Untitled

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##01

```
#load the data
polls_data_2016 = read.csv("president_general_polls_sorted_end_date_2016.csv")
library(lubridate)
##
## Attaching package: 'lubridate'
## The following objects are masked from 'package:base':
##
       date, intersect, setdiff, union
##
##dimension of this dataset
dim(polls_data_2016)
## [1] 12621
                29
##variable name of the data
names(polls_data_2016)
                            "branch"
##
  [1] "cycle"
                                               "type"
                                                                   "matchup"
## [5] "forecastdate"
                            "state"
                                               "startdate"
                                                                   "enddate"
## [9] "pollster"
                            "grade"
                                               "samplesize"
                                                                   "population"
## [13] "poll_wt"
                            "rawpoll_clinton"
                                               "rawpoll_trump"
                                                                   "rawpoll_johnson"
## [17] "rawpoll_mcmullin" "adjpoll_clinton"
                                               "adjpoll_trump"
                                                                   "adjpoll_johnson"
## [21] "adjpoll_mcmullin" "multiversions"
                                               "url"
                                                                   "poll_id"
                                                                   "total.clinton"
## [25] "question_id"
                           "createddate"
                                               "timestamp"
## [29] "total.trump"
#Filter the data
date_2016= mdy(polls_data_2016$createddate)
index_selected=which(date_2016>='2016-08-01' & date_2016<='2016-11-02')
polls_data_2016 = polls_data_2016[index_selected,]
# Part a
index_Mic=which(polls_data_2016$state=="Michigan")
n1=sum(polls_data_2016$total.clinton[index_Mic])
n2=sum(polls_data_2016$total.trump[index_Mic])
n1/(n1+n2)
```

```
## [1] 0.5182924
n2/(n1+n2)
## [1] 0.4817076
n1/(n1+n2)-n2/(n1+n2)
## [1] 0.0365849
#The final result is 0.0365849, which shows Clinton was ahead with 3.65849%
index_Geo=which(polls_data_2016$state=="Georgia")
n1=sum(polls_data_2016$total.clinton[index_Geo])
n2=sum(polls_data_2016$total.trump[index_Geo])
n1/(n1+n2)
## [1] 0.4664512
n2/(n1+n2)
## [1] 0.5335488
n1/(n1+n2)-n2/(n1+n2)
## [1] -0.0670975
#The final result is -0.0670975, which shows Trump was ahead with 6.70975%
index_Nor=which(polls_data_2016$state=="North Carolina")
n1=sum(polls_data_2016$total.clinton[index_Nor])
n2=sum(polls_data_2016$total.trump[index_Nor])
n1/(n1+n2)
## [1] 0.4978619
n2/(n1+n2)
## [1] 0.5021381
n1/(n1+n2)-n2/(n1+n2)
```

[1] -0.004276271

Part b
polls_data_2016\$enddate

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## [1573] "8/30/16"
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   [1597] "8/30/16"
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   [1639] "8/30/16"
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   [1645] "8/30/16"
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   [1663] "8/30/16"
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   [1669] "8/30/16"
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   [1765] "9/1/16"
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   [1777] "9/1/16"
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   [1831] "9/1/16"
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   [1855] "9/1/16"
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   [1873] "9/1/16"
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   [1879] "9/1/16"
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   [1885] "9/1/16"
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## [1897] "9/1/16"
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## [1903] "9/1/16"
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##	[1921]	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"
##	[1927]	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"
##	[1933]	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"
##	[1939]	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"
##	[1945]	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"
##	[1951]	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"
##	[1957]	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"
##	[1963]	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"
##	[1969]	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"
##	[1975]	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"
##	[1981]	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"
##	[1987]	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"
##	[1993]	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"
##	[1999]	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"
##	[2005]	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"
##	[2011]	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"	"9/1/16"
##	[2017]	"9/1/16"	"9/1/16"	"9/1/16"	"9/2/16"	"9/2/16"	"9/2/16"
##	[2023]	"9/2/16"	"9/2/16"	"9/2/16"	"9/2/16"	"9/2/16"	"9/2/16"
##	[2029]	"9/2/16"	"9/2/16"	"9/2/16"	"9/2/16"	"9/2/16"	"9/2/16"
##	[2035]	"9/2/16"	"9/2/16"	"9/2/16"	"9/2/16"	"9/2/16"	"9/2/16"
##	[2041]	"9/2/16"	"9/2/16"	"9/2/16"	"9/3/16"	"9/3/16"	"9/3/16"
##	[2047]	"9/3/16"	"9/3/16"	"9/3/16"	"9/3/16"	"9/3/16"	"9/3/16"
##	[2053]	"9/4/16"	"9/4/16"	"9/4/16"	"9/4/16"	"9/4/16"	"9/4/16"
##	[2059]	"9/4/16"	"9/4/16"	"9/4/16"	"9/4/16"	"9/4/16"	"9/4/16"
##	[2065]	"9/4/16"	"9/4/16"	"9/4/16"	"9/4/16"	"9/4/16"	"9/4/16"
##	[2071]	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"
##	[2077]	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"
##	[2083]	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"
##	[2089]	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"
##	[2095]	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"
##	[2101]	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"	"9/5/16"
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##	[2137]	"9/6/16"	"9/6/16"	"9/6/16"	"9/6/16"	"9/6/16"	"9/6/16"
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##	[2143]	"9/6/16"		"9/6/16"	"9/6/16" "0/6/16"	"9/6/16"	"9/6/16"
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##	[2185]	"9/6/16"	"9/6/16"	"9/6/16"	"9/6/16"	"9/6/16"	"9/6/16"
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## [8053] "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16"
## [8059] "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16"
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## [8065] "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "10/31/16" "
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    [8263] "11/1/16"
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## [8281] "11/1/16"
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## [8335] "11/1/16"
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    [8365] "11/1/16"
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## [8377] "11/1/16"
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## [8383] "11/1/16"
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## [8389] "11/1/16" "11/1/16" "11/1/16" "11/1/16" "11/1/16" "11/1/16"
## [8395] "11/1/16" "11/1/16" "11/1/16" "11/1/16" "11/1/16" "11/1/16"
## [8401] "11/1/16" "11/1/16" "11/1/16" "11/1/16" "11/1/16" "11/1/16"
## [8407] "11/1/16" "11/1/16" "11/1/16" "11/1/16"
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## [8413] "11/1/16" "11/1/16" "11/1/16" "11/1/16"
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## [8419] "11/1/16" "11/1/16" "11/1/16" "11/1/16" "11/1/16" "11/1/16"
t.test(polls_data_2016$total.clinton[index_Mic]-
         polls_data_2016$total.trump[index_Mic],alternative='greater')
##
##
   One Sample t-test
## data: polls_data_2016$total.clinton[index_Mic] - polls_data_2016$total.trump[index_Mic]
## t = 10.484, df = 167, p-value < 2.2e-16
## alternative hypothesis: true mean is greater than 0
## 95 percent confidence interval:
## 22.52678
                 Tnf
## sample estimates:
## mean of x
## 26.74654
##The t-test result shows a t-value of 10.484 with 167 degrees of freedom.
#The test's p-value is less than 2.2e-16, which is effectively zero and therefore
#statistically significant. This means there's a statistically significant
#difference between the counts in polls for Clinton and Trump in favor of
#Clinton. The confidence interval does not include 0 (22.52678 to infinity),
#and the estimated mean difference is 26.74654, both of which further support
#Clinton being favored in this state.
t.test(polls_data_2016$total.clinton[index_Geo]-
         polls_data_2016$total.trump[index_Geo],alternative='greater')
##
##
   One Sample t-test
## data: polls_data_2016$total.clinton[index_Geo] - polls_data_2016$total.trump[index_Geo]
## t = -19.191, df = 164, p-value = 1
## alternative hypothesis: true mean is greater than 0
## 95 percent confidence interval:
## -56.48463
                   Inf
## sample estimates:
## mean of x
## -52.00212
##Here, the t-value is -19.191 with 164 degrees of freedom.
#The test's p-value is 1, indicating that the result is not statistically
#significant under a traditional alpha level (such as 0.05). The confidence
#interval goes from -56.48463 to infinity and the mean difference is negative
#(-52.00212). This suggests that Trump was favored in this state, but because
#the p-value is not statistically significant, we cannot conclude that
#the observed difference is not due to chance.
```

```
t.test(polls_data_2016$total.clinton[index_Nor]-
         polls_data_2016$total.trump[index_Nor],alternative='greater')
##
## One Sample t-test
##
## data: polls_data_2016$total.clinton[index_Nor] - polls_data_2016$total.trump[index_Nor]
## t = -1.5907, df = 263, p-value = 0.9436
## alternative hypothesis: true mean is greater than 0
## 95 percent confidence interval:
## -6.27371
                  Inf
## sample estimates:
## mean of x
## -3.07883
#The t-value is -1.5907 with 263 degrees of freedom. The p-value is 0.9436,
#suggesting that the result is not statistically significant at the usual
#alpha levels. The confidence interval ranges from -6.27371 to infinity,
#and the mean difference is negative (-3.07883). This implies that Trump
#has a higher count in polls, but as the p-value is not statistically
#significant, the observed difference could be due to chance.
#A potential problem with these tests could be the assumption of normality.
#The t-test assumes that the differences in the data are normally distributed.
#If this assumption is not met, the results may not be valid. Additionally,
#outliers could affect the results of the t-test, leading to biased results.
#Finally, these tests do not account for other factors that could influence
#the election results, such as demographic variables or the timing of the polls.
# Part c
wilcox.test(polls_data_2016$total.clinton[index_Mic], polls_data_2016$total.trump[index_Mic], alternati
## Wilcoxon rank sum test with continuity correction
## data: polls_data_2016$total.clinton[index_Mic] and polls_data_2016$total.trump[index_Mic]
## W = 16505, p-value = 0.003601
## alternative hypothesis: true location shift is greater than 0
#The Wilcoxon rank sum test shows a W-value of 16505 and a p-value of 0.003601.
#Because the p-value is less than the traditional alpha level of 0.05, we can
#conclude that there is a statistically significant difference between the
#counts in polls for Clinton and Trump in favor of Clinton. This is because
#the test's alternative hypothesis is that the true location shift is greater
#than 0, which suggests a preference for Clinton.
wilcox.test(polls_data_2016$total.clinton[index_Geo], polls_data_2016$total.trump[index_Geo], alternati
```

Wilcoxon rank sum test with continuity correction

##

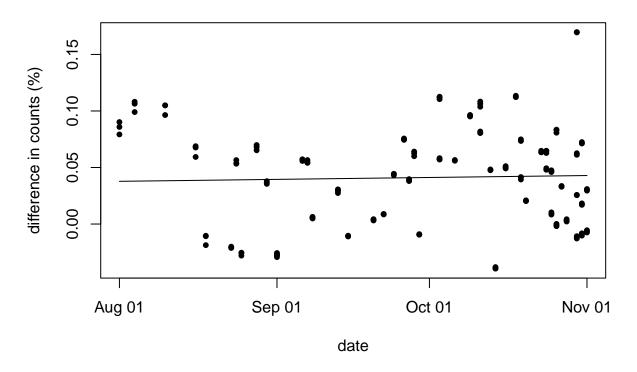
```
##
## data: polls_data_2016$total.clinton[index_Geo] and polls_data_2016$total.trump[index_Geo]
## W = 9341, p-value = 1
## alternative hypothesis: true location shift is greater than 0
#Here, the W-value is 9341, and the p-value is 1. Given that the p-value is not
#less than the usual alpha level of 0.05, we can't conclude that there is a
#statistically significant difference between the counts in polls for Clinton
#and Trump. Despite this, the alternative hypothesis suggests a preference for
#Clinton, but we can't confidently affirm this due to the lack of statistical #significance.
wilcox.test(polls_data_2016$total.clinton[index_Nor], polls_data_2016$total.trump[index_Nor], alternati
##
## Wilcoxon rank sum test with continuity correction
## data: polls_data_2016$total.clinton[index_Nor] and polls_data_2016$total.trump[index_Nor]
## W = 33778, p-value = 0.7293
## alternative hypothesis: true location shift is greater than 0
#The W-value is 33778, and the p-value is 0.7293. Since the p-value is not less
#than the standard alpha level of 0.05, the result is not statistically
#significant. Thus, there is no significant difference between the counts in
#polls for Clinton and Trump in this state. Although the alternative hypothesis
#implies a preference for Clinton, we can't confirm this because of the test's
#non-significant outcome.
\hbox{\tt\#Potential issues with the Wilcoxon signed-rank test include the assumption of}
#symmetry, i.e., the distribution of differences between the pairs should be
#symmetrical. If this assumption is not met, the results may not be valid.
#Furthermore, outliers can impact the Wilcoxon test as the rank of the outliers
#will be affected, thereby influencing the test results. As with the t-test,
#these tests do not account for other factors that could influence the election
#results, such as demographic variables or the timing of the polls.
# Part d
date_Mic <- mdy(polls_data_2016$enddate[index_Mic])</pre>
date_Geo <- mdy(polls_data_2016$enddate[index_Geo])</pre>
date_Nor <- mdy(polls_data_2016$enddate[index_Nor])</pre>
counts_Mic_for_lm <- data.frame(</pre>
  data date = date Mic,
  percentage_diff = (polls_data_2016$total.clinton[index_Mic]-
                       polls_data_2016$total.trump[index_Mic])/
    (polls_data_2016$total.clinton[index_Mic]+
       polls_data_2016$total.trump[index_Mic])
as.numeric(date Mic)
     [1] 17014 17014 17014 17017 17017 17017 17023 17023 17023 17029 17029 17029
```

[13] 17031 17031 17031 17036 17036 17036 17037 17037 17037 17038 17038 17038

```
## [37] 17050 17050 17050 17051 17051 17051 17052 17052 17052 17057 17057
## [49] 17057 17057 17057 17059 17059 17059 17064 17064 17064 17066 17066 17066
## [61] 17068 17068 17068 17070 17070 17070 17071 17071 17071 17072 17072 17072
   [73] 17073 17073 17073 17077 17077 17077 17077 17077 17077 17080 17080
## [85] 17083 17083 17083 17085 17085 17085 17085 17085 17085 17087 17087 17087
## [97] 17088 17088 17088 17090 17090 17090 17092 17092 17092 17093 17093 17093
## [109] 17093 17093 17093 17094 17094 17094 17097 17097 17097 17098 17098 17098
## [121] 17098 17098 17098 17099 17099 17099 17099 17099 17099 17100 17100 17100
## [133] 17100 17100 17100 17101 17101 17101 17102 17102 17102 17104 17104 17104
## [145] 17104 17104 17104 17104 17104 17104 17104 17104 17104 17105 17105 17105
## [157] 17105 17105 17105 17105 17105 17105 17106 17106 17106 17106 17106 17106
lm_model_Mic=lm(percentage_diff~(data_date),data=counts_Mic_for_lm)
summary(lm model Mic)
##
## lm(formula = percentage_diff ~ (data_date), data = counts_Mic_for_lm)
## Residuals:
                         Median
                                                Max
        Min
                   1Q
                                       3Q
## -0.081321 -0.035304 0.003581 0.028445 0.126897
##
## Coefficients:
                Estimate Std. Error t value Pr(>|t|)
## (Intercept) -9.087e-01 2.123e+00 -0.428
                                               0.669
               5.563e-05 1.243e-04
                                      0.447
                                               0.655
## data_date
##
## Residual standard error: 0.04336 on 166 degrees of freedom
## Multiple R-squared: 0.001205, Adjusted R-squared: -0.004812
## F-statistic: 0.2002 on 1 and 166 DF, p-value: 0.6551
#The fitted linear model's coefficient for data_date (representing time) is
\#5.563e-05, which is not statistically significant (p = 0.655).
#This means there is no statistically significant linear trend in the percentage
#difference in polls over time for this state. The Adjusted R-squared value is
#-0.004812, indicating the model explains very little of the variance in the data.
plot(counts_Mic_for_lm$data_date,counts_Mic_for_lm$percentage_diff,
     col='black',pch=20,type='p',xlab='date',ylab='difference in counts (%)',main='Michigan')
lines(counts_Mic_for_lm$data_date,lm_model_Mic$fitted.values,
     col='black',pch=20,type='l',xlab='date',ylab='difference in counts (%)',main='Michigan')
```

[25] 17041 17041 17041 17043 17043 17043 17045 17045 17045 17045 17045 17045

Michigan



#The plot is slightly increasing, showing that the winning rate for Clinton is #increasing slowly.

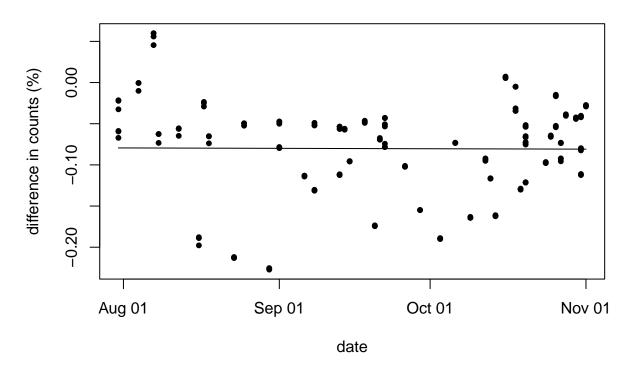
```
##
     [1] 17013 17013 17013 17013 17013 17013 17017 17017 17017 17020 17020 17020
##
    [13] 17021 17021 17021 17025 17025 17025 17029 17029 17029 17030 17030 17030
    [25] 17031 17031 17031 17036 17036 17036 17038 17038 17038 17043 17043 17043
##
    [37] 17045 17045 17045 17045 17045 17045 17050 17050 17050 17052 17052 17052
##
    [49] 17052 17052 17052 17057 17057 17057 17057 17057 17057 17057 17058 17058 17058
##
    [61] 17059 17059 17059 17062 17062 17062 17064 17064 17064 17065 17065 17065
    [73] 17066 17066 17066 17066 17066 17066 17066 17066 17066 17070 17070
##
    [85] 17073 17073 17073 17077 17077 17077 17080 17080 17080 17083 17083 17083
   [97] 17086 17086 17086 17087 17087 17087 17088 17088 17088 17090 17090 17090
## [109] 17092 17092 17092 17092 17092 17092 17093 17093 17093 17094 17094 17094
   [121] 17094 17094 17094 17094 17094 17094 17094 17094 17094 17094 17098 17098
  [133] 17099 17099 17099 17100 17100 17100 17100 17100 17100 17101 17101 17101
## [145] 17101 17101 17101 17102 17102 17102 17104 17104 17104 17105 17105 17105
```

[157] 17105 17105 17105 17105 17105 17105 17106 17106 17106

lm_model_Geo=lm(percentage_diff~(data_date),data=counts_Geo_for_lm)

```
summary(lm_model_Geo)
##
## Call:
## lm(formula = percentage_diff ~ (data_date), data = counts_Geo_for_lm)
## Residuals:
##
       Min
                  1Q
                     Median
                                    ЗQ
                                            Max
## -0.14732 -0.03146 0.01223 0.03239 0.13947
##
## Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
##
## (Intercept) 1.920e-01 2.610e+00 0.074
## data_date -1.595e-05 1.529e-04 -0.104
                                                0.917
## Residual standard error: 0.05609 on 163 degrees of freedom
## Multiple R-squared: 6.675e-05, Adjusted R-squared: -0.006068
## F-statistic: 0.01088 on 1 and 163 DF, p-value: 0.917
#Here, the coefficient for data_date is -1.595e-05, which is also not
\#statistically significant (p = 0.917). This means there is no significant
#linear trend in the percentage difference in polls over time for this state.
#The Adjusted R-squared value is -0.006068, suggesting that the model doesn't
#explain the variance in the data well.
plot(counts_Geo_for_lm$data_date,counts_Geo_for_lm$percentage_diff,
     col='black',pch=20,type='p',xlab='date',ylab='difference in counts (%)',main='Georgia')
lines(counts_Geo_for_lm$data_date,lm_model_Geo$fitted.values,
      col='black',pch=20,type='l',xlab='date',ylab='difference in counts (%)',main='Georgia')
```

Georgia



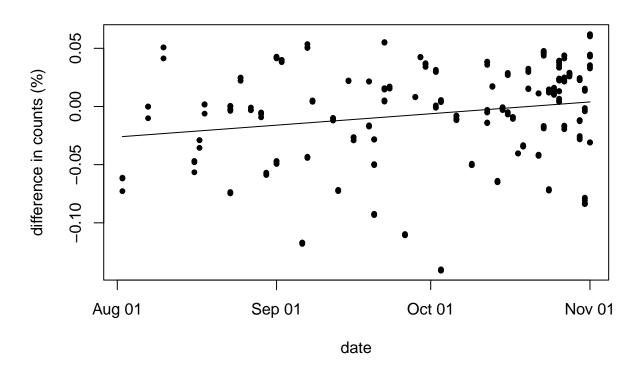
#The plot is almost horizontal, showing that the winning rate for Clinton/Trimp #is not significantly changing. So it would be the closest race.

```
##
     [1] 17015 17015 17015 17020 17020 17020 17023 17023 17023 17023 17029 17029 17029
    [13] 17030 17030 17030 17031 17031 17031 17036 17036 17036 17036 17036 17036
##
##
    [25] 17036 17036 17036 17038 17038 17038 17040 17040 17040 17042 17042 17042
    [37] 17043 17043 17043 17045 17045 17045 17045 17045 17045 17046 17046 17046
    [49] 17050 17050 17050 17051 17051 17051 17051 17051 17051 17051 17052 17052 17052
    [61] 17056 17056 17056 17057 17057 17057 17059 17059 17059 17060 17060 17060
    [73] 17063 17063 17063 17063 17063 17064 17064 17064 17064 17064 17064
##
    [85] 17064 17064 17064 17066 17066 17066 17066 17066 17066 17066 17066 17066
    [97] 17067 17067 17067 17070 17070 17070 17072 17072 17072 17073 17073 17073
  [109] 17074 17074 17074 17076 17076 17076 17076 17076 17077 17077 17077
  [121] 17077 17077 17077 17080 17080 17080 17080 17080 17080 17080 17083 17083 17083
  [133] 17086 17086 17086 17086 17086 17086 17086 17086 17086 17087 17087
## [145] 17088 17088 17088 17089 17089 17089 17090 17090 17090 17090 17090
```

```
## [205] 17100 17100 17100 17100 17100 17100 17100 17100 17100 17101 17101 17101
## [217] 17101 17101 17101 17101 17101 17101 17101 17101 17101 17101 17102 17102 17102
## [229] 17102 17102 17102 17104 17104 17104 17104 17104 17104 17104 17104 17104 17104
## [241] 17105 17105 17105 17105 17105 17105 17105 17105 17105 17105 17105 17105
## [253] 17106 17106 17106 17106 17106 17106 17106 17106 17106 17106 17106 17106
lm_model_Nor=lm(percentage_diff~(data_date),data=counts_Nor_for_lm)
summary(lm_model_Nor)
##
## Call:
## lm(formula = percentage_diff ~ (data_date), data = counts_Nor_for_lm)
##
## Residuals:
##
       Min
                  1Q
                     Median
                                    3Q
                                            Max
## -0.13551 -0.02274 0.01072 0.02690 0.07406
##
## Coefficients:
##
                 Estimate Std. Error t value Pr(>|t|)
## (Intercept) -5.5960539 1.7205518 -3.252 0.00129 **
## data_date
               0.0003274 0.0001008
                                       3.249 0.00131 **
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Residual standard error: 0.04147 on 262 degrees of freedom
## Multiple R-squared: 0.03873,
                                    Adjusted R-squared: 0.03506
## F-statistic: 10.56 on 1 and 262 DF, p-value: 0.001309
#The coefficient for data_date is 0.0003274, which is statistically
\#significant (p = 0.00131). This suggests there is a significant positive
#linear trend in the percentage difference in polls over time for this state.
#The Adjusted R-squared value is 0.03506, indicating that the model explains
#about 3.5% of the variance in the data, which is relatively low, but higher
#than the other two states.
plot(counts_Nor_for_lm$data_date,counts_Nor_for_lm$percentage_diff,
     col='black',pch=20,type='p',xlab='date',ylab='difference in counts (%)',main='North Carolina')
lines(counts_Nor_for_lm$data_date,lm_model_Nor$fitted.values,
     col='black',pch=20,type='l',xlab='date',ylab='difference in counts (%)',main='North Carolina')
```

[157] 17091 17091 17091 17092 17092 17092 17093 17093 17093 17094 17094 17094 17094 ## [169] 17094 17094 17094 17096 17096 17096 17096 17096 17096 17097 17097 17097 17097 17097 17097 17097 17097 17098 17098 17098 17098 17098 17098 17098 17098 ## [193] 17099 17099 17099 17099 17099 17100 17100 17100 17100 17100 17100

North Carolina



#The plot is slightly increasing, showing that the winning rate for Clinton is #increasing slowly.

##Part e

#In reality North Carolina voted 49.83% Trump 46.17% Clinton,
#Michigan voted 47.25% Trump 47.03% Clinton and Georgia voted 50.38%
#Trump 45.29% Clinton. The smallest margin was in Michigan with 0.22%
#Based on the provided real election data, indeed, the state with the smallest
#margin in the 2016 election is Georgia, with a difference of only 0.22%.
#However, if we compare these results with the predictions from the polls,
#there might be some discrepancies. As per the polls, the state of Michigan was
#expected to favor Clinton significantly, whereas the actual results show a rather
#close election. Similarly, in Georgia and North Carolina, the margin of
#difference between the two candidates in actual results appears to be
#smaller than predicted by the polls.

##Potential problems:

#1. Sampling bias: Polls are based on a sample of voters rather than the entire #population of voters.

#2. Late decision-makers: Some voters might not have made up their minds when #they were polled but decided later on, and these late deciders might have #favored Trump over Biden. These changes would not have been captured in polls.

##Part f

#In Michigan, the polls indicated that Clinton would win (average of 26.7% more

#votes than Trump). According to the data we got, Clinton won,
#but the margin was only 2.78%. This indicates a significant overestimation of #Democratic support in t

 $\#In\ Georgia$, the polls showed Trump winning (average of 52% more votes than #Clinton). The actual result, however, was a narrow win for Clinton (0.23% #margin). This suggests a significant underestimation of Democratic support $\#in\ the\ polls$.

#In North Carolina, the polls indicated a close race, but slightly favored Trump $\#(average\ of\ 3.08\%\ more\ votes\ than\ Clinton)$. The actual results showed a $\#win\ for\ Clinton$, albeit with a -1.34% margin. $\#This\ again\ suggests\ an\ underestimation\ of\ Democratic\ support\ in\ the\ polls$.

##Potential problems:

#1. ifferential turnout: The voters who actually turn up to vote on Election Day #may not be the same as those who responded to the polls. For example, #if Trump supporters were more motivated to vote than Biden supporters, #this could have led to Trump receiving a higher proportion of the votes than #expected.

#2. Shy Trump voters: Some research suggests that there may be a subset of Trump #voters who were reluctant to express their support for him in a polling #situation, but who did vote for him on Election Day. If this were the case, #it could explain why Trump's actual vote share was higher than the polls #predicted.

Haocheng Zhang

```
##02
#load the data
polls_data_2020 = read.csv("president_polls_2020.csv")
library(lubridate)
##
## Attaching package: 'lubridate'
## The following objects are masked from 'package:base':
##
##
       date, intersect, setdiff, union
#Filter the data
date_2020= mdy(polls_data_2020$end_date)
index_selected=which(date_2020>='2020-08-01' & date_2020<='2020-11-02')
polls_data_2020 = polls_data_2020[index_selected,]
polls_data_2020_question_id_num=unique(polls_data_2020$question_id)
for(i in 1:length(unique(polls_data_2020$question_id)) ){
  index_set=which(polls_data_2020$question_id==
  polls_data_2020_question_id_num[i])
  if(length(index set)!=2){
    polls_data_2020=polls_data_2020[-index_set,]
}
index_NA=which(is.na(polls_data_2020$sample_size)==T)
index_NA
## [1] 6459 6460
polls_data_2020=polls_data_2020[-index_NA,]
# Part a
index_biden_Mic_2020=which(polls_data_2020$answer=='Biden' & polls_data_2020$state=="Michigan")
index_trump_Mic_2020=which(polls_data_2020$answer=='Trump' & polls_data_2020$state=="Michigan")
counts_biden_Mic_2020=polls_data_2020$pct[index_biden_Mic_2020]*
polls_data_2020$sample_size[index_biden_Mic_2020]
counts_trump_Mic_2020=polls_data_2020$pct[index_trump_Mic_2020]*
```

```
polls_data_2020$sample_size[index_trump_Mic_2020]
n1_2020_Mic=sum(counts_biden_Mic_2020)
n2_2020_Mic=sum(counts_trump_Mic_2020)
n1 2020 Mic
## [1] 15356023
n2 2020 Mic
## [1] 13020191
(n1_2020_Mic-n2_2020_Mic)/(n1_2020_Mic+n2_2020_Mic)
## [1] 0.08231654
#The final result is 0.08231654, which shows Biden was ahead with 8.231654%
index_biden_Geo_2020=which(polls_data_2020$answer=='Biden' & polls_data_2020$state=="Georgia")
index_trump_Geo_2020=which(polls_data_2020$answer=='Trump' & polls_data_2020$state=="Georgia")
counts_biden_Geo_2020=polls_data_2020$pct[index_biden_Geo_2020]*
polls_data_2020$sample_size[index_biden_Geo_2020]
counts trump Geo 2020=polls data 2020$pct[index trump Geo 2020]*
polls_data_2020$sample_size[index_trump_Geo_2020]
n1_2020_Geo=sum(counts_biden_Geo_2020)
n2_2020_Geo=sum(counts_trump_Geo_2020)
n1_2020_Geo
## [1] 13307078
n2_2020_Geo
## [1] 12437490
(n1_2020_Geo-n2_2020_Geo)/(n1_2020_Geo+n2_2020_Geo)
## [1] 0.03377752
#The final result is 0.03377752, which shows Biden was ahead with 3.377752%
index_biden_Nor_2020=which(polls_data_2020$answer=='Biden' & polls_data_2020$state=="North Carolina")
index_trump_Nor_2020=which(polls_data_2020$answer=='Trump' & polls_data_2020$state=="North Carolina")
counts_biden_Nor_2020=polls_data_2020$pct[index_biden_Nor_2020]*
```

```
polls_data_2020$sample_size[index_biden_Nor_2020]
counts_trump_Nor_2020=polls_data_2020$pct[index_trump_Nor_2020]*
polls_data_2020$sample_size[index_trump_Nor_2020]
n1_2020_Nor=sum(counts_biden_Nor_2020)
n2_2020_Nor=sum(counts_trump_Nor_2020)
n1 2020 Nor
## [1] 16857852
n2_2020_Nor
## [1] 14997186
(n1_2020_Nor-n2_2020_Nor)/(n1_2020_Nor+n2_2020_Nor)
## [1] 0.05841043
#The final result is 0.05841043, which shows Biden was ahead with 5.841043%
# Part b
library(lubridate)
polls_data_2020$enddate
## NULL
t.test(polls_data_2020$pct[index_biden_Mic_2020]*polls_data_2020$
sample size[index biden Mic 2020]-polls data 2020$pct[index trump Mic 2020]*
polls_data_2020$sample_size[index_trump_Mic_2020],alternative='greater')
##
##
  One Sample t-test
## data: polls_data_2020$pct[index_biden_Mic_2020] * polls_data_2020$sample_size[index_biden_Mic_2020]
## t = 10.147, df = 101, p-value < 2.2e-16
## alternative hypothesis: true mean is greater than 0
## 95 percent confidence interval:
## 19153.57
                  Tnf
## sample estimates:
## mean of x
## 22900.31
##The t-test result shows a t-value of 10.147 with 101 degrees of freedom.
#The test's p-value is less than 2.2e-16, which is effectively zero and therefore
#statistically significant. This means there's a statistically significant
#difference between the counts in polls for Biden and Trump in favor of
#Biden. The confidence interval does not include 0 (22.52678 to infinity),
#and the estimated mean difference is 22900, both of which further support
#Biden being favored in this state.
```

```
t.test(polls_data_2020$pct[index_biden_Geo_2020]*polls_data_2020$
sample_size[index_biden_Geo_2020]-polls_data_2020$pct[index_trump_Geo_2020]*
polls_data_2020$sample_size[index_trump_Geo_2020],alternative='greater')
##
##
   One Sample t-test
##
## data: polls_data_2020$pct[index_biden_Geo_2020] * polls_data_2020$sample_size[index_biden_Geo_2020]
## t = 6.8926, df = 76, p-value = 6.991e-10
## alternative hypothesis: true mean is greater than 0
## 95 percent confidence interval:
## 8565.036
## sample estimates:
## mean of x
## 11293.34
##The t-test result shows a t-value of 6.8926 with 76 degrees of freedom.
#The test's p-value is less than 6.991e-10, which is effectively zero and
#therefore statistically significant. This means there's a statistically
#significant difference between the counts in polls for Biden and Trump in favor
#Biden. The confidence interval does not include 0 (22.52678 to infinity),
#and the estimated mean difference is 11293.34, both of which further support
#Biden being favored in this state.
t.test(polls_data_2020$pct[index_biden_Nor_2020]*polls_data_2020$
sample_size[index_biden_Nor_2020]-polls_data_2020$pct[index_trump_Nor_2020]*
polls_data_2020$sample_size[index_trump_Nor_2020],alternative='greater')
##
## One Sample t-test
##
## data: polls_data_2020$pct[index_biden_Nor_2020] * polls_data_2020$sample_size[index_biden_Nor_2020]
## t = 8.4302, df = 107, p-value = 8.801e-14
## alternative hypothesis: true mean is greater than 0
## 95 percent confidence interval:
## 13837.52
## sample estimates:
## mean of x
## 17228.39
##The t-test result shows a t-value of 8.4302 with 107 degrees of freedom.
#The test's p-value is less than 8.801e-14, which is effectively zero and
#therefore statistically significant. This means there's a statistically
#significant difference between the counts in polls for Biden and Trump in favor
#Biden. The confidence interval does not include 0 (22.52678 to infinity),
#and the estimated mean difference is 17228.39, both of which further support
#Biden being favored in this state.
#A potential problem with these tests could be the assumption of normality.
#The t-test assumes that the differences in the data are normally distributed.
#If this assumption is not met, the results may not be valid. Additionally,
#outliers could affect the results of the t-test, leading to biased results.
```

```
#Finally, these tests do not account for other factors that could influence
#the election results, such as demographic variables or the timing of the polls.
# Part c
wilcox.test(polls_data_2020$pct[index_biden_Mic_2020]*polls_data_2020$
              sample_size[index_biden_Mic_2020],polls_data_2020$
              pct[index_trump_Mic_2020]*
              polls_data_2020$sample_size[index_trump_Mic_2020],
            alternative = "greater")
##
## Wilcoxon rank sum test with continuity correction
## data: polls_data_2020$pct[index_biden_Mic_2020] * polls_data_2020$sample_size[index_biden_Mic_2020]
## W = 6042, p-value = 0.02322
## alternative hypothesis: true location shift is greater than 0
#The Wilcoxon rank sum test shows a W-value of 6042 and a p-value of 0.02322.
#Because the p-value is less than the traditional alpha level of 0.05, we can
#conclude that there is a statistically significant difference between the
#counts in polls for Biden and Trump in favor of Clinton. This is because
#the test's alternative hypothesis is that the true location shift is greater
#than 0, which suggests a preference for Biden.
wilcox.test(polls_data_2020$pct[index_biden_Geo_2020]*
              polls_data_2020$sample_size[index_biden_Geo_2020],
            polls_data_2020$pct[index_trump_Geo_2020]*
              polls_data_2020$sample_size[index_trump_Geo_2020],
            alternative='greater')
##
## Wilcoxon rank sum test with continuity correction
## data: polls_data_2020$pct[index_biden_Geo_2020] * polls_data_2020$sample_size[index_biden_Geo_2020]
## W = 3203, p-value = 0.1949
## alternative hypothesis: true location shift is greater than 0
#The Wilcoxon rank sum test shows a W-value of 3203 and a p-value of 0.1949.
#Because the p-value is greater than the traditional alpha level of 0.05,
#we can't conclude that there is a
#statistically significant difference between the counts in polls for Biden
#and Trump. Despite this, the alternative hypothesis suggests a preference for
#Biden, but we can't confidently affirm this due to the lack of statistical #significance.
wilcox.test(polls_data_2020$pct[index_biden_Nor_2020]*polls_data_2020$
              sample size[index biden Nor 2020]-polls data 2020$
```

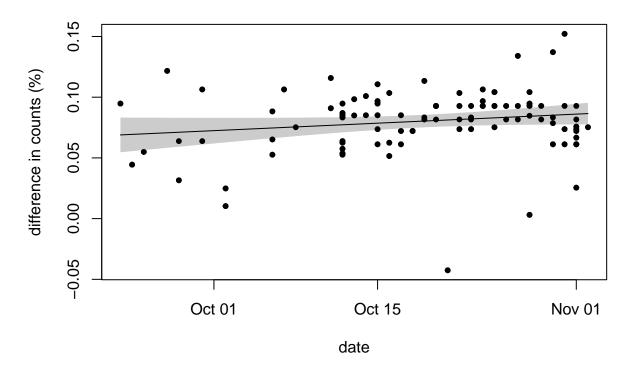
pct[index_trump_Nor_2020]*polls_data_2020\$

sample_size[index_trump_Nor_2020],

alternative='greater')

```
##
## Wilcoxon signed rank test with continuity correction
## data: polls_data_2020$pct[index_biden_Nor_2020] * polls_data_2020$sample_size[index_biden_Nor_2020]
## V = 4999, p-value = 1.205e-15
## alternative hypothesis: true location is greater than 0
#The Wilcoxon rank sum test shows a W-value of 4999 and a p-value of 1.205e-15.
\#Because\ the\ p-value\ is\ less\ than\ the\ traditional\ alpha\ level\ of\ 0.05,\ we\ can
#conclude that there is a statistically significant difference between the
#counts in polls for Biden and Trump in favor of Clinton. This is because
#the test's alternative hypothesis is that the true location shift is greater
#than 0, which suggests a preference for Biden.
##Potential issues with the Wilcoxon signed-rank test include the assumption of
#symmetry, i.e., the distribution of differences between the pairs should be
#symmetrical. If this assumption is not met, the results may not be valid.
#Furthermore, outliers can impact the Wilcoxon test as the rank of the outliers
#will be affected, thereby influencing the test results. As with the t-test,
#these tests do not account for other factors that could influence the election
#results, such as demographic variables or the timing of the polls.
# Part d
counts Mic for lm 2020 <- data.frame(</pre>
 data_date = date_2020[index_trump_Mic_2020],
 percentage_diff = (counts_biden_Mic_2020-counts_trump_Mic_2020)/
    (counts_biden_Mic_2020+counts_trump_Mic_2020)
lm_model_Mic_2020=lm(percentage_diff~(data_date),data=counts_Mic_for_lm_2020)
summary(lm_model_Mic_2020)
##
## Call:
## lm(formula = percentage_diff ~ (data_date), data = counts_Mic_for_lm_2020)
##
## Residuals:
                         Median
        Min
                   1Q
                                        3Q
## -0.123785 -0.011763 0.002129 0.011990 0.066550
##
## Coefficients:
##
                Estimate Std. Error t value Pr(>|t|)
## (Intercept) -8.0684484 4.8076060 -1.678
                                              0.0964 .
## data date 0.0004392 0.0002591
                                       1.695
                                               0.0932 .
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## Residual standard error: 0.02624 on 100 degrees of freedom
## Multiple R-squared: 0.02793,
                                    Adjusted R-squared: 0.01821
## F-statistic: 2.873 on 1 and 100 DF, p-value: 0.09319
```

Michigan



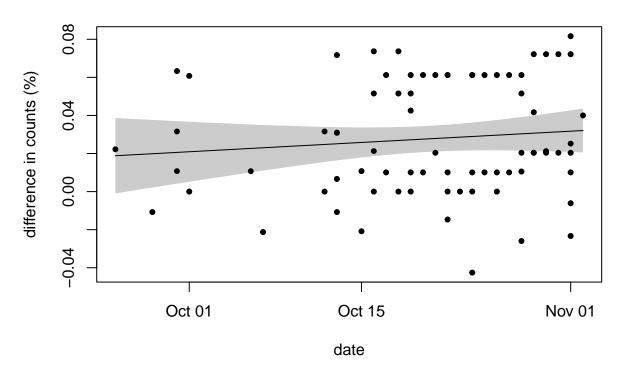
#The plot is slightly increasing, showing that the winning rate for Biden is #increasing slowly.

```
counts_Geo_for_lm_2020 <- data.frame(
    data_date = date_2020[index_trump_Geo_2020],
    percentage_diff = (counts_biden_Geo_2020-counts_trump_Geo_2020)/(counts_biden_Geo_2020+counts_trump_G
)

lm_model_Geo_2020=lm(percentage_diff~(data_date), data=counts_Geo_for_lm_2020)
summary(lm_model_Geo_2020)</pre>
```

```
##
## Call:
## lm(formula = percentage_diff ~ (data_date), data = counts_Geo_for_lm_2020)
## Residuals:
                          Median
##
        Min
                    1Q
                                        3Q
                                                 Max
## -0.071497 -0.019887 -0.009757 0.031584 0.049903
##
## Coefficients:
##
                 Estimate Std. Error t value Pr(>|t|)
## (Intercept) -6.4355049 6.8214883 -0.943
                                                0.348
                0.0003483 0.0003676
                                       0.947
                                                0.346
## data_date
## Residual standard error: 0.03006 on 75 degrees of freedom
## Multiple R-squared: 0.01183,
                                   Adjusted R-squared:
## F-statistic: 0.8977 on 1 and 75 DF, p-value: 0.3464
conf_interval_Geo_fitted_2020= predict(lm_model_Geo_2020, newdata=counts_Geo_for_lm_2020, interval="con
                                       level = 0.95)
plot(counts_Geo_for_lm_2020$data_date,counts_Geo_for_lm_2020$percentage_diff,
     col='black',pch=20,type='p',xlab='date',ylab='difference in counts (%)',main='Georgia')
polygon(c(rev(counts_Geo_for_lm_2020$data_date), counts_Geo_for_lm_2020$data_date),
        c(rev(conf_interval_Geo_fitted_2020[,2]), conf_interval_Geo_fitted_2020[,3]), col = 'grey80', '
lines(counts_Geo_for_lm_2020$data_date,lm_model_Geo_2020$fitted.values,
      col='black',pch=20,type='l',xlab='date',ylab='difference in counts (%)',main='Georgia')
lines(counts_Geo_for_lm_2020$data_date,counts_Geo_for_lm_2020$percentage_diff,
      col='black',pch=20,type='p',xlab='date',ylab='difference in counts (%)',main='Georgia')
```

Georgia

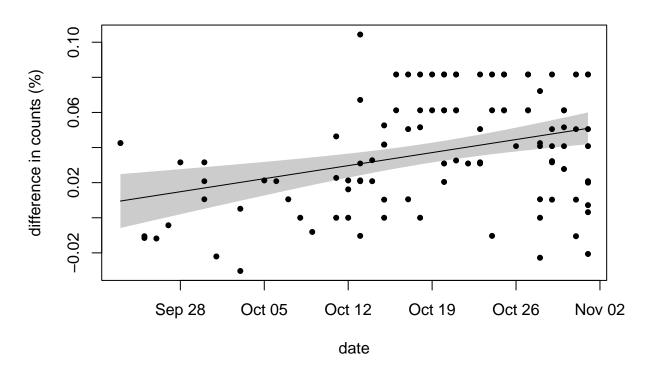


#The plot is slightly increasing, showing that the winning rate for Biden is #increasing slowly.

```
counts_Nor_for_lm_2020 <- data.frame(</pre>
 data_date = date_2020[index_trump_Nor_2020],
  percentage_diff = (counts_biden_Nor_2020-counts_trump_Nor_2020)/(counts_biden_Nor_2020+counts_trump_N
lm_model_Nor_2020=lm(percentage_diff~(data_date), data=counts_Nor_for_lm_2020)
summary(lm_model_Nor_2020)
##
## Call:
## lm(formula = percentage_diff ~ (data_date), data = counts_Nor_for_lm_2020)
##
## Residuals:
##
                          Median
                                         3Q
         Min
                    1Q
                                                  Max
   -0.071556 -0.021322 -0.000993 0.022232
##
## Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
##
## (Intercept) -1.966e+01 5.124e+00 -3.838 0.000211 ***
## data_date
                1.062e-03 2.761e-04
                                        3.845 0.000206 ***
```

Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1

North Carolina



#The plot is significantly increasing, showing that the winning rate for Biden is #increasing significantly.

```
##Part e
#In Michigan the true difference was 50.62% Biden - 47.84% Trump = 2.78%.
#In Georgia the difference was 49.47% Biden - 49.24% Trump = 0.23%.
#In North Carolina the difference was 49.93% Biden - 48.59% Trump = -1.34%.
#The state with the closest margin was Georgia. The polls were correct
```

#that Georgia would be the closest race. However they were incorrect on the #prediction that Biden woul #As per the polls, the state of Michigan was expected to favor Biden #significantly, whereas the actual results show a rather close election.

##Potential problems:

#1. Sampling bias: Polls are based on a sample of voters rather than the entire #population of voters.

#2. Late decision-makers: Some voters might not have made up their minds when #they were polled but decided later on, and these late deciders might have #favored Trump over Biden. These changes would not have been captured in polls.

##Part f

#In Michigan, the polls indicated that Biden would win #According to the data we got, Biden won,

#In Georgia, the polls indicated that Biden would win #According to the data we got, Biden won,

 $\# In\ North\ Carolina$, the polls indicated Biden would win, but $\# as\ a\ result$, $Trump\ won$.

##Potential problems:

#1. ifferential turnout: The voters who actually turn up to vote on Election Day #may not be the same as those who responded to the polls. For example, #if Trump supporters were more motivated to vote than Biden supporters, #this could have led to Trump receiving a higher proportion of the votes than #expected.

#2. Shy Trump voters: Some research suggests that there may be a subset of Trump #voters who were reluctant to express their support for him in a polling #situation, but who did vote for him on Election Day. If this were the case, #it could explain why Trump's actual vote share was higher than the polls #predicted.

Haocheng Zhang

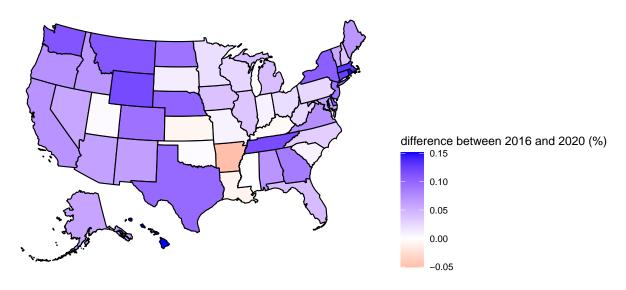
```
##03
#Load the data
polls_data_2016 = read.csv("president_general_polls_sorted_end_date_2016.csv")
polls_data_2020 = read.csv("president_polls_2020.csv")
library(lubridate)
##
## Attaching package: 'lubridate'
## The following objects are masked from 'package:base':
##
##
       date, intersect, setdiff, union
library(usmap)
library(ggplot2)
date_2016= mdy(polls_data_2016$createddate)
index_selected=which(date_2016>='2016-09-01' & date_2016<='2016-11-02')
polls_data_2016 = polls_data_2016[index_selected,]
date_2020= mdy(polls_data_2020$end_date)
index selected=which(date 2020>='2020-09-01' & date 2020<='2020-11-02')
polls_data_2020=polls_data_2020[index_selected,]
index_na=which(is.na(polls_data_2020$sample_size)==T)
polls_data_2020=polls_data_2020[which(polls_data_2020$answer==
                                        'Biden'|polls_data_2020$answer=='Trump'),]
delete_index=which( (polls_data_2020$pollster_id==
                       1610|polls_data_2020$pollster_id==1193)&
                      mdy(polls_data_2020$end_date)!= "2020-11-01")
polls_data_2020=polls_data_2020[-delete_index,]
##now let's delete those poll that only contains one candidate
polls_data_2020_question_id_num=unique(polls_data_2020$question_id)
##clean the data
for(i in 1:length(unique(polls_data_2020$question_id)) ){
  index set=which(polls data 2020$question id==
                    polls_data_2020_question_id_num[i])
```

```
if(length(index_set)!=2){
    polls_data_2020=polls_data_2020[-index_set,]
  }
}
index_NA=which(is.na(polls_data_2020$sample_size)==T)
polls data 2020=polls data 2020[-index NA,]
polls data 2016 enddate=mdy(polls data 2016$enddate)
poll_state_sum_clinton_2016=aggregate(polls_data_2016$total.clinton,
                                      by=list(State=polls_data_2016$state),
                                       FUN=sum)
poll_state_sum_trump_2016=aggregate(polls_data_2016$total.trump,
                                    by=list(State=polls_data_2016$state),
                                    FUN=sum)
poll_state_diff_percentage=poll_state_sum_clinton_2016
poll_state_diff_percentage[,2]=(poll_state_sum_clinton_2016[,2]-
                                  poll_state_sum_trump_2016[,2])/
  (poll_state_sum_clinton_2016[,2]+poll_state_sum_trump_2016[,2])
delete_index=which(levels(poll_state_diff_percentage[,1])=='U.S.')
if(length(delete_index)>0){
  poll_state_diff_percentage=poll_state_diff_percentage[-delete_index,]
  poll_state_diff_percentage[,1]
state_poll_2016 <- data.frame(</pre>
  state =poll_state_diff_percentage[,1],
  diff_percentage=poll_state_diff_percentage[,2]
)
index_biden_2020=which(polls_data_2020$answer=='Biden')
index_trump_2020=which(polls_data_2020$answer=='Trump' )
counts_biden_2020=polls_data_2020$pct[index_biden_2020]*
  polls_data_2020$sample_size[index_biden_2020]
counts_trump_2020=polls_data_2020$pct[index_trump_2020]*
  polls_data_2020$sample_size[index_trump_2020]
polls_data_2020$total.biden=rep(0,dim(polls_data_2020)[1])
polls data 2020$total.trump=rep(0,dim(polls data 2020)[1])
polls_data_2020$total.biden[index_biden_2020]=counts_biden_2020
polls_data_2020$total.trump[index_trump_2020]=counts_trump_2020
poll_state_sum_biden_2020=aggregate(polls_data_2020$total.biden,
                                    by=list(State=polls_data_2020$state),
                                    FUN=sum)
poll_state_sum_trump_2020=aggregate(polls_data_2020$total.trump,
                                     by=list(State=polls_data_2020$state),
                                     FUN=sum)
```

```
poll_state_sum_biden_2020=poll_state_sum_biden_2020[-1,]
poll_state_sum_trump_2020=poll_state_sum_trump_2020[-1,]
state poll 2020 <- data.frame(</pre>
  state =poll_state_sum_biden_2020[,1],
  diff_percentage=(poll_state_sum_biden_2020[,2]-
                     poll_state_sum_trump_2020[,2])/
    (poll_state_sum_biden_2020[,2]+poll_state_sum_trump_2020[,2])
)
limit_val=c(min(state_poll_2016$diff_percentage,state_poll_2020$diff_percentage),
            max(state_poll_2016$diff_percentage,state_poll_2020$diff_percentage))
##difference between 2020 and 2016
##delete nebrask CD-1 and CD-3, US, as 2020 does not have it
state_poll_2016$state
## [1] "Alabama"
                                "Alaska"
                                                        "Arizona"
## [4] "Arkansas"
                                "California"
                                                        "Colorado"
## [7] "Connecticut"
                                "Delaware"
                                                        "District of Columbia"
## [10] "Florida"
                                "Georgia"
                                                        "Hawaii"
## [13] "Idaho"
                                "Illinois"
                                                        "Indiana"
## [16] "Iowa"
                                "Kansas"
                                                        "Kentucky"
## [19] "Louisiana"
                                "Maine"
                                                        "Maine CD-1"
## [22] "Maine CD-2"
                                                        "Massachusetts"
                                "Maryland"
## [25] "Michigan"
                                "Minnesota"
                                                        "Mississippi"
## [28] "Missouri"
                                "Montana"
                                                        "Nebraska"
## [31] "Nebraska CD-1"
                                "Nebraska CD-2"
                                                        "Nebraska CD-3"
                                                        "New Jersey"
## [34] "Nevada"
                                "New Hampshire"
## [37] "New Mexico"
                                "New York"
                                                        "North Carolina"
## [40] "North Dakota"
                                "Ohio"
                                                        "Oklahoma"
## [43] "Oregon"
                                                        "Rhode Island"
                                "Pennsylvania"
## [46] "South Carolina"
                                "South Dakota"
                                                        "Tennessee"
## [49] "Texas"
                                "U.S."
                                                        "Utah"
## [52] "Vermont"
                                                        "Washington"
                                "Virginia"
## [55] "West Virginia"
                                "Wisconsin"
                                                        "Wyoming"
state_poll_2020$state
## [1] "Alabama"
                                "Alaska"
                                                        "Arizona"
## [4] "Arkansas"
                                "California"
                                                        "Colorado"
## [7] "Connecticut"
                                "Delaware"
                                                        "District of Columbia"
## [10] "Florida"
                                "Georgia"
                                                        "Hawaii"
## [13] "Idaho"
                                "Illinois"
                                                        "Indiana"
## [16] "Iowa"
                                "Kansas"
                                                        "Kentucky"
## [19] "Louisiana"
                                "Maine"
                                                        "Maine CD-1"
## [22] "Maine CD-2"
                                "Maryland"
                                                        "Massachusetts"
## [25] "Michigan"
                                "Minnesota"
                                                        "Mississippi"
## [28] "Missouri"
                                "Montana"
                                                        "Nebraska"
## [31] "Nebraska CD-2"
                                "Nevada"
                                                        "New Hampshire"
```

```
## [34] "New Jersey"
                                "New Mexico"
                                                        "New York"
## [37] "North Carolina"
                                "North Dakota"
                                                        "Ohio"
## [40] "Oklahoma"
                                "Oregon"
                                                        "Pennsylvania"
## [43] "Rhode Island"
                                "South Carolina"
                                                        "South Dakota"
                                                        "Utah"
## [46] "Tennessee"
                                "Texas"
## [49] "Vermont"
                                "Virginia"
                                                        "Washington"
## [52] "West Virginia"
                                "Wisconsin"
                                                        "Wyoming"
state_poll_2016=state_poll_2016[-c(31,33,50),]
state_poll_2020_2016_diff <- data.frame(</pre>
 state =state_poll_2020$state,
  diff=state_poll_2020$diff_percentage-state_poll_2016$diff_percentage
plot_usmap(data = state_poll_2020_2016_diff, values = "diff", color = "black") +
  scale_fill_gradient2(name = "difference between 2016 and 2020 (%)",
                       low= "red",
                       mid = "white",
                       high = "blue",
                       midpoint = 0) +
  theme(legend.position = "right")+
  ggtitle("difference between 2020 and 2016")
```

difference between 2020 and 2016



##The visual representation in these graphs suggests an increased polarization #between the two major political parties from 2016 to 2020, with an apparent #overall shift towards the Democratic party across the map. This shift could #potentially be attributed to dissatisfaction with the Republican response #to the pandemic. Additionally, it appears that discontentment with #President Trump's administration may have contributed to this trend.

```
# Part b
sort_diff <- state_poll_2020_2016_diff[order(state_poll_2020_2016_diff$diff),]
sort_diff</pre>
```

```
##
                                     diff
                     state
                  Arkansas -0.0505050342
## 4
## 19
                 Louisiana -0.0090943552
## 17
                    Kansas -0.0072425960
                  Kentucky -0.0038330859
## 18
## 27
               Mississippi 0.0009961673
## 40
                  Oklahoma
                           0.0027909051
## 48
                            0.0031269857
                      Utah
## 28
                  Missouri
                            0.0082034611
## 44
            South Carolina 0.0085093402
## 15
                   Indiana 0.0097141655
## 45
              South Dakota 0.0124156189
## 26
                 Minnesota 0.0215032573
                      Ohio 0.0219281680
## 39
## 52
             West Virginia
                            0.0255757019
## 42
              Pennsylvania
                            0.0259456912
                 Wisconsin
                            0.0267207138
## 53
## 37
            North Carolina 0.0310821930
## 14
                  Illinois
                            0.0373040776
## 33
                            0.0376230501
             New Hampshire
## 16
                      Iowa
                           0.0392003319
## 25
                  Michigan
                            0.0419562005
## 10
                   Florida
                            0.0441124664
## 49
                   Vermont
                            0.0561286088
## 32
                    Nevada
                            0.0579893834
## 2
                    Alaska
                            0.0593615071
## 23
                            0.0607202788
                  Maryland
## 3
                   Arizona 0.0614151801
                New Mexico 0.0623467550
## 35
## 22
                Maine CD-2 0.0644133478
## 20
                     Maine 0.0685616033
## 13
                     Idaho
                            0.0689032507
## 1
                   Alabama 0.0692322291
## 5
                California
                           0.0707219888
## 41
                    Oregon
                            0.0720323199
## 50
                  Virginia
                            0.0731736945
## 11
                   Georgia
                            0.0858615596
## 34
                New Jersey
                            0.0911912704
              North Dakota
## 38
                            0.0920670720
## 6
                  Colorado
                            0.0923346812
## 21
                Maine CD-1
                            0.0936457976
                     Texas 0.0978514945
## 47
```

```
## 30
                 Nebraska 0.1018085818
## 36
                 New York 0.1046349413
                 Delaware 0.1065771992
## 8
## 29
                  Montana 0.1098752389
## 51
               Washington 0.1114424912
## 46
                Tennessee 0.1168463358
## 54
                   Wyoming 0.1185112001
## 7
              Connecticut 0.1256462051
## 24
            Massachusetts 0.1302587034
## 31
            Nebraska CD-2 0.1455258422
## 9 District of Columbia 0.1467290357
## 43
             Rhode Island 0.1499907313
## 12
                   Hawaii 0.1515343018
```

##Based on the results, the ten battleground states in 2020 -#defined as those with the smallest percentage differences between the two major #candidates -- would b

#Louisiana
#Kansas
#Kentucky
#Mississippi
#Oklahoma
#Utah
#Missouri
#South Carolina
#Indiana

#Arkansas

#Part(C) print(state_poll_2020_2016_diff)

```
##
                                    diff
                     state
## 1
                   Alabama 0.0692322291
## 2
                   Alaska 0.0593615071
## 3
                   Arizona 0.0614151801
## 4
                  Arkansas -0.0505050342
## 5
                California 0.0707219888
## 6
                  Colorado 0.0923346812
## 7
               Connecticut 0.1256462051
## 8
                  Delaware 0.1065771992
## 9
     District of Columbia 0.1467290357
## 10
                  Florida 0.0441124664
                   Georgia 0.0858615596
## 11
                   Hawaii 0.1515343018
## 12
## 13
                     Idaho 0.0689032507
## 14
                  Illinois 0.0373040776
## 15
                  Indiana 0.0097141655
                     Iowa 0.0392003319
## 16
## 17
                   Kansas -0.0072425960
## 18
                 Kentucky -0.0038330859
## 19
                Louisiana -0.0090943552
                     Maine 0.0685616033
## 20
## 21
               Maine CD-1 0.0936457976
```

```
## 22
                Maine CD-2 0.0644133478
## 23
                  Maryland 0.0607202788
## 24
             Massachusetts
                            0.1302587034
## 25
                  Michigan 0.0419562005
## 26
                 Minnesota 0.0215032573
## 27
               Mississippi 0.0009961673
## 28
                  Missouri 0.0082034611
## 29
                   Montana 0.1098752389
## 30
                  Nebraska 0.1018085818
## 31
             Nebraska CD-2 0.1455258422
## 32
                    Nevada 0.0579893834
## 33
             New Hampshire
                            0.0376230501
## 34
                New Jersey
                            0.0911912704
## 35
                New Mexico 0.0623467550
## 36
                  New York 0.1046349413
## 37
            North Carolina 0.0310821930
## 38
              North Dakota 0.0920670720
## 39
                      Ohio 0.0219281680
## 40
                  Oklahoma 0.0027909051
## 41
                    Oregon 0.0720323199
## 42
              Pennsylvania 0.0259456912
## 43
              Rhode Island 0.1499907313
            South Carolina 0.0085093402
## 44
              South Dakota 0.0124156189
## 45
## 46
                 Tennessee 0.1168463358
## 47
                     Texas 0.0978514945
## 48
                      Utah 0.0031269857
## 49
                   Vermont 0.0561286088
                  Virginia 0.0731736945
## 50
## 51
                Washington
                            0.1114424912
## 52
             West Virginia
                            0.0255757019
## 53
                 Wisconsin
                            0.0267207138
## 54
                   Wyoming
                           0.1185112001
```

##From the result in (C), in most of these states, polls may have underestimated #the percentage of real votes received by one candidate in both 2016 and 2020, #as most differences are positive.

#For example, in Alabama, the difference between the polling prediction and the #actual result was approximately 6.92% in 2016 and likely a similar value in #2020. This suggests that the candidate was predicted to get less support than #they actually received. However, in Arkansas, the polls overestimated the #support for the candidate by around 5.05%, as indicated by the negative #difference.

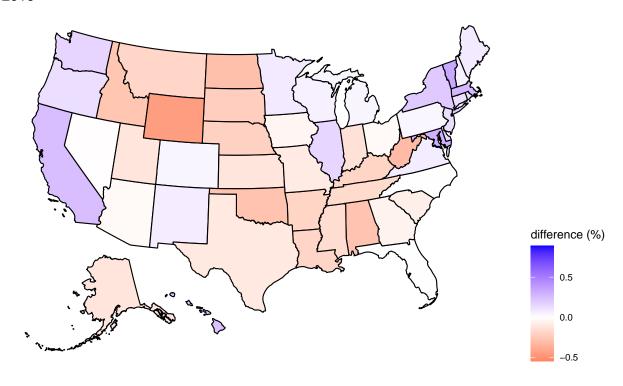
#There can be several reasons for this bias in the polls:
#Nonresponse Bias: Some people are less likely to respond to polls,
#and these people might be more likely to vote for one candidate.
#If these individuals aren't adequately represented in the sample,
#the poll can be biased towards the other candidate.

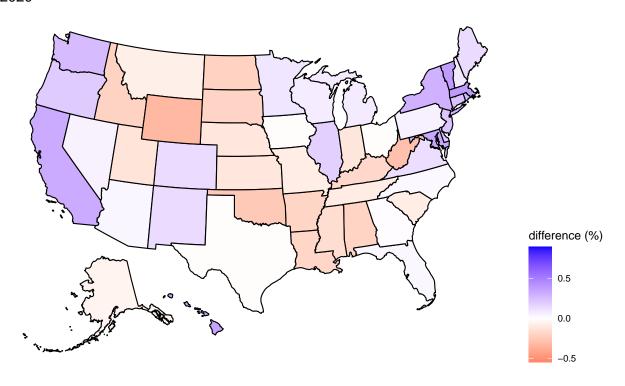
#Shy Voter Theory: Some voters might be hesitant to reveal their true voting #intention in a poll, especially if they feel their choice isn't the socially #desirable one. This can result in underestimation of support for a candidate.

Haocheng Zhang

```
#Problem 4
#Load the data
polls_data_2016 = read.csv("president_general_polls_sorted_end_date_2016.csv")
polls_data_2020 = read.csv("president_polls_2020.csv")
library(lubridate)
##
## Attaching package: 'lubridate'
## The following objects are masked from 'package:base':
##
##
       date, intersect, setdiff, union
library(usmap)
library(ggplot2)
index_na=which(is.na(polls_data_2020$sample_size)==T)
polls_data_2020=polls_data_2020[which(polls_data_2020$answer==
                                         'Biden'|polls_data_2020$answer==
delete_index=which( (polls_data_2020$pollster_id==
                      1610|polls_data_2020$pollster_id==1193)&
                      mdy(polls_data_2020$end_date)!= "2020-11-01")
polls_data_2020=polls_data_2020[-delete_index,]
##now let's delete those poll that only contains one candidate
polls_data_2020_question_id_num=unique(polls_data_2020$question_id)
##clean the data
for(i in 1:length(unique(polls_data_2020$question_id)) ){
  index_set=which(polls_data_2020$question_id==
                    polls_data_2020_question_id_num[i])
  if(length(index_set)!=2){
    polls_data_2020=polls_data_2020[-index_set,]
}
index_NA=which(is.na(polls_data_2020$sample_size)==T)
```

```
polls_data_2020=polls_data_2020[-index_NA,]
polls_data_2016_enddate=mdy(polls_data_2016$enddate)
poll_state_sum_clinton_2016=aggregate(polls_data_2016$total.clinton, by=list(State=polls_data_2016$stat
poll_state_sum_trump_2016=aggregate(polls_data_2016$total.trump, by=list(State=polls_data_2016$state),F
poll_state_diff_percentage=poll_state_sum_clinton_2016
poll_state_diff_percentage[,2]=(poll_state_sum_clinton_2016[,2]-
                                  poll_state_sum_trump_2016[,2])/(poll_state_sum_clinton_2016[,2]+
                                                                     poll_state_sum_trump_2016[,2])
delete_index=which(levels(poll_state_diff_percentage[,1])=='U.S.')
if(length(delete_index)>0){
  poll_state_diff_percentage=poll_state_diff_percentage[-delete_index,]
  poll_state_diff_percentage[,1]
state_poll_2016 <- data.frame(</pre>
 state =poll_state_diff_percentage[,1],
  diff_percentage=poll_state_diff_percentage[,2]
)
index_biden_2020=which(polls_data_2020$answer=='Biden')
index_trump_2020=which(polls_data_2020$answer=='Trump' )
counts_biden_2020=polls_data_2020$pct[index_biden_2020]*polls_data_2020$
  sample_size[index_biden_2020]
counts_trump_2020=polls_data_2020$pct[index_trump_2020]*polls_data_2020$
  sample_size[index_trump_2020]
polls_data_2020$total.biden=rep(0,dim(polls_data_2020)[1])
polls_data_2020$total.trump=rep(0,dim(polls_data_2020)[1])
polls_data_2020$total.biden[index_biden_2020]=counts_biden_2020
polls_data_2020$total.trump[index_trump_2020]=counts_trump_2020
poll_state_sum_biden_2020=aggregate(polls_data_2020$total.biden, by=list(State=polls_data_2020$state),F
poll_state_sum_trump_2020=aggregate(polls_data_2020$total.trump, by=list(State=polls_data_2020$state),F
poll_state_sum_biden_2020=poll_state_sum_biden_2020[-1,]
poll_state_sum_trump_2020=poll_state_sum_trump_2020[-1,]
state_poll_2020 <- data.frame(</pre>
  state =poll_state_sum_biden_2020[,1],
  diff_percentage=(poll_state_sum_biden_2020[,2]-poll_state_sum_trump_2020[,2])/
    (poll_state_sum_biden_2020[,2]+poll_state_sum_trump_2020[,2])
)
limit_val=c(min(state_poll_2016$diff_percentage,state_poll_2020$diff_percentage),
            max(state_poll_2016$diff_percentage,state_poll_2020$diff_percentage))
plot_usmap(data = state_poll_2016, values = "diff_percentage", color = "black") +
  scale_fill_gradient2(name = "difference (%)", low= "red",
```



```
# Part b
state_poll_2016=state_poll_2016[-c(33,50),]

dif <- data.frame(
    state <- state_poll_2016$state,
    diff_2016 <- state_poll_2016$diff_percentage,
    diff_2020 <- state_poll_2020$diff_percentage
)
index_change = which(dif$diff_2016*dif$diff_2020<0)
dif$state[index_change]</pre>
```

```
## [1] "Arizona" "Florida" "Georgia" "Maine CD-2"
## [5] "Nebraska CD-2" "Nevada"
```

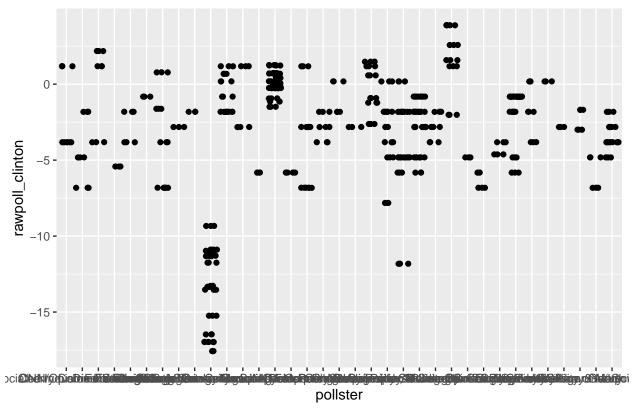
```
##part(C)

#No, there are not. The states I've listed that did not flip in reality --
#Florida and Nevada -- could have been identified as potential flips due to
#close polling results, demographic changes, or other state-specific factors. #However, many elements c
#predict, such as voter turnout, campaign strategies, and major events.
```

Haocheng Zhang

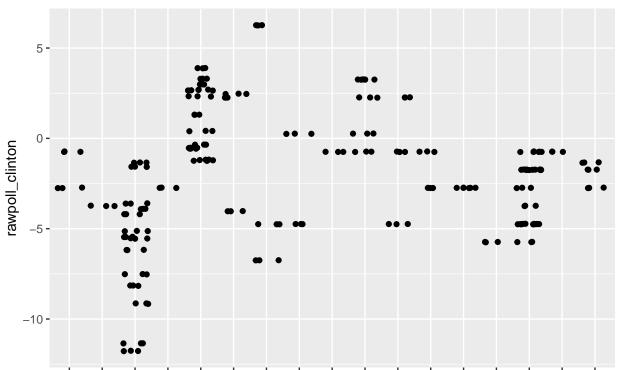
```
##Q5
#Load the data
polls_data_2016 = read.csv("president_general_polls_sorted_end_date_2016.csv")
polls_data_2020 = read.csv("president_polls_2020.csv")
library(ggplot2)
#2016
index_2016_Flo=which(polls_data_2016$state=="Florida")
index_2016_Iow=which(polls_data_2016$state=="Iowa")
Fol_2016_real_clinton = 47.82;
Iow_2016_real_clinton = 41.74;
polls_data_2016[index_2016_Flo,]$rawpoll_clinton = polls_data_2016[index_2016_Flo,]$rawpoll_clinton - F
polls_data_2016[index_2016_Iow,]$rawpoll_clinton = polls_data_2016[index_2016_Iow,]$rawpoll_clinton - I
ggplot(data = polls_data_2016[index_2016_Flo,]) +
  aes(y = rawpoll_clinton, x = pollster) +
  geom_jitter()+
  ggtitle("2016_Florida")
```





```
ggplot(data = polls_data_2016[index_2016_Iow,]) +
aes(y = rawpoll_clinton, x = pollster) +
geom_jitter()+
ggtitle("2016_Iowa")
```

2016_lowa



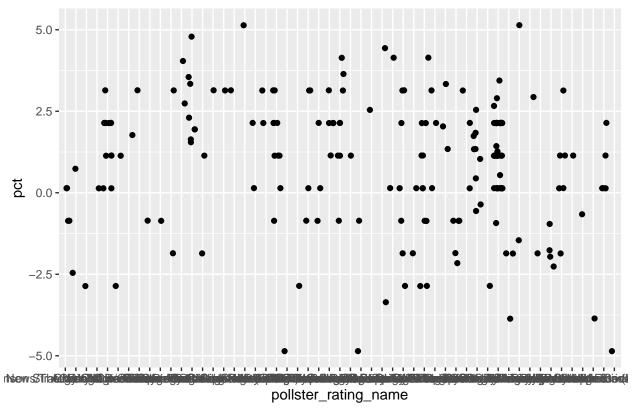
Emersoskoodestaatagiaviar Kaarkletkoosas Kalllattevoluttaatistelikustaatiin ja kallattevoluttaatiin ja

```
#2020
Flo_2020_real_biden = 47.86;
Iow_2020_real_biden = 44.89;

index_biden_Flo_2020=which(polls_data_2020$answer=='Biden' & polls_data_2020$state=="Florida")
index_biden_Iow_2020=which(polls_data_2020$answer=='Biden' & polls_data_2020$state=="Iowa")

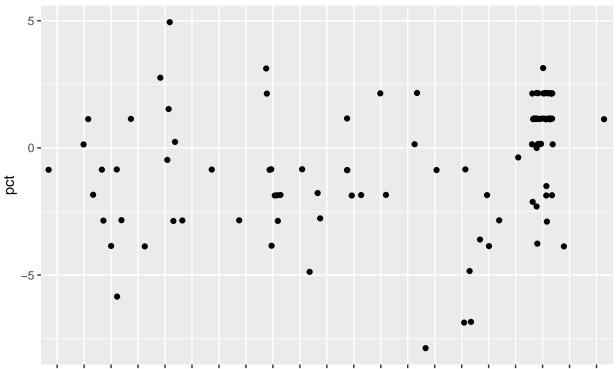
polls_data_2020[index_biden_Flo_2020,]$pct = polls_data_2020[index_biden_Flo_2020,]$pct - Flo_2020_real
polls_data_2020[index_biden_Iow_2020,]$pct = polls_data_2020[index_biden_Iow_2020,]$pct - Flo_2020_real
ggplot(data = polls_data_2020[index_biden_Flo_2020,]) +
    aes(y = pct, x = pollster_rating_name) +
    geom_jitter()+
    ggtitle("2020_Florida")
```





```
ggplot(data = polls_data_2020[index_biden_Iow_2020,]) +
aes(y = pct, x = pollster_rating_name) +
geom_jitter()+
ggtitle("2020_Iowa")
```

2020_lowa



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##part(a)

#They're not accurate, and there might be Response Bias: Even if the sample #accurately represents the population, the individuals who choose to respond to #the poll may be systematically different from those who do not. For instance, #supporters of a particular candidate may be more or less likely to respond #to a poll, creating a bias in the results.

##part(b)

#polling firms like Selzer & Co. have been noted for their accuracy,
#especially in Iowa.,
#https://projects.fivethirtyeight.com/pollster-ratings/selzer-co/
#https://www.desmoinesregister.com/story/news/politics/2020/11/04/
#iowa-poll-closely-matches-election-results-how-did-ann-selzer-do-it/6159615002/

##part(C)

#Some potential sources of bias include:

 $\hbox{\it\#Nonresponse Bias: People who are less likely to respond to surveys may also be } \\ \hbox{\it\#more likely to vote for a particular candidate.}$

#Late Deciders: Some people may only decide who they will vote for at the last #minute, after the polls have closed.

#Sampling Error: The sample drawn for the poll may not accurately represent #the population.

##part(d)

#Better Sampling: Ensuring that the sample is representative of the voting #population is crucial. This could mean taking into account factors like age, #race, education level, and geographic location.

#Weighting: If the sample isn't perfectly representative, statisticians can #assign weights to responses from underrepresented groups to ensure they have #the correct influence on the final results.

#Tracking Late Changes: Conducting polls close to the election day can help #capture late changes in public opinion.