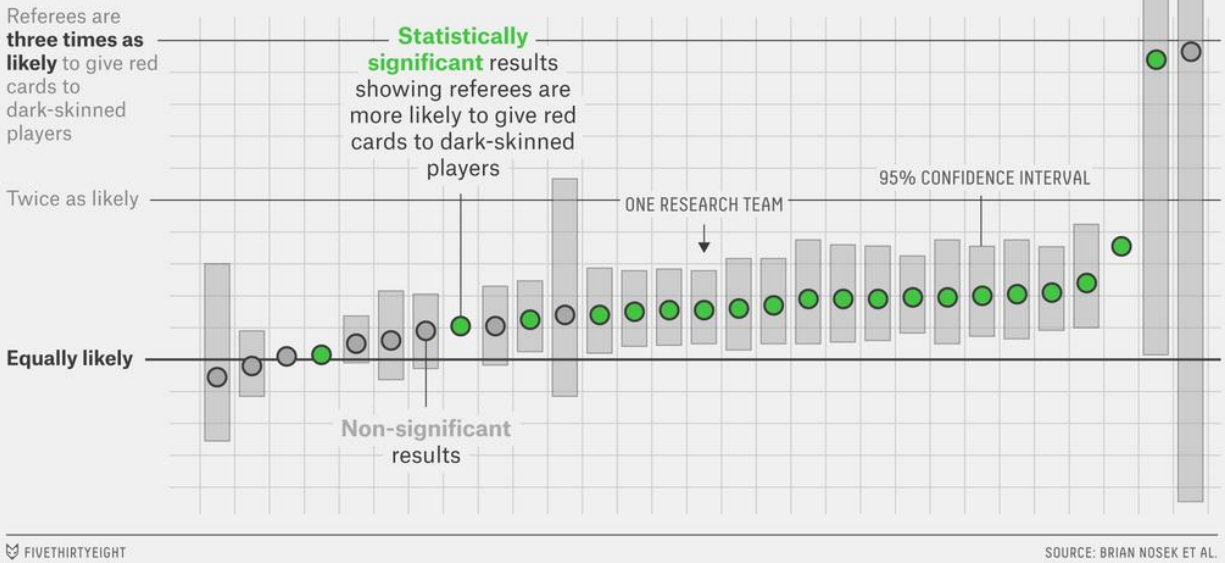


Visualization #1

Same Data, Different Conclusions

Twenty-nine research teams were given the same set of soccer data and asked to determine if referees are more likely to give red cards to dark-skinned players. Each team used a different statistical method, and each found a different relationship between skin color and red cards.

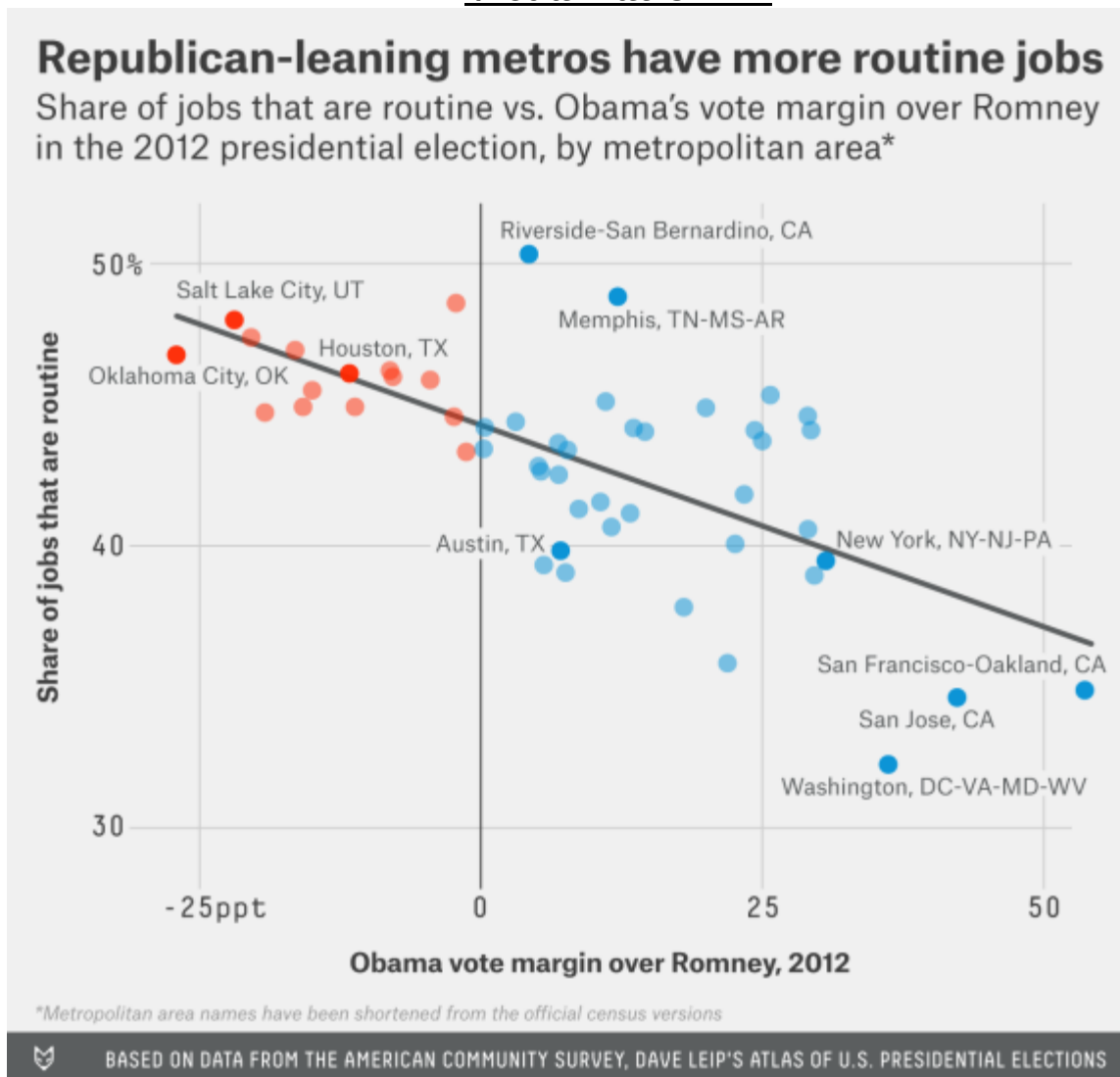


Source: <http://fivethirtyeight.com/features/science-isnt-broken/#part1>

Data Sources and Visual Encodings:

- **Data:** Research Team Result
 - **Data Type:** Quantitative, Discrete
 - **Visual Encoding:** Planar, x-axis, circle
 - **Ordered**
- **Data:** Research Team Result's 95% Confidence Interval
 - **Data Type:** Quantitative, Discrete
 - **Visual Encoding:** Planar, y-axis, rectangle
- **Data:** Research Team Result's Statistical Significance
 - **Data Type:** Categorical, Nominal
 - **Visual Encoding:** Saturation (of the circle)

Visualization #2



Source: <http://fivethirtyeight.com/features/republican-leaning-cities-are-at-greater-risk-of-job-automation/>

Data Sources and Data Encodings:

- **Data:** Obama vote margin over Romney, 2012
 - **Data Type:** Quantitative, Continuous
 - **Data Encoding:** Planar, x-axis
- **Data:** Share of jobs that are routine
 - **Data Type:** Quantitative, Continuous
 - **Data Encoding:** Planar, y-axis
- **Data:** Plurality presidential candidate, 2012
 - **Data Type:** Categorical, Nominal
 - **Data Encoding:** Hue (of the data point)
- **Data:** Average ratio, trend-line
 - **Data Type:** Quantitative, Continuous
 - **Data Encoding:** Orientation