

Testing Voting Machines

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```
library(tidyverse)

library(sandwich)
library(lmtest)

Data <- read_csv("~/Facebook Fact Checker/DvDDData-4.csv")

LinearTest_1 <- lm(Difference ~ RuralUrbanContinuumCode2013 + ManufacturingDependent2000 + HiAmenity +
summary(LinearTest_1)

##
## Call:
## lm(formula = Difference ~ RuralUrbanContinuumCode2013 + ManufacturingDependent2000 +
##     HiAmenity + HiCreativeClass2000 + Low_Education_2015_update +
##     PopChangeRate1019 + Net_International_Migration_Rate_2010_2019 +
##     Dominion, data = Data)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.274018 -0.038102  0.003465  0.041216  0.160695
##
## Coefficients:
##              Estimate Std. Error t value
## (Intercept)    -0.0892527   0.0033954  -26.286
## RuralUrbanContinuumCode2013    -0.0051508   0.0004770  -10.798
## ManufacturingDependent2000    -0.0102342   0.0024394   -4.195
## HiAmenity         0.0191613   0.0025604    7.484
## HiCreativeClass2000    0.0667480   0.0031351   21.291
## Low_Education_2015_update    0.0241496   0.0030824    7.835
## PopChangeRate1019    0.0009211   0.0001441    6.390
## Net_International_Migration_Rate_2010_2019    0.0052895   0.0007585    6.974
## Dominion         0.0165224   0.0026090    6.333
##
##              Pr(>|t|)
## (Intercept)    < 2e-16 ***
## RuralUrbanContinuumCode2013    < 2e-16 ***
## ManufacturingDependent2000    2.80e-05 ***
## HiAmenity       9.41e-14 ***
## HiCreativeClass2000    < 2e-16 ***
## Low_Education_2015_update    6.44e-15 ***
## PopChangeRate1019    1.91e-10 ***
```

```
## Net_International_Migration_Rate_2010_2019 3.77e-12 ***
## Dominion 2.76e-10 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.05864 on 3041 degrees of freedom
## Multiple R-squared:  0.4061, Adjusted R-squared:  0.4045
## F-statistic: 259.9 on 8 and 3041 DF,  p-value: < 2.2e-16
```

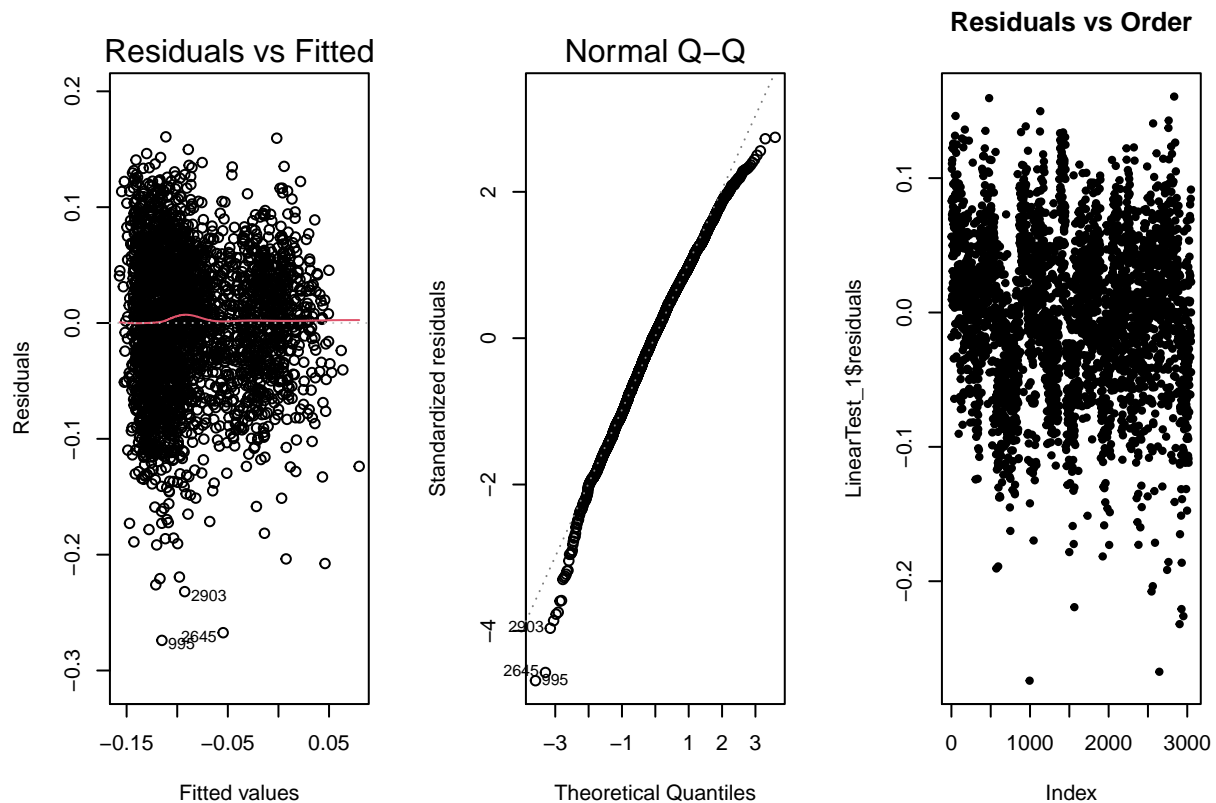
```
par(mfrow= c(1,3))
```

```
# Normality of residuals showed in Normal Q-Q Plot.
```

```
# Residuals vs fitted plot, if red line flat, linearity confirmed. Vertical variation to be constant to
plot(LinTest_1, which =1:2)
```

```
# Residuals vs Order, if trend present, error terms are not correlated.
```

```
plot(LinTest_1$residuals, pch = 20, main = "Residuals vs Order")
```



```
#Checks out.
```

```
# table(LinData$Difference, LinData$RuralUrbanContinuumCode2013)
```

Chi Square test.

First test: Dominion and TotalVotes

```
text{}
```

```
# Chi Square test.
```

```
# Dominion and Totalvotes
```

```
table(Data$TotalVotes, Data$Dominion)
```

```
##
##           0 1
##    143     1 0
##    318     1 0
##    394     1 0
##    537     1 0
##    577     1 0
##    624     1 0
##    632     1 0
##    674     1 0
##    754     1 0
##    769     1 0
##    804     1 0
##    815     1 0
##    827     1 0
##    833     1 0
##    853     1 0
##    865     1 0
##    881     0 1
##    899     1 0
##    921     1 0
##    927     1 0
##    959     1 0
##    962     1 0
##   1026     0 1
##   1035     1 0
##   1045     1 0
##   1049     1 0
##   1064     1 0
##   1069     1 0
##   1074     1 0
##   1102     1 0
##   1116     0 1
##   1118     1 0
##   1145     1 0
##   1192     0 1
##   1198     1 0
##   1204     1 0
##   1239     1 0
##   1252     1 0
##   1265     1 0
##   1348     0 1
```

##	1349	1 0
##	1356	1 0
##	1385	1 0
##	1434	1 0
##	1443	1 0
##	1461	1 0
##	1473	1 0
##	1507	1 0
##	1513	1 0
##	1533	1 0
##	1539	1 0
##	1565	1 0
##	1570	0 1
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##	1592	1 0
##	1602	1 0
##	1606	1 0
##	1607	1 0
##	1635	1 0
##	1687	1 0
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##	1707	1 0
##	1708	0 1
##	1721	0 1
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##	1903	0 1
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##	1953	1 0
##	1987	1 0
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##	1989	1 0
##	1994	1 0
##	2013	1 0
##	2014	1 0
##	2027	1 0
##	2028	1 0
##	2031	2 0
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##	2057	1 0
##	2061	1 0
##	2062	1 0
##	2078	1 0
##	2079	1 0
##	2080	1 0
##	2083	1 0
##	2093	0 1

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##	2121	1 0
##	2134	1 0
##	2144	1 0
##	2158	1 0
##	2170	1 0
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##	2212	0 1
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##	2236	1 0
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##	2263	1 0
##	2289	1 0
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##	2311	1 0
##	2319	1 0
##	2322	1 0
##	2327	1 0
##	2331	2 0
##	2368	1 0
##	2380	1 0
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##	2418	1 0
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##	3224	1 0
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##	3592	1 0
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