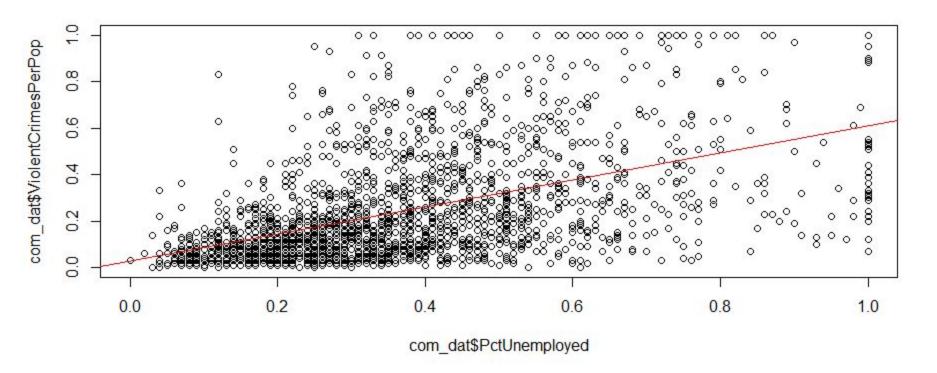
# Crime Analysis

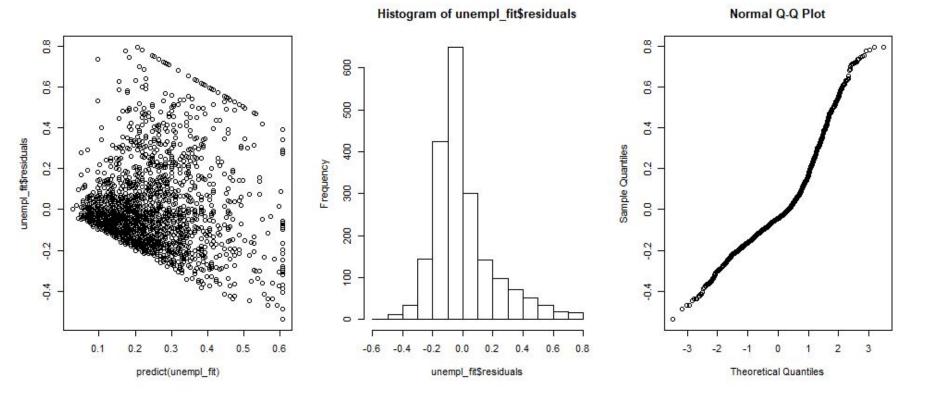
Daniella & Emrys

# Unemployment vs Crime

#### Unemployment vs crime



#### Unemployment vs crime



### Unemployment vs crime

```
Call:
lm(formula = com_dat$ViolentCrimesPerPop ~ com_dat$PctUnemployed)
Residuals:
    Min
            10 Median 30
                                  Max
-0.53782 -0.12039 -0.04390 0.06705 0.79313
Coefficients:
                  Estimate Std. Error t value Pr(>|t|)
                  0.026736  0.009275  2.883  0.00398 **
(Intercept)
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.2012 on 1992 degrees of freedom
Multiple R-squared: 0.2543, Adjusted R-squared: 0.2539
F-statistic: 679.1 on 1 and 1992 DF, p-value: < 2.2e-16
```

#### Unemployment vs Crime

Analysis of Variance Table

```
Response: com_dat$ViolentCrimesPerPop

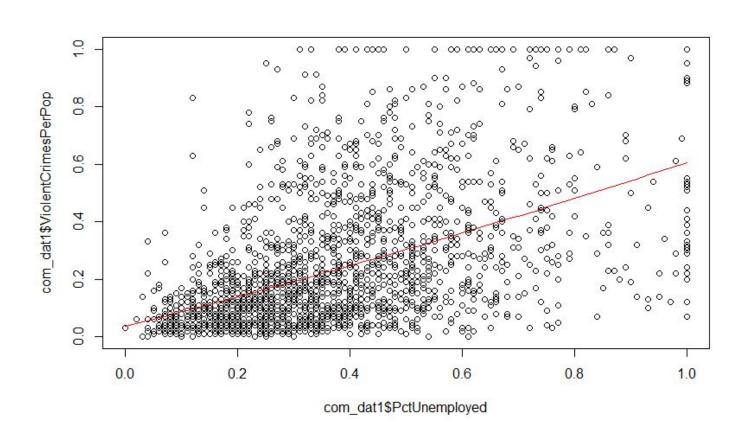
Df Sum Sq Mean Sq F value Pr(>F)

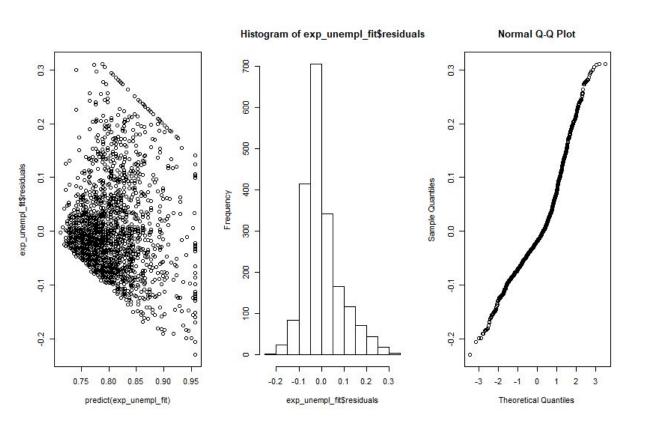
com_dat$PctUnemployed 1 27.506 27.5060 679.15 < 2.2e-16 ***

Residuals 1992 80.678 0.0405

---

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





```
call:
lm(formula = lnCrime ~ com_dat1$PctUnemployed)
Residuals:
   Min
           10 Median 30
                               Max
-0.23039 -0.05224 -0.01763 0.03318 0.31123
Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)
                 Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' '1
Residual standard error: 0.08377 on 1992 degrees of freedom
Multiple R-squared: 0.2626, Adjusted R-squared: 0.2622
F-statistic: 709.2 on 1 and 1992 DF, p-value: < 2.2e-16
```

```
Analysis of Variance Table

Response: Incrime

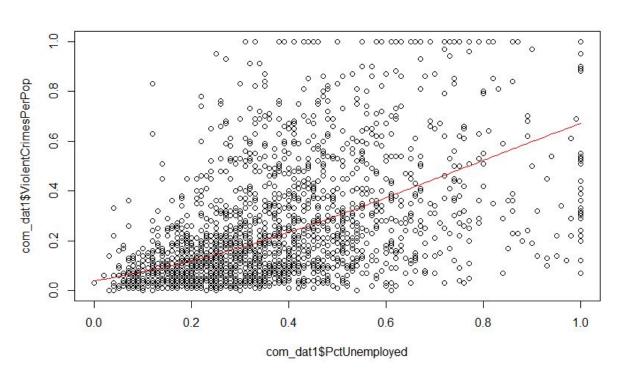
Df Sum Sq Mean Sq F value Pr(>F)

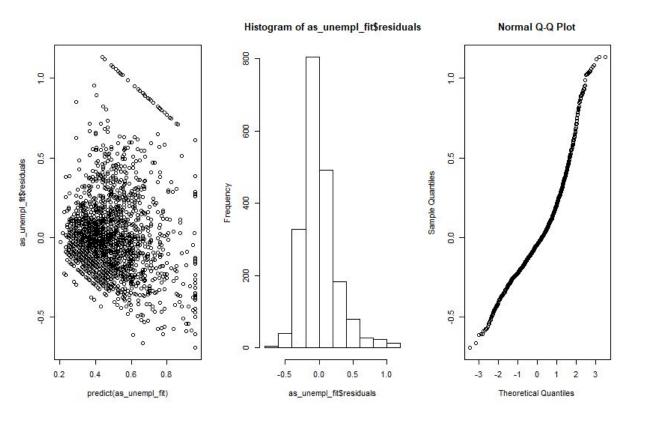
com_dat1$PctUnemployed 1 4.9774 4.9774 709.22 < 2.2e-16 ***

Residuals 1992 13.9800 0.0070

---

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





```
call:
lm(formula = asCrime ~ com_dat1$PctUnemployed)
Residuals:
    Min
              10 Median
                               30
                                       Max
-0.69198 -0.16419 -0.03971 0.10818 1.13350
Coefficients:
                      Estimate Std. Error t value Pr(>|t|)
(Intercept)
                      0.20257 0.01186 17.09 <2e-16 ***
com_dat1$PctUnemployed 0.75717 0.02851 26.56 <2e-16 ***
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' '1
Residual standard error: 0.2573 on 1992 degrees of freedom
Multiple R-squared: 0.2616, Adjusted R-squared: 0.2612
F-statistic: 705.6 on 1 and 1992 DF, p-value: < 2.2e-16
```

```
Analysis of Variance Table

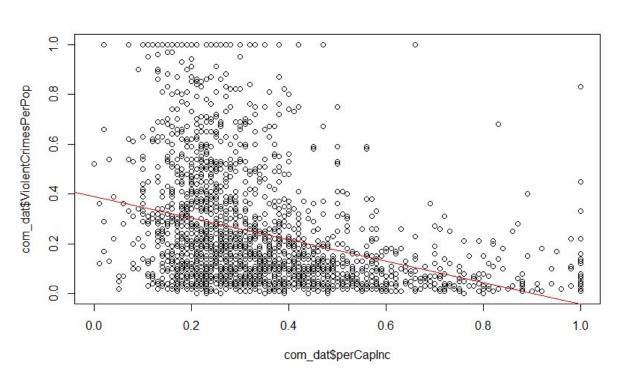
Response: asCrime

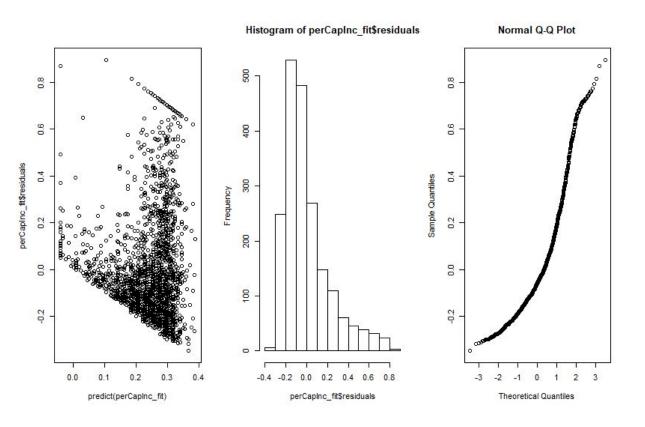
Df Sum Sq Mean Sq F value Pr(>F)

com_dat1$PctUnemployed 1 46.701 46.701 705.55 < 2.2e-16 ***

Residuals 1992 131.853 0.066

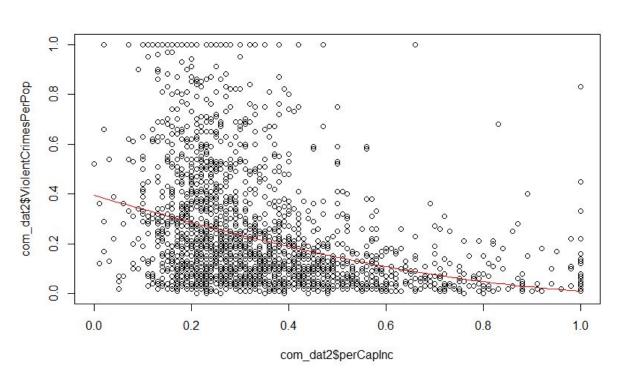
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
```



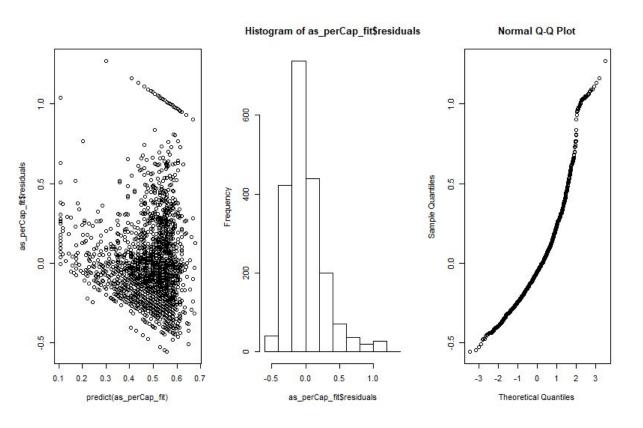


perCapInc vs asin(Crime)

# perCapIn vs asin(Crime)



# perCapIn vs asin(Crime)



### perCapIn vs asin(Crime)

### perCapIn vs asine(Crime)

```
Analysis of Variance Table

Response: asCrime

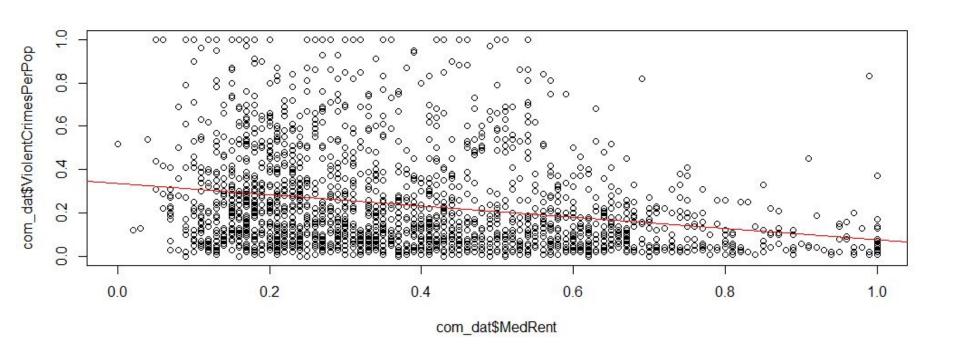
Df Sum Sq Mean Sq F value Pr(>F)

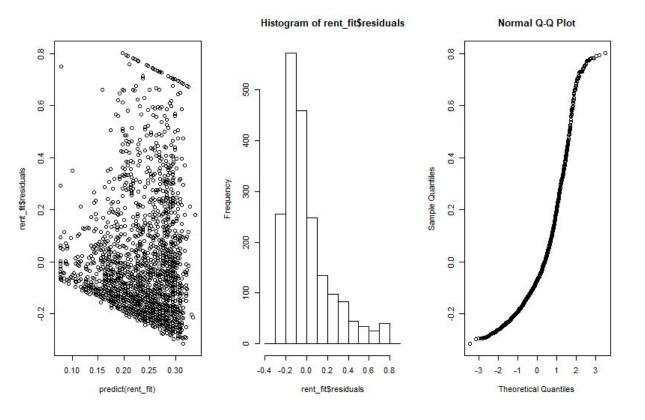
com_dat2$perCapInc 1 44.338 44.338 658.06 < 2.2e-16 ***

Residuals 1992 134.216 0.067

---

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



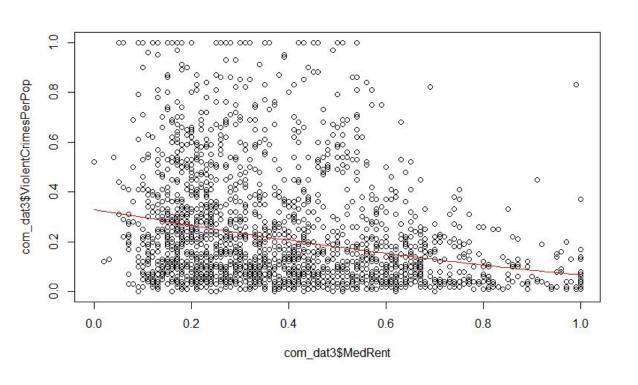


```
Call:
lm(formula = com_dat$ViolentCrimesPerPop ~ com_dat$MedRent)
Residuals:
   Min
           10 Median
                          30
                                Max
-0.31500 -0.15376 -0.06669 0.08148 0.80285
Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.33856 0.01043 32.45 <2e-16 ***
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

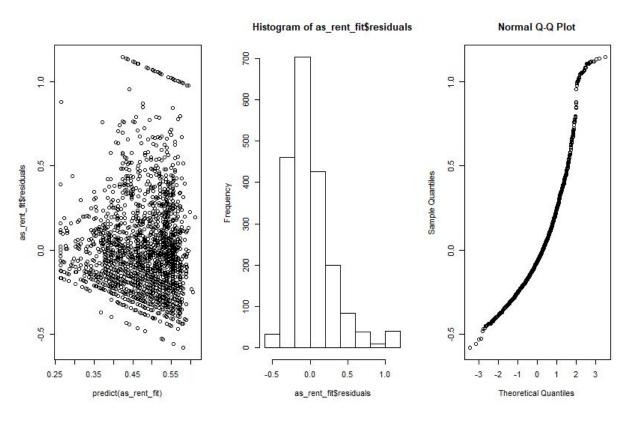
Residual standard error: 0.2262 on 1992 degrees of freedom Multiple R-squared: 0.05753, Adjusted R-squared: 0.05706 F-statistic: 121.6 on 1 and 1992 DF, p-value: < 2.2e-16

# MedRent vs asin(Crime)

### Medrent vs asin(Crime)



## Medrent vs asin(Crime)



### Medrent vs asin(Crime)

#### medRent vs asin(Crime)

```
Analysis of Variance Table

Response: asCrime

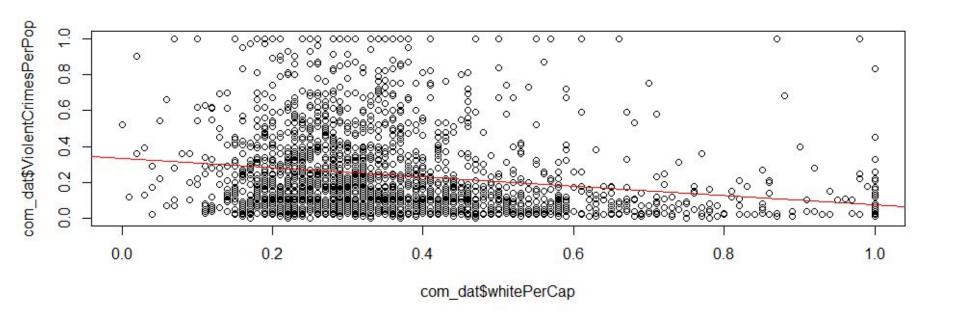
Df Sum Sq Mean Sq F value Pr(>F)

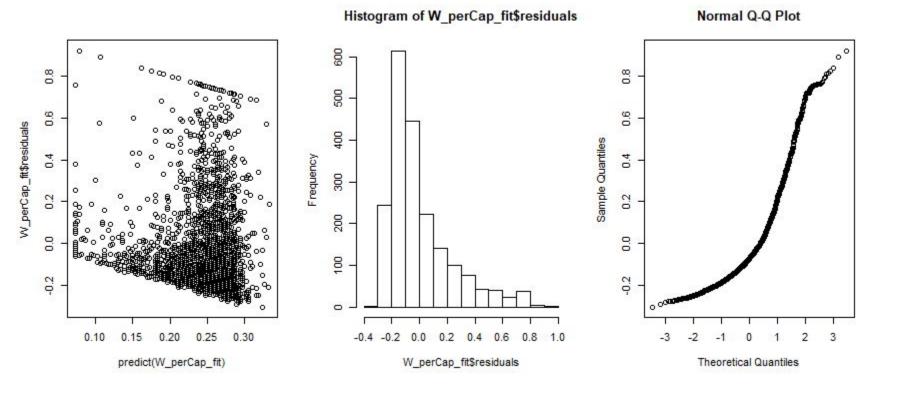
com_dat3$MedRent 1 11.029 11.0289 131.14 < 2.2e-16 ***

Residuals 1992 167.526 0.0841

---

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





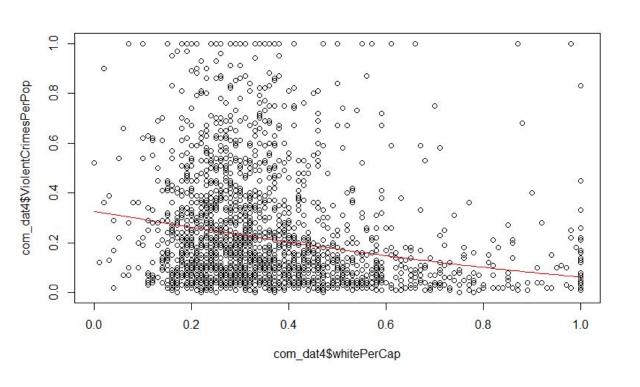
```
Call:
lm(formula = com_dat$ViolentCrimesPerPop ~ com_dat$whitePerCap)
Residuals:
    Min 1Q Median 3Q
                                Max
-0.30360 -0.15617 -0.07159 0.08317 0.92174
Coefficients:
                Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.33404 0.01128 29.619 <2e-16 ***
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.2279 on 1992 degrees of freedom
```

Multiple R-squared: 0.04379, Adjusted R-squared: 0.04331

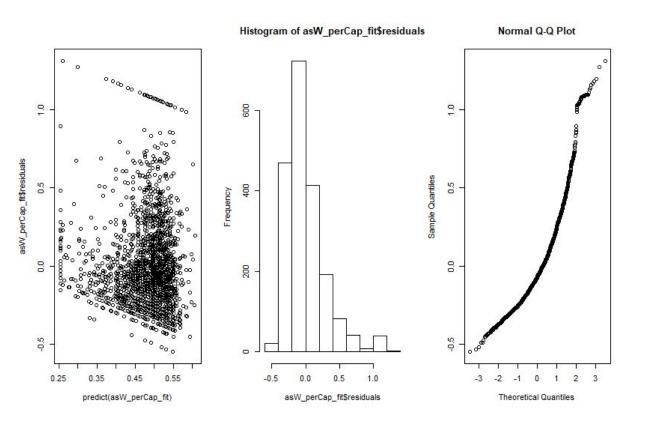
F-statistic: 91.23 on 1 and 1992 DF, p-value: < 2.2e-16

White per Cap vs asin(Crime)

#### White per Cap vs Asine(crime)



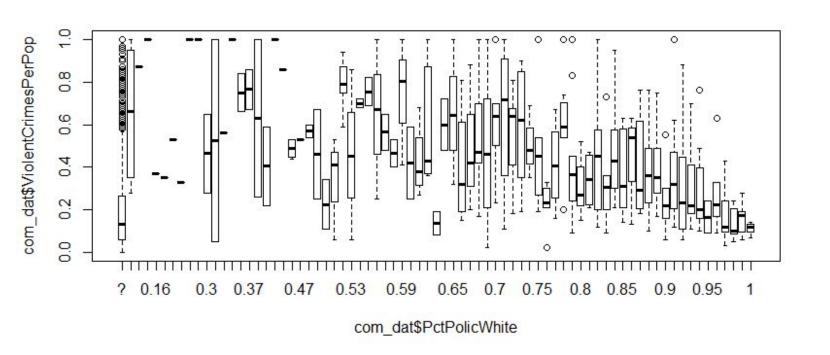
#### White per Cap vs Asine(crime)

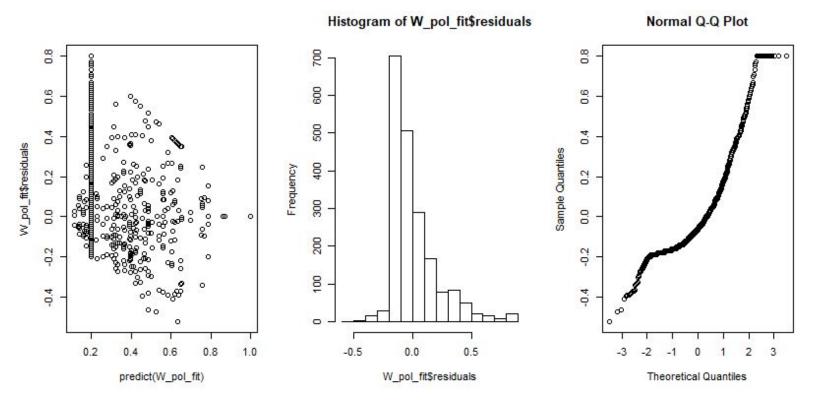


### White per Cap vs Asine(crime)

#### White per cap as asin(crime)

\*NEED TO GET CHECKED refer to summary table for issues





```
lm(formula = com_dat$violentCrimesPerPop ~ com_dat$PctPolicWhite)
Residuals:
              10
                  Median
-0.52500 -0.13928 -0.05928 0.07625 0.80072
Coefficients:
                          Estimate Std. Error t value Pr(>|t|)
(Intercept)
                                    0.005056 39.413 < 2e-16 ***
                          0.450722
com_dat$PctPolicWhite0
                                     0.073335
                                               6.146 9.64e-10 ***
com_dat$PctPolicWhite0.06 0.670722
                                     0.206992
                                               3.240 0.001214 **
                                               3.868 0.000113 ***
com_dat$PctPolicWhite0.1 0.800722
                                     0.206992
com dat$PctPolicWhite0.16 0.170722
                                     0.206992
                                               0.825 0.409601
com_dat$PctPolicWhite0.21 0.150722
                                     0.206992
                                               0.728 0.466607
com_dat$PctPolicWhite0.23 0.330722
                                     0.206992
                                               1.598 0.110262
com dat$PctPolicWhite0.27 0.130722
                                     0.206992
                                               0.632 0.527767
com dat$PctPolicWhiteO.28 0.800722
                                               3.868 0.000113 ***
com_dat$PctPolicWhite0.29 0.800722
                                               5.469 5.12e-08 ***
com_dat$PctPolicWhite0.3 0.265722
                                               1.815 0.069691
com dat$PctPolicWhite0.32 0.325722
                                               2.225 0.026215 *
com_dat$PctPolicWhite0.33 0.360722
                                     0.206992
                                               1.743 0.081549 .
com_dat$PctPolicWhite0.35 0.800722
                                     0.206992
                                               3.868 0.000113 ***
com dat$PctPolicWhite0.36 0.550722
                                     0.146409
                                               3.762 0.000174 ***
com_dat$PctPolicWhite0.37 0.565722
                                     0.146409
                                               3.864 0.000115 ***
com_dat$PctPolicWhite0.4 0.430722
                                     0.146409
                                               2.942 0.003301 **
com_dat$PctPolicWhite0.41 0.205722
                                     0.146409
                                               1.405 0.160148
                                                3.868 0.000113 ***
com_dat$PctPolicWhite0.43 0.800722
                                     0.206992
com_dat$PctPolicWhite0.44 0.660722
                                     0.206992
                                                3.192 0.001436 **
com_dat$PctPolicWhite0.46 0.288222
                                                2.782 0.005449 **
                                     0.103589
com dat$PctPolicWhite0.47 0.330722
                                     0.206992
                                               1.598 0.110262
com_dat$PctPolicWhite0.48 0.370722
                                                2.532 0.011417
                                     0.146409
com_dat$PctPolicWhite0.49 0.260722
                                     0.146409
                                               1.781 0.075107
com_dat$PctPolicWhite0.5 0.025722
                                     0.146409
                                                0.176 0.860557
com_dat$PctPolicWhite0.51 0.134056
                                     0.119578
                                                1.121 0.262398
com_dat$PctPolicWhite0.52 0.588722
                                     0.092680
                                                6.352 2.64e-10 ***
com_dat$PctPolicWhite0.53 0.257389
                                     0.119578
                                                2.152 0.031484 *
com dat$PctPolicWhite0.54 0.500722
                                     0.146409
                                                3,420 0,000639 ***
com_dat$PctPolicWhite0.55 0.555722
                                     0.146409
                                                3.796 0.000152 ***
com_dat$PctPolicWhite0.56 0.440722
                                     0.119578
                                                3.686 0.000234 ***
com dat$PctPolicWhite0.57 0.365722
                                     0.146409
                                                2,498 0,012575 *
com dat$PctPolicWhiteO.58 0.265722
                                     0.146409
                                                1.815 0.069691 .
com_dat$PctPolicWhite0.59 0.555722
                                     0.103589
                                               5.365 9.09e-08
com_dat$PctPolicWhite0.6 0.220722
                                     0.146409
                                               1.508 0.131829
com_dat$PctPolicWhite0.61 0.228222
                                     0.103589
                                               2.203 0.027702
com_dat$PctPolicWhite0.62 0.406722
                                     0.092680
                                               4.388 1.20e-05 ***
com_dat$PctPolicWhite0.63 -0.064278
                                     0.146409
                                               -0.439 0.660691
com_dat$PctPolicWhite0.64 0.400722
                                     0.146409
                                               2.737 0.006257 **
com_dat$PctPolicWhite0.65 0.453222
                                     0.103589
                                              4.375 1.28e-05 ***
com_dat$PctPolicWhite0.66 0.200722
                                     0.103589
                                               1.938 0.052808
com_dat$PctPolicWhite0.67 0.300722
                                     0.119578
                                               2.515 0.011989 *
com dat$PctPolicWhite0.68 0.339056
                                     0.084630
                                               4.006 6.40e-05 ***
                                     0.069162 4.107 4.17e-05 ***
com_dat$PctPolicWhite0.69 0.284056
com_dat$PctPolicWhite0.7 0.419056
                                     0.084630
                                               4.952 8.00e-07 ***
com_dat$PctPolicWhite0.71 0.435722
                                     0.103589
                                               4.206 2.72e-05 ***
```

```
com dat%PctPolicWhiteO.51 0.134056 0.1195/8
com_dat$PctPolicWhite0.52 0.588722
                                     0.092680
                                               6.352 2.64e-10 ***
com_dat$PctPolicWhite0.53 0.257389
                                               2.152 0.031484 *
com dat$PctPolicWhite0.54 0.500722
                                     0.146409
                                               3,420 0,000639 ***
com dat$PctPolicWhite0.55 0.555722
                                     0.146409
                                               3.796 0.000152 ***
com dat $PctPolicWhiteO.56 0.440722
                                     0.119578
                                               3.686 0.000234 ***
com_dat$PctPolicWhite0.57 0.365722
                                     0.146409
                                               2.498 0.012575
com_dat$PctPolicWhite0.58 0.265722
                                     0.146409
                                               1.815 0.069691
com dat$PctPolicWhite0.59 0.555722
                                               5.365 9.09e-08 ***
com_dat$PctPolicWhite0.6 0.220722
                                     0.146409
                                               1.508 0.131829
com dat $PctPolicWhiteO.61 0.228222
                                     0.103589
                                               2.203 0.027702
com_dat$PctPolicWhite0.62 0.406722
                                     0.092680
                                               4.388 1.20e-05 ***
com_dat$PctPolicWhite0.63 -0.064278
                                     0.146409
                                               -0.439 0.660691
com dat$PctPolicWhite0.64 0.400722
                                               2.737 0.006257 **
com dat$PctPolicWhite0.65 0.453222
                                     0.103589
                                               4.375 1.28e-05 ***
com dat $PctPolicWhite0.66 0.200722
                                     0.103589
                                               1.938 0.052808
com_dat$PctPolicWhite0.67 0.300722
                                     0.119578
                                               2.515 0.011989
com_dat$PctPolicWhite0.68 0.339056
                                     0.084630
                                               4.006 6.40e-05 ***
com dat$PctPolicWhite0.69 0.284056
                                               4.107 4.17e-05 ***
com_dat$PctPolicWhite0.7 0.419056
                                     0.084630
                                               4.952 8.00e-07 ***
com dat $PctPolicWhiteO.71 0.435722
                                     0.103589
                                               4.206 2.72e-05 ***
com_dat$PctPolicWhite0.72 0.357995
                                     0.062596
                                               5.719 1.24e-08 ***
com_dat$PctPolicWhite0.73 0.382722
                                               4.129 3.79e-05 ***
                                     0.092680
com dat$PctPolicWhite0.74 0.307389
                                     0.119578
                                               2.571 0.010227
com dat$PctPolicWhite0.75 0.284056
                                     0.084630
                                               3.356 0.000805 ***
com dat $PctPolicWhite0.76 0.029294
                                     0.078376
                                               0.374 0.708623
com_dat$PctPolicWhite0.77 0.210722
                                     0.103589
                                               2.034 0.042066
com_dat$PctPolicWhite0.78 0.412151
                                     0.078376
                                               5.259 1.61e-07 ***
com dat$PctPolicWhite0.79 0.223722
                                    0.065632
com_dat$PctPolicWhite0.8 0.112722
                                     0.092680
                                               1.216 0.224038
com_dat$PctPolicWhite0.81 0.140722
                                     0.103589
                                               1.358 0.174473
com_dat$PctPolicWhite0.82 0.246972
                                     0.073335
                                               3.368 0.000773 ***
com_dat$PctPolicWhite0.83 0.132389
                                     0.084630
                                               1.564 0.117906
com dat$PctPolicWhite0.84 0.271972
com_dat$PctPolicWhite0.85 0.161833
                                    0.069162
com dat $PctPolicWhiteO, 86 0,234056
                                    0.119578
                                               1.957 0.050452 .
com_dat$PctPolicWhite0.87 0.195722
                                    0.073335
                                               2.669 0.007675 **
com_dat$PctPolicWhite0.88 0.168500
                                     0.069162
com dat$PctPolicWhite0.89 0.190722
                                    0.069162
com_dat$PctPolicWhite0.9 0.058722
                                    0.092680
                                               0.634 0.526415
com_dat$PctPolicWhite0.91 0.199294
                                     0.078376
com_dat$PctPolicWhite0.92 0.120722
                                     0.062596
                                               1.929 0.053930
com_dat$PctPolicWhite0.93 0.104472
                                    0.073335
com dat$PctPolicWhite0.94 0.110722
                                    0.078376
com_dat$PctPolicWhite0.95 -0.034278
                                    0.146409
                                              -0.234 0.814915
com_dat$PctPolicWhite0.96 0.079056
                                    0.084630
                                               0.934 0.350353
com_dat$PctPolicWhite0.97 -0.024732 0.062596
                                              -0.395 0.692809
com_dat$PctPolicWhite0.98 -0.060706
                                    0.078376 -0.775 0.438698
com dat$pctpolicWhite0.99 -0.041778 0.073335 -0.570 0.568963
com_dat$PctPolicWhite1 -0.086778 0.103589 -0.838 0.402296
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Residual standard error: 0.2069 on 1919 degrees of freedom

F-statistic: 8.209 on 74 and 1919 DF, p-value: < 2.2e-16

Multiple R-squared: 0.2404, Adjusted R-squared: 0.2112

```
Analysis of Variance Table

Response: com_dat$ViolentCrimesPerPop

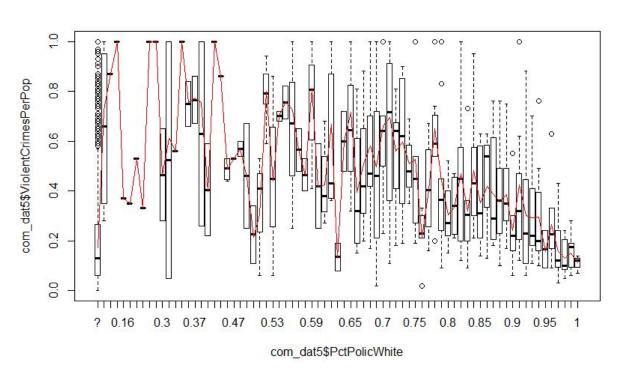
Df Sum Sq Mean Sq F value Pr(>F)

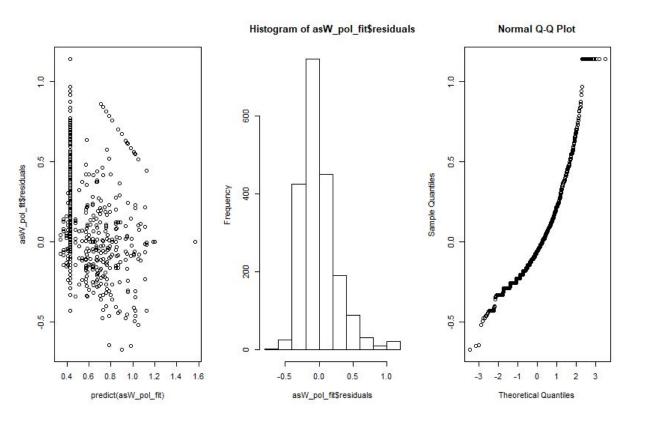
com_dat$PctPolicWhite 74 26.012 0.35151 8.2091 < 2.2e-16 ***

Residuals 1919 82.172 0.04282

---

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





```
call:
lm(formula = asCrime ~ com_dat5$PctPolicWhite)
Residuals:
    Min
            10 Median
                             30
-0.6726 -0.1812 -0.0598 0.1143 1.1421
coefficients:
                            Estimate Std. Error t value Pr(>|t|)
                                      0.006529 65.657 < 2e-16 ***
(Intercept)
                            0.428667
com_dat5$PctPolicWhite0
                            0.591473
                                      0.094696
                                                 6.246 5.17e-10 ***
com_dat5$PctPolicWhite0.06 0.773266
                                      0.267284
                                                 2.893 0.003858
                                      0.267284
com dat5$PctPolicWhite0.1
                           1.142129
                                                 4.273 2.02e-05 ***
com_dat5$PctPolicWhite0.16 0.225220
                                      0.267284
                                                 0.843 0.399545
com_dat5$PctPolicWhite0.21 0.204384
                                      0.267284
                                                 0.765 0.444562
com dat5$PctPolicWhite0.23 0.386749
                                      0.267284
                                                 1,447 0,148073
com dat5$PctPolicWhite0.27 0.183272
                                      0.267284
                                                 0.686 0.492996
com dat5$PctPolicWhite0.28 1.142129
                                      0.267284
                                                 4.273 2.02e-05 ***
com dat5$PctPolicWhite0.29 1.142129
                                      0.189055
                                                 6.041 1.83e-09
com dat5$PctPolicWhite0.3
                           0.319004
                                      0.189055
                                                 1.687 0.091696
com_dat5$PctPolicWhite0.32 0.469487
                                      0.189055
                                                 2.483 0.013101 *
com_dat5$PctPolicWhite0.33 0.416876
                                      0.267284
                                                 1.560 0.119003
com dat5$PctPolicWhite0.35 1.142129
                                      0.267284
                                                 4.273 2.02e-05 ***
                                      0.189055
com_dat5$PctPolicWhite0.36 0.625104
                                                 3.306 0.000962
com_dat5$PctPolicWhite0.37 0.644411
                                      0.189055
                                                 3,409 0,000666
                                      0.189055
com dat5$PctPolicWhite0.4
                           0.624266
                                                 3.302 0.000977
com_dat5$PctPolicWhite0.41 0.253381
                                      0.189055
                                                 1.340 0.180323
com_dat5$PctPolicWhite0.43 1.142129
                                      0.267284
                                                 4.273 2.02e-05 ***
com dat5$PctPolicWhite0.44 0.758632
                                      0.267284
                                                 2.838 0.004583 **
com_dat5$PctPolicWhite0.46 0.344183
                                      0.133762
                                                 2.573 0.010154
com dat5$PctPolicWhite0.47 0.386749
                                      0.267284
                                                 1.447 0.148073
com dat5$PctPolicWhite0.48 0.427092
                                      0.189055
                                                 2.259 0.023990 *
com dat5$PctPolicWhite0.49 0.312560
                                      0.189055
                                                 1.653 0.098438 .
com_dat5$PctPolicWhite0.5
                           0.051632
                                      0.189055
                                                 0.273 0.784802
com_dat5$PctPolicWhite0.51 0.157262
                                      0.154409
                                                 1.018 0.308579
                                                 5.682 1.54e-08
com dat5$PctPolicWhite0.52 0.679955
                                      0.119676
com_dat5$PctPolicWhite0.53 0.294693
                                      0.154409
                                                 1.909 0.056473
com_dat5$PctPolicWhite0.54 0.562697
                                      0.189055
                                                 2.976 0.002953 **
                                      0.189055
com dat5$PctPolicWhite0.55 0.627804
                                                 3.321 0.000915
com_dat5$PctPolicWhite0.56 0.589083
                                      0.154409
                                                 3.815 0.000140
com_dat5$PctPolicWhite0.57 0.422901
                                      0.189055
                                                 2.237 0.025406
com dat5$PctPolicWhite0.58 0.321400
                                      0.189055
                                                 1.700 0.089286
com dat5$PctPolicWhite0.59 0.694487
                                      0.133762
                                                 5.192 2.30e-07 ***
```

```
com_dat5$PctPolicWhite0.64 0.460628
                                      0.189055
                                                 2.436 0.014922 *
com_dat5$PctPolicWhite0.65 0.580608
                                      0.133762
                                                 4.341 1.49e-05 ***
com dat5$PctPolicWhite0.66 0.249471
                                      0.133762
                                                 1.865 0.062328
com dat5$PctPolicWhite0.67 0.366584
                                      0.154409
                                                 2.374 0.017689 *
com_dat5$PctPolicWhite0.68 0.438440
                                      0.109281
                                                 4.012 6.25e-05 ***
com dat5$PctPolicWhite0.69 0.354908
                                      0.089307
                                                 3.974 7.33e-05 ***
com_dat5$PctPolicWhite0.7
                           0.521952
                                      0.109281
                                                 4.776 1.92e-06 ***
com_dat5$PctPolicWhite0.71 0.555786
                                      0.133762
                                                 4.155 3.40e-05 ***
                                                 5.145 2.95e-07 ***
com_dat5$PctPolicWhite0.72 0.415840
                                      0.080829
com dat5$PctPolicWhite0.73 0.453893
                                      0.119676
                                                 3.793 0.000154 ***
com dat5$PctPolicWhite0.74 0.364246
                                      0.154409
                                                 2.359 0.018425
com dat5$PctPolicWhite0.75 0.382048
                                      0.109281
                                                 3.496 0.000483 ***
com dat5$PctPolicWhite0.76 0.052039
                                      0.101205
                                                 0.514 0.607172
com_dat5$PctPolicWhite0.77 0.258528
                                      0.133762
                                                 1.933 0.053414
com_dat5$PctPolicWhite0.78 0.507875
                                      0.101205
                                                 5.018 5.69e-07 ***
com_dat5$PctPolicWhite0.79 0.298295
                                      0.084749
                                                 3,520 0,000442 ***
                           0.155818
                                      0.119676
com dat5$PctPolicWhite0.8
                                                 1.302 0.193072
com dat5$PctPolicWhite0.81 0.188493
                                      0.133762
                                                 1.409 0.158948
com dat5$PctPolicWhite0.82 0.326375
                                      0.094696
                                                 3.447 0.000580 ***
com dat5$PctPolicWhite0.83 0.172194
                                      0.109281
                                                 1.576 0.115259
com dat5$PctPolicWhite0.84 0.337703
                                      0.094696
                                                 3.566 0.000371 ***
com_dat5$PctPolicWhite0.85 0.206256
                                      0.089307
                                                 2.310 0.021021
com_dat5$PctPolicWhite0.86 0.275070
                                      0.154409
                                                 1.781 0.074998
com dat5$PctPolicWhite0.87 0.244643
                                      0.094696
                                                 2.583 0.009855 **
com dat5$PctPolicWhite0.88 0.211178
                                      0.089307
                                                 2.365 0.018147 *
com dat5$PctPolicWhite0.89 0.241517
                                      0.089307
                                                 2.704 0.006905 **
com dat5$PctPolicWhite0.9
                           0.083795
                                      0.119676
                                                 0.700 0.483899
com_dat5$PctPolicWhite0.91 0.281744
                                      0.101205
                                                 2.784 0.005424 **
com_dat5$PctPolicWhite0.92 0.151081
                                      0.080829
                                                 1.869 0.061755 .
com_dat5$PctPolicWhite0.93 0.142387
                                      0.094696
                                                 1.504 0.132844
com dat5$PctPolicWhite0.94 0.145896
                                      0.101205
                                                 1.442 0.149579
com dat5$PctPolicWhite0.95 -0.020335
                                      0.189055
                                                -0.108 0.914356
com dat5$PctPolicWhite0.96 0.111846
                                      0.109281
                                                 1.023 0.306214
com_dat5$PctPolicWhite0.97 -0.019124
                                      0.080829
                                                -0.237 0.812993
com_dat5$PctPolicWhite0.98 -0.058808
                                      0.101205
                                                -0.581 0.561254
com_dat5$PctPolicWhite0.99 -0.029697
                                      0.094696
                                                -0.314 0.753856
com_dat5$PctPolicWhite1
                          -0.088982
                                      0.133762 -0.665 0.505987
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
Residual standard error: 0.2672 on 1919 degrees of freedom
Multiple R-squared: 0.2327,
                               Adjusted R-squared: 0.2031
F-statistic: 7.862 on 74 and 1919 DF, p-value: < 2.2e-16
```

```
Analysis of Variance Table

Response: asCrime

Df Sum Sq Mean Sq F value Pr(>F)

com_dat5$PctPolicWhite 74 41.541 0.56137 7.8625 < 2.2e-16 ***

Residuals 1919 137.013 0.07140

---

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

## Conclusion

May be conclude that stick with linear model for simplicity since the other models are not improving anything