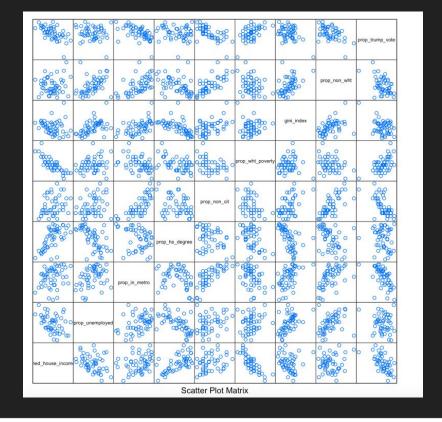
A quantitative approach to Hate crimes, Income inequality, And rise of Trump.

A quantitative approach to Hate crimes, Income inequality, And rise of Trump

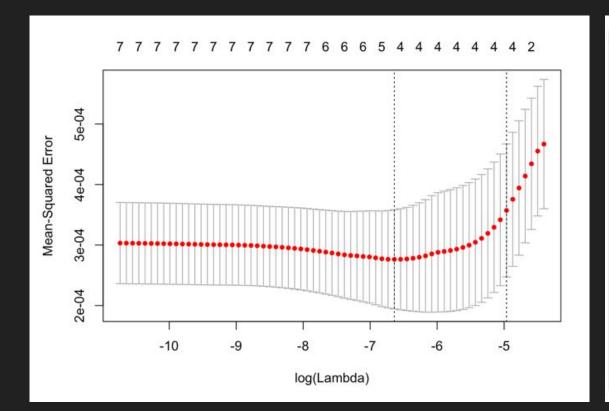
- Popular sentiments
- FiveThirtyEight held an evidence-based investigation
- Out of 10 candidate demographic factors, only income inequality is correlated with hate crime rate at a statistically significant level

- What factors correlate with income inequality?
- Relationship between income inequality and Trump's election?

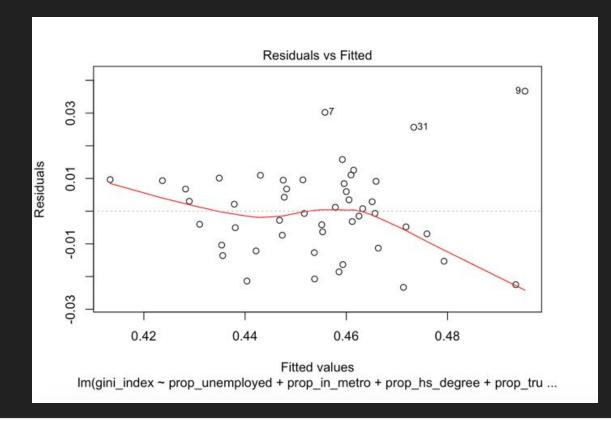
A quantitative approach to Hate crimes, Income inequality, And rise of Trump



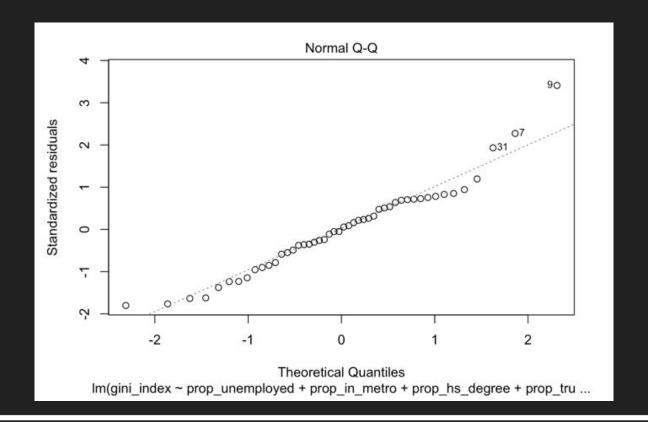
Let's first visualise the data



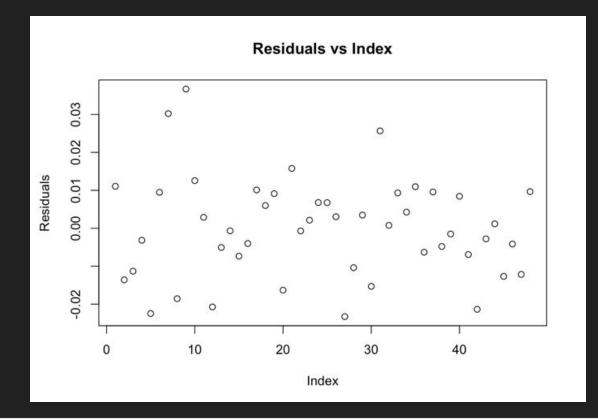
```
## 9 x 1 sparse Matrix of class "dgCMatrix"
                     0.757728781
   (Intercept)
## med house income
                      0.15821580
## prop unemployed
# prop in metro
                     0.007658708
# prop hs degree
                    -0.325999312
## prop non cit
## prop wht poverty
## prop non wht
## prop trump vote
```



Analysis of the multivariate linear model (1)



Analysis of the multivariate linear model (2)



Analysis of the multivariate linear model (3)

```
##
## Call:
## lm(formula = gini index ~ prop unemployed + prop in metro + prop hs degree +
##
      prop trump vote, data = df complete)
  Residuals:
        Min
                         Median
                                                Max
   -0.023292 -0.008116 0.000041
                                 0.009174
##
  Coefficients:
                   Estimate Std. Error t value Pr(>|t|)
                              0.092616
                                       8.649 5.83e-11 ***
   (Intercept)
                   0.801026
  prop unemployed 0.185557
                             0.246194 0.754 0.455135
## prop in metro
                   0.006779
                             0.016124 0.420 0.676257
## prop hs degree -0.369226
                             0.085250 -4.331 8.73e-05 ***
  prop trump vote -0.083224
                              0.022876 -3.638 0.000731 ***
## Signif. codes:
                  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.01374 on 43 degrees of freedom
## Multiple R-squared: 0.6168, Adjusted R-squared: 0.5812
## F-statistic: 17.31 on 4 and 43 DF, p-value: 1.575e-08
```

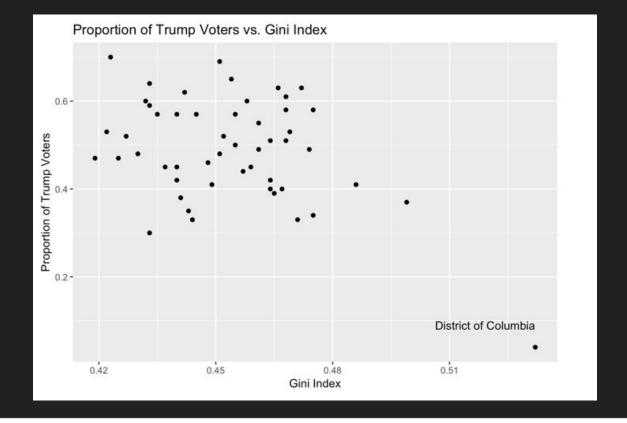
A quantitative approach to Hate crimes, Income inequality, And rise of Trump

- Income inequality: Gini coefficient
- Rise of Trump: proportion of Trump voters of a state

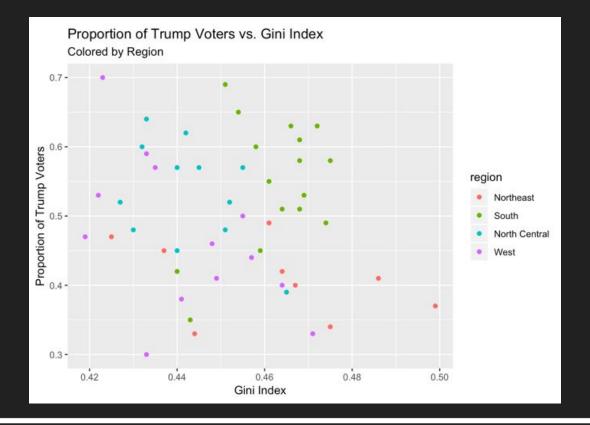
Relationship between income inequality and

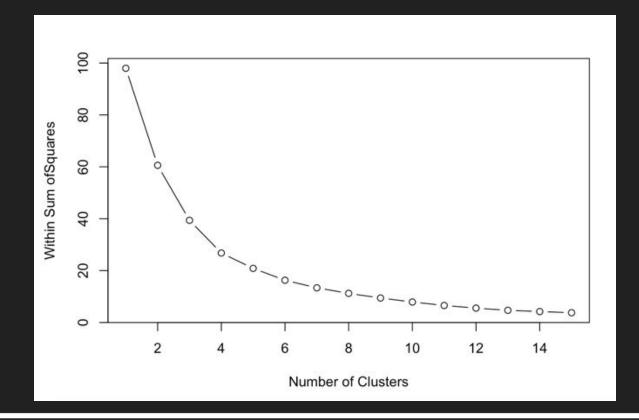
Trump's election

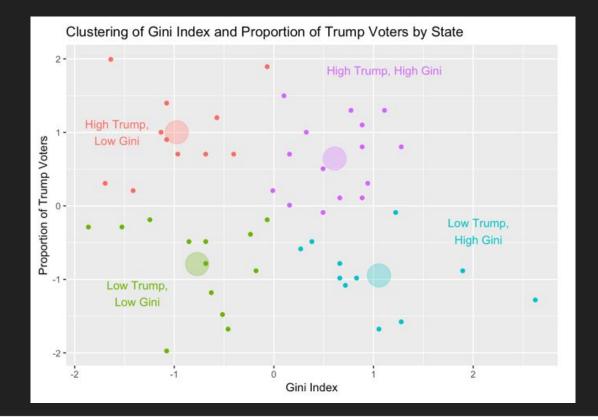
3/18



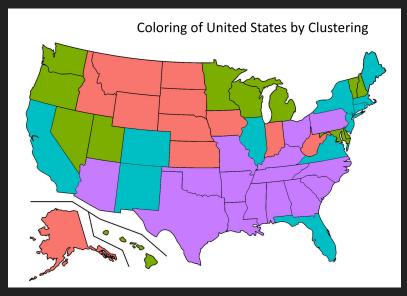
Again, let's first visualise the data











Map it 18/18