

# Replication Code for Statistical Fallacies in Claims about ‘Massive and Widespread Fraud’ in the 2020 Presidential Election: Examining Claims Based on Aggregate Election Results

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*Accepted, Statistics and Public Policy*

In this file, you will find all the code necessary to recreate any table or figures and other data found in “Statistical Fallacies in Claims about ‘Massive and Widespread Fraud’ in the 2020 Presidential Election: Examining Claims Based on Aggregate Election Results”.



Donald J. Trump

@realDonaldTrump

So, with the revelation of MASSIVE & WIDESPREAD FRAUD & DECEPTION in working closely with Big Tech Companies, the DNC, & the Democrat Party, do you throw the Presidential Election Results of 2020 OUT and declare the RIGHTFUL WINNER, or do you have a NEW ELECTION? A Massive Fraud of this type and magnitude allows for the termination of all rules, regulations, and articles, even those found in the Constitution. Our great “Founders” did not want, and would not condone, False & Fraudulent Elections!

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Dec 03, 2022, 7:44 AM

Figure 1: Truth Social post by former President Donald Trump re the lengths he would be prepared to go to overturn the 2020 election results

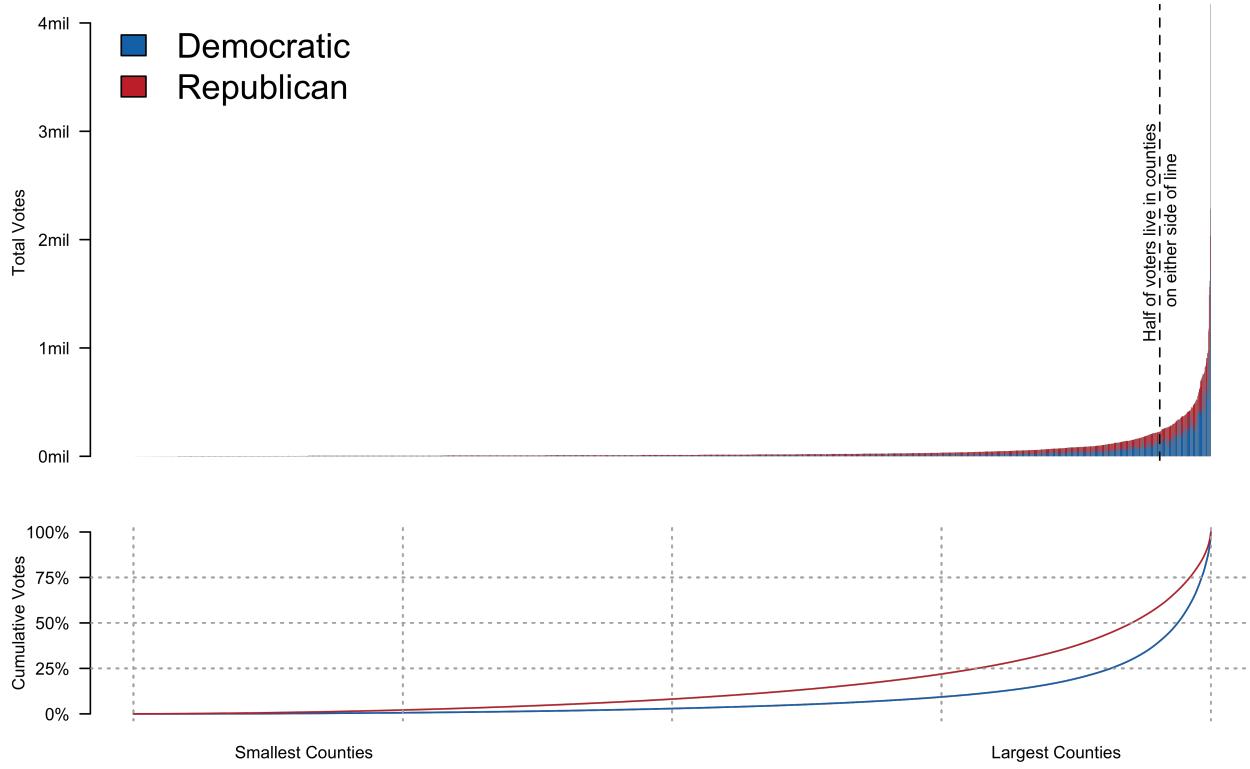


Figure 2: Votes in each County

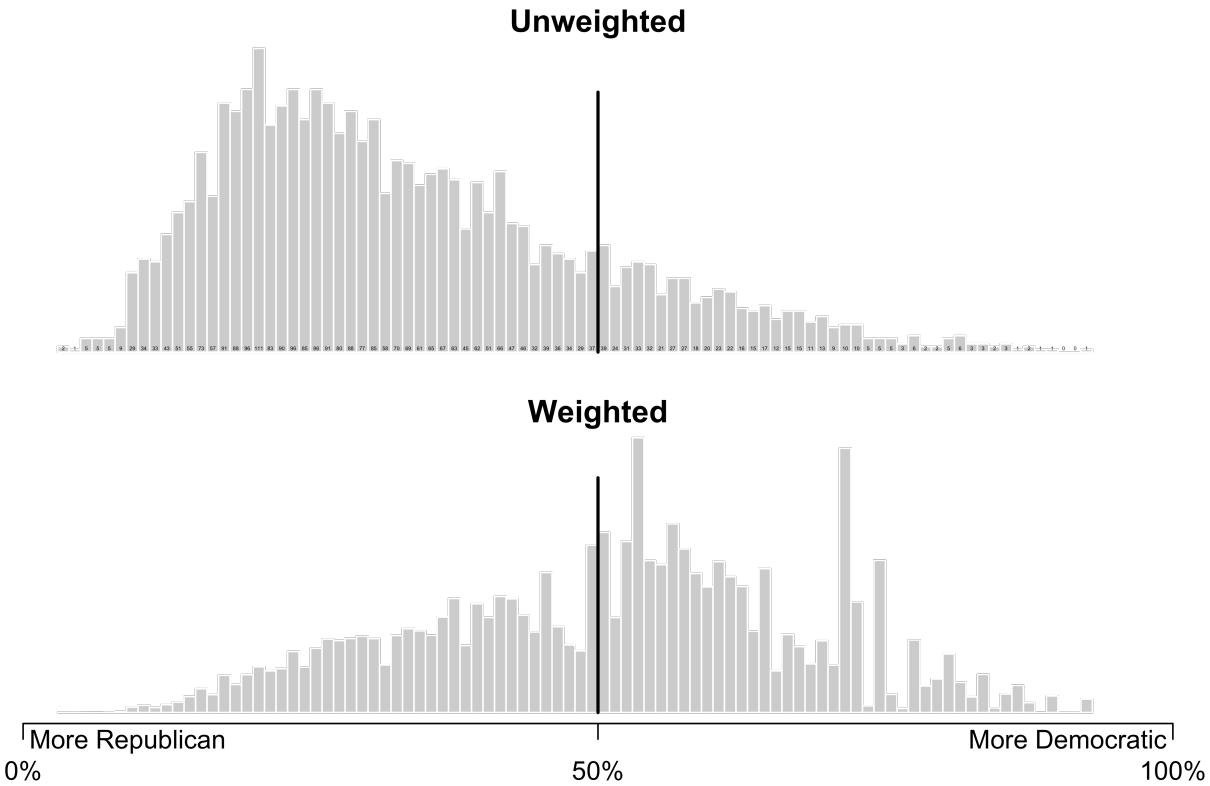


Figure 3: Histogram of the 2020 Presidential Election Results, by County

Table 1: Statistical Fallacies Evaluated from the 2020 election

| Type  | Examples     |
|---|--------------|
| Arithmetic Fallacies  | Cherry-p.... |
| Misinterpreting Statistical Significance  | False Ca.... |
| Meretricious Probabilistic Reasoning  | Double V.... |
| Logically Invalid Arguments with a True Premise involving Historical Election Results Comparisons   | Spoiled .... |
| Logically Valid Arguments with a False Premise involving Historical Election Results Comparisons  | Presiden.... |
| Logically Valid Arguments with False Statistical Premises Using Comparisons Based on Features or Components of the Same Presidential Election | Split ti.... |

Table 2: Popular Vote in Counties Carried by Each Candidate

|                      | Biden Counties | Trump Counties |
|----------------------|----------------|----------------|
| Biden Votes          | 59019426       | 22245568       |
| Trump Votes          | 33564182       | 40644014       |
| Difference Pro-Trump | -25455244      | 18398446       |

Table 3: 2016 and 2020 Exit Polls, by Race

|                 | White | Black | Hispanic | Asian | Other |
|-----------------|-------|-------|----------|-------|-------|
| proportion_vote | 0.70  | 0.12  | 0.11     | 0.04  | 0.03  |
| Democratic      | 0.37  | 0.89  | 0.66     | 0.65  | 0.56  |
| Republican      | 0.57  | 0.08  | 0.28     | 0.27  | 0.36  |
| proportion_vote | 0.67  | 0.13  | 0.13     | 0.04  | 0.04  |
| Democratic      | 0.41  | 0.87  | 0.65     | 0.61  | 0.55  |
| Republican      | 0.58  | 0.12  | 0.32     | 0.34  | 0.41  |

Table 4: Change in Non-Hispanic White Votes between 2016 and 2020

|                          | 2016      | 2020      | Difference |
|--------------------------|-----------|-----------|------------|
| Trump                    | 54531026  | 61565755  | 7034729    |
| Clinton/Biden            | 35397332  | 43520620  | 8123287    |
| Other                    | 5740108   | 1061479   | -4678629   |
| Non-Hispanic White Votes | 95668466  | 106147853 | 10479387   |
| Minority Votes           | 41000771  | 52281778  | 11281007   |
| All Votes                | 136669237 | 158429631 | 21760394   |

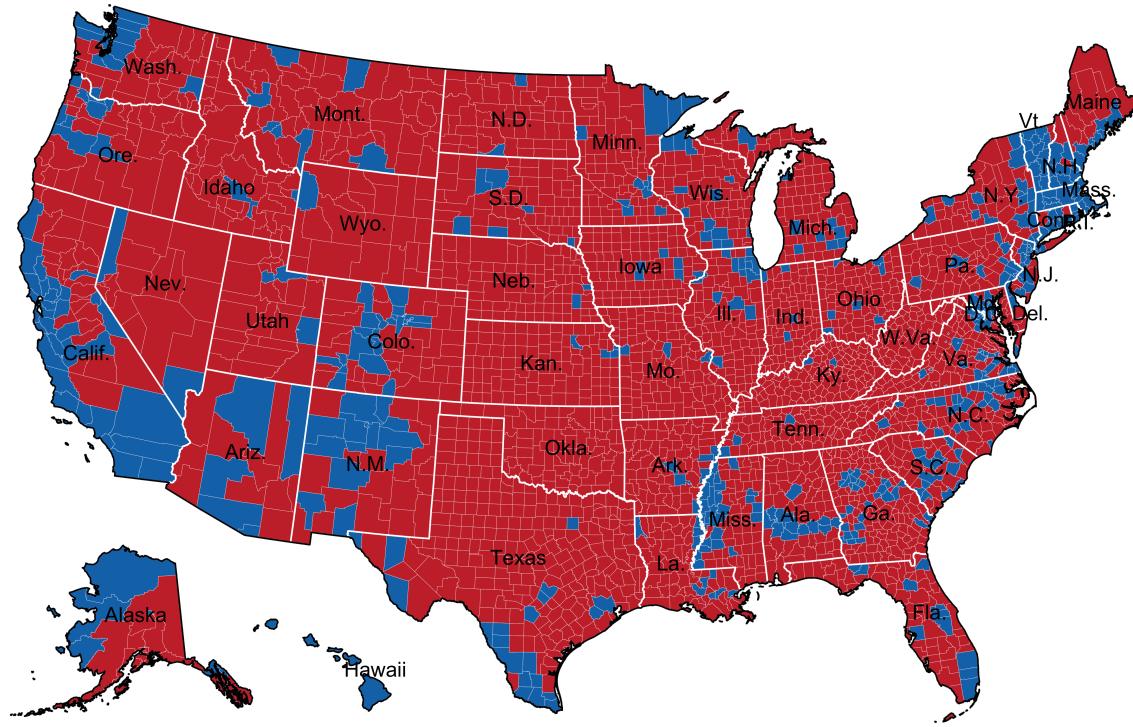


Figure 4: Choropleth Plot, 2020 Presidential Election by county

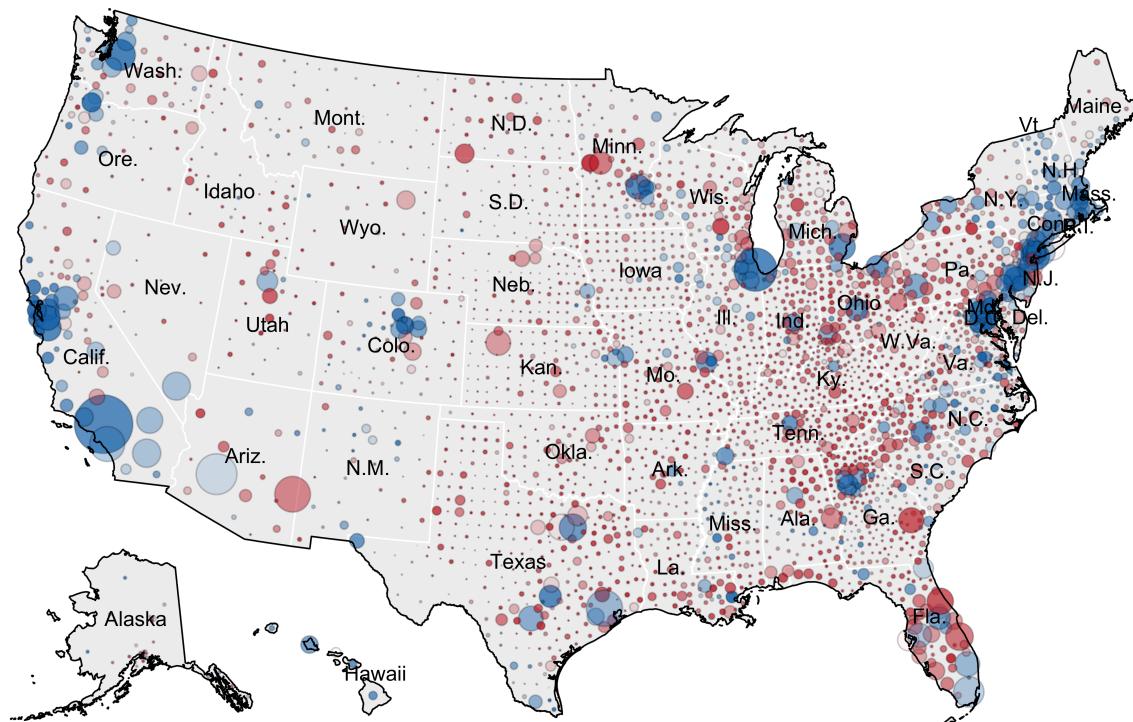


Figure 5: Bubble Plot, 2020 Presidential Election by county

### Kent County, Michigan (2020 Election)

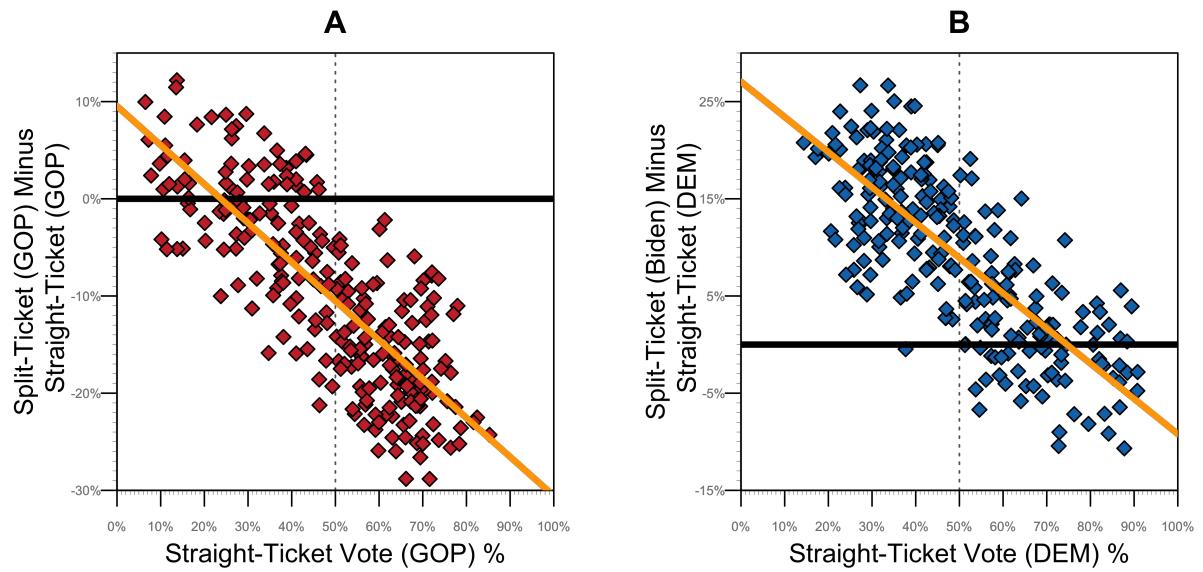


Figure 6: Kent County, Michigan 2020 election data plotted as Ayyadurai shows it

### Kent County, Michigan (2020 Election)

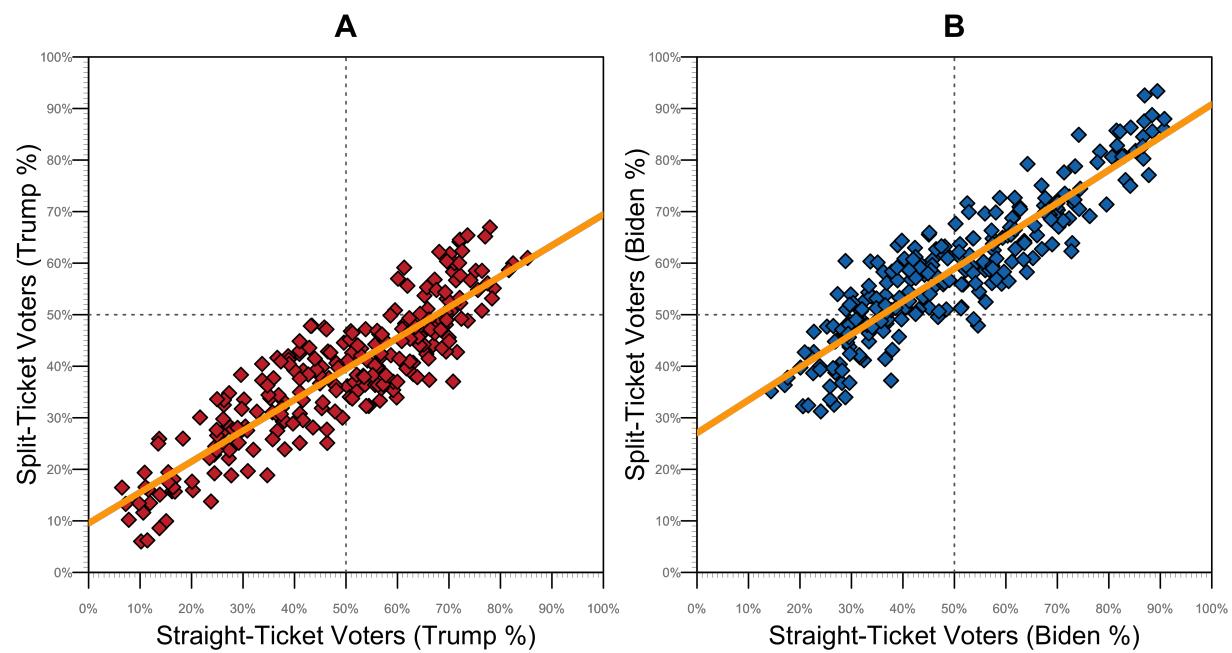


Figure 7: Kent County, Michigan Precinct comparison between Trump Straight-ticket and Trump Split-Ticket Support