

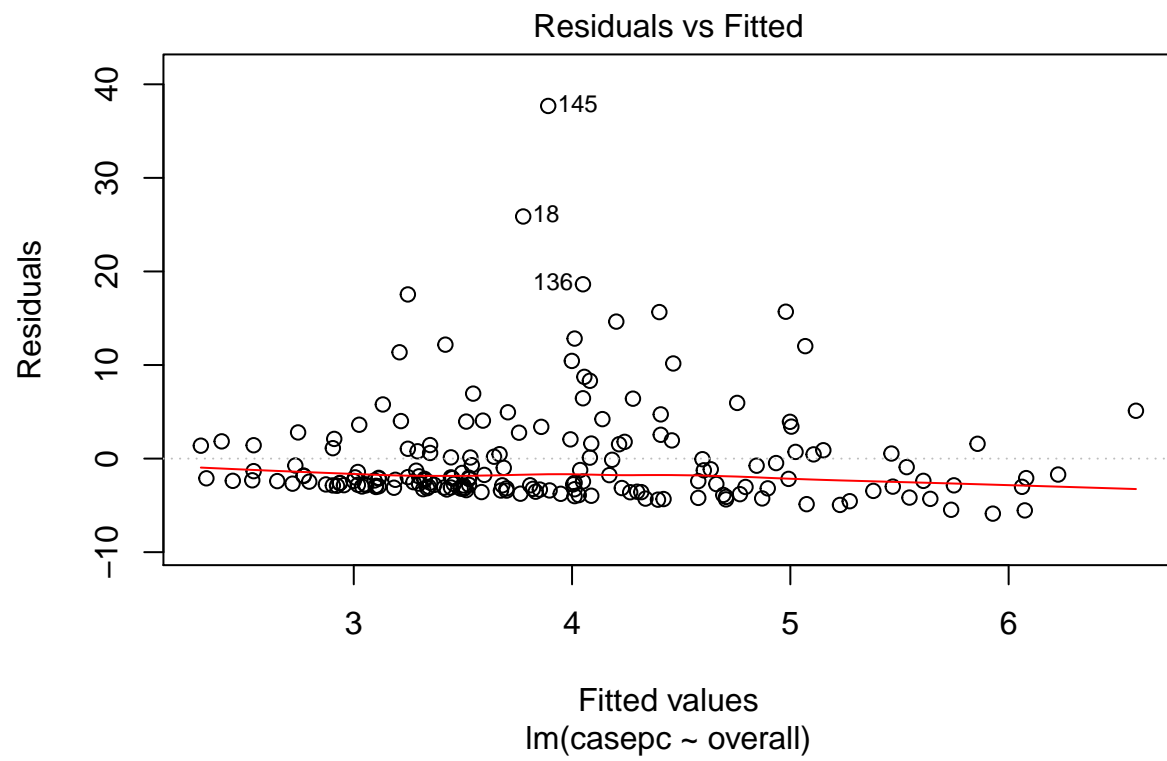
Outlier Screening

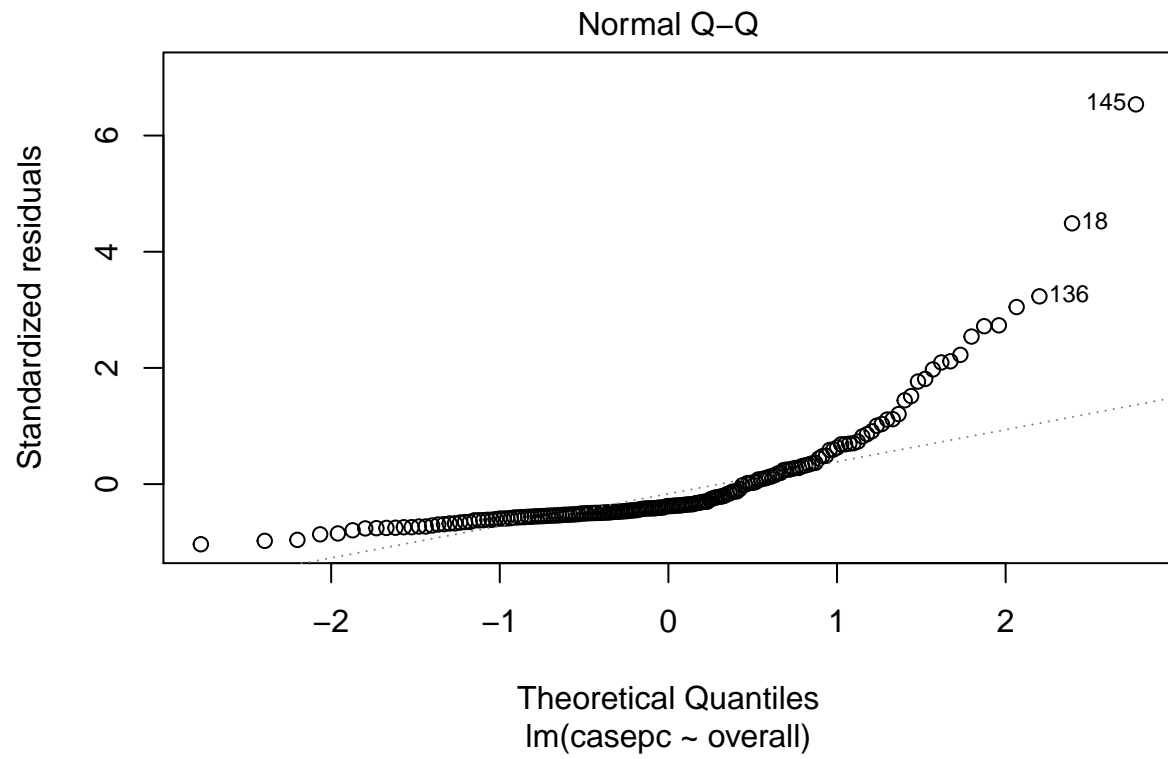
Emily Linebarger

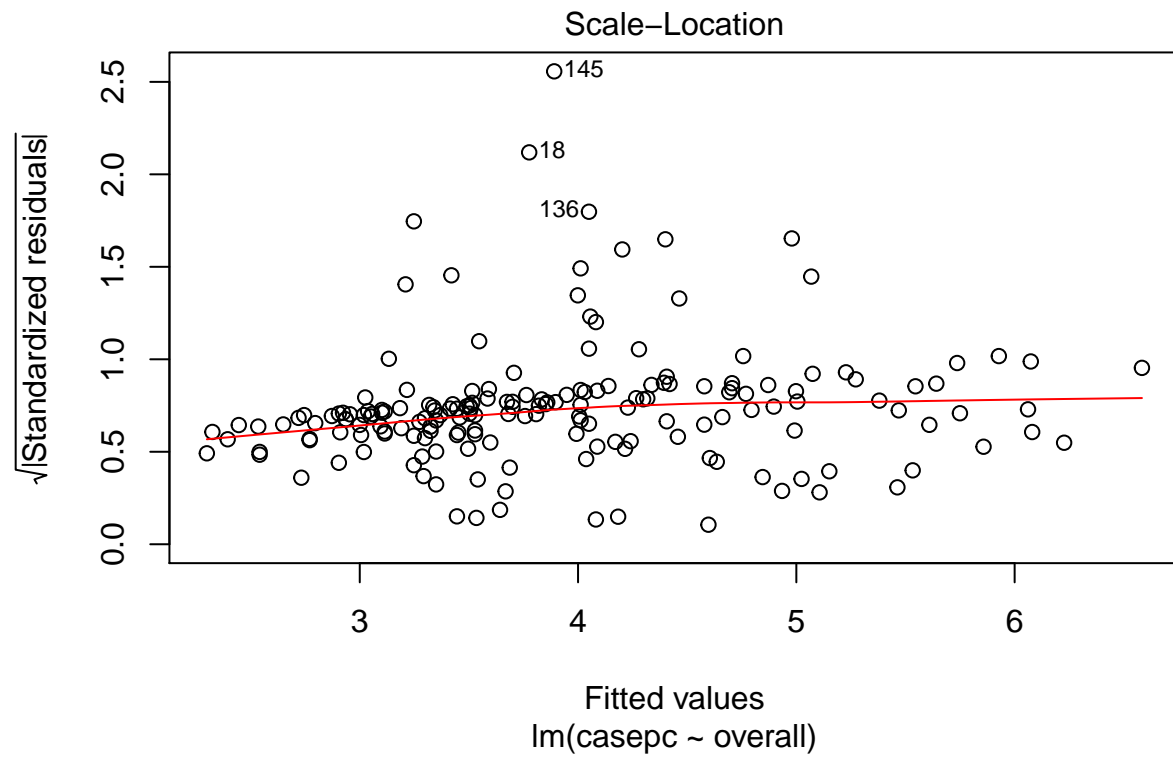
2/17/2021

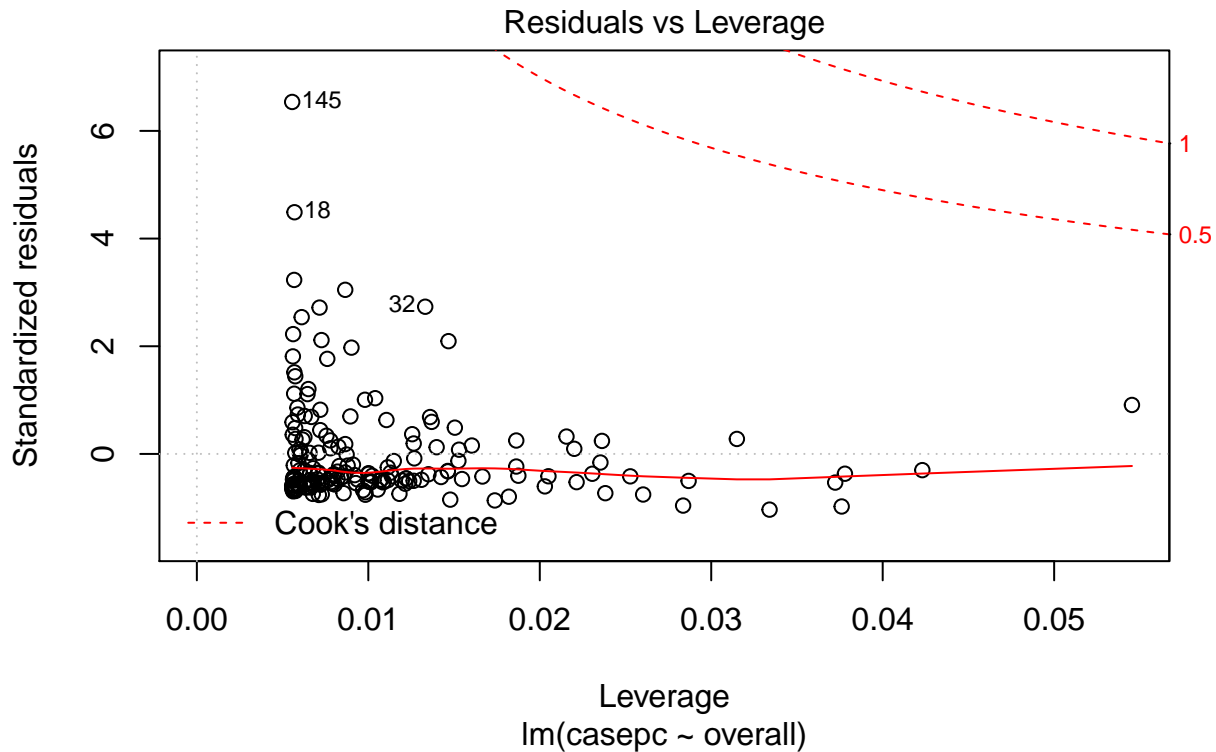
Run first regression, of just cases-per-capita to overall score.

```
##
## Call:
## lm(formula = casepc ~ overall, data = dt)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -5.881 -3.102 -2.174  1.181 37.684
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  1.26832    1.34301   0.944  0.3463
## overall      0.06365    0.03055   2.083  0.0387 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 5.78 on 178 degrees of freedom
## (12 observations deleted due to missingness)
## Multiple R-squared:  0.0238, Adjusted R-squared:  0.01832
## F-statistic:  4.34 on 1 and 178 DF,  p-value: 0.03866
```









Do a little bit of outlier screening, and then rerun regression.

```
##
## Call:
## lm(formula = casepc ~ overall, data = dt)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -3.0564 -1.5037 -0.8499  1.1634  6.1880
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.67063    0.51888   1.292  0.19815
## overall      0.03323    0.01198   2.775  0.00622 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 2.137 on 153 degrees of freedom
## (12 observations deleted due to missingness)
## Multiple R-squared:  0.0479, Adjusted R-squared:  0.04168
## F-statistic: 7.698 on 1 and 153 DF, p-value: 0.006217
```

