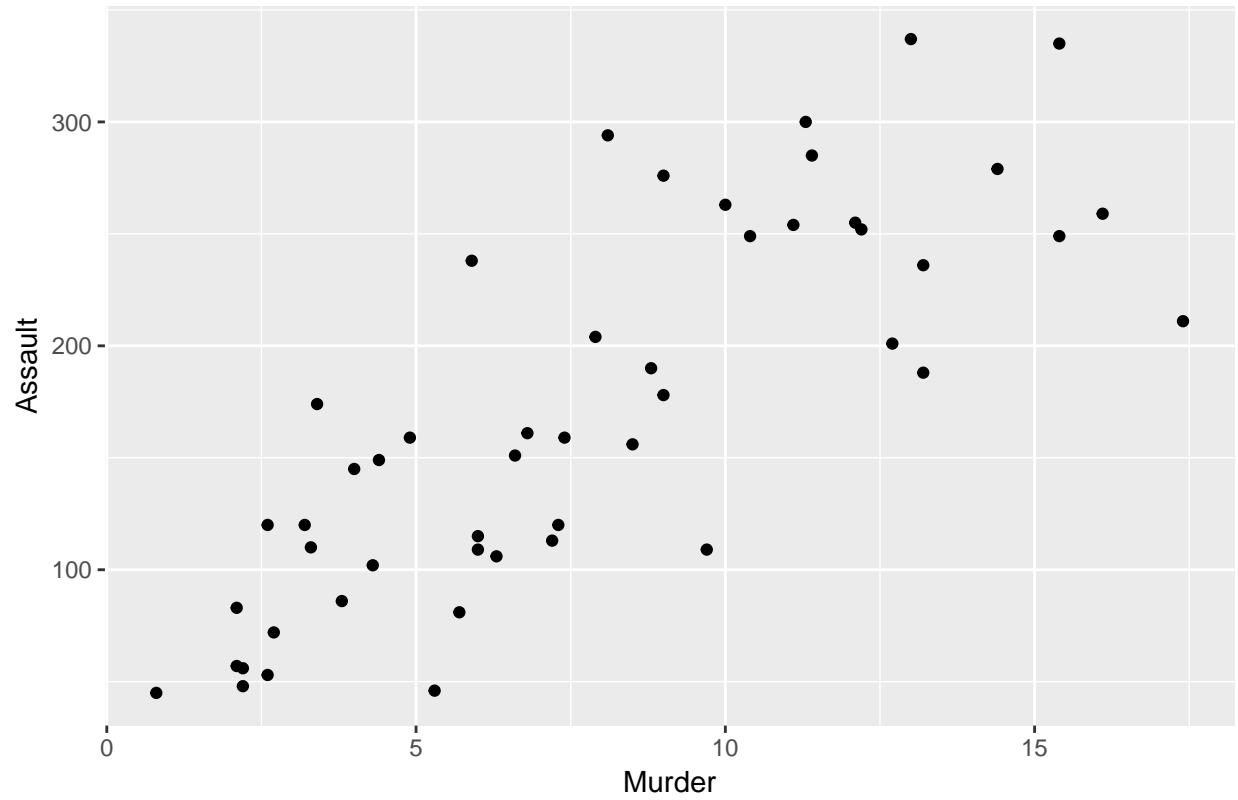


# Lab 0

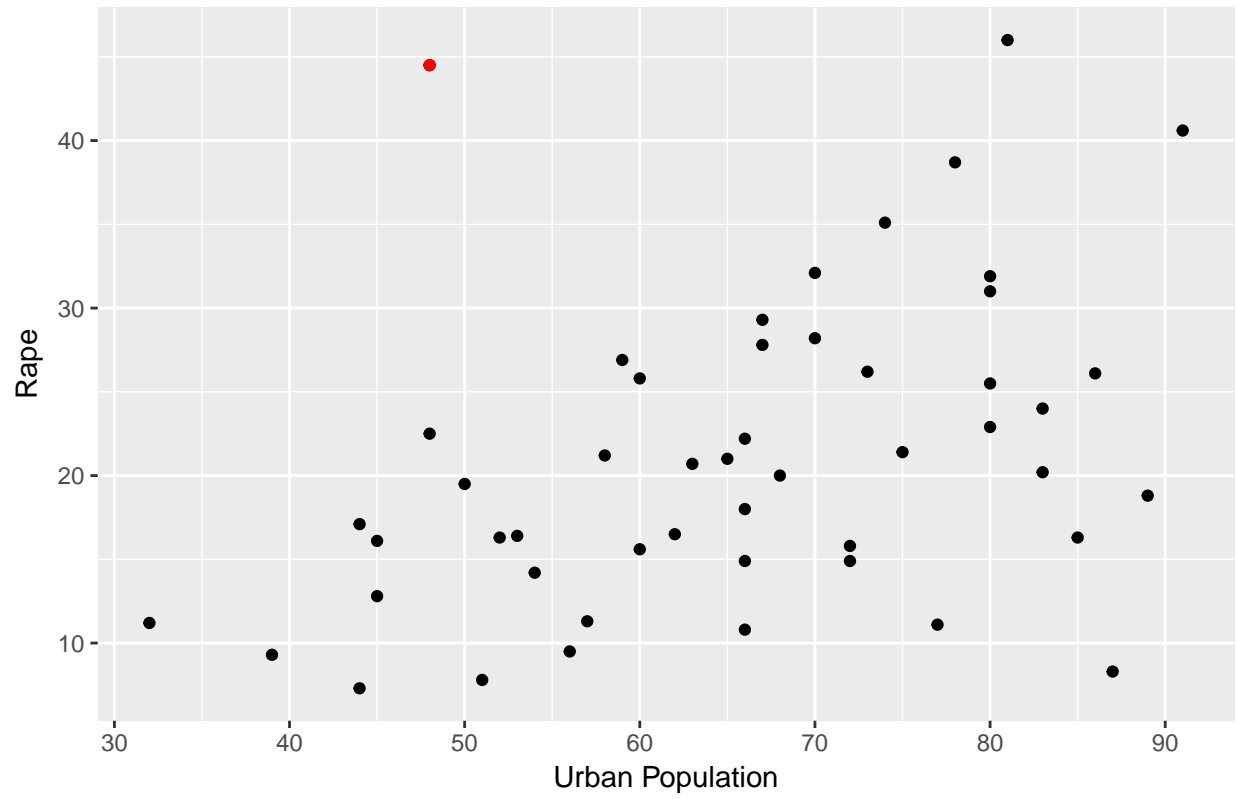
*Aniket Kesari*

*August 28, 2017*

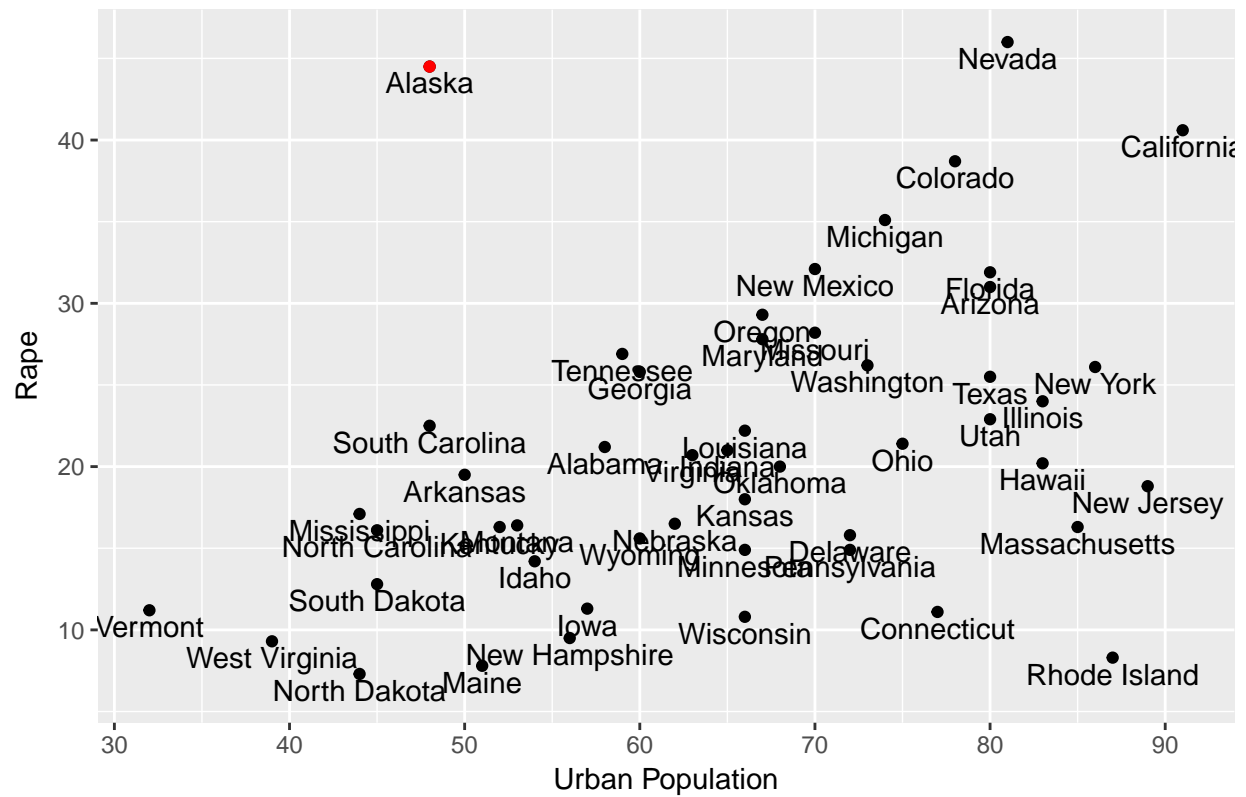
Murder vs. Assault Scatterplot



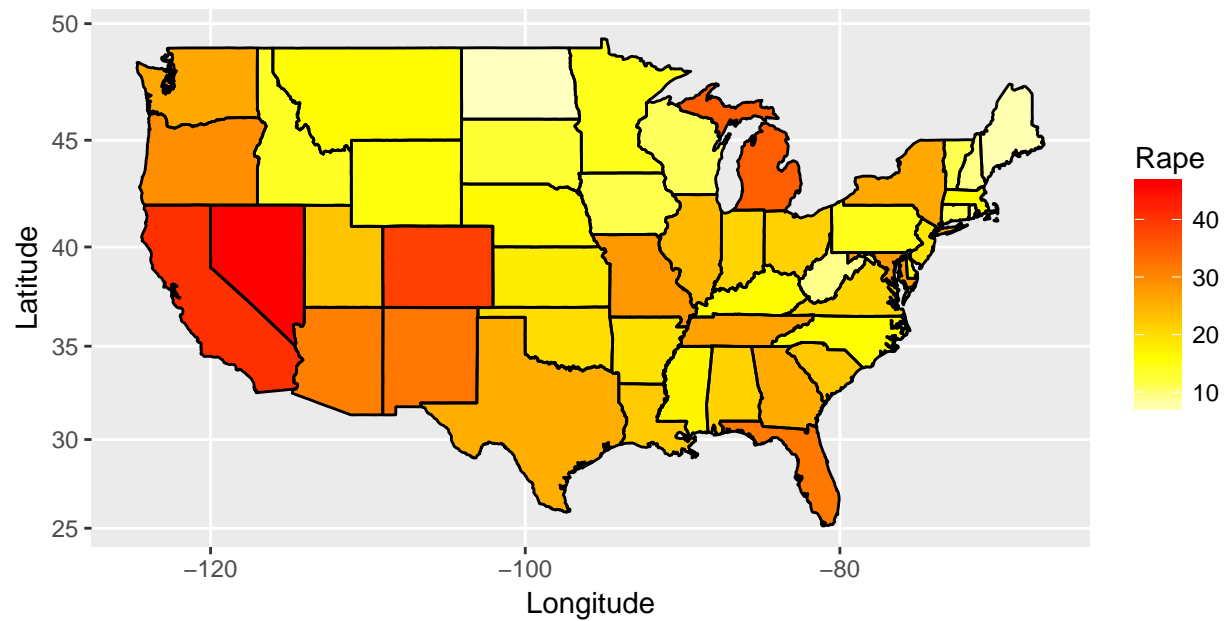
Urban Population vs. Rape Scatterplot with Outlier



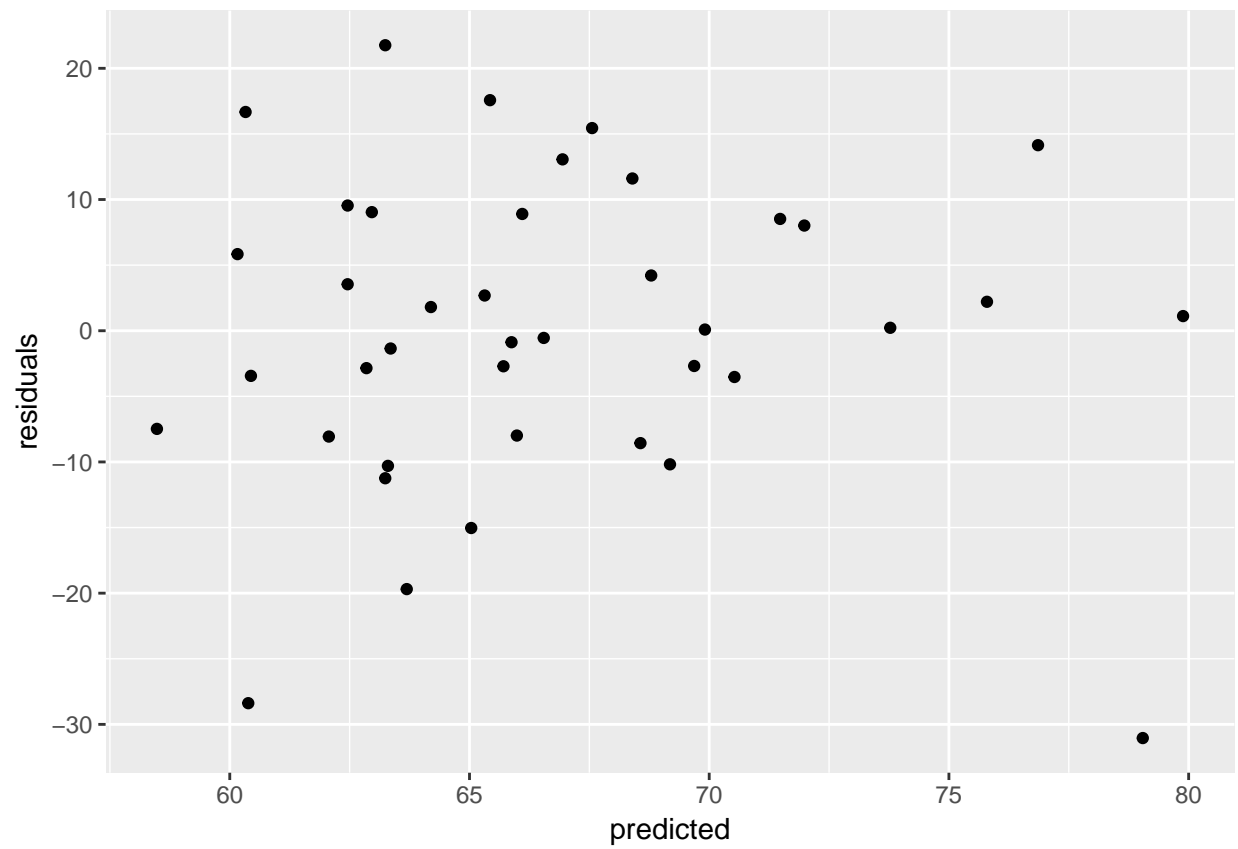
Urban Population vs. Rape With Labels



Cholorpleth Map of Rape Rates in the United States



```
##
## Call:
## lm(formula = UrbanPop ~ Rape, data = GeoUSArrests)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -31.0436  -7.6073   0.1564   8.6153  21.7571
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  54.1099     4.9514  10.928 2.74e-13 ***
## Rape          0.5603     0.2041   2.745 0.00918 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 11.81 on 38 degrees of freedom
## Multiple R-squared:  0.1655, Adjusted R-squared:  0.1436
## F-statistic: 7.538 on 1 and 38 DF,  p-value: 0.009178
```



Rape vs. Urban Population Models with Residuals

