

State Presidential

2024-10-26

```
elector <- read.csv("Voting Data - PresidentialResults District.csv")

elector_condensed <- elector %>%
  group_by(state) %>%
  reframe(
    dem_votes_2016 = dpres_vote[year == 2016],
    dem_votes_2020 = dpres_vote[year == 2020],
    predicted_dem = round(1.10 * dpres_vote[year == 2020] - 0.15 * dpres_vote[year == 2016], 0),

    rep_votes_2016 = rpres_votes[year == 2016],
    rep_votes_2020 = rpres_votes[year == 2020],
    predicted_rep = round(1.10 * rpres_votes[year == 2020] - 0.15 * rpres_votes[year == 2016], 0),

    oth_votes_2016 = opres_vote[year == 2016],
    oth_votes_2020 = opres_vote[year == 2020],
    predicted_oth = round(0.7 * opres_vote[year == 2020] + 0.3 * opres_vote[year == 2016], 0),

    predicted_total = predicted_rep + predicted_dem + predicted_oth
  ) %>%
  mutate(
    predicted_dem_share = round(predicted_dem/predicted_total, 4)*100,
    predicted_rep_share = round(predicted_rep/predicted_total, 4)*100,
    predicted_oth_share = round(predicted_oth/predicted_total, 4)*100
  )

elector_results <- subset(elector_condensed, select = c("state", "predicted_rep_share", "predicted_dem_share"))

# Republican analyzed data
elector_results <- elector_results %>%
  filter(state != "Maine" & state != "Nebraska") %>%
  mutate(
    predicted_rep_share = case_when(
      state == "Arizona" ~ 48.43,
      state == "Georgia" ~ 50.18,
      state == "Florida" ~ 52.52,
      state == "Michigan" ~ 48.37,
      state == "Nevada" ~ 47.09,
      state == "North Carolina" ~ 50.10,
      state == "Pennsylvania" ~ 48.36,
      state == "Wisconsin" ~ 48.95,
      TRUE ~ predicted_rep_share
    ),
    predicted_dem_share = case_when(
      state == "Arizona" ~ 50.00,
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state == "Georgia" ~ 48.55,
state == "Florida" ~ 46.80,
state == "Michigan" ~ 50.09,
state == "Nevada" ~ 50.40,
state == "North Carolina" ~ 48.93,
state == "Pennsylvania" ~ 50.02,
state == "Wisconsin" ~ 49.34,
TRUE ~ predicted_dem_share
),
predicted_oth_share = case_when(
state == "Arizona" ~ 1.56,
state == "Georgia" ~ 1.26,
state == "Florida" ~ 0.684,
state == "Michigan" ~ 1.54,
state == "Nevada" ~ 2.51,
state == "North Carolina" ~ 0.93,
state == "Pennsylvania" ~ 1.62,
state == "Wisconsin" ~ 1.71,
TRUE ~ predicted_oth_share
)
)

```

```

elector_popular <- subset(elector_condensed, select = c("state", "predicted_dem", "predicted_rep", "pre

```

```

elector_popular <- elector_popular %>%
  filter(state != "Nebraska" & state != "Maine") %>%
  mutate(
    predicted_rep = case_when(
      state == "Arizona" ~ 1597090,
      state == "Georgia" ~ 2468882,
      state == "Florida" ~ 5656163,
      state == "Michigan" ~ 2686928,
      state == "Nevada" ~ 659338,
      state == "North Carolina" ~ 2760412,
      state == "Pennsylvania" ~ 3140167,
      state == "Wisconsin" ~ 1619994,
      TRUE ~ predicted_rep
    ),
    predicted_dem = case_when(
      state == "Arizona" ~ 1648664,
      state == "Georgia" ~ 2388833,
      state == "Florida" ~ 5040368,
      state == "Michigan" ~ 2782086,
      state == "Nevada" ~ 705627,
      state == "North Carolina" ~ 2697887,
      state == "Pennsylvania" ~ 3247857,
      state == "Wisconsin" ~ 1633160,
      TRUE ~ predicted_dem
    ),
    predicted_oth = case_when(
      state == "Arizona" ~ 51466,
      state == "Georgia" ~ 62139,
      state == "Florida" ~ 73701,

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    state == "Michigan" ~ 85406,
    state == "Nevada" ~ 35096,
    state == "North Carolina" ~ 51363,
    state == "Pennsylvania" ~ 105292,
    state == "Wisconsin" ~ 56613,
    TRUE ~ predicted_oth
  ),
  predicted_total = predicted_rep + predicted_dem + predicted_oth
)

```

#Raw Numbers

```
print(elector_popular, n = Inf)
```

```
## # A tibble: 54 x 5
##   state      predicted_dem predicted_rep predicted_oth predicted_total
##   <chr>          <dbl>      <dbl>      <dbl>      <dbl>
## 1 Alabama      825154      1387549      36082      2248785
## 2 Alaska       151688      184438      16678      352804
## 3 Arizona      1648664      1597090      51466      3297220
## 4 Arkansas      409251      733981      33092      1176324
## 5 California   10908207      5934500      412491     17255198
## 6 Colorado      1783957      1320695      104831      3209483
## 7 Connecticut   1054112      685838      34419      1774369
## 8 DC            306631      18536       7385      332552
## 9 Delaware      290554      192894      9424      492872
## 10 Florida      5040368      5656163      73701     10770232
## 11 Georgia      2388833      2468882      62139      4919854
## 12 Hawaii       362709      197223      12819      572751
## 13 Idaho        287258      548173      27311      862742
## 14 Illinois     3355497      2369678     143335     5868510
## 15 Indiana      1211689      1668878      83028      2963595
## 16 Iowa         736917      867292      41652      1645861
## 17 Kansas       563305      747894      38024      1349223
## 18 Kentucky     755393      1278865      42479      2076737
## 19 Louisiana     824614      1204558      36770      2065942
## 20 ME-1         252785      155774      12691      421250
## 21 ME-2         160488      186846      10961      358295
## 22 Maryland     1931836      932580      76797      2941213
## 23 Massachusetts 2321143      1120288      98805      3540236
## 24 Michigan     2782086      2686928      85406      5554420
## 25 Minnesota     1683627      1434029      87112      3204768
## 26 Mississippi   520568      727333      16648      1264549
## 27 Missouri     1217655      1651433      67156      2936244
## 28 Montana      242608      336076      19088      597772
## 29 NE-1         130468      174525      10744      315737
## 30 NE-2         174460      149180      10148      333788
## 31 NE-3         64446      214448      8256      287150
## 32 Nevada       705627      659338      35096      1400061
## 33 New Hampshire 415152      350358      20159      785669
## 34 New Jersey   2546927      1831311      62164      4440402
## 35 New Mexico   493990      394134      36682      924806
## 36 New York     5080405      3150767     135815     8366987

```

```
## 37 North Carolina      2697887      2760412      51363      5509662
## 38 North Dakota        112329       226635       14356       353320
## 39 Ohio                2587957      3044167      114092      5746216
## 40 Oklahoma            491223       979938       50615      1521776
## 41 Oregon              1324105       936932       81112      2342149
## 42 Pennsylvania        3247857      3140167      105292      6493316
## 43 Rhode Island        300356       192833       11668       504857
## 44 South Carolina      1072389      1350305       40441      2463135
## 45 South Dakota        147902       252992       14020       414914
## 46 Tennessee           1127478      1809284       61485      2998247
## 47 Texas               5203358      5776625      200956     11180939
## 48 Utah                569709       874369       55889      1499967
## 49 Vermont             240316       109669       11356       361341
## 50 Virginia            2357704      1893257       94650      4345611
## 51 Washington          2345166      1559854      141621      4046641
## 52 West Virginia       231263       526515       16201       773979
## 53 Wisconsin           1633160      1619994       56613      3309767
## 54 Wyoming             72444       186752       10787       269983
```

```
#Raw Share
```

```
print(elector_results, n = Inf)
```

```
## # A tibble: 54 x 4
##   state      predicted_rep_share predicted_dem_share predicted_oth_share
##   <chr>          <dbl>          <dbl>          <dbl>
## 1 Alabama        61.7            36.7            1.6
## 2 Alaska         52.3            43.0            4.73
## 3 Arizona        48.4            50              1.56
## 4 Arkansas        62.4            34.8            2.81
## 5 California      34.4            63.2            2.39
## 6 Colorado        41.2            55.6            3.27
## 7 Connecticut     38.6            59.4            1.94
## 8 DC              5.57           92.2            2.22
## 9 Delaware        39.1            59.0            1.91
## 10 Florida         52.5            46.8            0.684
## 11 Georgia         50.2            48.6            1.26
## 12 Hawaii          34.4            63.3            2.24
## 13 Idaho           63.5            33.3            3.17
## 14 Illinois        40.4            57.2            2.44
## 15 Indiana         56.3            40.9            2.8
## 16 Iowa            52.7            44.8            2.53
## 17 Kansas          55.4            41.8            2.82
## 18 Kentucky        61.6            36.4            2.05
## 19 Louisiana       58.3            39.9            1.78
## 20 ME-1            37.0            60.0            3.01
## 21 ME-2            52.2            44.8            3.06
## 22 Maryland       31.7            65.7            2.61
## 23 Massachusetts  31.6            65.6            2.79
## 24 Michigan        48.4            50.1            1.54
## 25 Minnesota       44.8            52.5            2.72
## 26 Mississippi     57.5            41.2            1.32
## 27 Missouri        56.2            41.5            2.29
```

## 28 Montana	56.2	40.6	3.19
## 29 NE-1	55.3	41.3	3.4
## 30 NE-2	44.7	52.3	3.04
## 31 NE-3	74.7	22.4	2.88
## 32 Nevada	47.1	50.4	2.51
## 33 New Hampshire	44.6	52.8	2.57
## 34 New Jersey	41.2	57.4	1.4
## 35 New Mexico	42.6	53.4	3.97
## 36 New York	37.7	60.7	1.62
## 37 North Carolina	50.1	48.9	0.93
## 38 North Dakota	64.1	31.8	4.06
## 39 Ohio	53.0	45.0	1.99
## 40 Oklahoma	64.4	32.3	3.33
## 41 Oregon	40	56.5	3.46
## 42 Pennsylvania	48.4	50.0	1.62
## 43 Rhode Island	38.2	59.5	2.31
## 44 South Carolina	54.8	43.5	1.64
## 45 South Dakota	61.0	35.6	3.38
## 46 Tennessee	60.3	37.6	2.05
## 47 Texas	51.7	46.5	1.8
## 48 Utah	58.3	38.0	3.73
## 49 Vermont	30.4	66.5	3.14
## 50 Virginia	43.6	54.2	2.18
## 51 Washington	38.6	58.0	3.5
## 52 West Virginia	68.0	29.9	2.09
## 53 Wisconsin	49.0	49.3	1.71
## 54 Wyoming	69.2	26.8	4

#National Vote Share

```
(rep_pop <- sum(elector_popular$predicted_rep))
```

```
## [1] 72459175
```

```
rep_pop/sum(elector_popular$predicted_total)
```

```
## [1] 0.4673452
```

```
(dem_pop <- sum(elector_popular$predicted_dem))
```

```
## [1] 79391675
```

```
dem_pop/sum(elector_popular$predicted_total)
```

```
## [1] 0.5120583
```