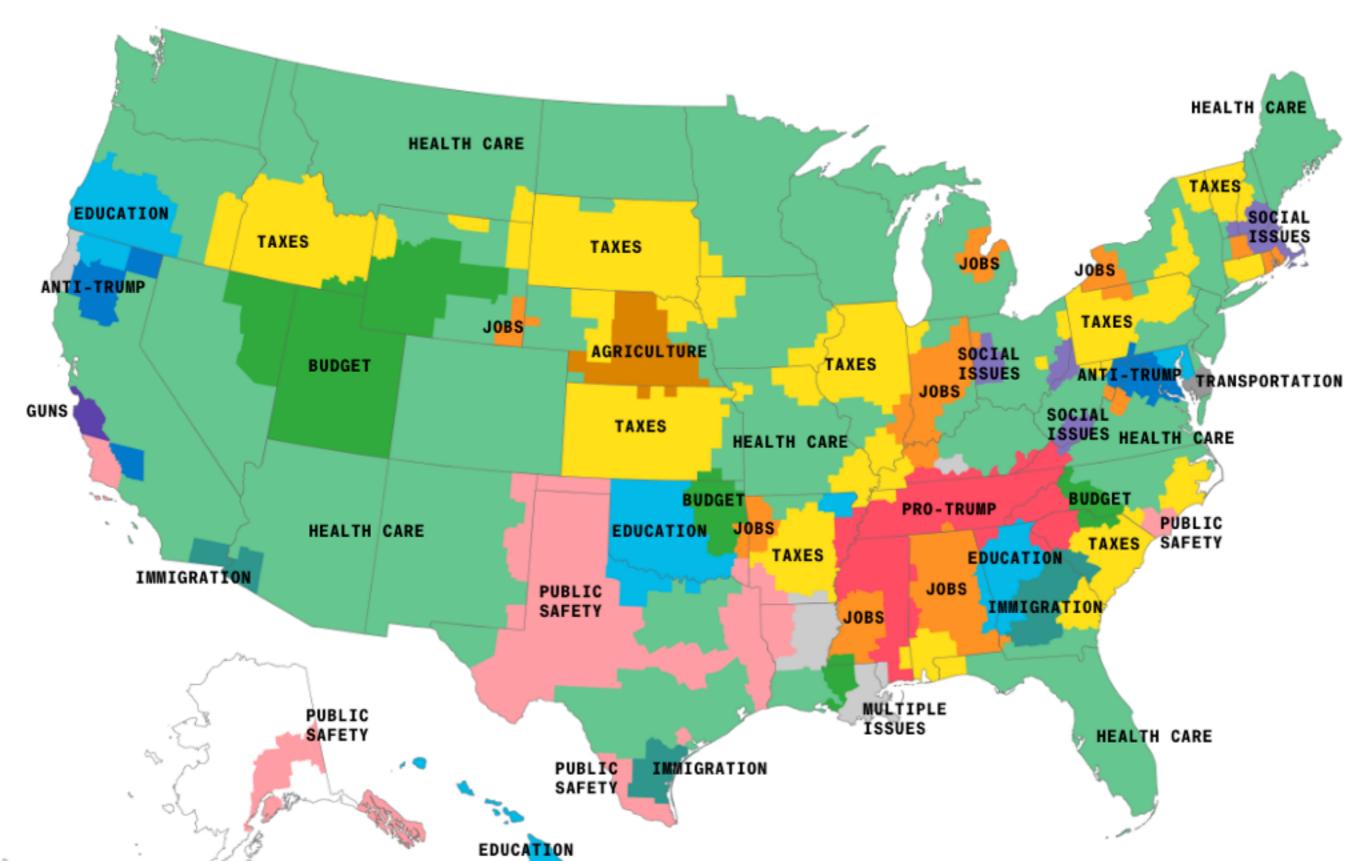
By <u>Demetrios Pogkas</u> and <u>David Ingold</u> November 2, 2018

With a few days to go until the midterm elections, campaigns across the country are making their last push to sway voters on Tuesday. But the dominant themes of election ads that voters have seen on television look very different depending on where you live.

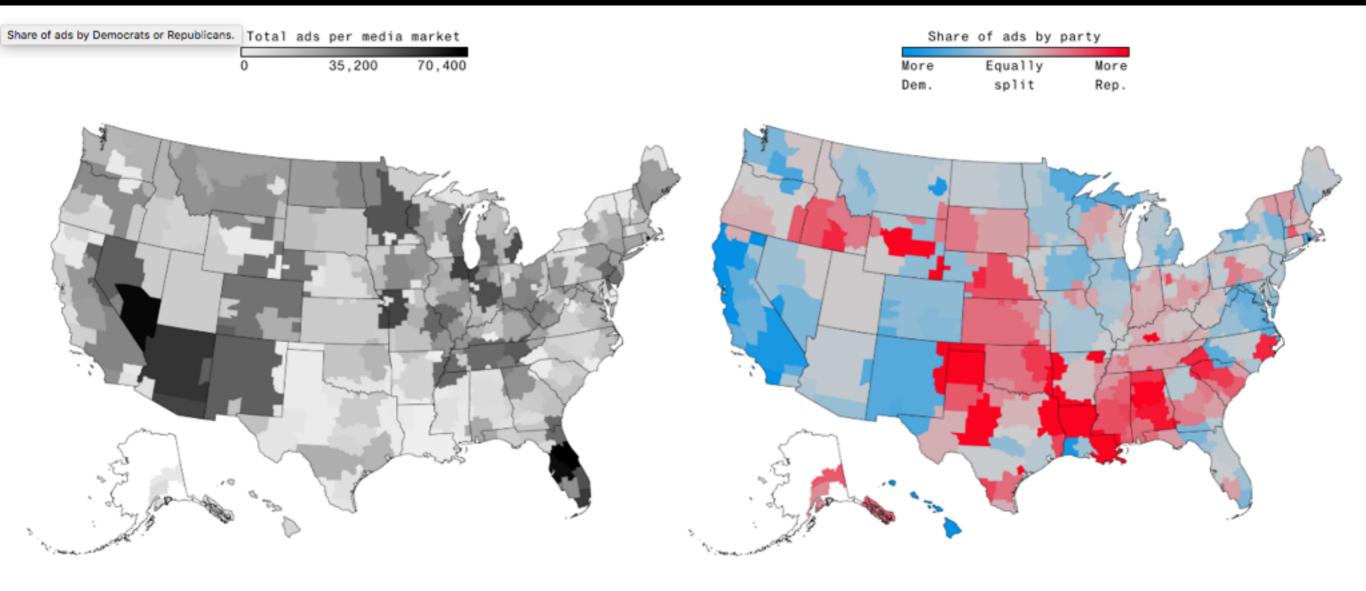
For much of the nation, health care has been the central talking point of 2018. It's the most commonly mentioned congressional and gubernatorial campaign topic in television ads in 45 percent of local media markets this year, according to data provided by Kantar Media/CMAG.

The Big Issues You're Seeing on TV: Health Care, Taxes and Jobs

Issue mentioned most often in ads in House, Senate and gubernatorial races in 2018, by Nielsen media market

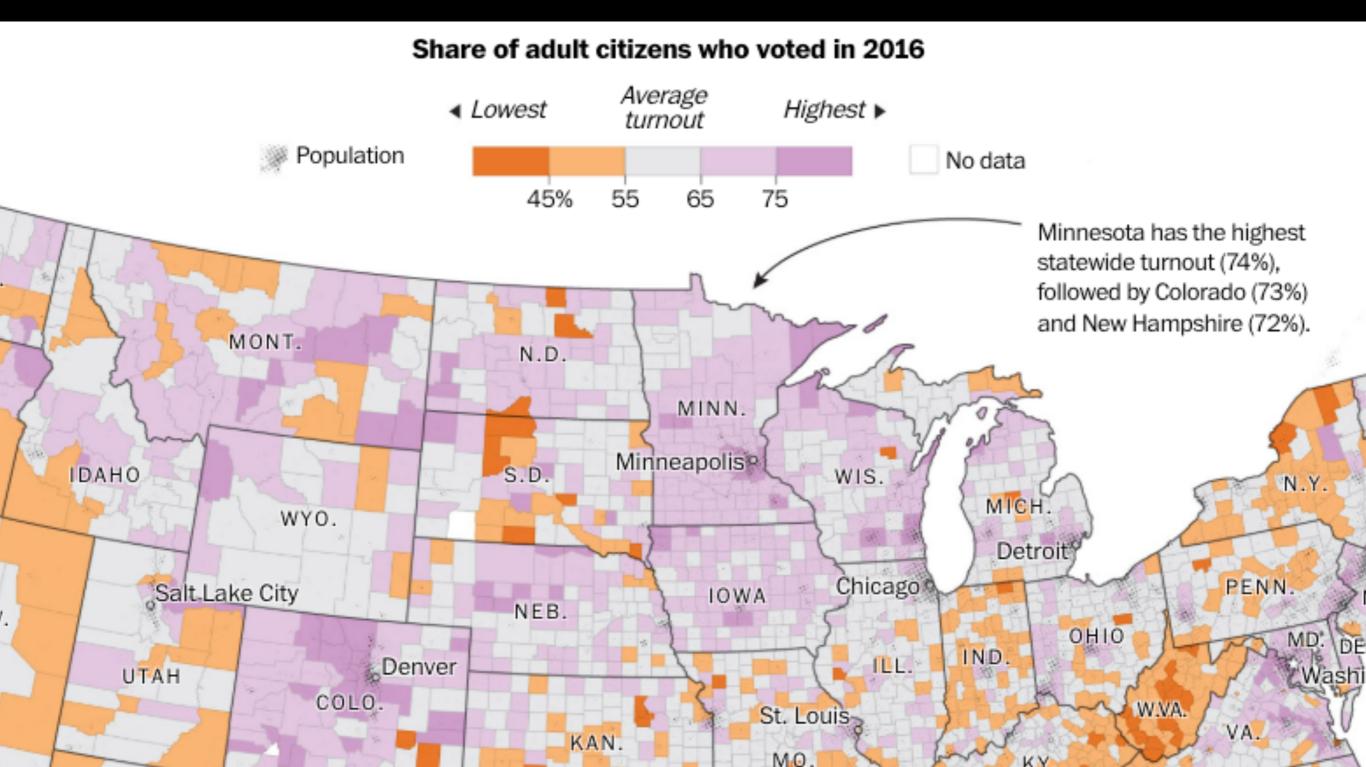


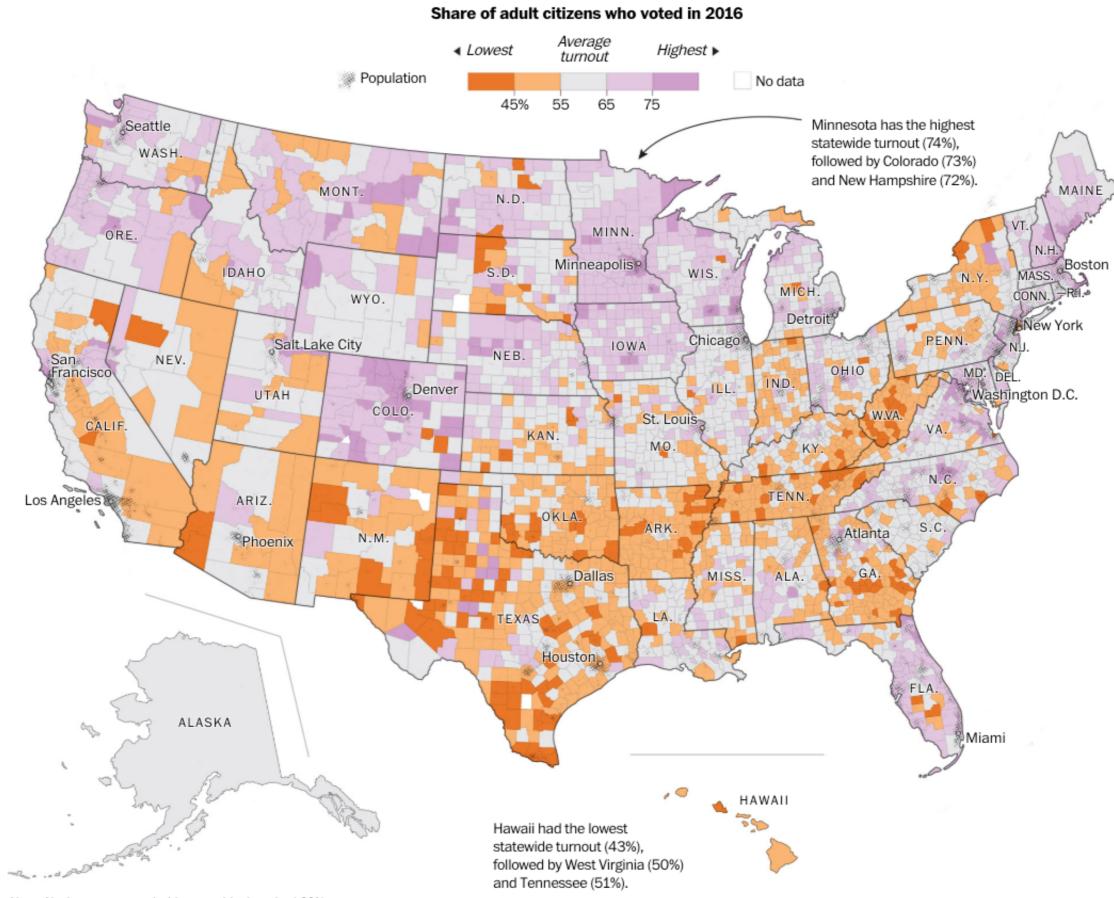
Supportive of Trump



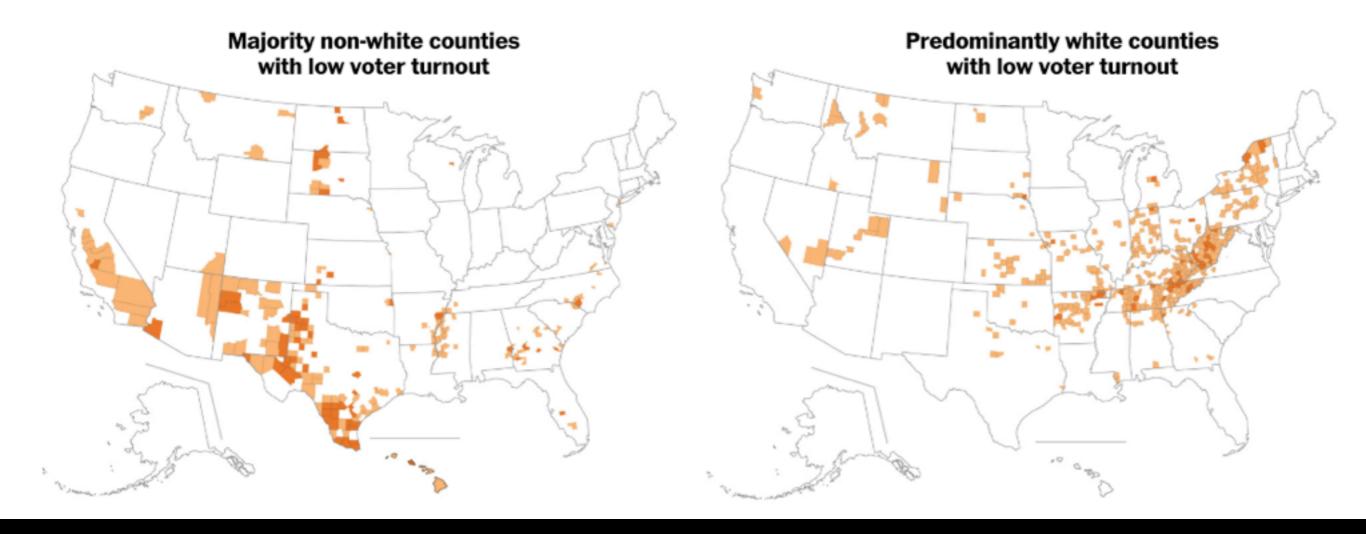
## NEW YORK TIMES TV AD SPENDING, 2016 (AND EARLIER)

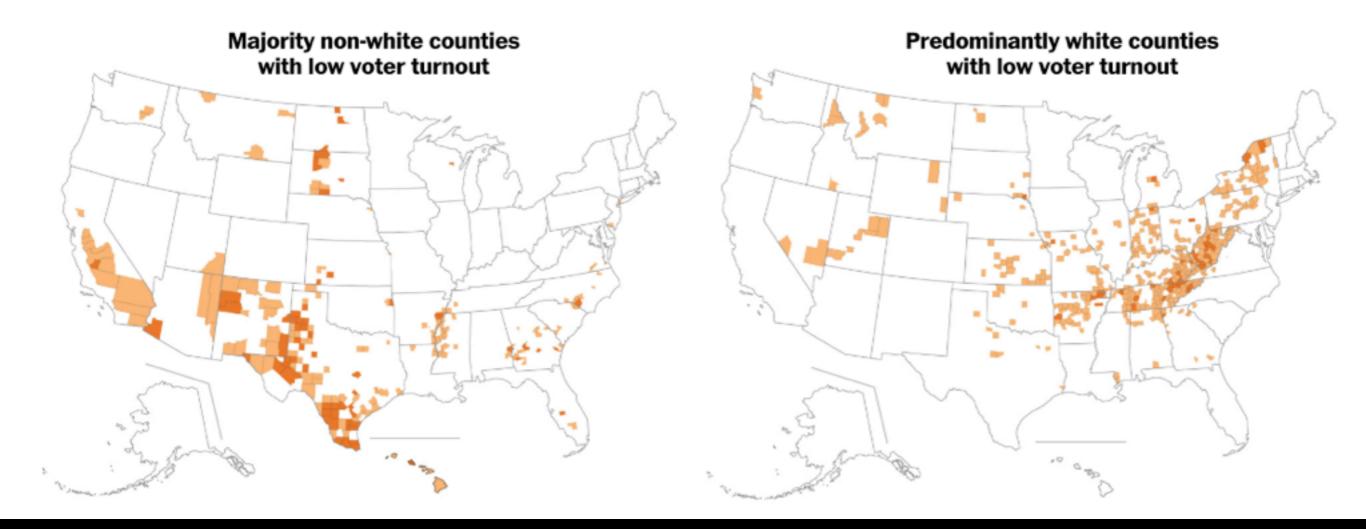
# VOTER TURNOUT



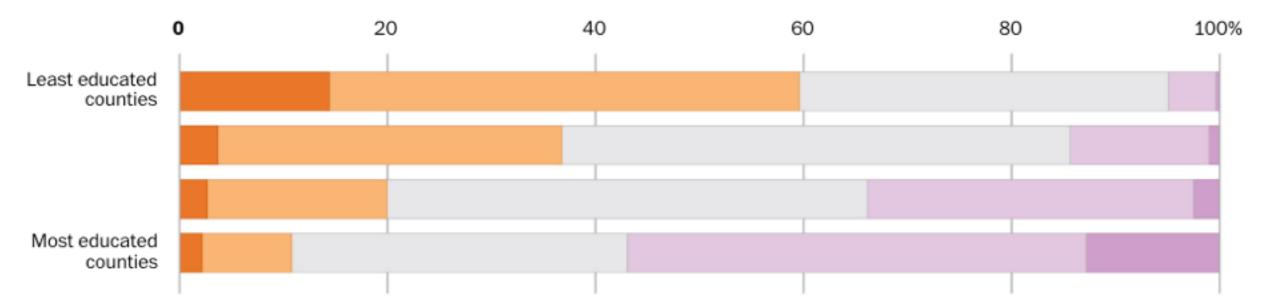


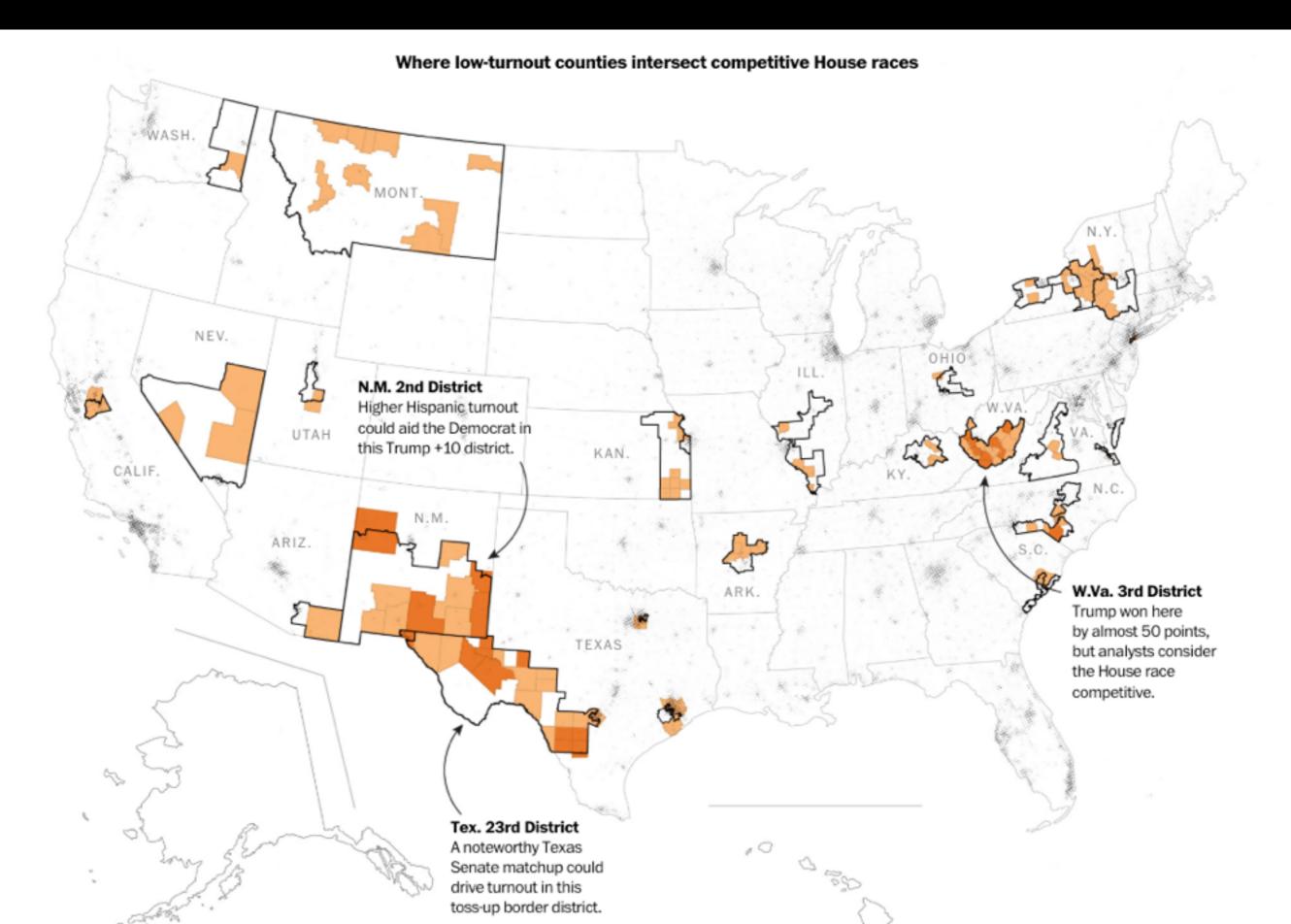
Note: Alaska, represented with statewide data, had 60% turnout.



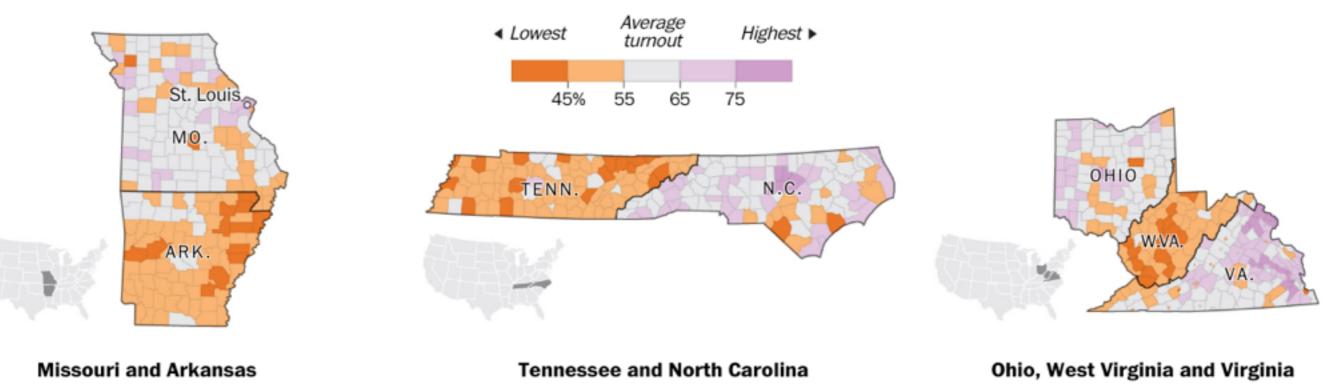


Share of counties with low, average or high turnout in 2016, by education level





Stark differences in neighboring states also reflect in part the differing culture and traditions in areas such as civic involvement and in minority relations, said Jay Barth, a politics professor at Hendrix College in Arkansas.



#### Share of adult citizens who voted in 2016

#### WASHINGTON POST 2018 MIDTERM TURNOUT VISUALS

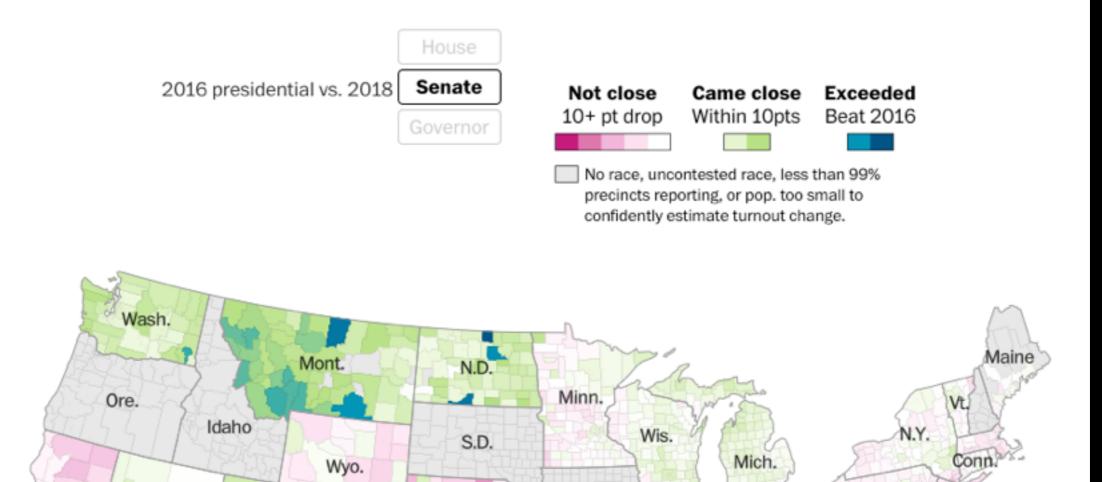
The Washington Post Democracy Dies in Darkness



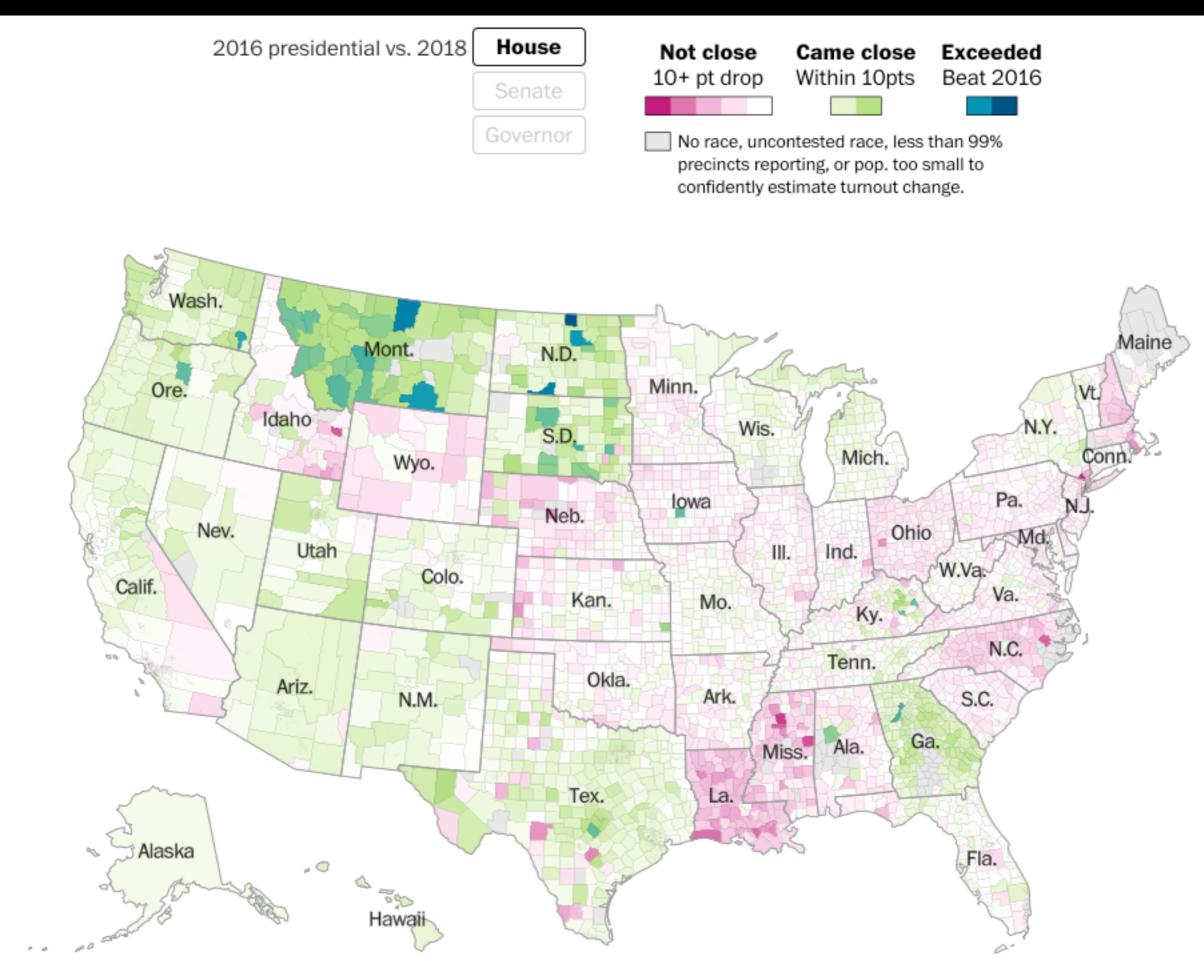
## How did voter turnout in your county compare to the 2016 presidential election?

The 2018 midterms didn't have as many voters as 2016. But they got pretty close.

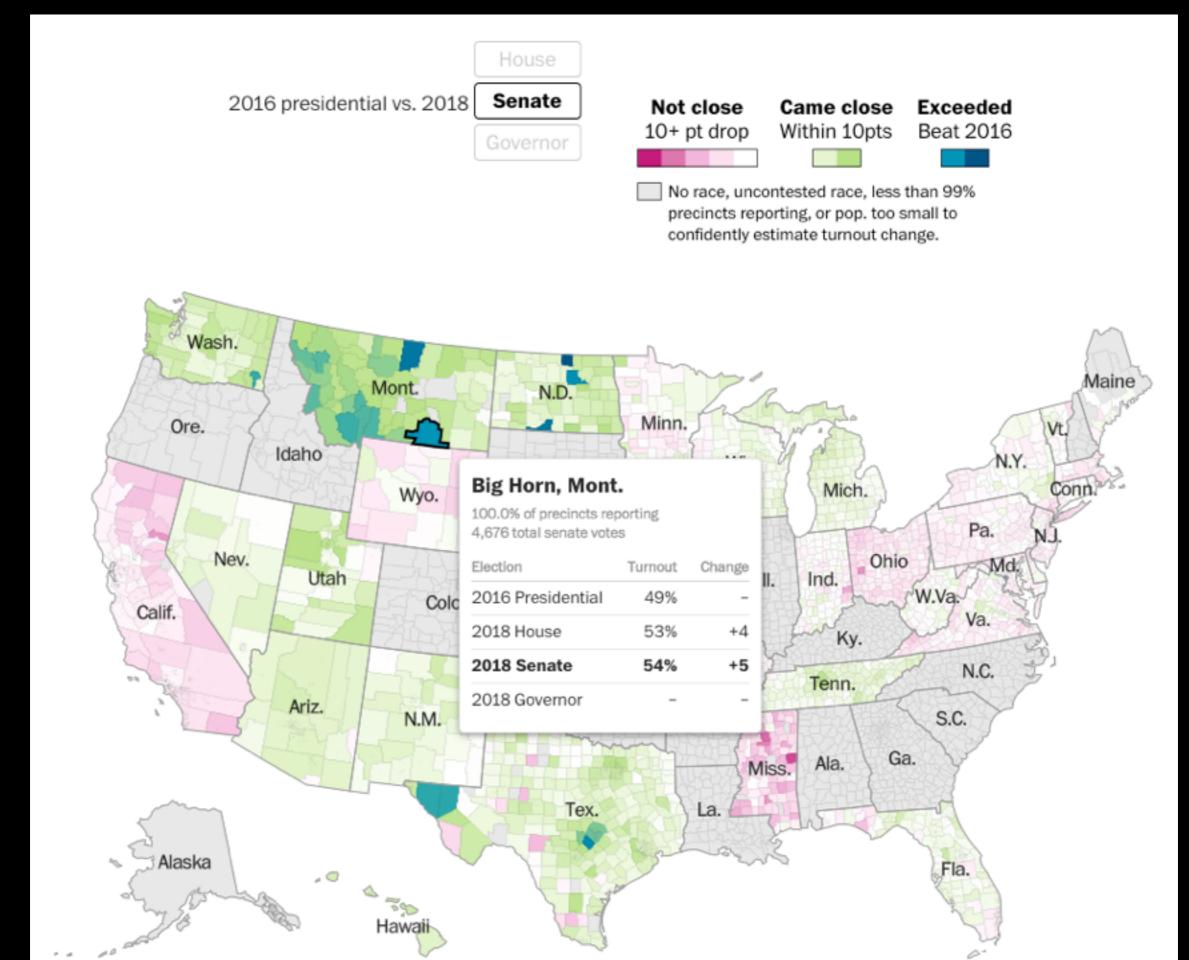
By Manas Sharma, Ted Mellnik and Reuben Fischer-Baum Dec. 31, 2018



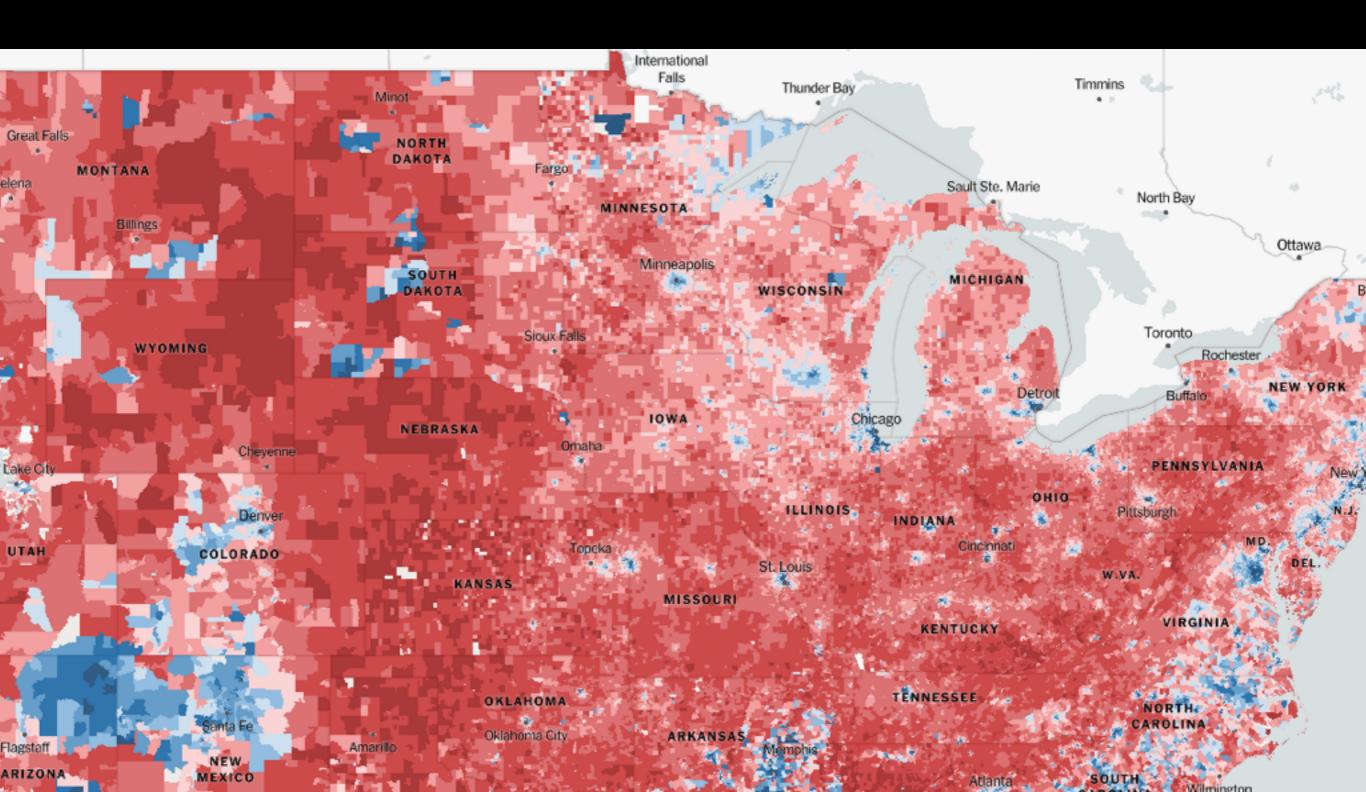
### WASHINGTON POST 2018 MIDTERM TURNOUT VISUALS



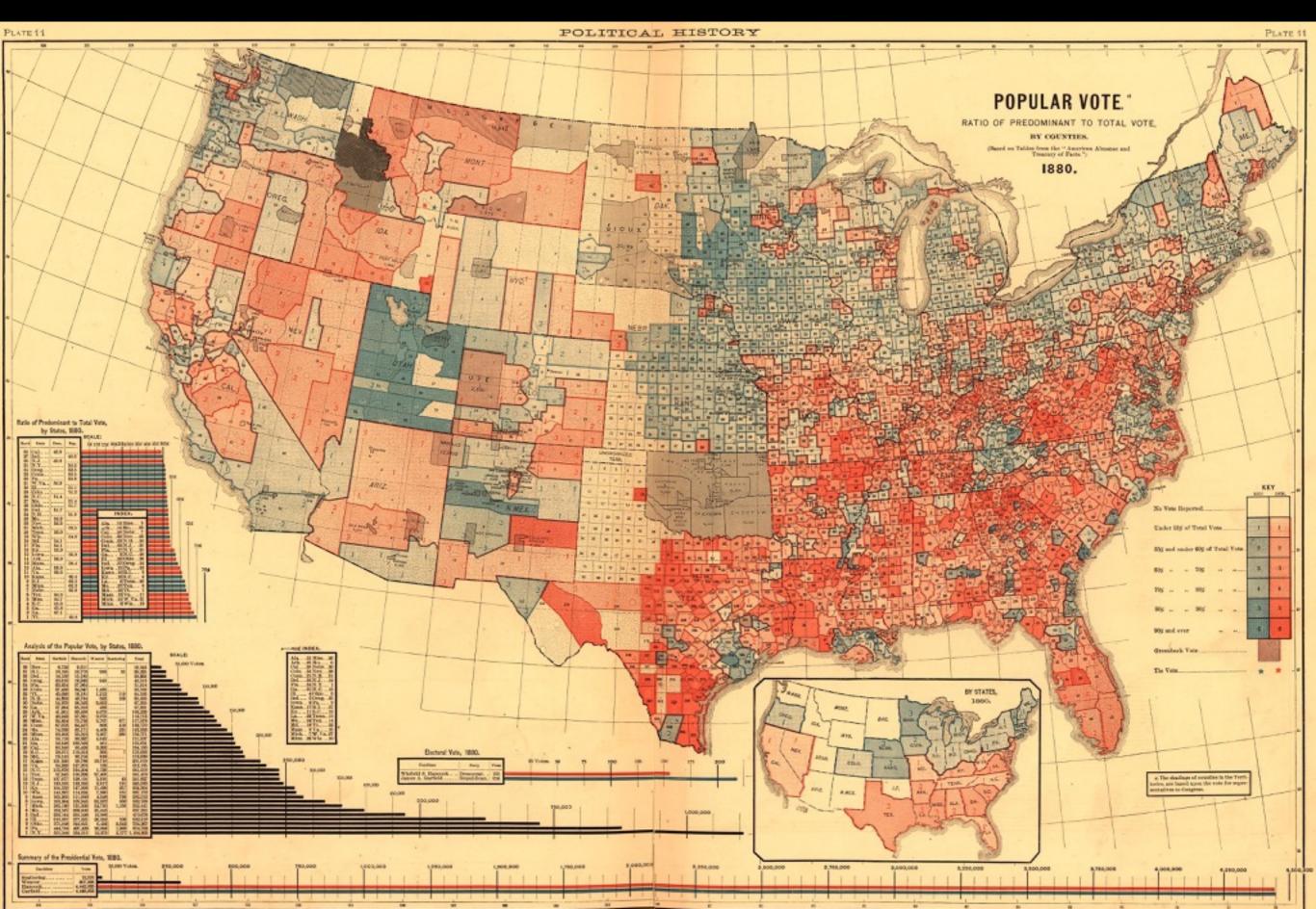
### WASHINGTON POST 2018 MIDTERM TURNOUT VISUALS



# ELECTION RESULTS

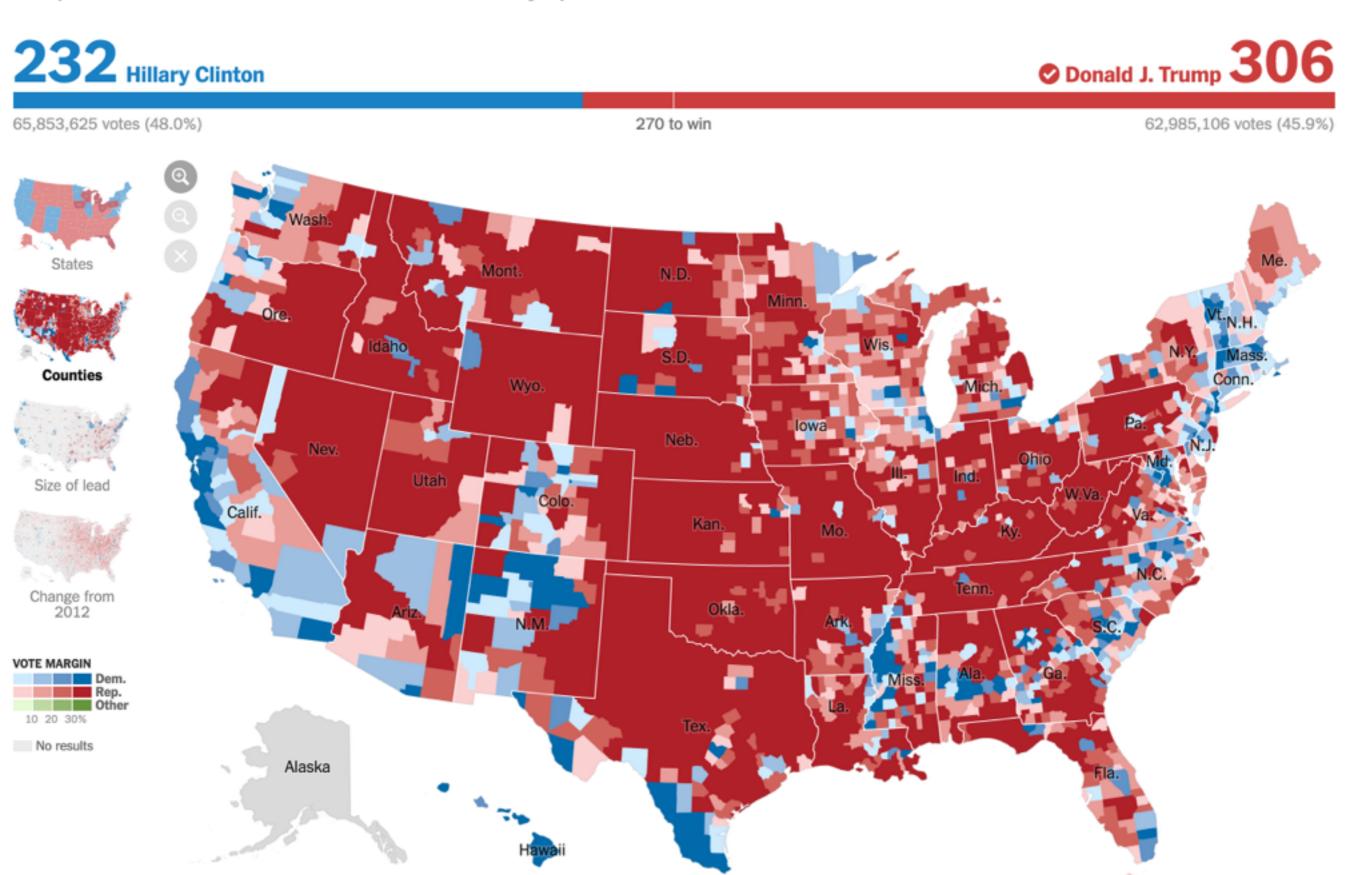


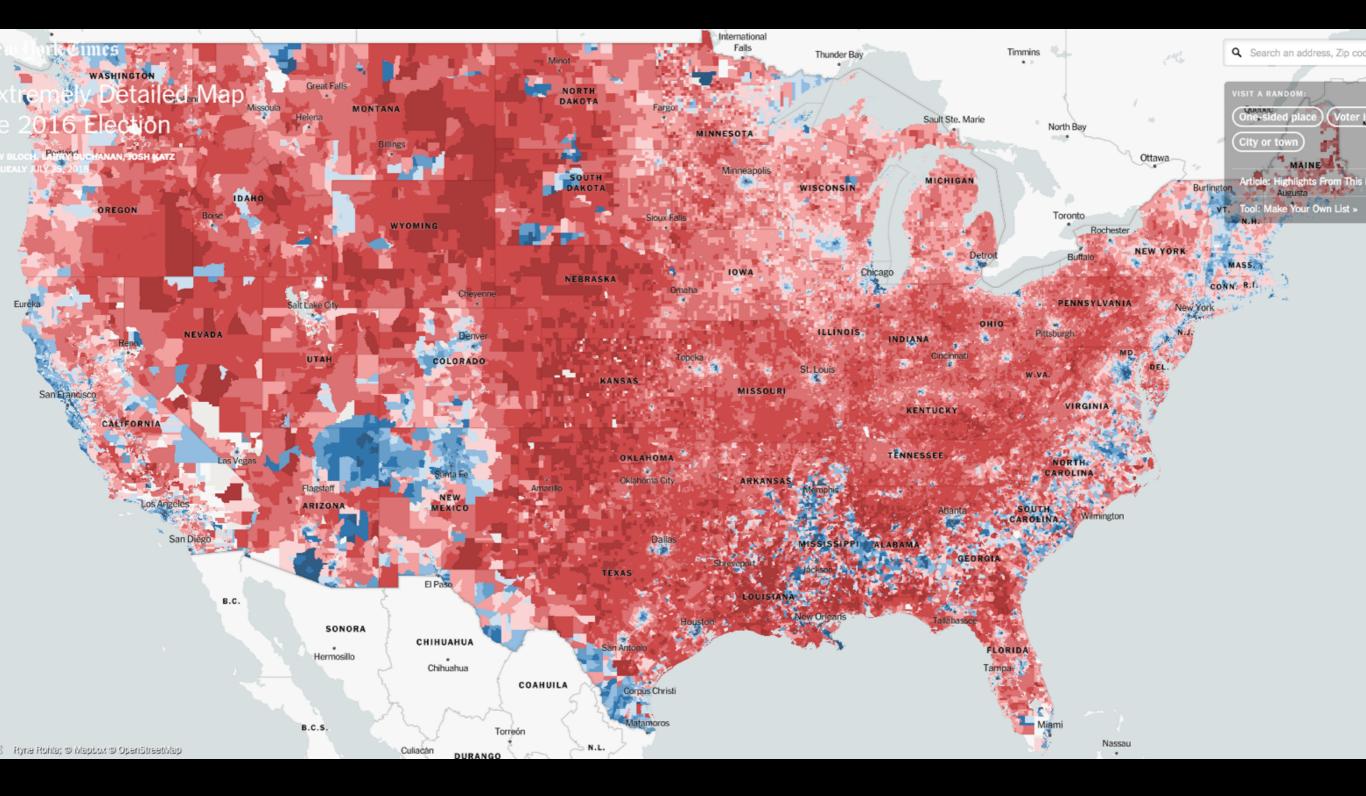
### COUNTIES



## COUNTIES

Donald J. Trump won <u>the Electoral College</u> with 304 votes compared to 227 votes for Hillary Clinton. Seven electors voted for someone other than their party's candidate.





LGA

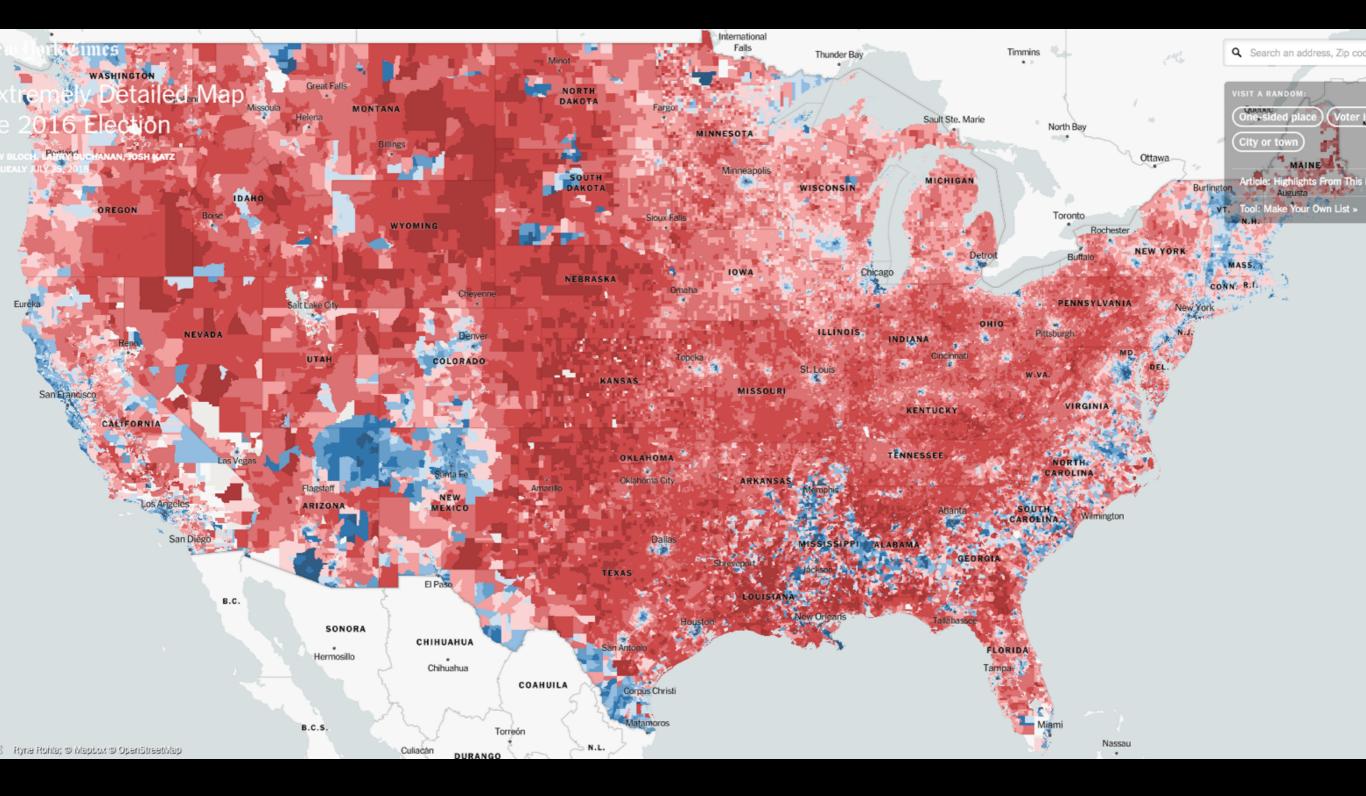
중 JFK

- 51

The New Hork Times

## An Extremely Detailed Map of the 2016 Election

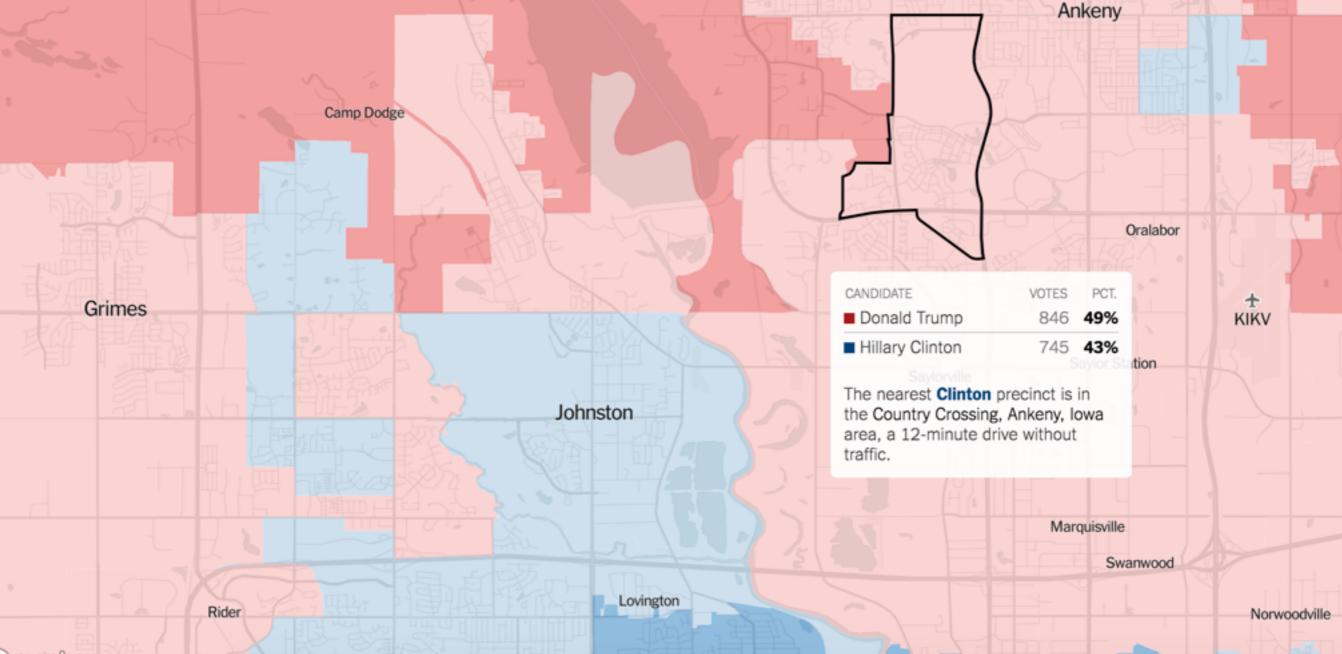
Jersey City By MATTHEW BLOCH, LARRY BUCHANAN, JOSH KATZ and KEVIN QUEALY JULY 25, 2018





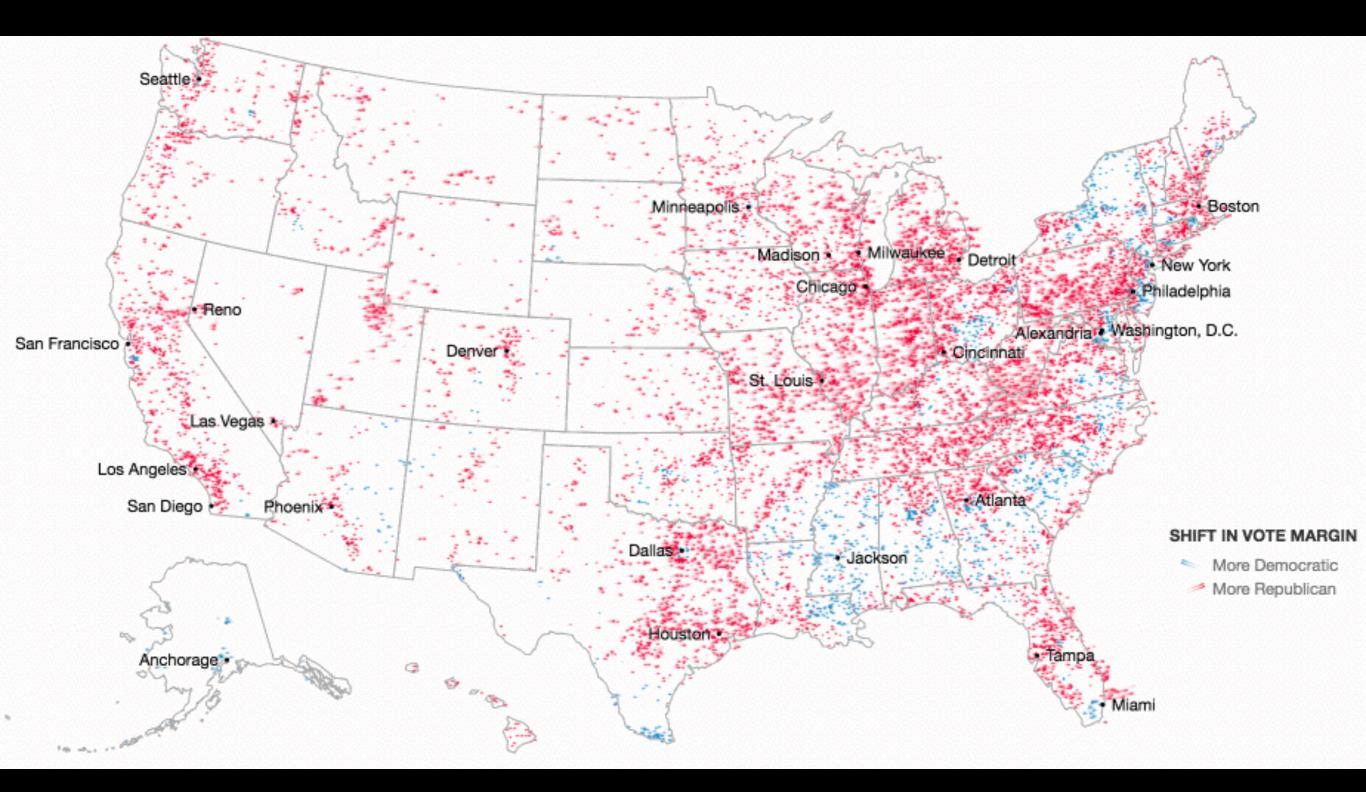
## An Extremely Detailed Map of the 2016 Election

By MATTHEW BLOCH, LARRY BUCHANAN, JOSH KATZ and KEVIN QUEALY JULY 25, 2018

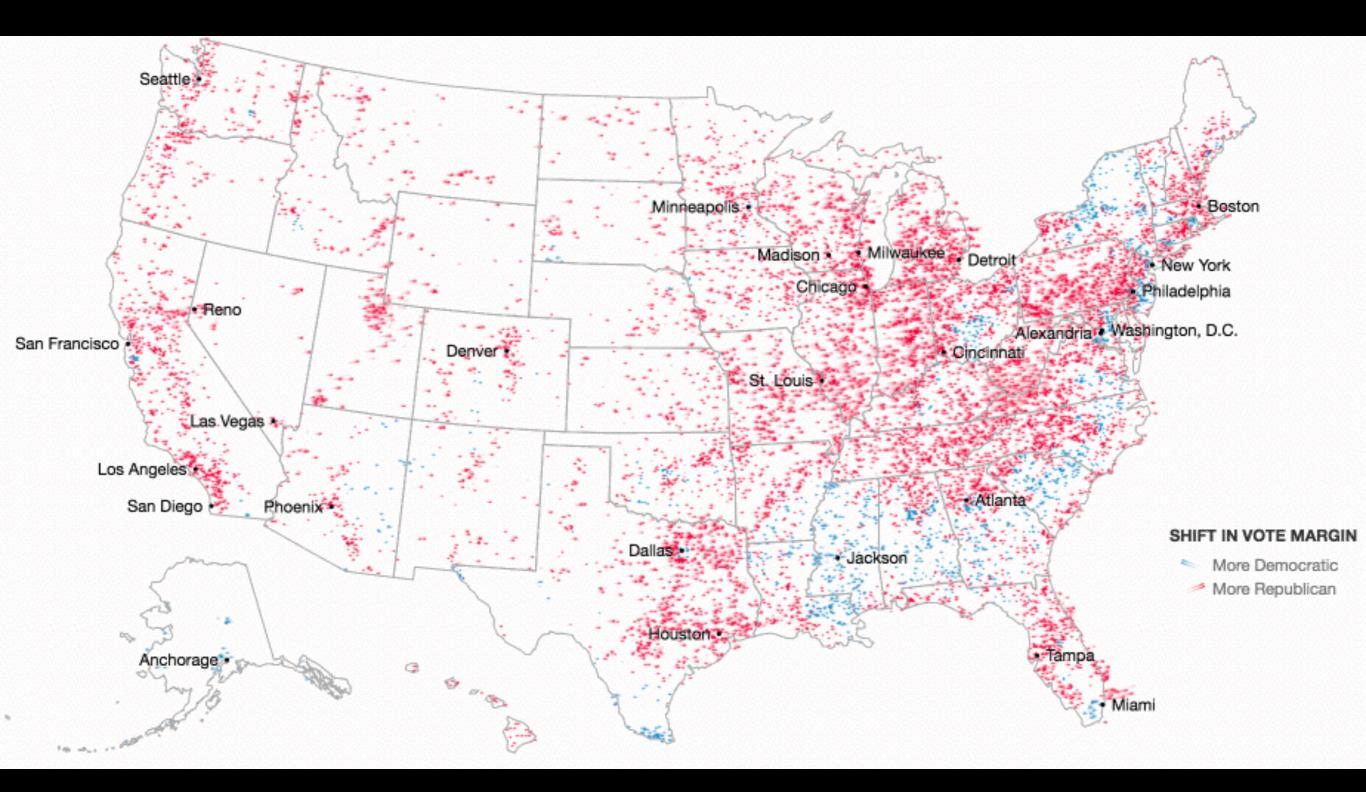


В

### NEW YORK TIMES: 2008 TO 2012 "WAVE"



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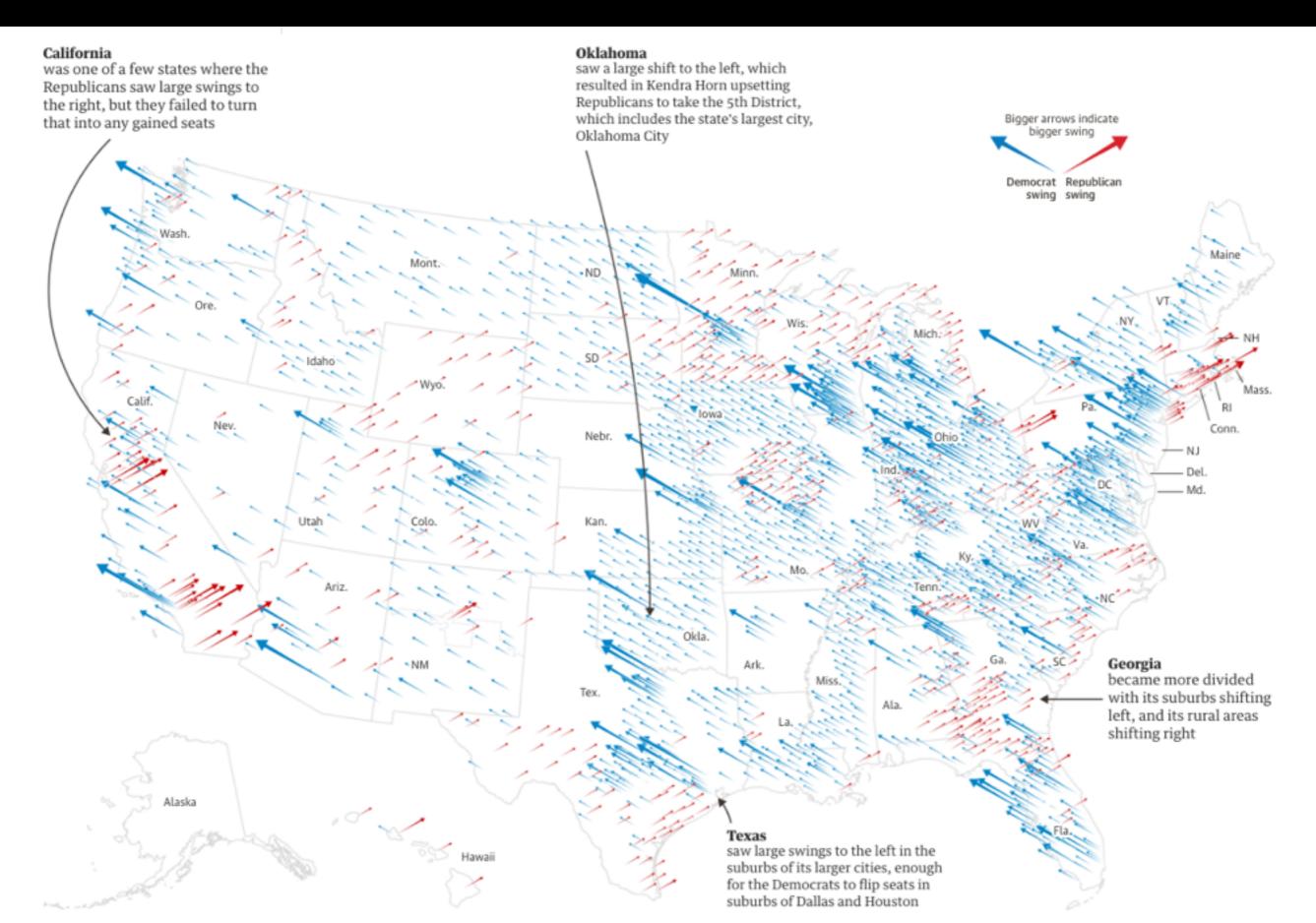
#### NEW YORK TIMES: 2012 TO 2016 "WAVE"

Interactive! Let's take a look.

#### NEW YORK TIMES: 2016 TO 2018 MIDTERMS "WAVE"

Interactive! Let's take a look.

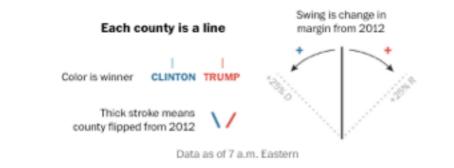
## THE GUARDIAN: 2016 TO 2018 MIDTERMS "WAVE"



#### How the country swung to the right

Vast swaths of the nation voted more Republican than in 2012, with Trump

flipping a large number of counties.





#### THE NORTHEAST

Those bold red swings stretching from inland Maine through New Hampshire and into upstate New York are counties that flipped in Trump's favor from 2012. Away from the large cities on the coast, these counties resemble the pattern seen widely, where cities voted slightly more Democratic, but suburbs and beyond swung way to the right.

Atlanta area

#### PENNSYLVANIA AND NORTH CAROLINA

Pennsylvania had voted for six Democratic presidential candidates in a row, but this year, most counties in the state voted more Republican than in 2012. North Carolina, on the other hand, was a reliably red state until Obama won it in 2008. Democrats hoped they could capture it this time around, but Trump won by four percentage points.

#### THE GREAT LAKES

The Midwest is where Trump redrew the electoral map. States like Michigan and Wisconsin were considered favorable to Clinton, but instead swung to Trump mostly due to voters in mid-sized counties outside the major cities. The most striking change occurred in counties along the junction of Illinois, Wisconsin and Iowa. In this farm country, Trump's message to people left behind helped him seize a significant advantage.

#### THE DEEP SOUTH

Voters across Alabama, Mississippi and Georgia predictably voted Republican, but in no dramatic fashion. Rapidly urbanizing counties around Atlanta swung hard to

## WALL STREET JOURNAL: MIDTERM 2018 RESULTS

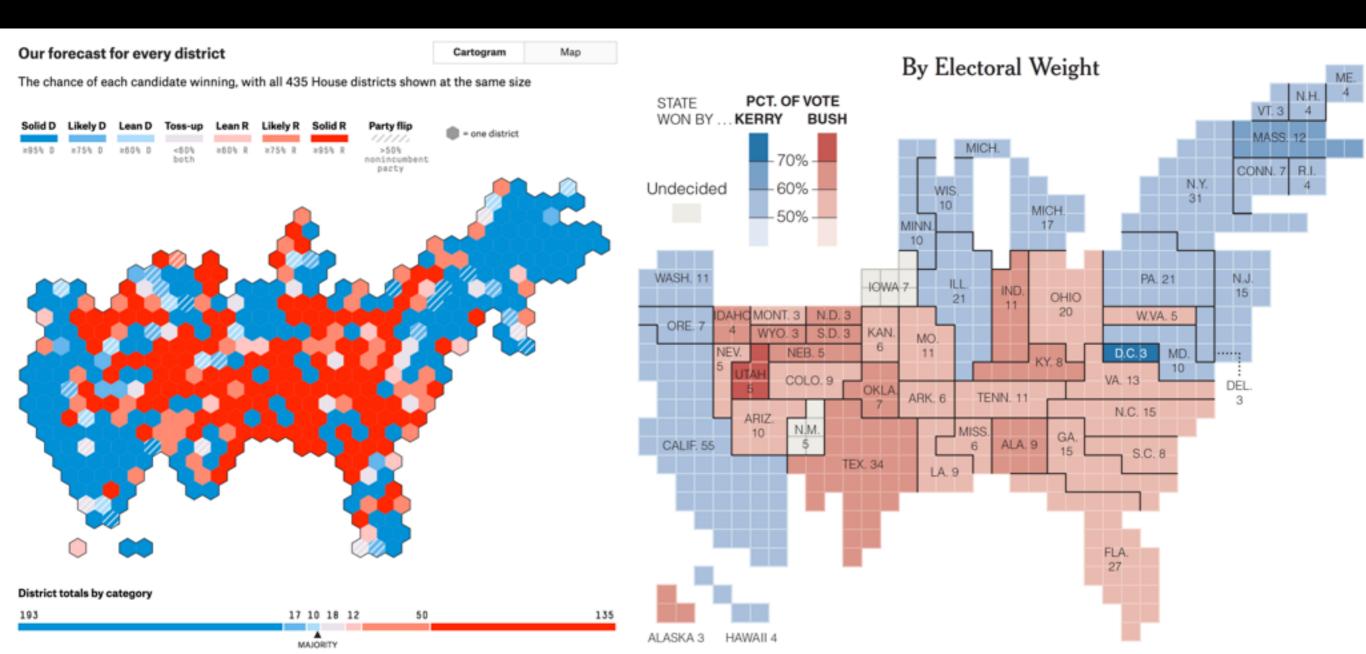
Interactive! Let's take a look.

#### NEW YORK TIMES: PRESENTING RESULTS IN MULTIPLE WAYS

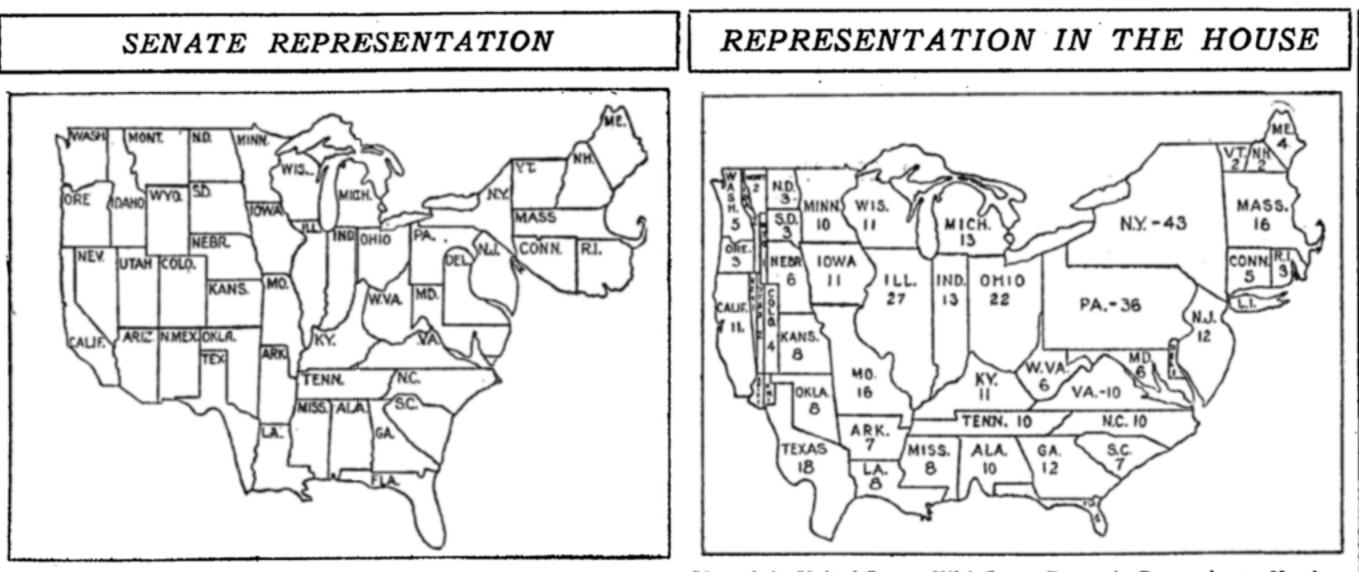
Interactive! Let's take a look.

## 538 / <u>NYT</u> / OTHERS: REDRAWING THE COUNTRY

- States proportional to Electoral Votes
- States proportional to campaign visits (national popular vote website)
- States proportional to House and Senate representation

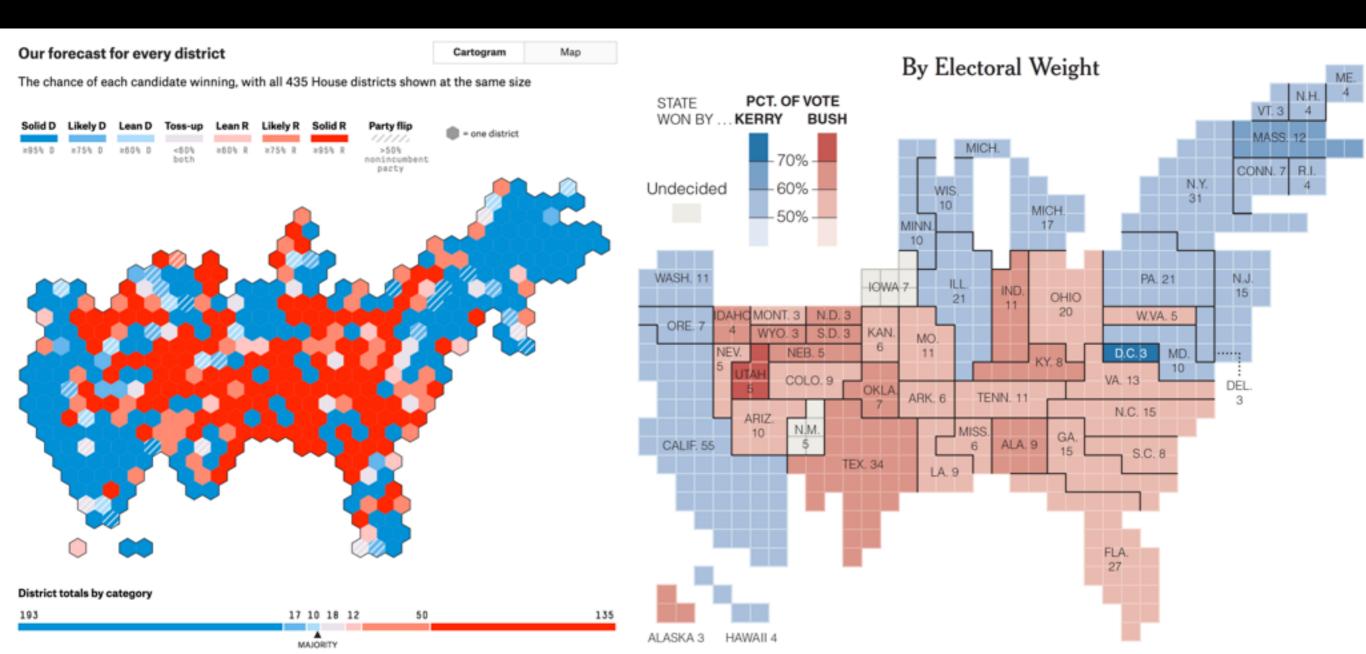


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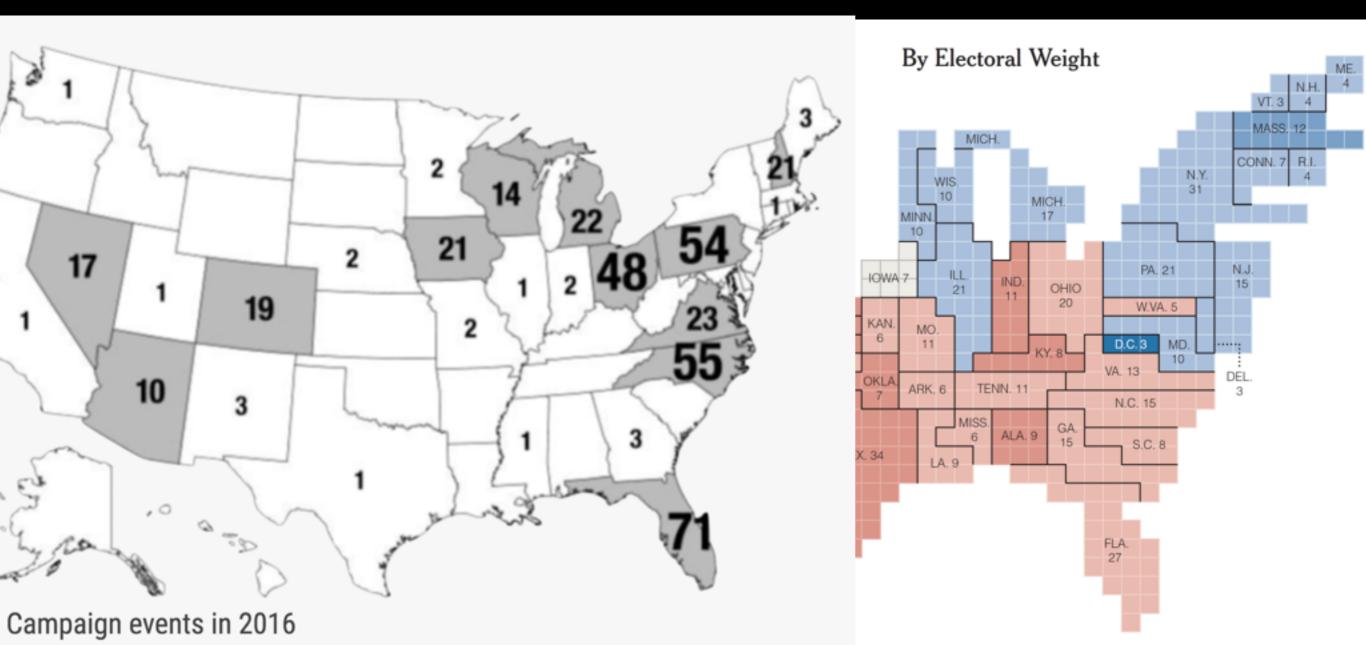


Map of the United States, Showing Equality of States as Represented Map of the United States, With States Drawn in Proportion to Numbers in the Senate.

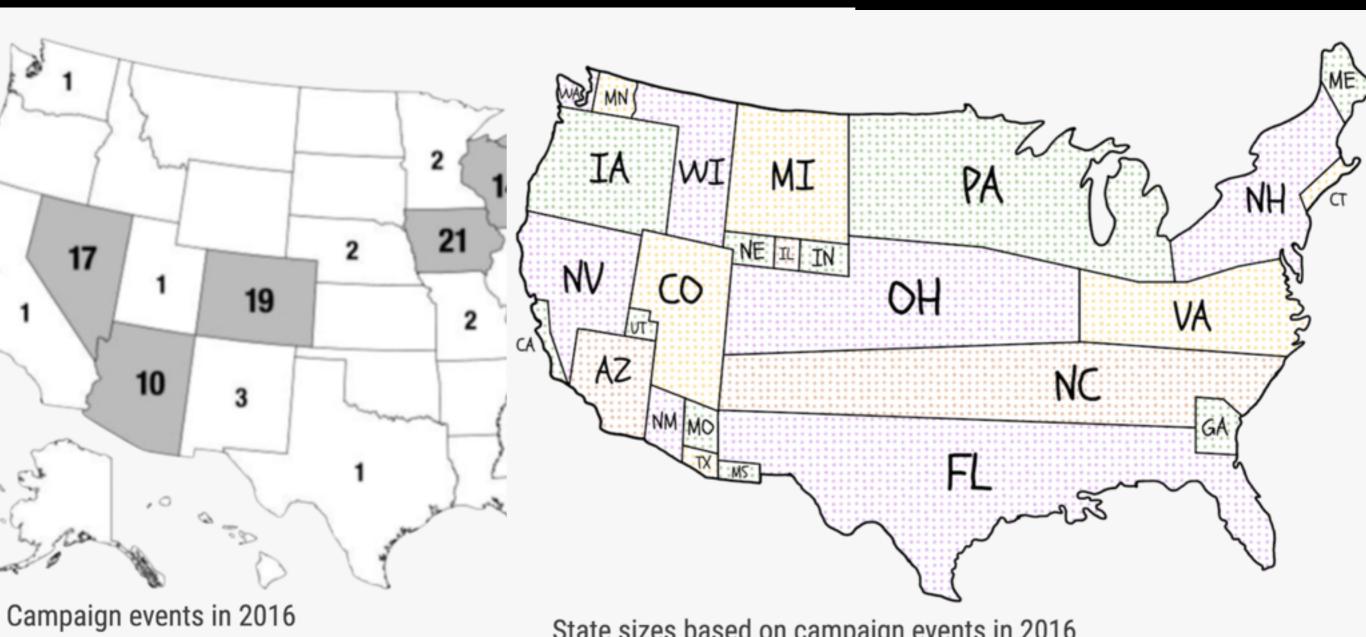
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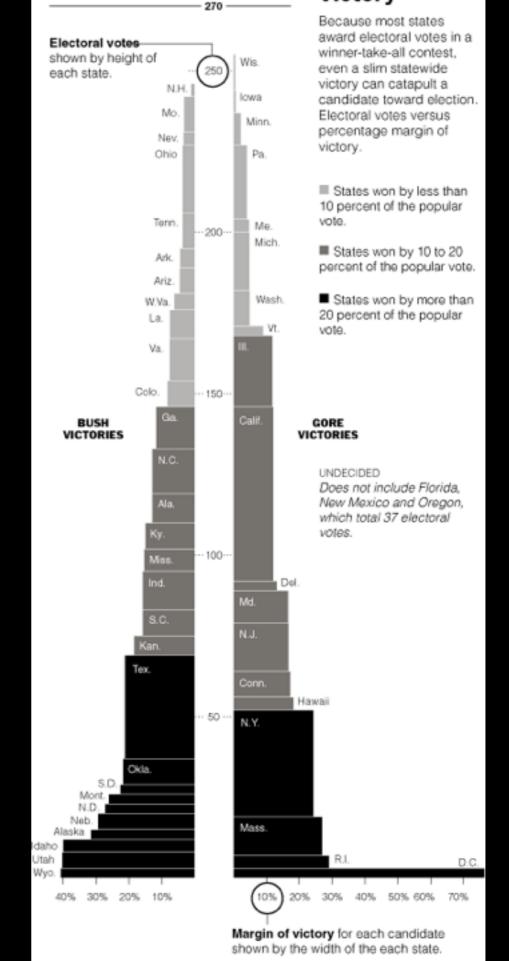


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- States proportional to campaign visits (national popular vote website)
- States proportional to House and Senate representation



• Tower diagrams

270 electoral votes are needed to win the election.



Building

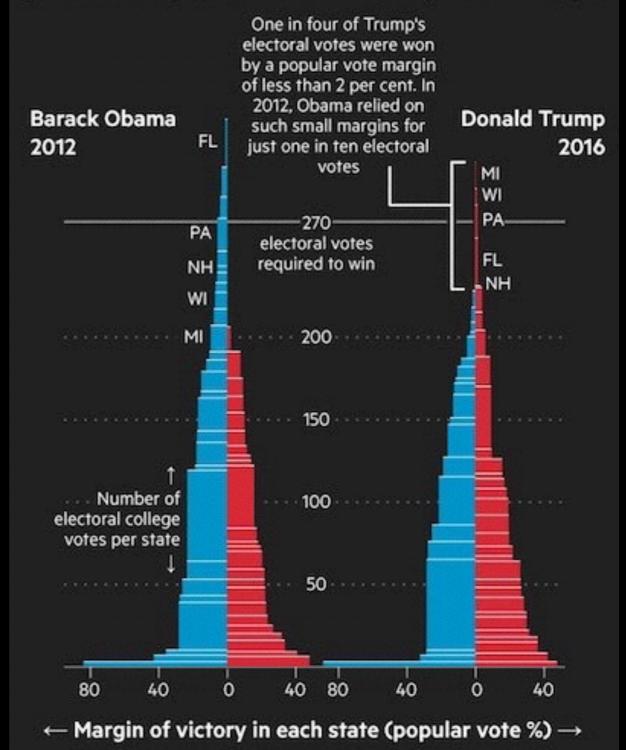
Victory

An Electoral

Tower diagrams

## Trump Tower: how the 'Swing state spire' won the presidency

Trump's victory in the electoral college was emphatic, but the states that gave him a towering lead over Clinton were won on gossamer-fine margins



FT graphic: John Burn-Murdoch/@jburnmurdoch based on a concept from the New York Times (2000) Source: Associated Press, FT research



## VOTING PREDICTIONS

Heads-up: Forecasts may be volatile early in the night. These numbers will become more trustworthy once more votes have been counted.

Our best guess right now is that Hillary Clinton is on track to win. Below, our estimates of three key indicators:

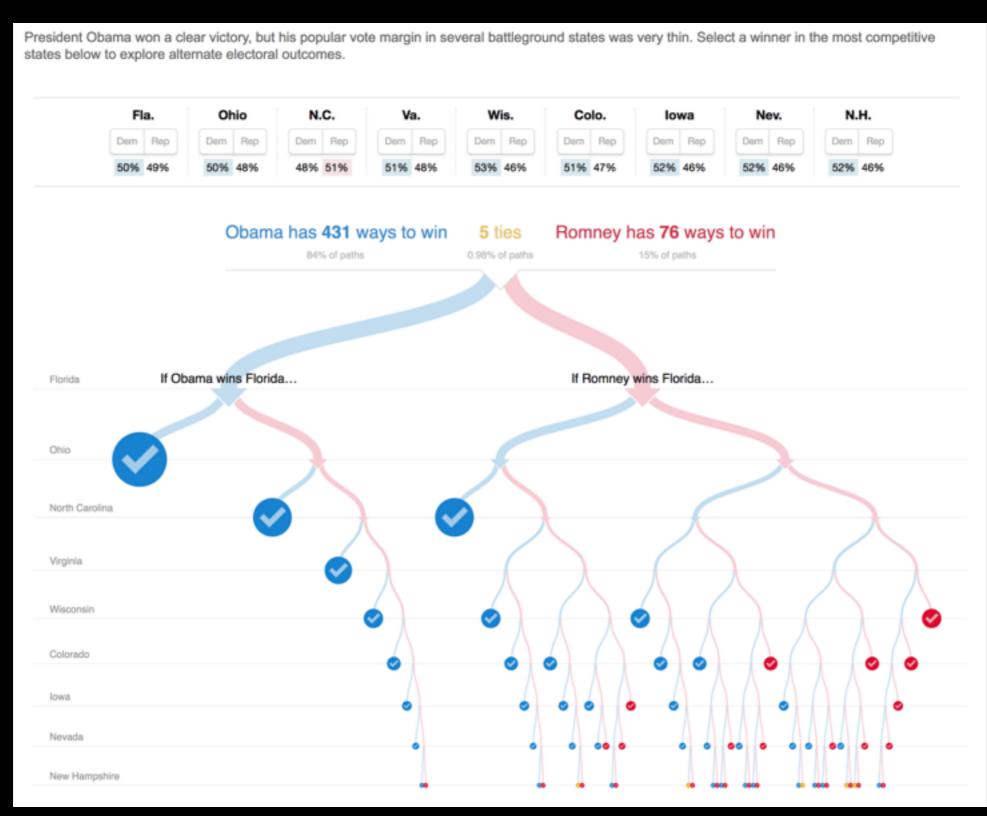


## VOTING PREDICTIONS

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### NEW YORK TIMES 2012 "WAYS TO WIN"



Interactive! Let's take a look.

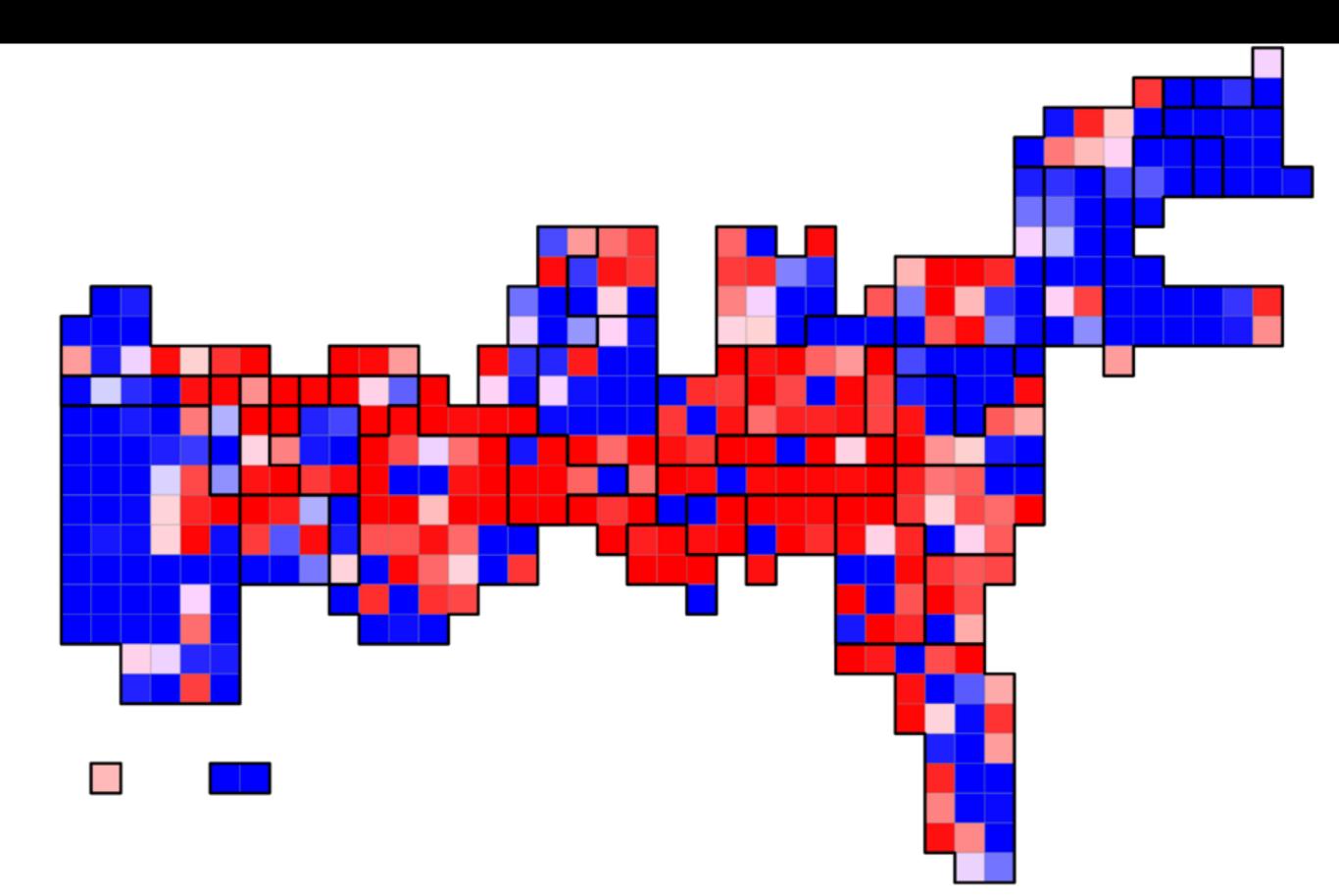
### 538 2016 FORECAST

### NEW YORK TIMES 2016 PRESIDENTIAL PREDICTIONS

#### HUFFINGTON POST 2016 FORECAST

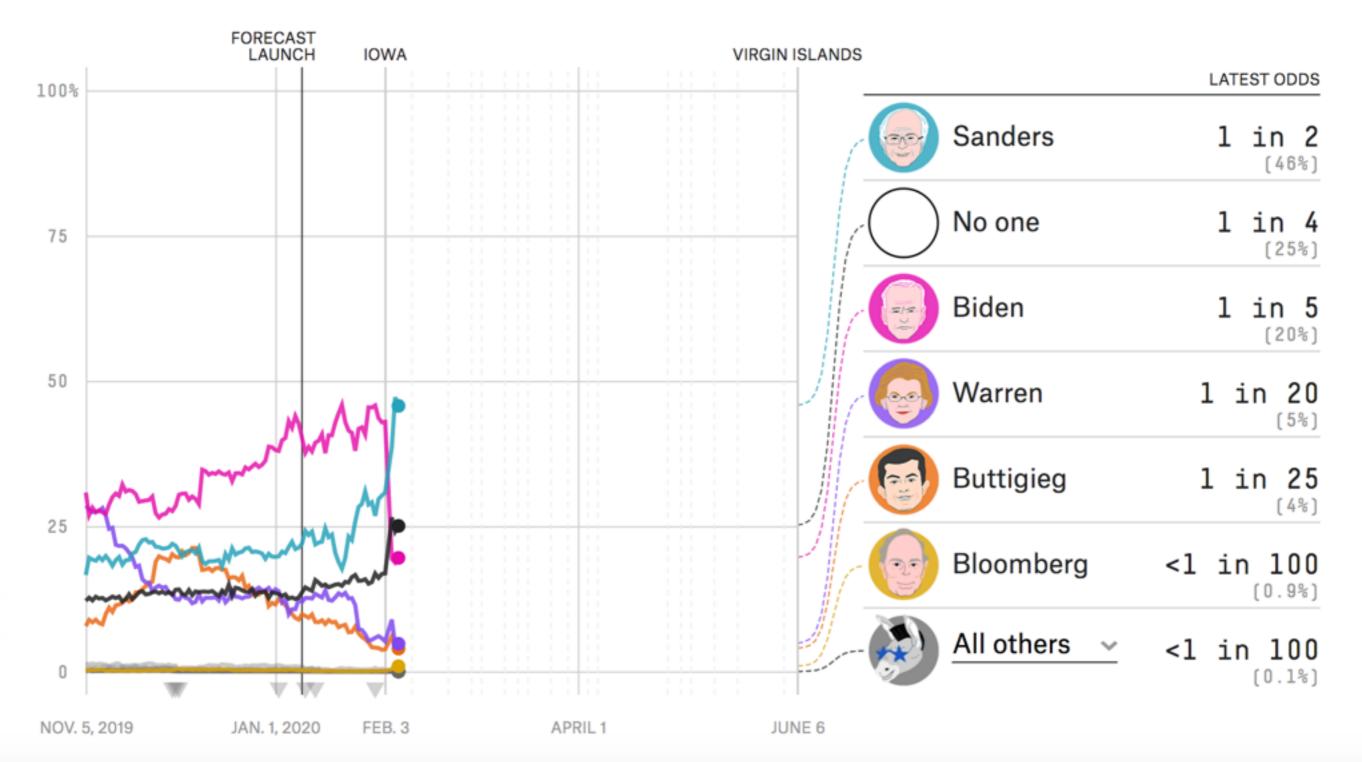
➡ Lots to cover! Let's take a look.

### HIGH SCHOOL POLISTAT CLASS PREDICTIONS



### FIVETHIRTYEIGHT 2020 DEMOCRATIC PRIMARY FORECAST

How each candidate's chances of winning <u>more than half of pledged delegates</u> <u>have changed over</u> time



# OTHER INNOVATIONS

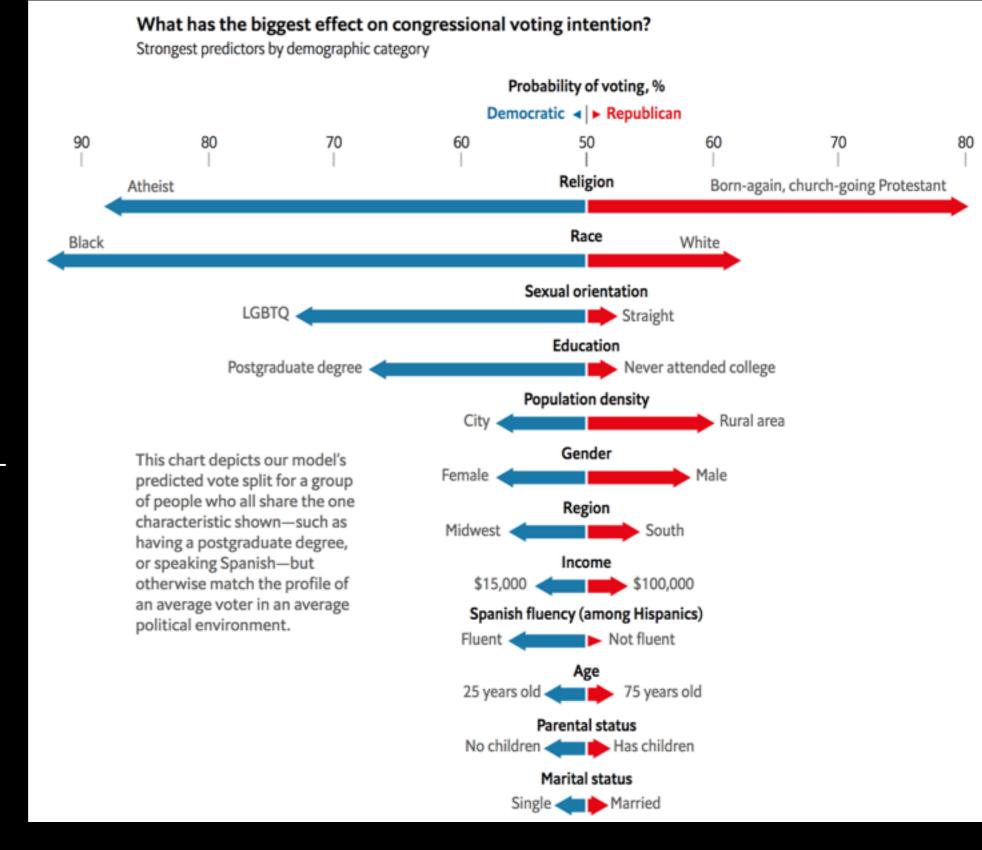
### Washington Post

We asked Iowa State Fairgoers to circle the candidates they could name. Their answers are below.



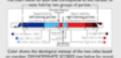
### GRAPHICS GETTING PERSONAL

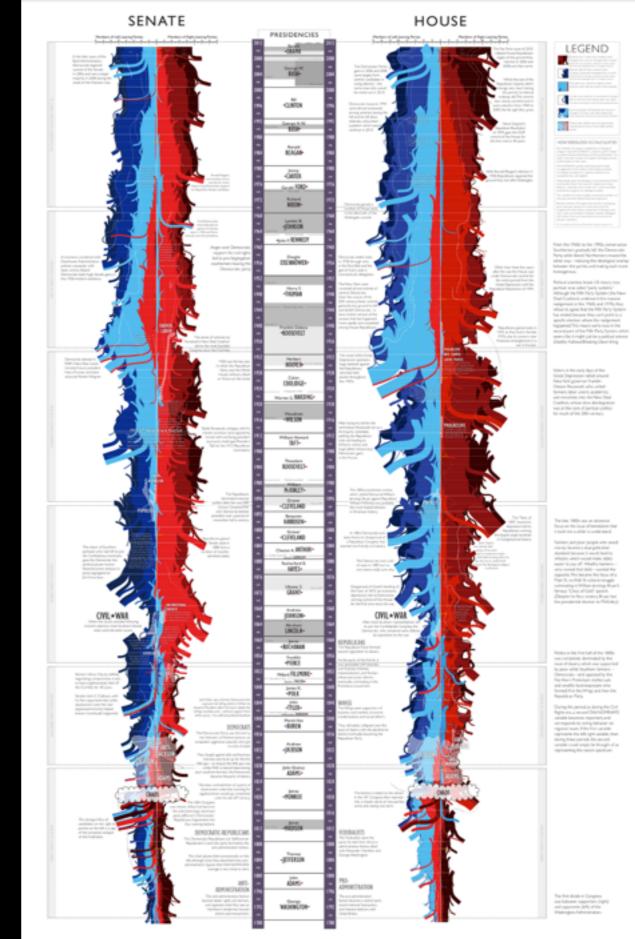
- <u>New York</u>
   <u>Times: How</u>
   <u>Birth Year</u>
   <u>Influences</u>
   <u>Political Views</u>
- <u>Economist: All</u>
   <u>Politics is</u>
   <u>Identity Politics</u>
- <u>538: Where</u>
   <u>Democrats and</u>
   <u>Republicans</u>
   <u>Live In Your</u>
   <u>City</u>



### LEAN OF CONGRESS (XKCD)

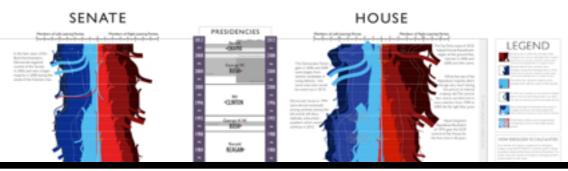


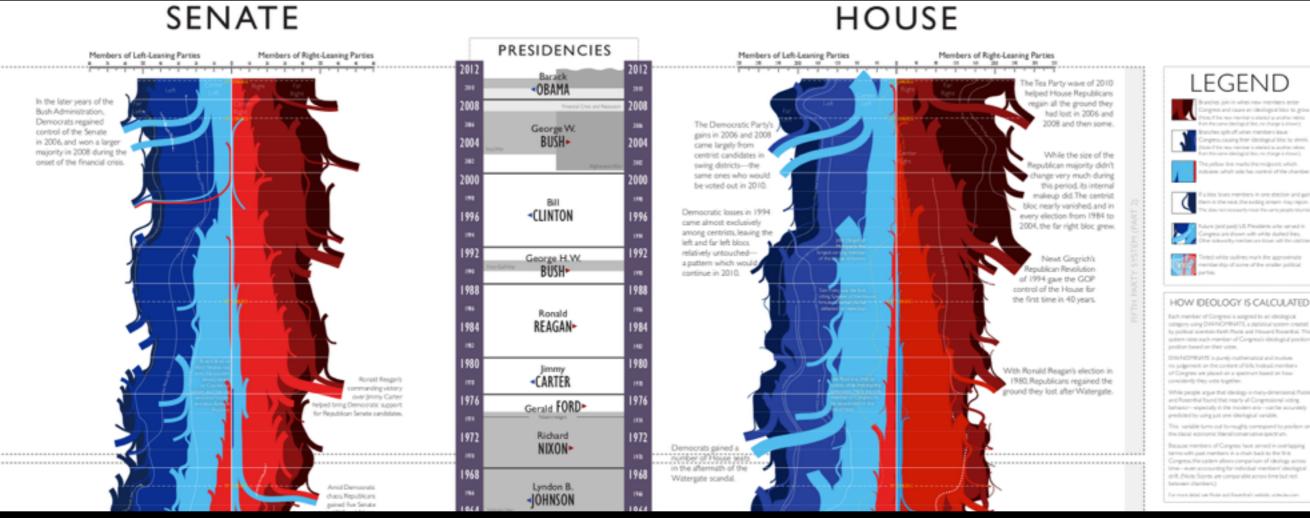


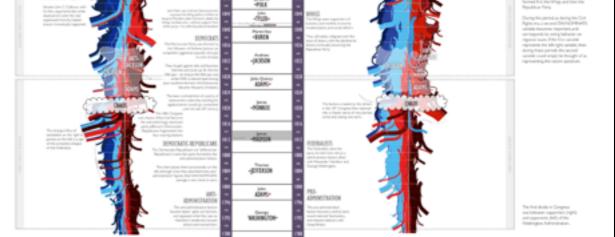


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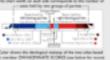






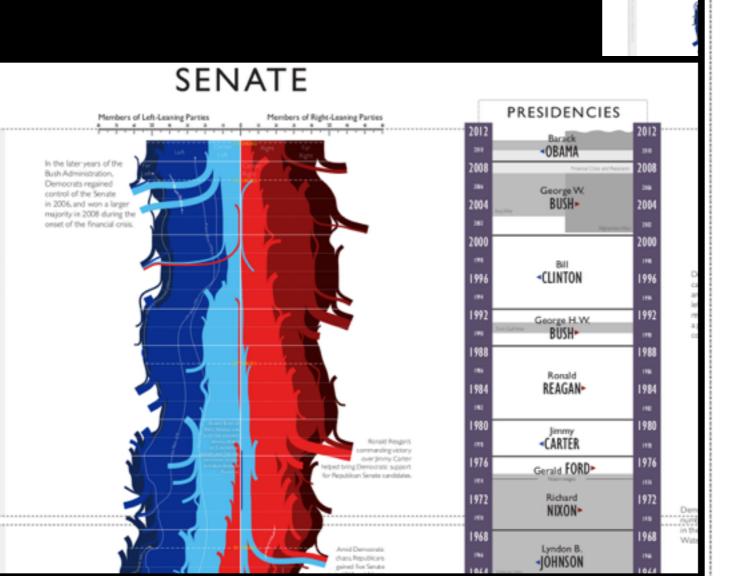
### LEAN OF CONGRESS (XKCD)





SENATE

HOUSE





Branches join in when new members enter Congress and cause an ideological bloc to grow. (Note: If the new member is elected as another retires from the same ideological bloc, no change is shown.)



Branches split off when members leave Congress, causing their ideological bloc to shrink. (Note: If the new member is elected as another retires from the same ideological bloc, no change is shown.)



The yellow line marks the midpoint, which indicates which side has control of the chamber.



If a bloc loses members in one election and gains them in the next, the exiting stream may rejoin. This does not necessarily mean the same people returned.



Future (and past) US Presidents who served in Congress are shown with white dashed lines. Other noteworthy members are shown with thin solid lines.

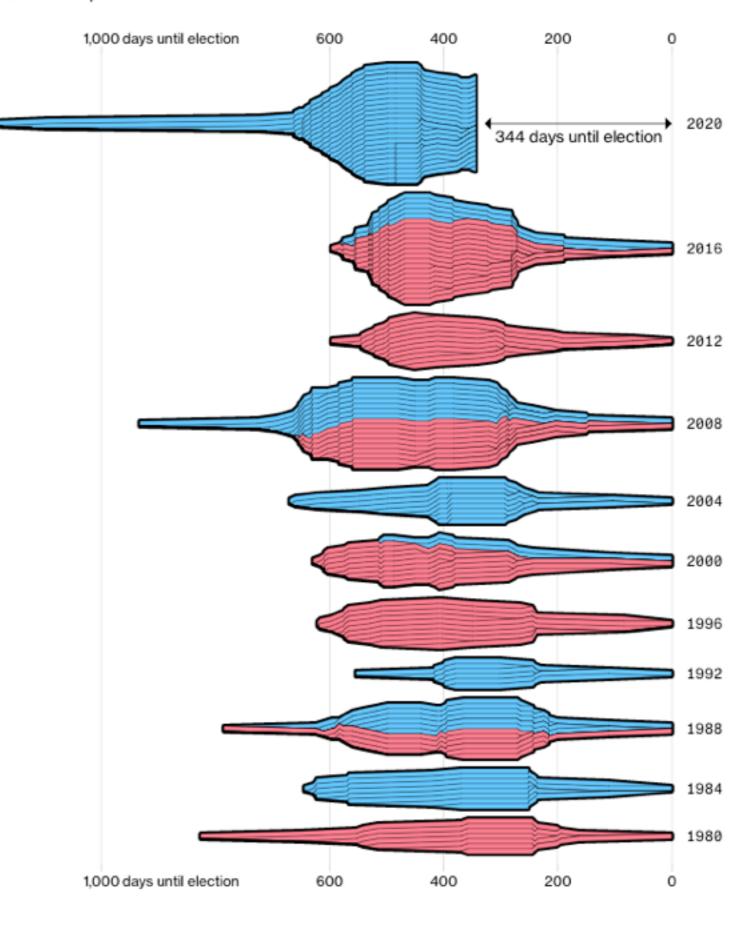


Tinted white outlines mark the approximate membership of some of the smaller political parties.

### BLOOMBERG NEWS EARLY FIELD

#### An early field

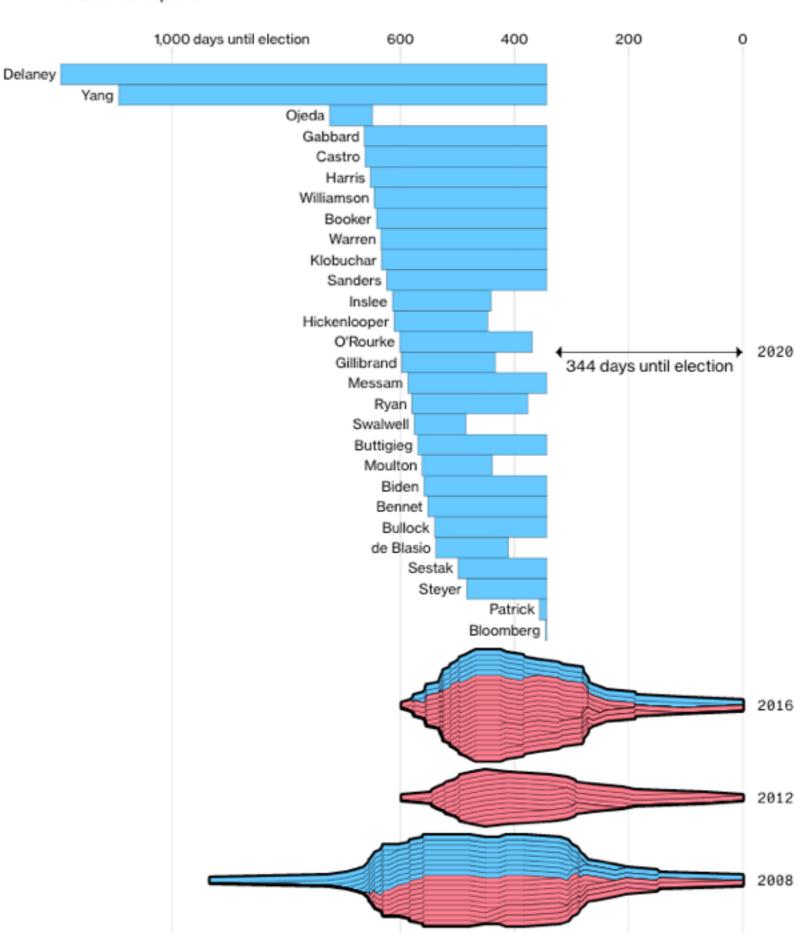
When candidates entered and withdrew from the race (excludes party contests when an incumbent president ran for re-election) Click to expand.



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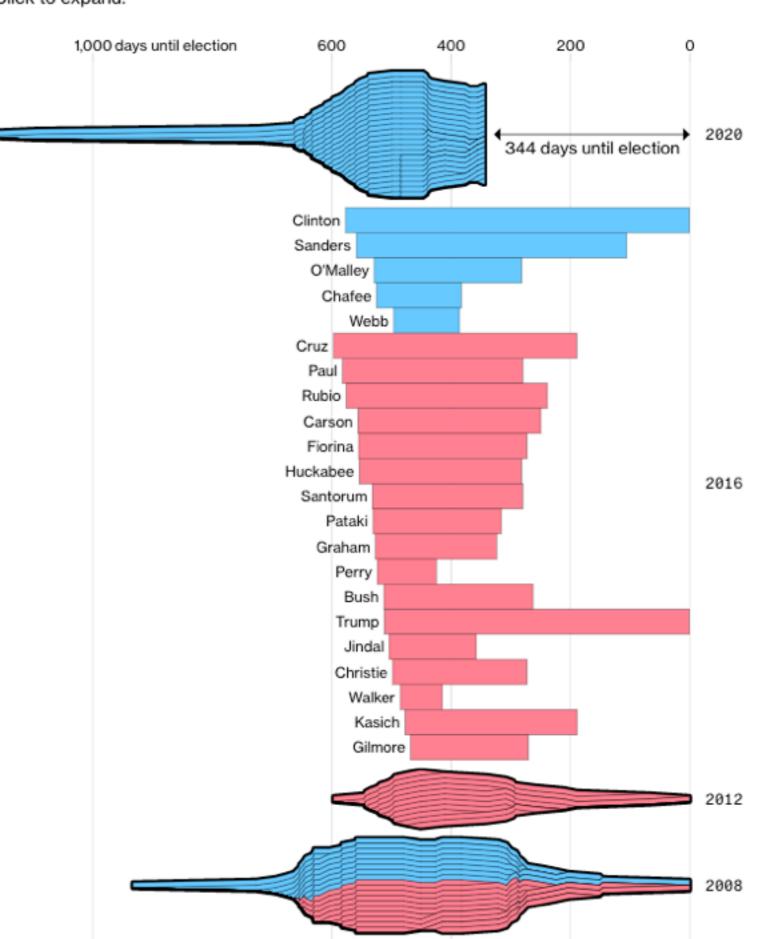
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### THANK YOU!

### LINKS FOR EVERYTHING INCLUDED :)