

# The Effect of Beauty and Other Characteristics on Professor Evaluation Ratings

Katelyn Barbre, Samuel Shaud, Isaac Stevens, Melanie Sattler

10/29/2020

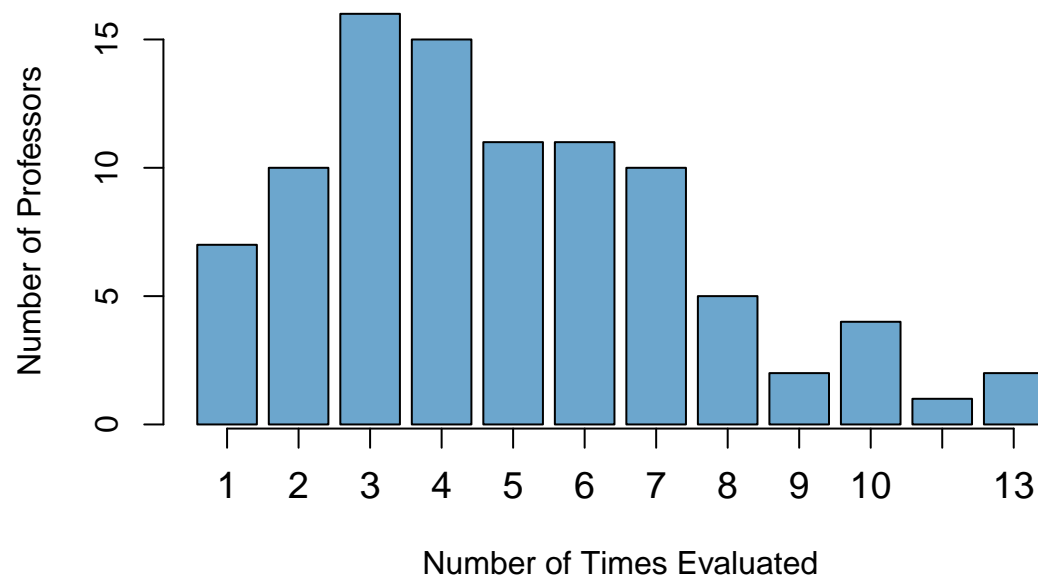
## Summary

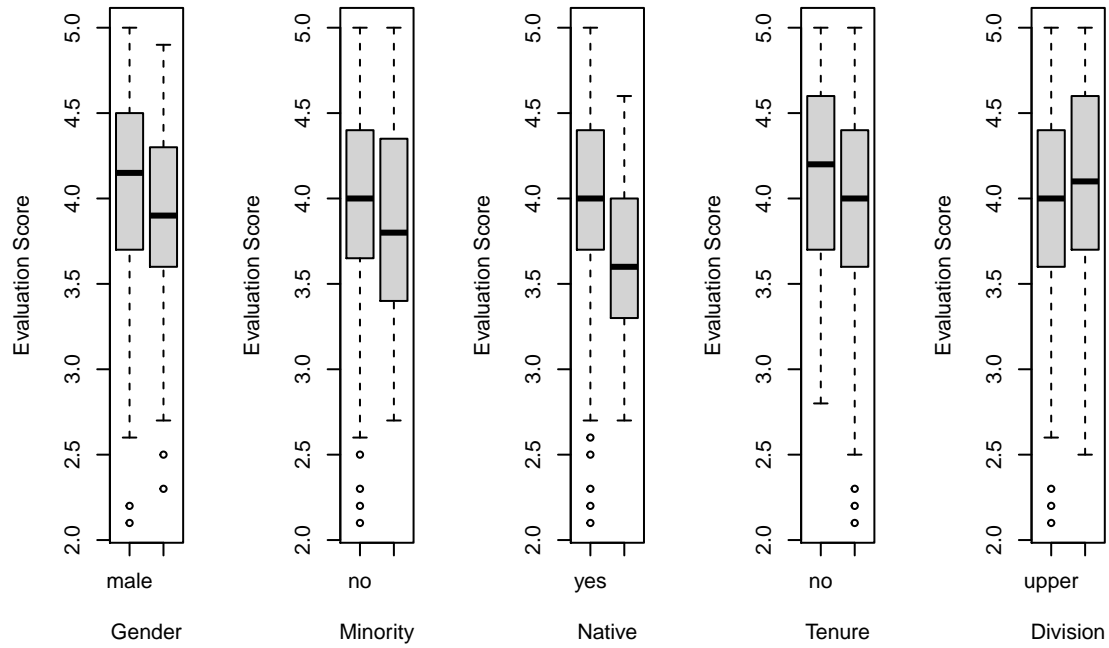
Typing words outside of chunks will be the paragraphs that show up in the PDF.

## Exploratory Data Analysis

Typing words outside of chunks will be the paragraphs that show up in the PDF.

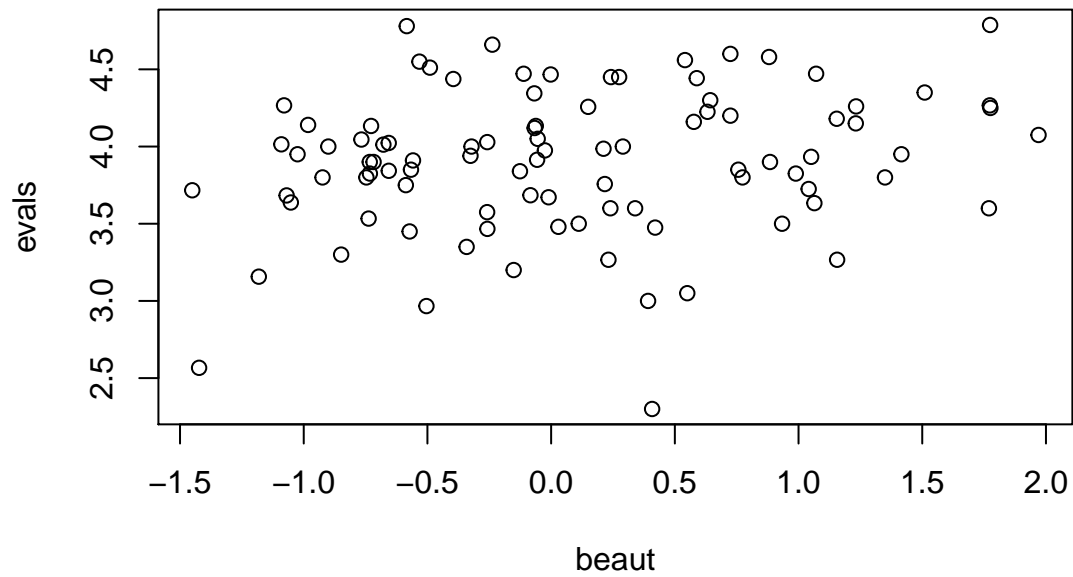
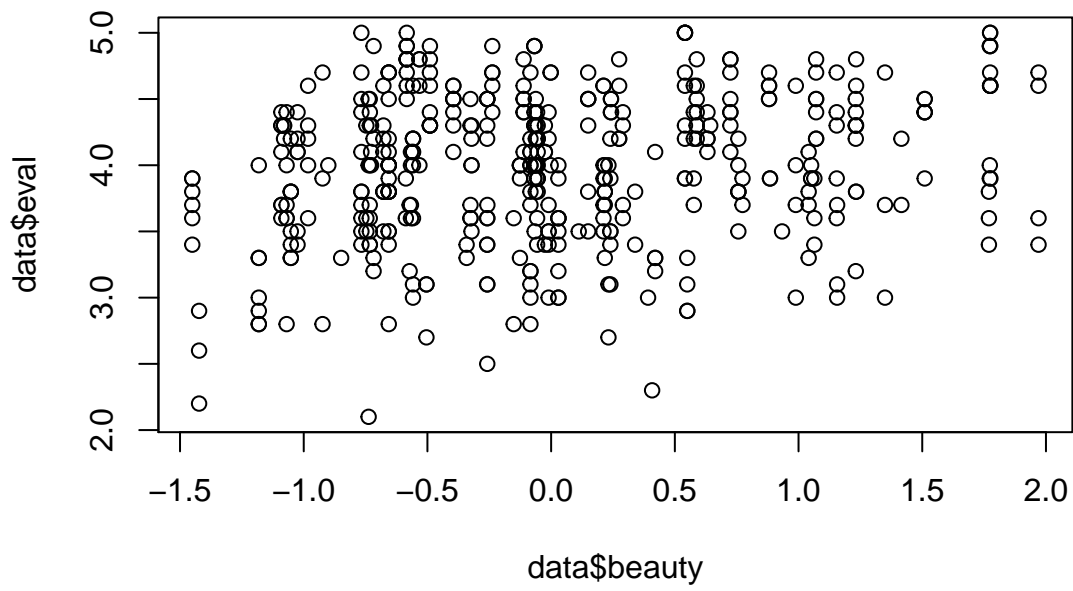
**Histogram for the Number of Times a Professor was Evaluated**





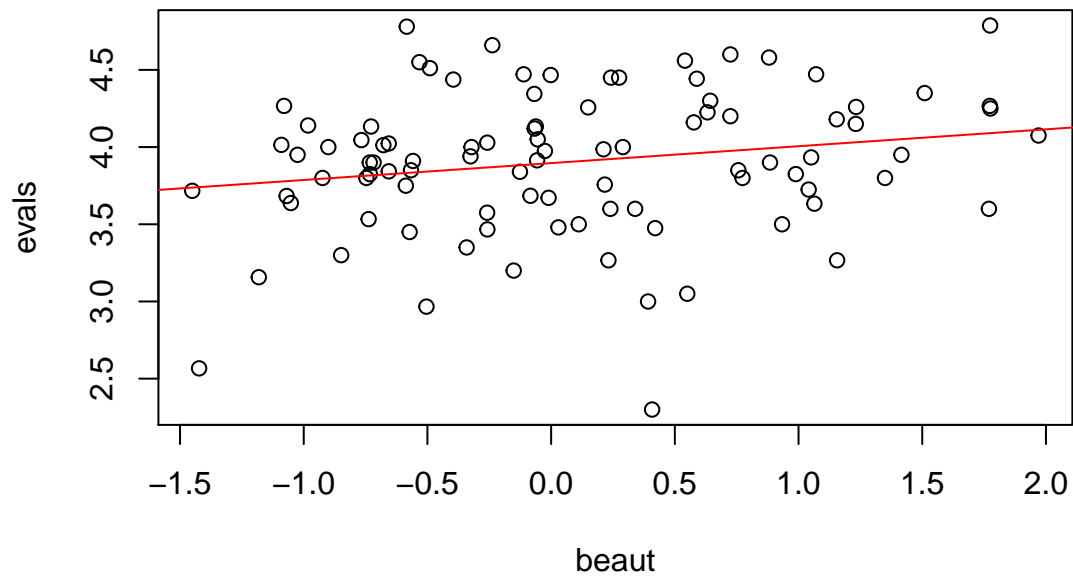
## Simple Linear Regression

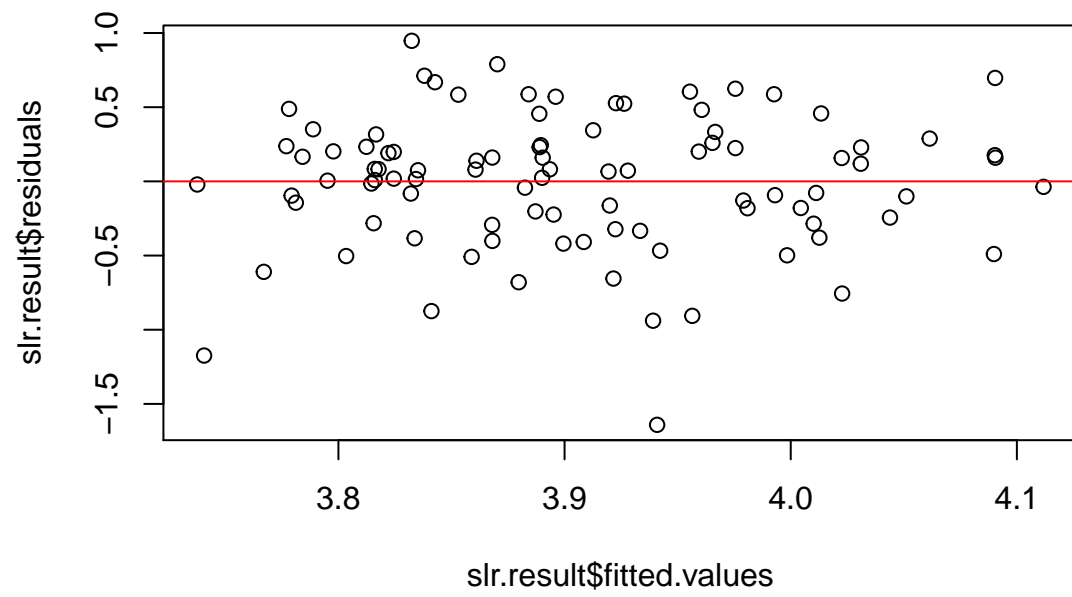
Typing words outside of chunks will be the paragraphs that show up in the PDF.



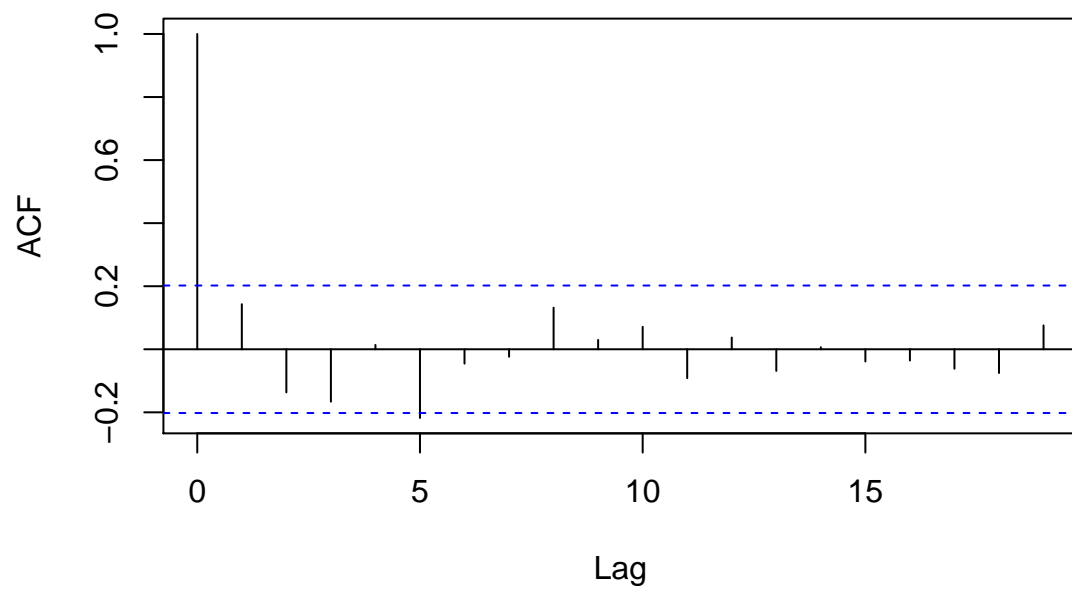
```
## Analysis of Variance Table
##
```

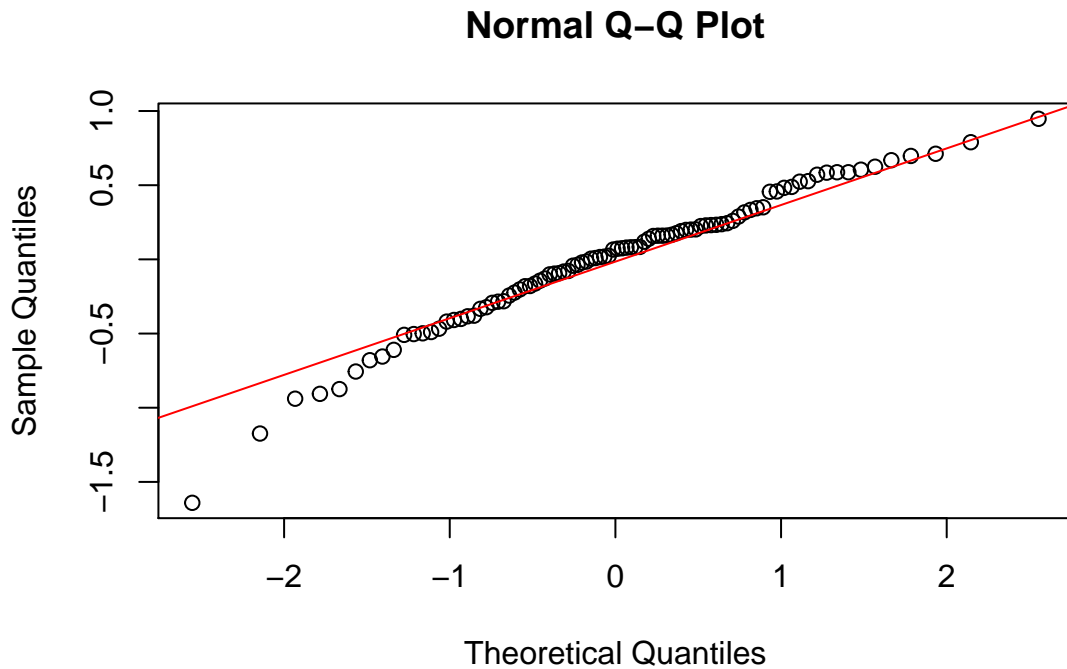
```
## Response: evals
##           Df Sum Sq Mean Sq F value Pr(>F)
## beaut      1  0.7622  0.76217   3.6881 0.0579 .
## Residuals 92 19.0123  0.20666
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```





**Series slr.result\$residuals**





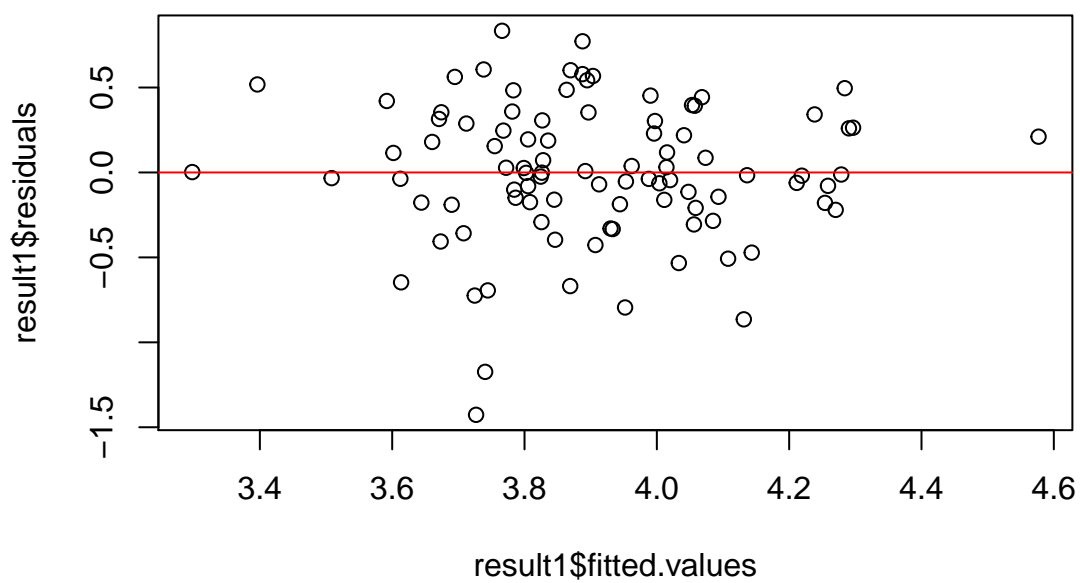
## Multiple Linear Regression

Typing words outside of chunks will be the paragraphs that show up in the PDF.

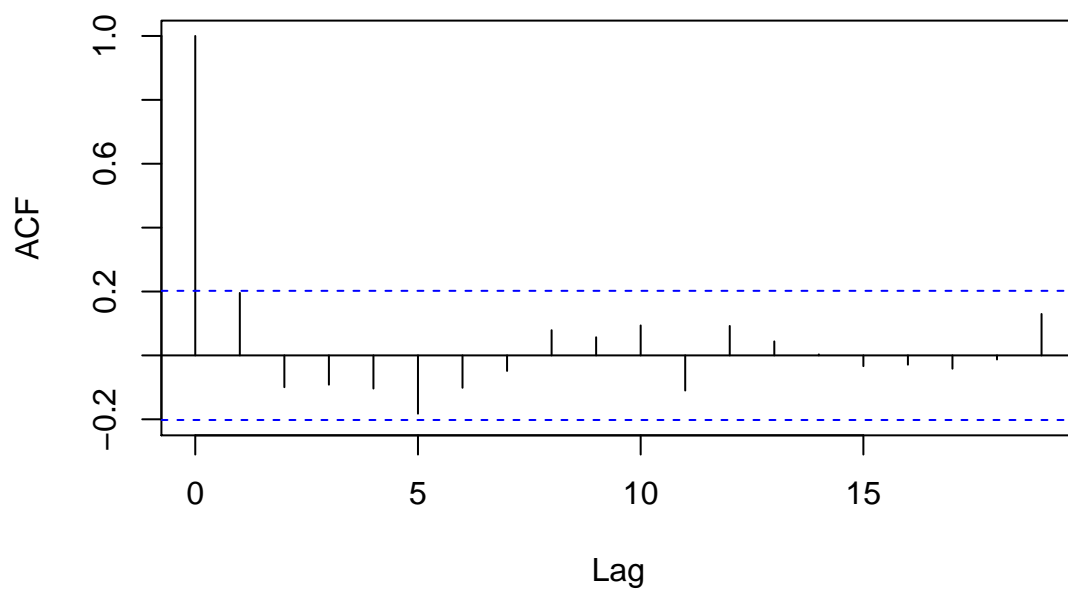
```
## Analysis of Variance Table
##
## Model 1: evals ~ division + beaut + gender + tenure + native
## Model 2: evals ~ division + beaut + gender + tenure + native + age + students +
##   allstudents + minority
##   Res.Df    RSS Df Sum of Sq    F Pr(>F)
## 1      88 15.499
## 2      84 14.470  4    1.0286 1.4928 0.2117
```

```
## Analysis of Variance Table
##
## Model 1: evals ~ division + beaut + gender + tenure
## Model 2: evals ~ division + beaut + gender + tenure + native + age + students +
##   allstudents + minority
##   Res.Df    RSS Df Sum of Sq    F Pr(>F)
## 1      89 15.964
## 2      84 14.470  5    1.4944 1.735 0.1355
```

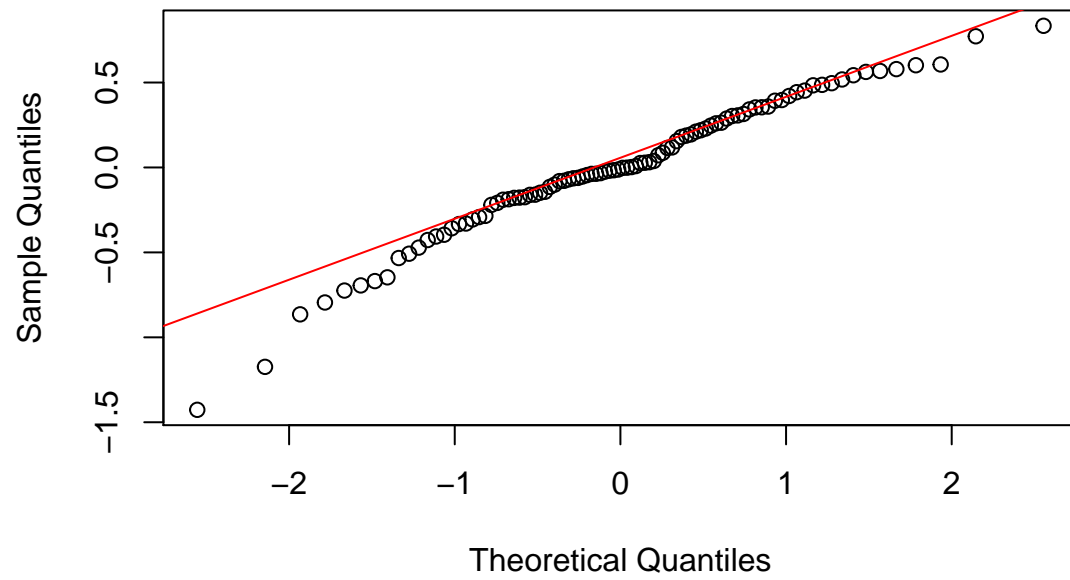
**Plot of Residuals against Fitted Values for Model 1**



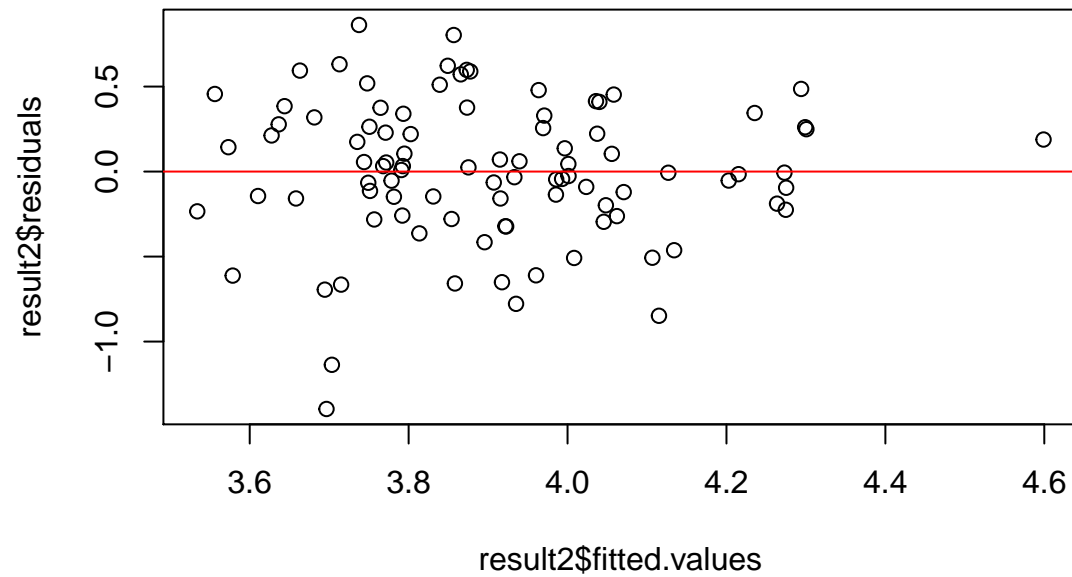
**Series result1\$residuals**



**Normal Q-Q Plot**

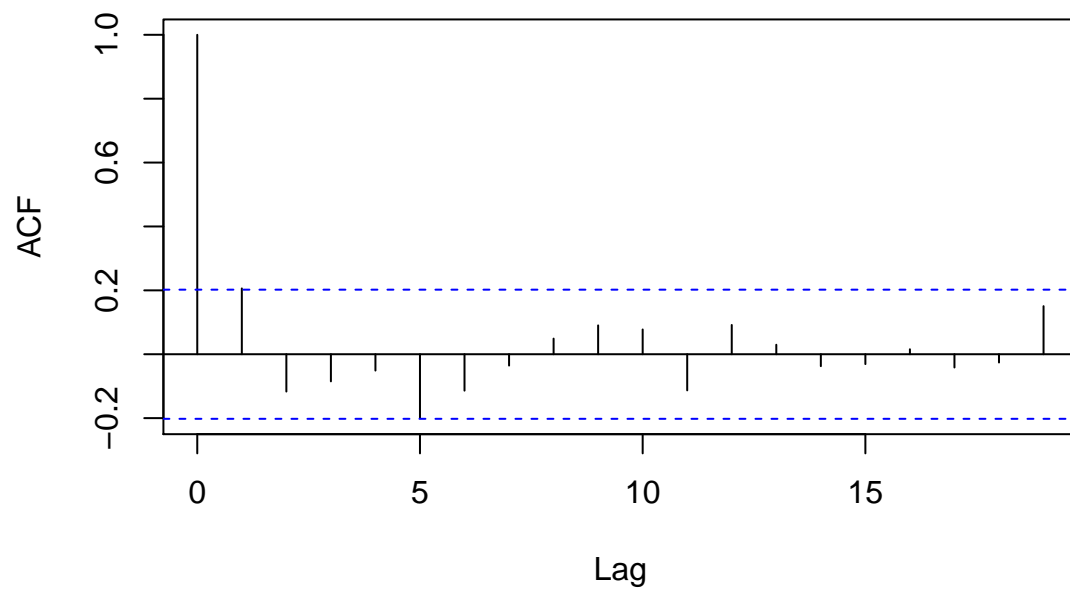


**Plot of Residuals against Fitted Values for Model 2**

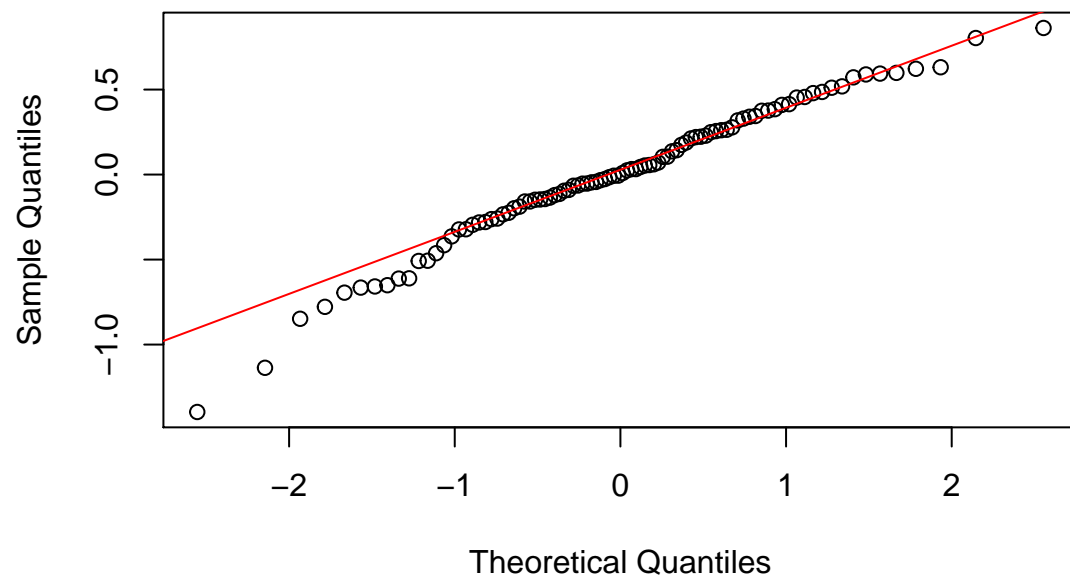


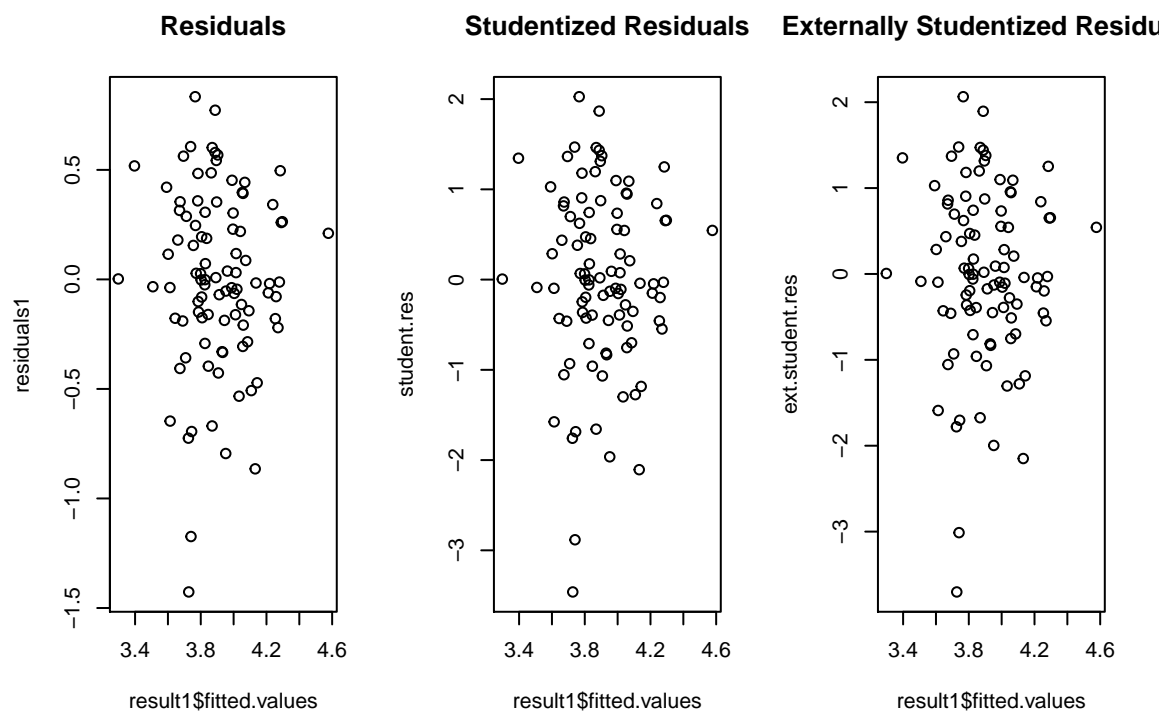


**Series result2\$residuals**

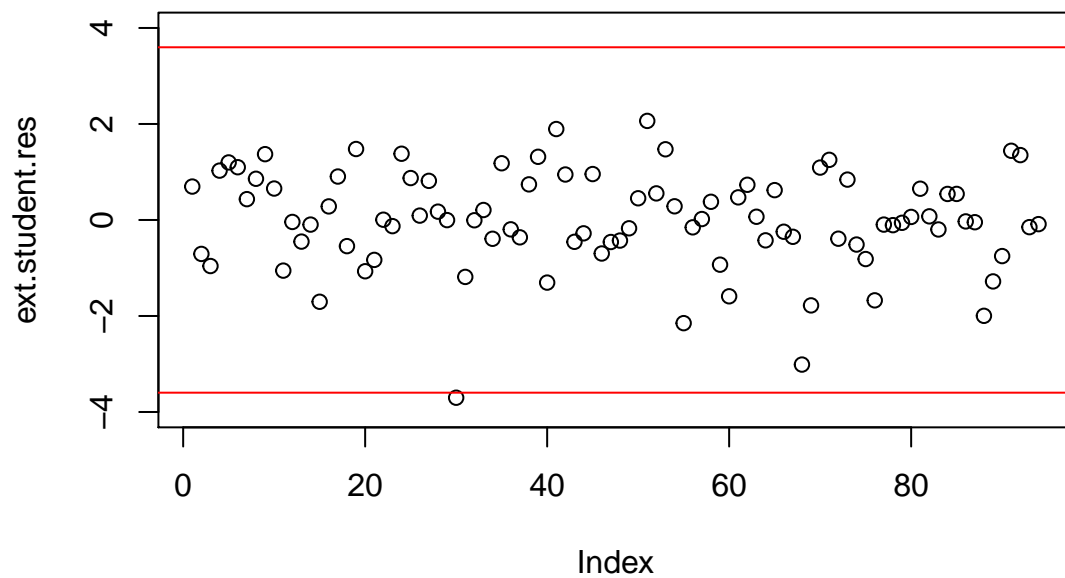


**Normal Q-Q Plot**

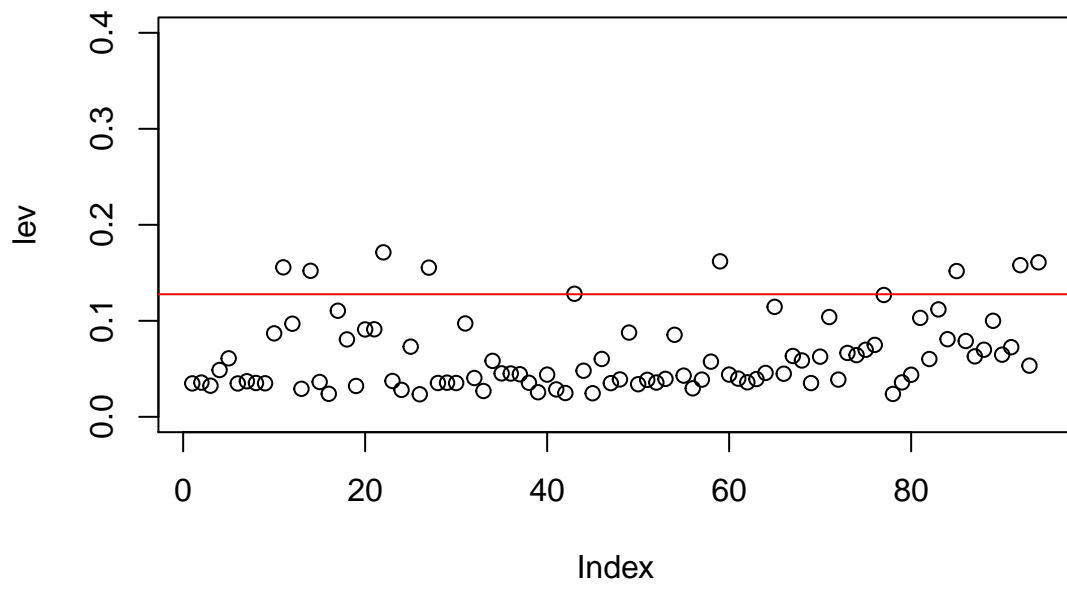




### Externally Studentized Residuals

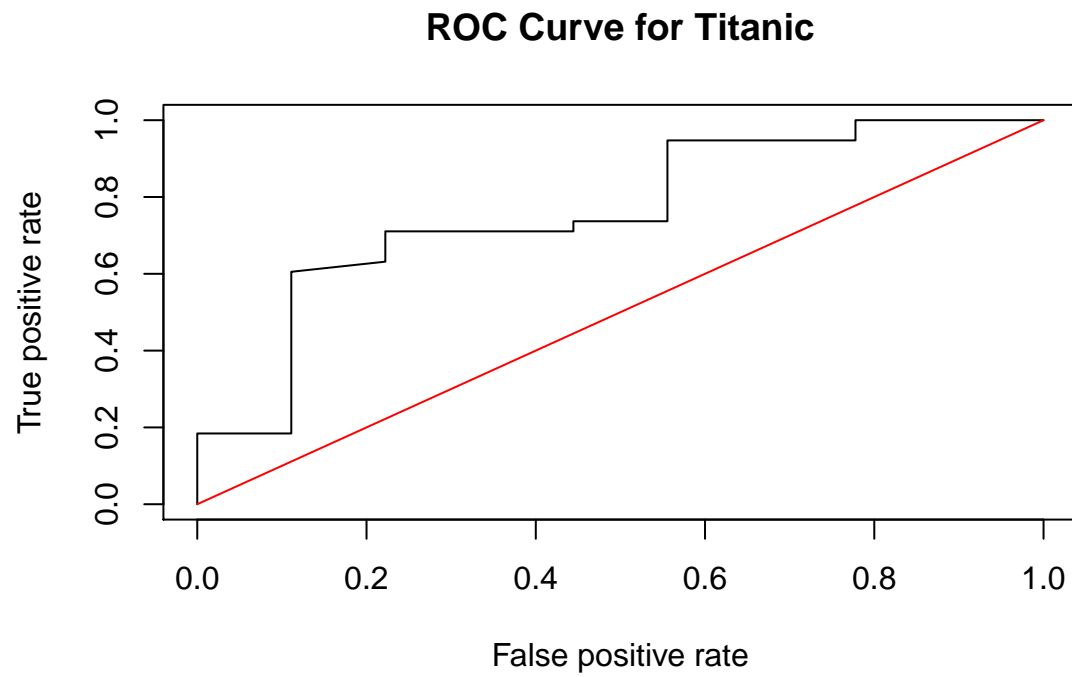


## Leverages



# Logistic Regression

## Model Validation



# Ridge/Lasso Regression

