

US Presidential Elections 2016

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1st ITERATION

Click on the county to change the party





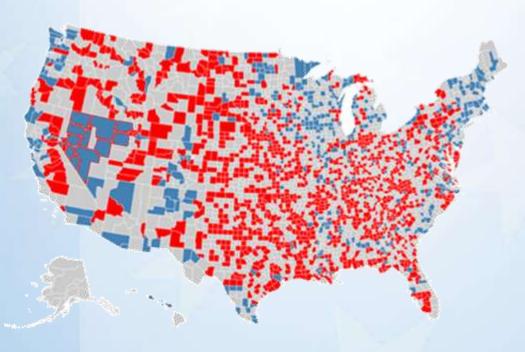
332



206

1st ITERATION (contd.)

Click on the county to change the party





337 √



201

ISSUES WITH 1st VERSION

- Required users to change results of one county at a time laborious and lot of county changes needed
- County level not aligned with electoral college state level is better
- Size of county misleading
- Focus the viz on one dimension like race too many degrees of freedom
- Not clear who is the winner red color more evident than the blue
- Required lots of text to explain the visualization
- Instructors feedback to include supporting viz bar charts

2nd ITERATION

2016

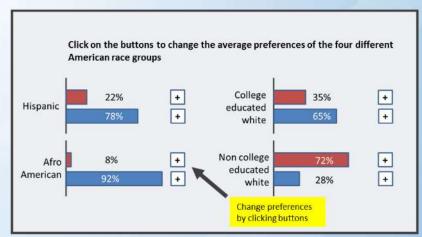
Historical





Republicans vote: 2,232,656
Democrats vote: 4,727,234
White college educated: 1,232,122

History





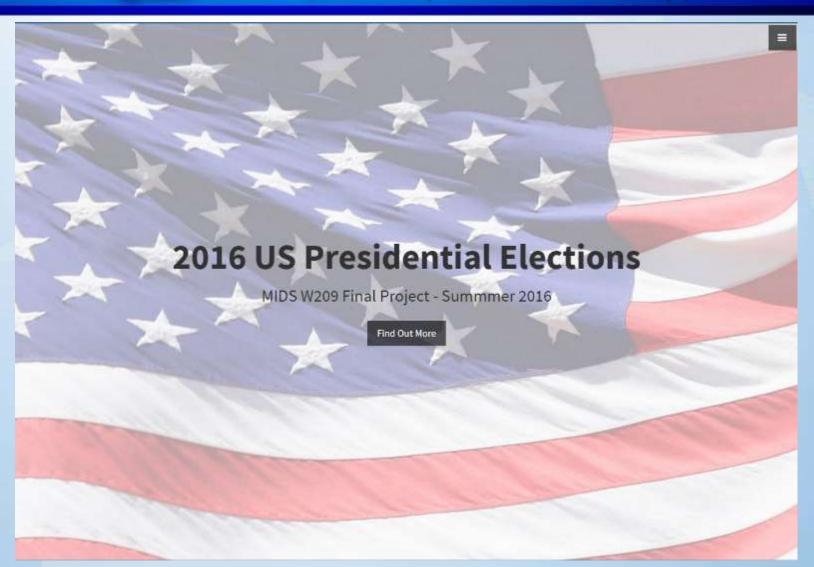


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ISSUES WITH 2nd Version

- Instructor feedback Impossible to scale states in proportion to their EC tally without states that are too small (Idaho, North Dakota) and states that are too large (California).
- Proportional symbol map:
 - https://bl.ocks.org/mbostock/4342045
 - Issues: Some symbols (circles) overlap (on the east coast)
- Cartogram heat-map: https://github.com/hrbrmstr/statebins
 - Issues: Too abstract, we wanted something more map like.
- Finally decided on proportional symbol map with symbol jittering

3rd ITERATION (Pre-Usability)



3rd ITERATION (Pre-Usability)

Explore past results and Create your own predictions for the 2016 Elections

2016 is election year! In November, the presidential candidates will face off in what is shaping up to be a highly contentious and polarized race. More than ever, the electorate looks divided along racial lines.

This project aims to visualize the impact of various racial and demographic groups on the 2016 election results. The electorate has been divided into 5 main groups: Hispanic, African American, Asian and other, College educated whites, non-college-educated whites. To read more about why we chose these groups click here.

We start you off with data from the 2012 election results, showing which states voted Democrat and which states Republican. From there, you can adjust the percentages of voters in each racial group that will vote Democrat or Republican, and watch how that impacts the 2016 results. The size of the circles drawn on each state is proportional to the number of Electoral College votes for that state. The color indicates which party wins the state.

To view past election results click here

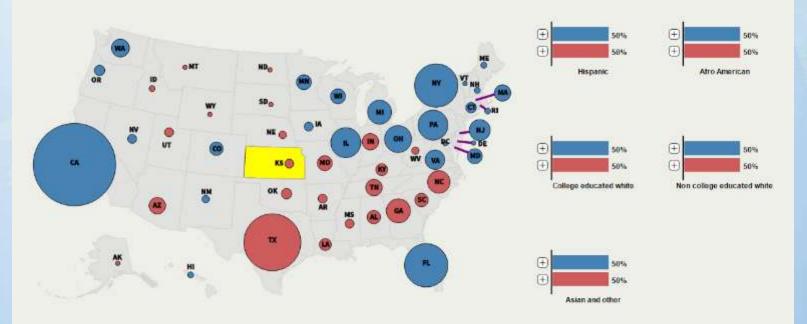
3rd ITERATION (Pre-Usability)

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Predict 2016

Click on the '+' signs next to the different racial groups to change their voting preference.

Click on a state to see its statistics.



Electoral College Tally



332

Kansas

Democratic Pop Vote: 440,726 Republican Pop Vote: 692,634 EC Votes awarded to: Republicans

Popular Vote



USABILITY TEST

15 users tested the visualization

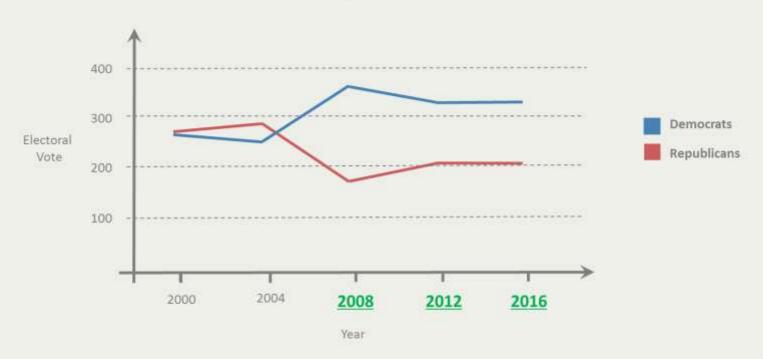
Major Findings:

- a. Navigation is complex with a single page scrolling
- b. Users don't like/read large block of text at beginning
- c. Purpose of race controls is not obvious
- d. Meaning of colors is unclear
 - a. Red and blue for which party?
 - b. Yellow for the selected state
- e. Winner is not evident

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2016 US Presidential Elections MIDS W209 Final Project - Summer 2016

>> Click on a year for details <<



USABILITY IMPROVEMENTS

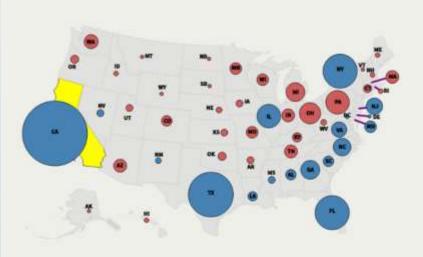
Electoral College Tally

250

Predict the 2016 election

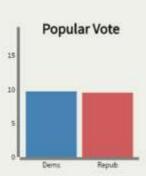
>> Click on the state to see details <<



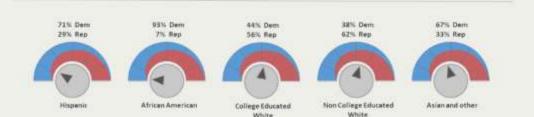


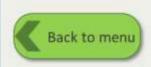
California

Democratic Pop Vote: 9,696,381 Republican Pop Vote: 9,514,500 EC Votes awarded to: Democrats State Winner: Hillary Clinton EC Votes awarded: 55

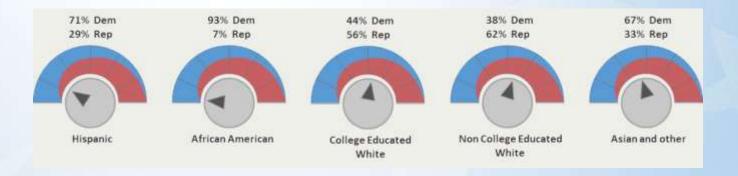


>> Change the percentage of votes for every race group <<





USABILITY IMPROVEMENTS







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- Remove the initial flag and the text
- Add an initial menu with the shape of a line chart showing Democratic vs Republican performance over the years
- For 2008, 2012 and 2016 observations a link to the visualization
- Add explicit navigation buttons rather than scrolling
- Small snippets of text integrated with the visualization
- Legend for colors
- Change the shape of the race controllers to catch attention
- Winner is more evident with a highlighting box

Choice of Technology

- D3 + Javascript + SVG/CSS/HTML + Bootstrap
- Why?
 - Point and click software like Tableau too limiting - not all visualizations supported
 - 2. Need more flexible ways of linking data to visual elements D3's binding data to SVG elements very natural.
 - 3. All three of us are programmers
 - a. Prefer fine grained control over canned coarse grain
 - b. Prefer programming to point and click



LIVE DEMO

http://people.ischool.berkeley.edu/~subhashini.r/

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