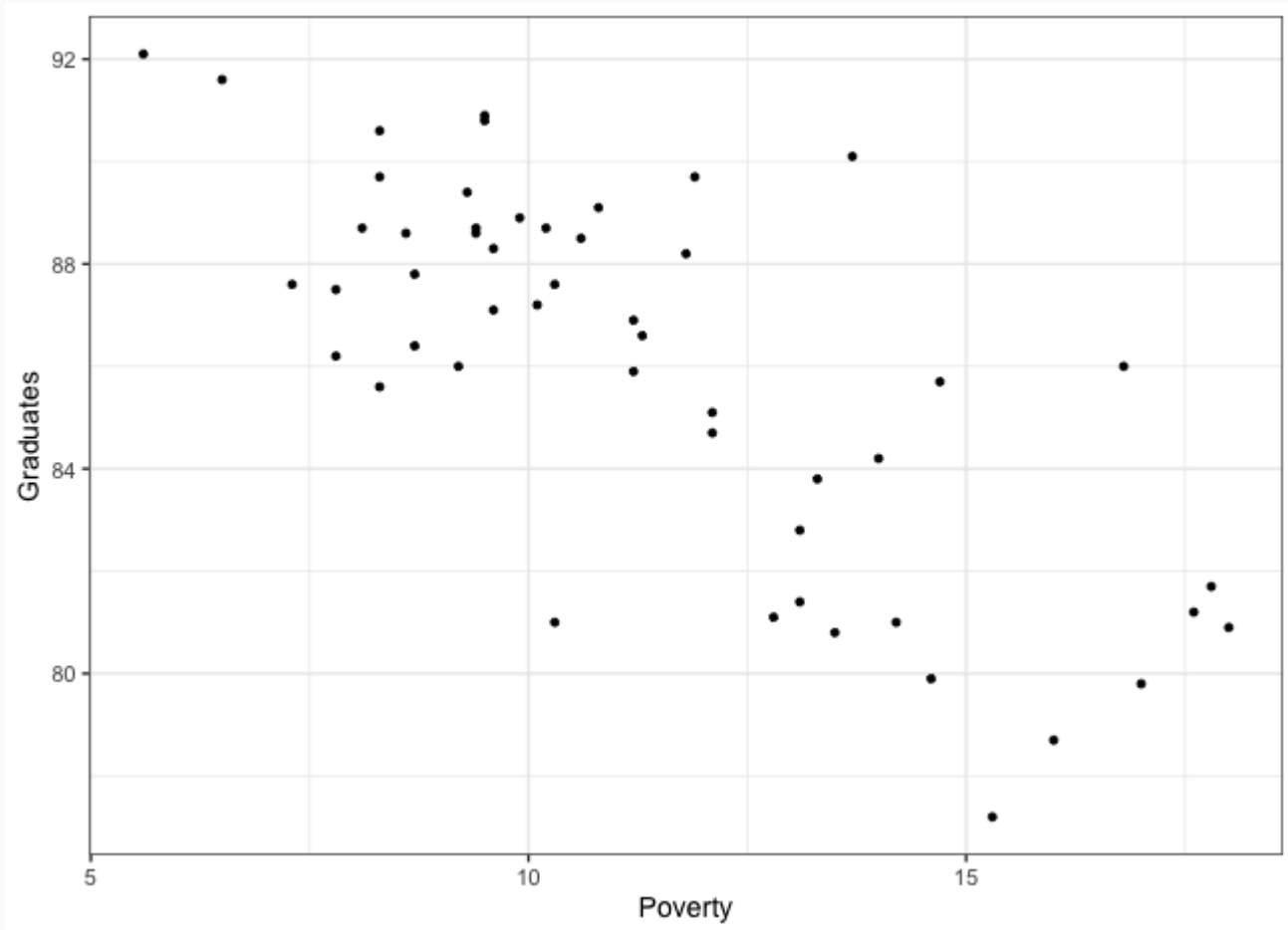


Simple Linear Regression

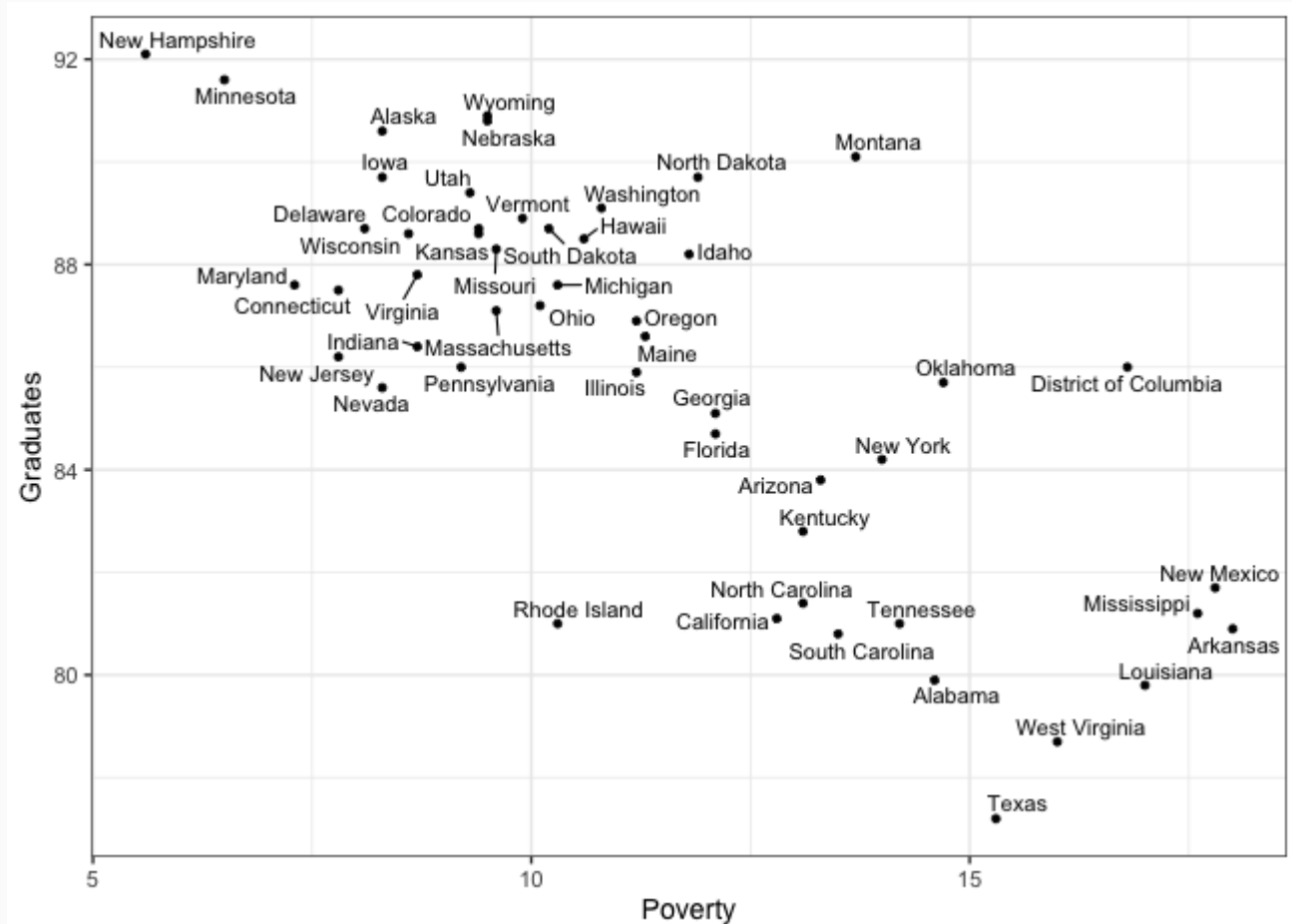
Poverty and Graduation

##	State	Metropolitan.Residence	White	Graduates	Poverty	Percent
## 1	Alabama	55.4	71.3	79.9	14.6	14.2
## 2	Alaska	65.6	70.8	90.6	8.3	10.8
## 3	Arizona	88.2	87.7	83.8	13.3	11.1
## 4	Arkansas	52.5	81.0	80.9	18.0	12.1
## 5	California	94.4	77.5	81.1	12.8	12.6
## 6	Colorado	84.5	90.2	88.7	9.4	9.6
## 7	Connecticut	87.7	85.4	87.5	7.8	12.1
## 8	Delaware	80.1	76.3	88.7	8.1	13.1

Poverty and Graduation



Poverty and Graduation



boardwork

The linear model

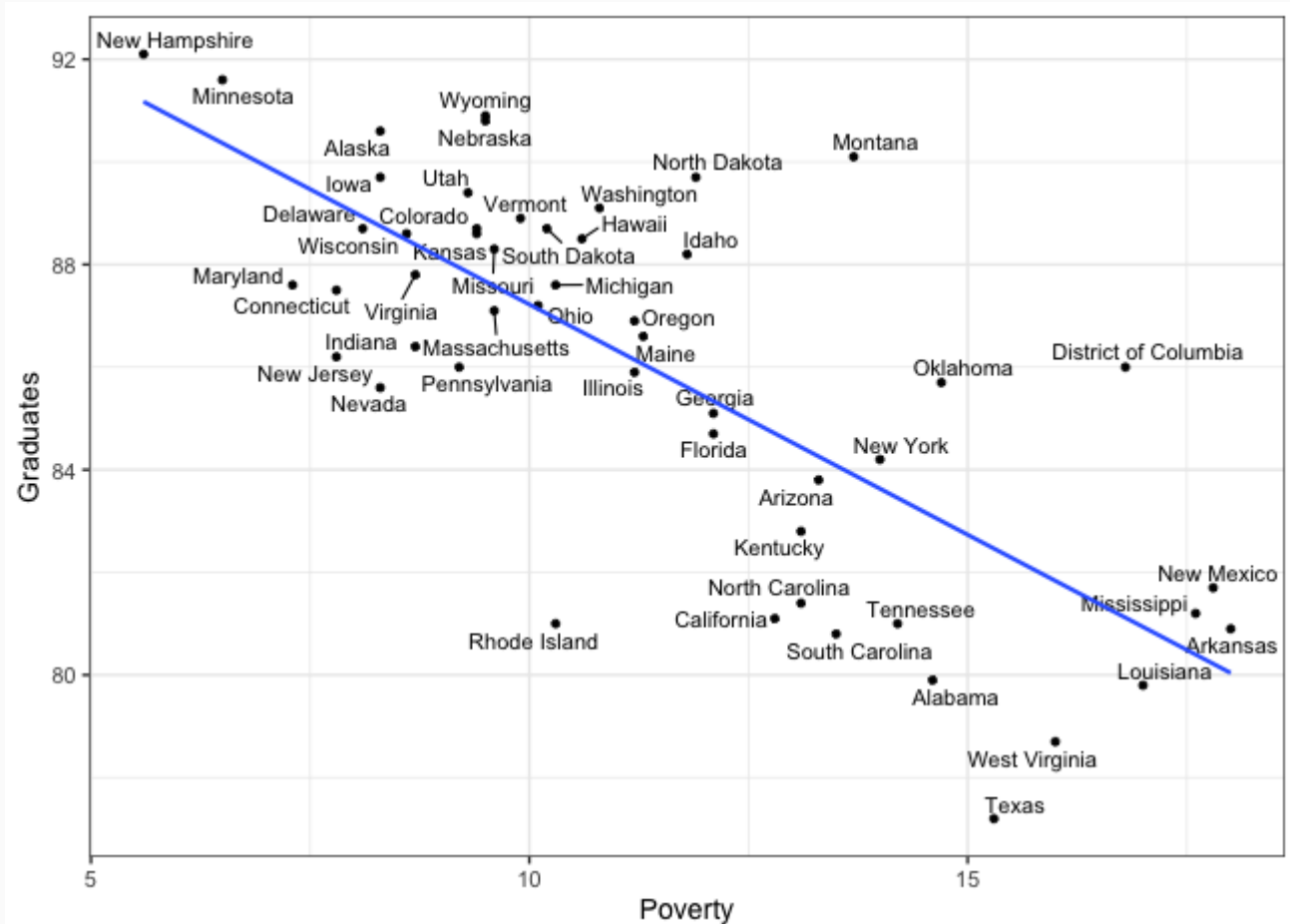
```
cor(poverty$Graduates, poverty$Poverty)
```

```
## [1] -0.747
```

```
lm(Graduates ~ Poverty, data = poverty)
```

```
##  
## Call:  
## lm(formula = Graduates ~ Poverty, data = poverty)  
##  
## Coefficients:  
## (Intercept)      Poverty  
##      96.202      -0.898
```

Poverty and Graduation



Residual Plot

