

Polls, surveys and rankings

Three wrongs and some rights

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Who will win the presidency?

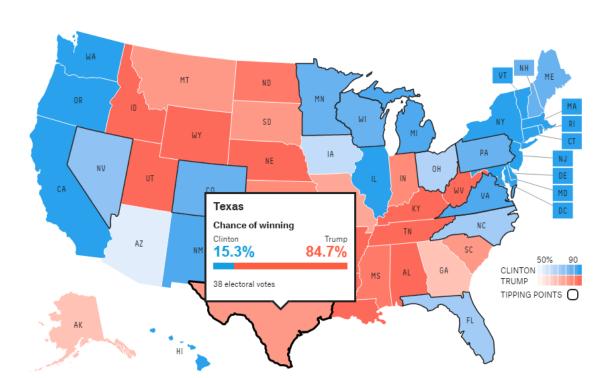


Chance of winning

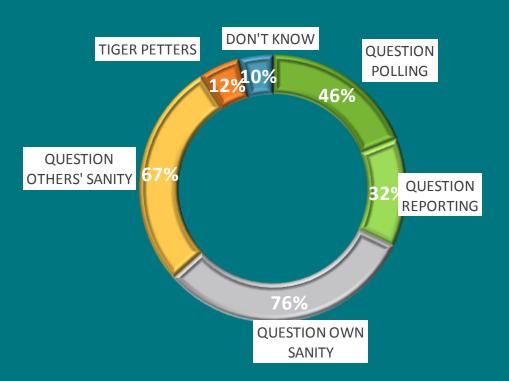


Donald Trump
12.9%





THE ELECTION MADE AMERICANS QUESTION SANITY OF THEMSELVES/OTHERS, ACCORDING TO MATT'S SURVEY



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Any negative polls are fake news, just like the CNN, ABC, NBC polls in the election. Sorry, people want border security and extreme vetting.

RETWEETS

LIKES

27.897

118,258





















'Trump administration seen as more truthful than news media' bit.ly/2k4b0imEmerson...









Who we are

PETER GADE, PHD

CURRENT: GAYLORD CHAIR OF JOURNALISM AT THE UNIVERSITY OF OKLAHOMA

PAST: CO-EDITOR OF *CHANGING*THE NEWS (2011) AND COAUTHOR OF *TWILIGHT OF PRESS*FREEDOM (2001)

CHRIS JACKSON

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PAST: DIRECTOR, KRC RESEARCH; RESEARCHER, BELDEN RUSSONELLO AND STEWART;

MATT CARMICHAEL

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PAST: EDITOR, RESEARCHER AT: ADVERTISING AGE; CRAIN'S CHICAGO BUSINESS; LIVABILITY.COM



The first wrong:

SAMPLING ERROR

Who are the people in your survey and why does that matter?



Types of polls and sampling

How the sample is drawn is essential to determining a poll's validity or truthfulness.

Sampling error occurs through the process of determining whom to include as participants in the poll.

To make inferences from a sample to a population – to generalize, you want a sample that is representative of the population.

To control for sampling bias, researchers allow the "process of pure chance" (randomness) to work.



Random Samples

Randomness means totally left to chance.

To ensure randomness:

- 1) Sample selected in a way only chance operates, and
- 2) every member of the population has an equal chance of being chosen.

Non-random samples (convenience, volunteer, purposive, quota) are unlikely to produce data that can be generalized to populations.



Polls and sampling error

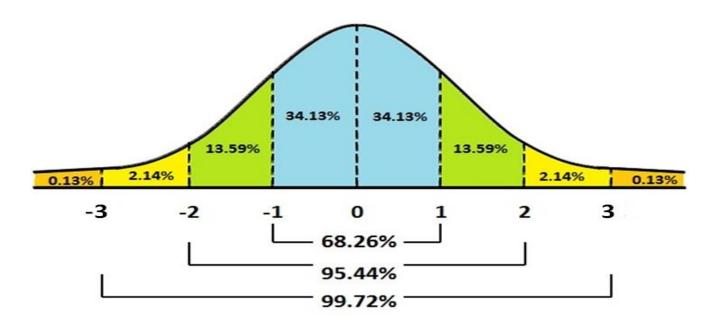
When researchers refer to *margin of error*, they are referring to *sampling error (SE)*.

Sampling error (or standard error) is a measure of how much a sample varies from other samples we could draw from the same population.

Put another way, if we drew additional samples of the same size from the same population, how similar/different would they be?



The normal curve



The **Central Limit Theorem** (normal curve) indicates that 95% of additional theoretical samples would fall within +/- 2 SE of the percentages in the sample.

New York Times on election day

CLINTON: 45.9%

TRUMP: 42.8%

- The percentages were a national average of leading polls.
- Sampling methods differed across polls.
 Data were weighted.
- No margin of error was reported.





Interpreting the poll

LET'S SUPPOSE THE NYT ELECTION DAY POLL RESULTED FROM A SINGLE NATIONAL RANDOM SAMPLE THAT PRODUCED A MARGIN OF ERROR (SE) OF +/- 3%.

Considering the margin of error, another poll taken from same population is 95% likely to return these results of support for each candidate:

Clinton: 45.9% +/- 3% = 42.9 to 48.9%

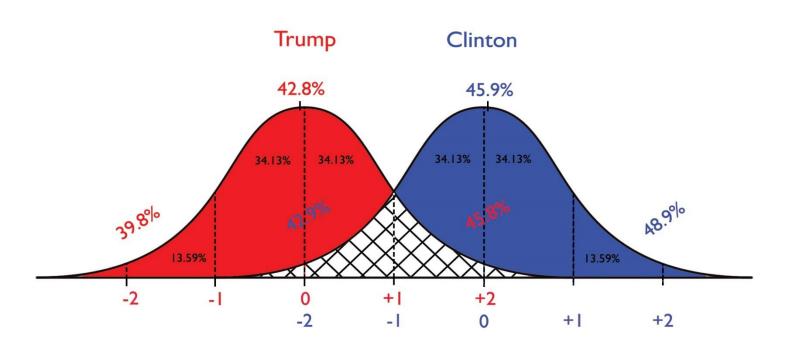
Trump: 42.8% + / - 3% = 39.8 to 45.8%

We can conclude (at 95% confidence level):

--Clinton and Trump are within margin of error – no clear leader



Illustrating Margin of Error



What went wrong?

The poll was a national average of polls that could calculate sampling error (random) and those that could not. A mish-mash.

Weighting. This introduces the likelihood of additional sampling error.

Polls respondents, especially those online, are not representative of the broader population.

These factors contributed to **sampling error**.

Other factors may have contributed to **measurement error**.



The second wrong:

MEASUREMENT ERROR

Polls Are Not Machines



Catch-all for Mistakes and Assumptions

PROBLEMS INCLUDE:

INCORRECT SAMPLE SELECTION

RESPONDENT MISTAKES

DATA TABULATION OR PROCESSING MISSES

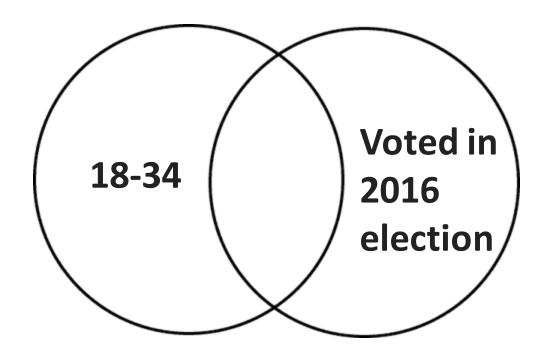


Mainstream Media Accountability Survey

17. Do you believe that the mainstream media has reported unfairly on our movement? Yes No No opinion 2. Do you trust MSNBC to report fairly on Trump's presidency?
1. Do you believe that the mainstream media has reported unfairly on our movement? Yes No No No opinion Other, please specify:
No No opinion No opinion Other please specify:
No opinion No opinion Other please specify:
Other please specify:
2. Do you trust MSNBC to report fairly on Trump's presidency?
Yes
No
 No opinion 18. Do you believe that the media uses slure on issues like border control, religious lit
3. Do you trust CNN to report fairly on Trump's presidency?
Yes
No opinion
 Other, please specify:

Coverage Error (Sample Selection)

• When the survey talks to the wrong population.



Coverage Error (Sample Selection)

HOW TO SPOT:

- Look at the specified sample and ask, is this the right group?
- Does this population make sense with the questions?
- Can a survey actually reach the populations they claim to be covering.

Response Errors

- When respondents provide incorrect information.
- Intentionally: Respondents misrepresent themselves.
- Unintentionally: Respondents make mistakes answering questions.

HUFFPOLLSTER: Battleground State Polls Missed In White Working-Class Areas

SHY TRUMPERS

The rich and educated don't like to admit they're voting for Trump

How Many People Support Trump but Don't Want to Admit It?



Response Errors

HOW TO SPOT:

- Intentional is hard to spot.
 - Analysts have to check for discrepancies in answering.
 - Reporting and investigation is actually a great way to detect.
- Unintentional is about being able to understand the perspective of respondents.
 - Are the questions understandable and clearly designed?
 - Is the topic something people know enough to answer?



Data Tabulation Errors

Mistakes when tabulating data

Less of an issue with technology adoption

HOW TO SPOT:

- For polling in developed economies, less of an issue.
- For polling face to face or in developed markets, ask about quality control standards



Poorly Worded Questions

Related to respondent error

Researchers may, intentionally or unintentionally, write bad questions

EXAMPLES INCLUDE:

- Double barreled questions
- Overly technical questions
- Leading questions
- Incorrect response options

Q. Which do you think is better for the country? Should the Democrats and Republicans compromise some of their positions in order to get things done, or stick to their positions even if it means not getting as much done?

Compromise
Stick to positions
Don't know

Source: New York Times/CBS News Poll 1/12-17/2012



The third wrong INTERPRETATION ERROR

Even with a trustworthy poll, errors can come in how we as journalists interpret the data

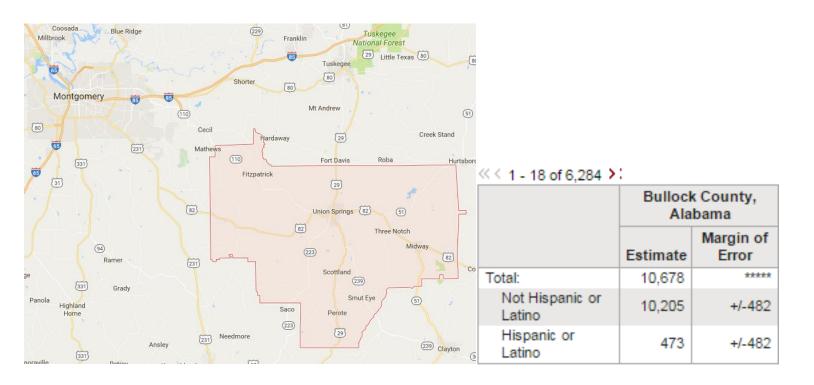


Seven ways to avoid interpretation errors

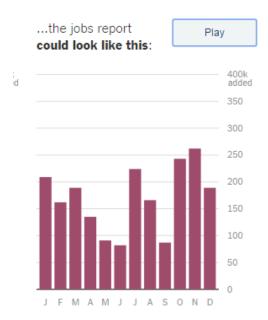
- 1. You can't always invert the pie
- 2. Pay attention to the sample (who's in, and who's out?)
- 3. Data you see might not come from a trained data viz expert
- 4. A small change might not be a change at all, or might be opposite what you think it is
- 5. Beware of what Tufte calls "Spurious precision"
- 6. Generalize: "most," "nearly," "roughly," and "about" are your friends
- 7. Be especially careful of sub-groups



Welcome to Bullock Co.: Hispanic pop. -9



Watch the margins



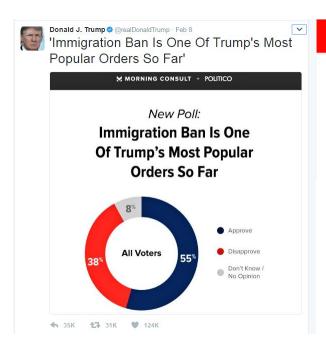
If the economy actually added 150,000 jobs last month, it would be possible to see any of these headlines:

The jobs number is just an estimate, and it comes with uncertainty.

Job Growth Plummets Amid Prospect Of New Slump	Disappointing Jobs Report Raises Economic Worries	Slower Job Creation Disappoints Economists	Job Growth Steady, New Report Says	Job Creation Accelerates In Sign Of Economy Improving	Job Growth Robust, Pointing To Economy Surging
Under 55,000 jobs	55,000 to 110,000	110,000 to 140,000	160,000 to 190,000	190,000 to 245,000	245,000+
4% chance	19% chance	19% chance	19% chance		4% chance



Avoid cherry-picking





BY ANTHONY CUTHBERTSON ON 2/23/17 AT 7:04 AM

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Don't bend a poll to your will



POLL: PUBLIC OVERWHELMINGLY SUPPORTS TRUMP PUSH TO LIMIT MIGRATION





Poll Shows Partisan Divide on Immigration Ban

Democrats, Republicans split evenly on the ban.

By Kenneth T. Walsh | Contributor Feb. 1, 2017, at 7:13 a.m.





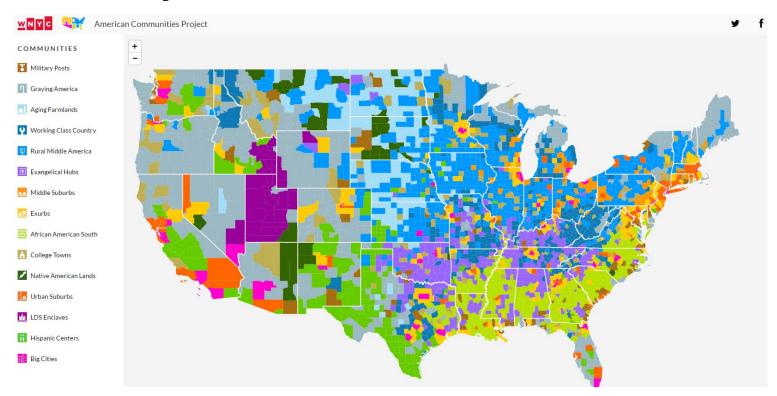
When in doubt: Report



And now, some rights: WAYS TO USE SURVEYS

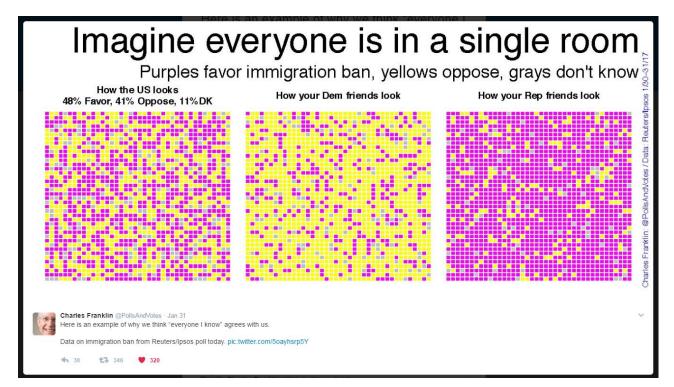
Some quick examples of creative ways to use polling and survey data to add context and texture to your reporting

Choose your own adventure





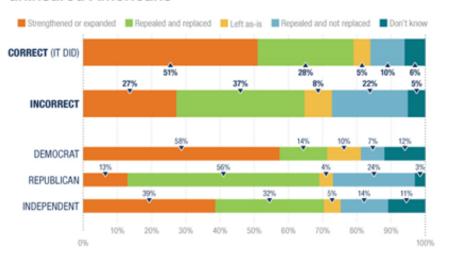
Make it your own



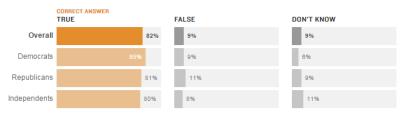


Take a different approach

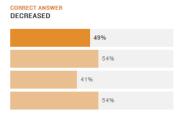
Q: The ACA lead to a decrease in the number of uninsured Americans



True or false: On average, Americans pay more for health care than people in other countries



Since the passage of the ACA, has the number of uninsured Americans increased, decreased or stayed the same?





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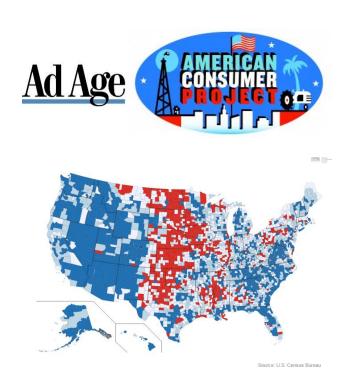
Bake it into something else



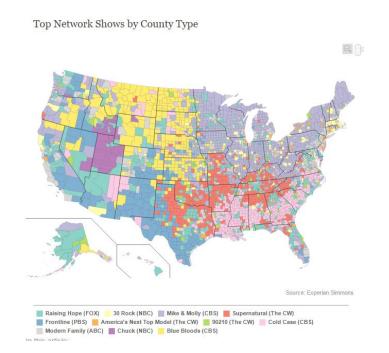




Asking nicely works



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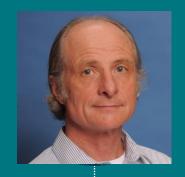
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Thank you!



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