

## Model 1:

Summary Stats:

```
> summary(lin.mod1)

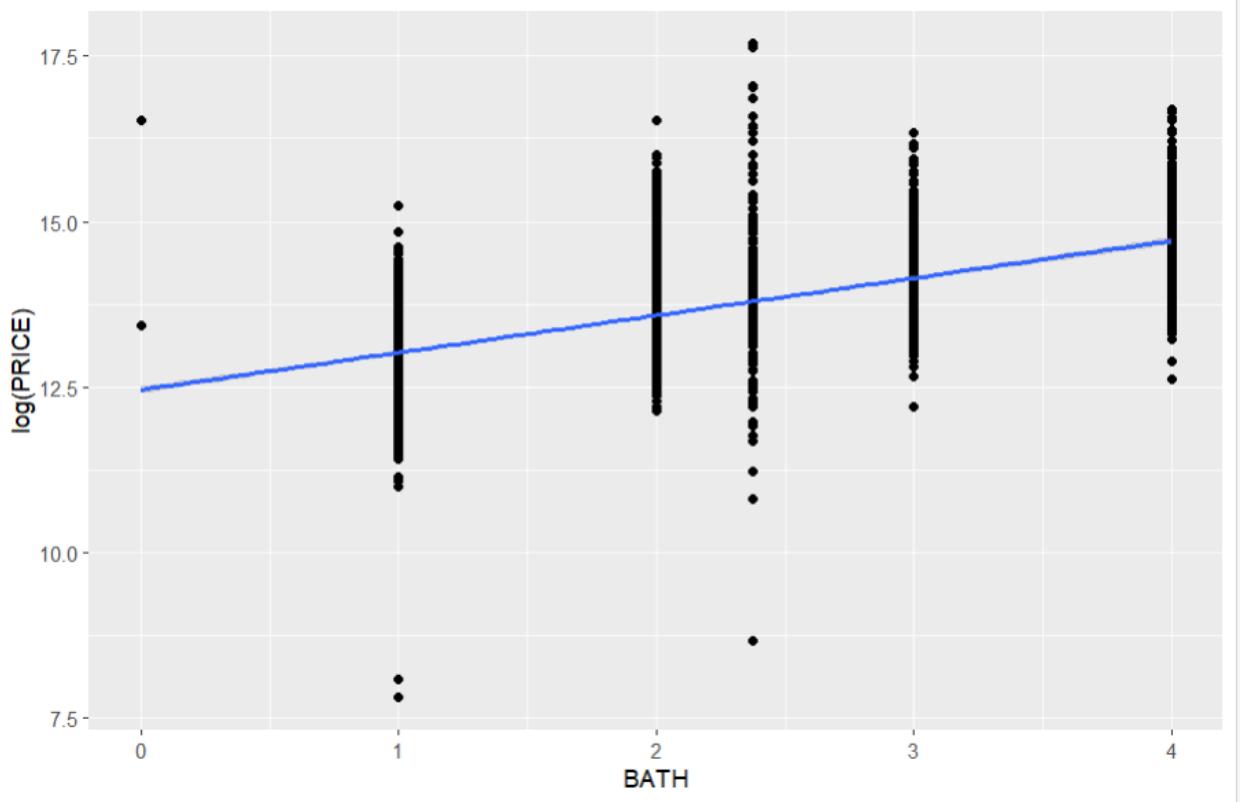
Call:
lm(formula = log(PRICE) ~ BEDS + BATH, data = df)

Residuals:
    Min      1Q  Median      3Q     Max 
-5.2014 -0.4320 -0.0665  0.3961  4.0563 

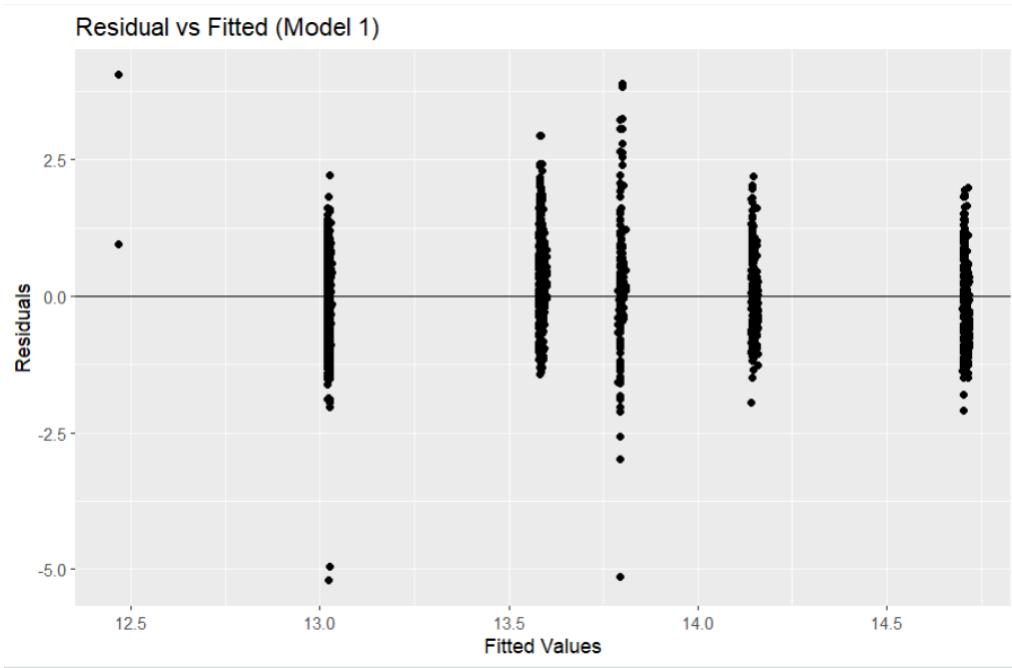
Coefficients:
            Estimate Std. Error t value Pr(>|t|)    
(Intercept) 12.457215   0.026547 469.259 <2e-16 ***  
BEDS        0.003251   0.010054   0.323   0.746    
BATH        0.559366   0.015195  36.813 <2e-16 ***  
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.6875 on 4208 degrees of freedom
Multiple R-squared:  0.357,    Adjusted R-squared:  0.3567 
F-statistic: 1168 on 2 and 4208 DF,  p-value: < 2.2e-16
```

Most Significant Variable versus log(Price) with best fit line:



## Scatterplot of Residuals:



## Model 2:

### Summary Stats:

```
> summary(lin.mod2)

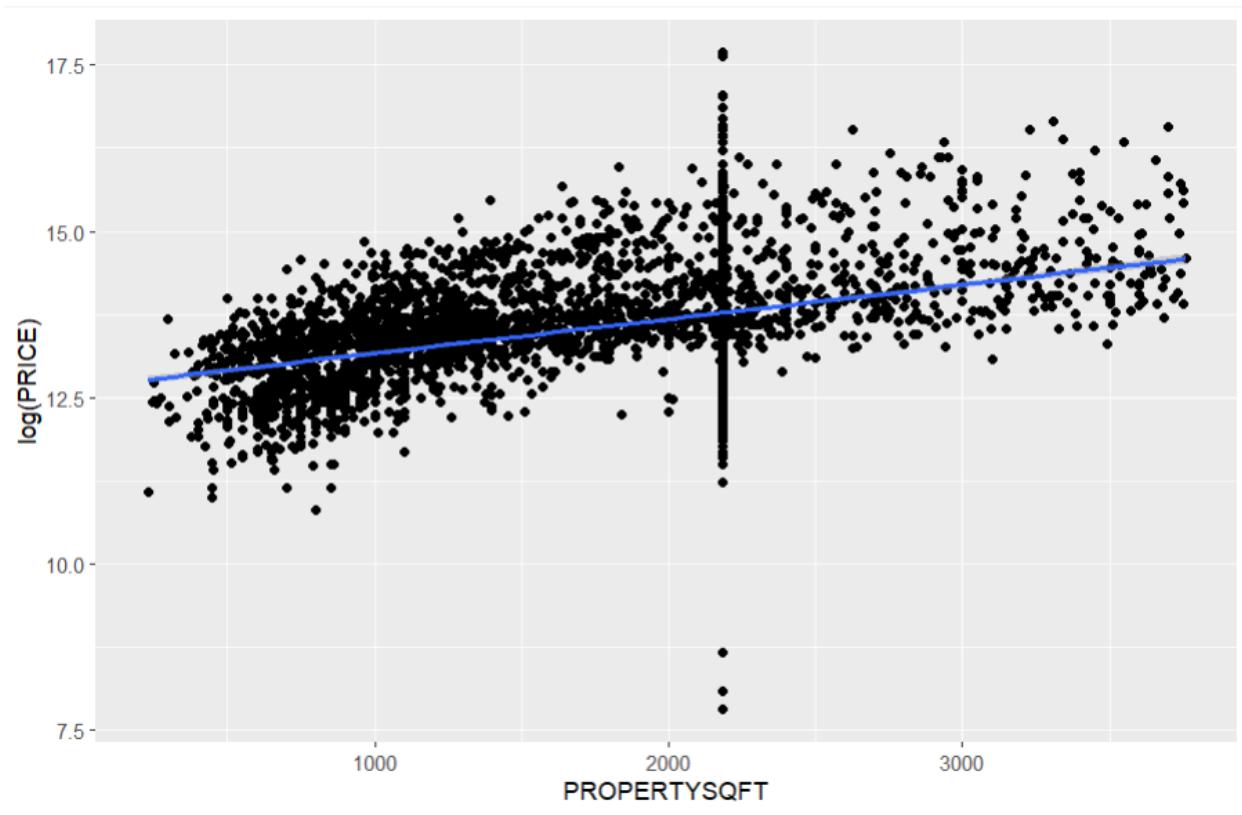
Call:
lm(formula = log(PRICE) ~ BEDS + PROPERTYSQFT, data = df)

Residuals:
    Min      1Q  Median      3Q     Max 
-5.7745 -0.4462 -0.0708  0.3600  3.6308 

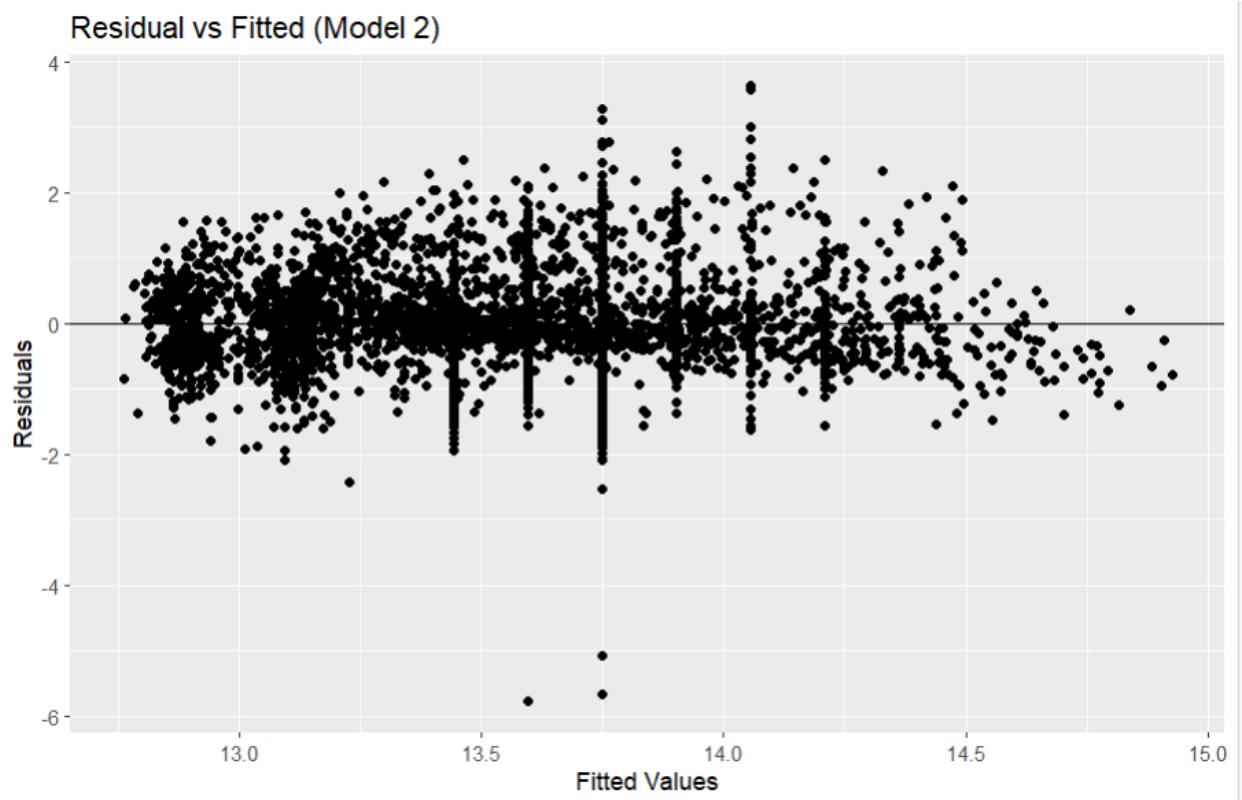
Coefficients:
            Estimate Std. Error t value Pr(>|t|)    
(Intercept) 1.247e+01 3.326e-02 374.84   <2e-16 ***
BEDS        1.532e-01 9.498e-03  16.13   <2e-16 ***
PROPERTYSQFT 3.774e-04 1.861e-05  20.28   <2e-16 ***  
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.7544 on 4208 degrees of freedom
Multiple R-squared:  0.2256,    Adjusted R-squared:  0.2253 
F-statistic: 613.1 on 2 and 4208 DF,  p-value: < 2.2e-16
```

Most Significant Variable versus log(Price) with best fit line:



Scatterplot of Residuals:



### Model 3:

Summary Stats:

```
> lin.mod3 <- lm(log(PRICE) ~ BATH + PROPERTYSQFT, df)
> summary(lin.mod3)

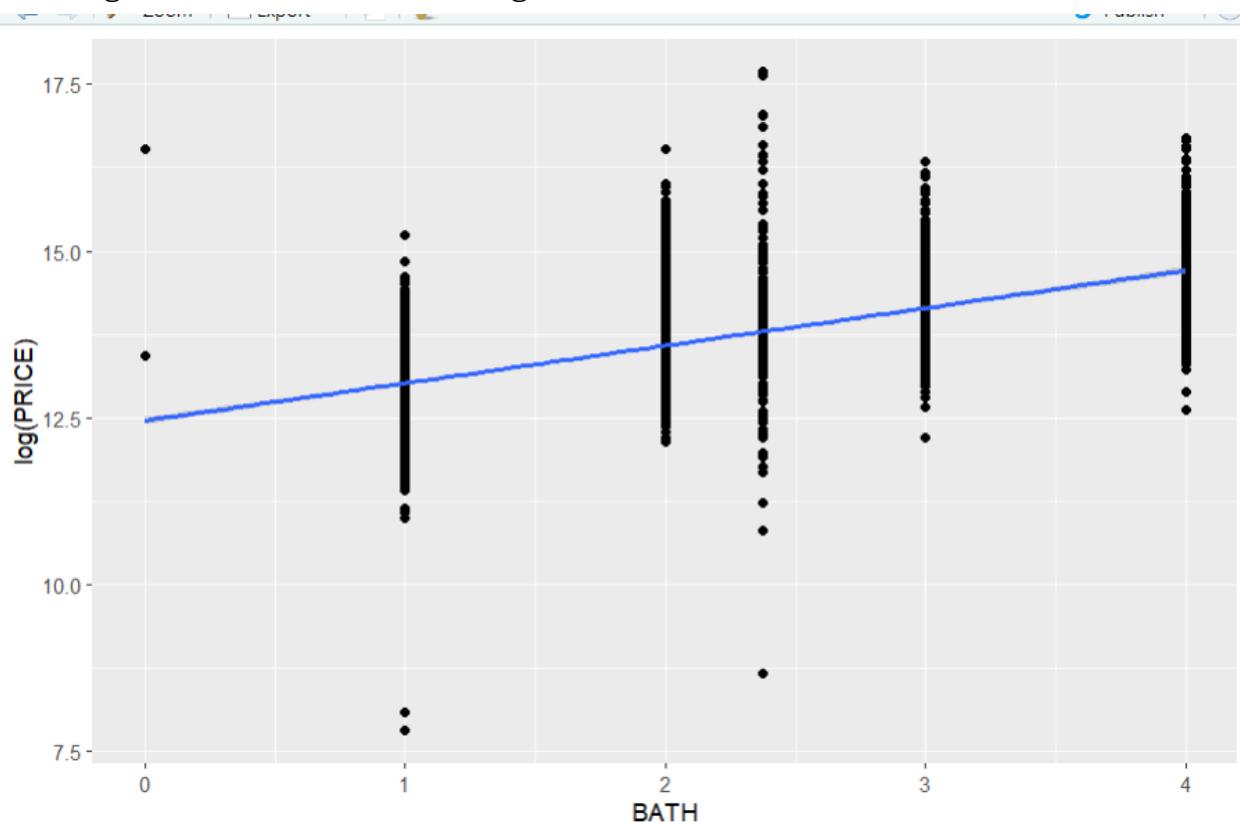
Call:
lm(formula = log(PRICE) ~ BATH + PROPERTYSQFT, data = df)

Residuals:
    Min      1Q  Median      3Q     Max 
-5.3682 -0.4218 -0.0547  0.3845  3.8324 

Coefficients:
            Estimate Std. Error t value Pr(>|t|)    
(Intercept) 1.224e+01 2.998e-02 408.41   <2e-16 ***
BATH        4.836e-01 1.305e-02   37.06   <2e-16 ***
PROPERTYSQFT 2.118e-04 1.691e-05   12.53   <2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.675 on 4208 degrees of freedom
Multiple R-squared:  0.3801,    Adjusted R-squared:  0.3798 
F-statistic: 1290 on 2 and 4208 DF,  p-value: < 2.2e-16
```

Most Significant Variable versus log(Price) with best fit line:



Scatterplot of Residuals:

Residual vs Fitted (Model 3)

