

Data Analytics Lab 2 Submission

Tony Fausto

---Model 1---

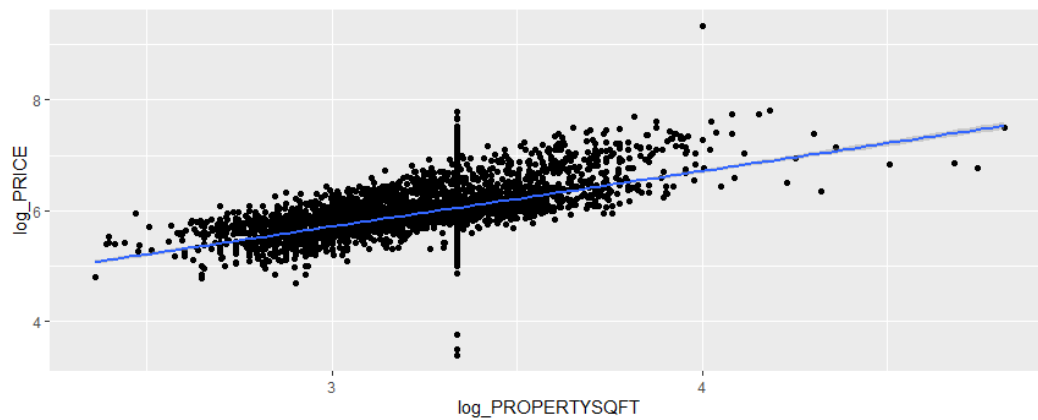
```
> summary(lin.mod0)

Call:
lm(formula = log_PRICE ~ log_PROPERTYSQFT, data = ny.data)

Residuals:
    Min       1Q   Median       3Q      Max
-2.6587 -0.2058 -0.0278  0.1968  2.6139

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)   2.70777    0.06831   39.64  <2e-16 ***
log_PROPERTYSQFT 1.00256    0.02099   47.77  <2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.3611 on 4757 degrees of freedom
Multiple R-squared:  0.3242,    Adjusted R-squared:  0.324
F-statistic: 2282 on 1 and 4757 DF,  p-value: < 2.2e-16
```



---Model 2---

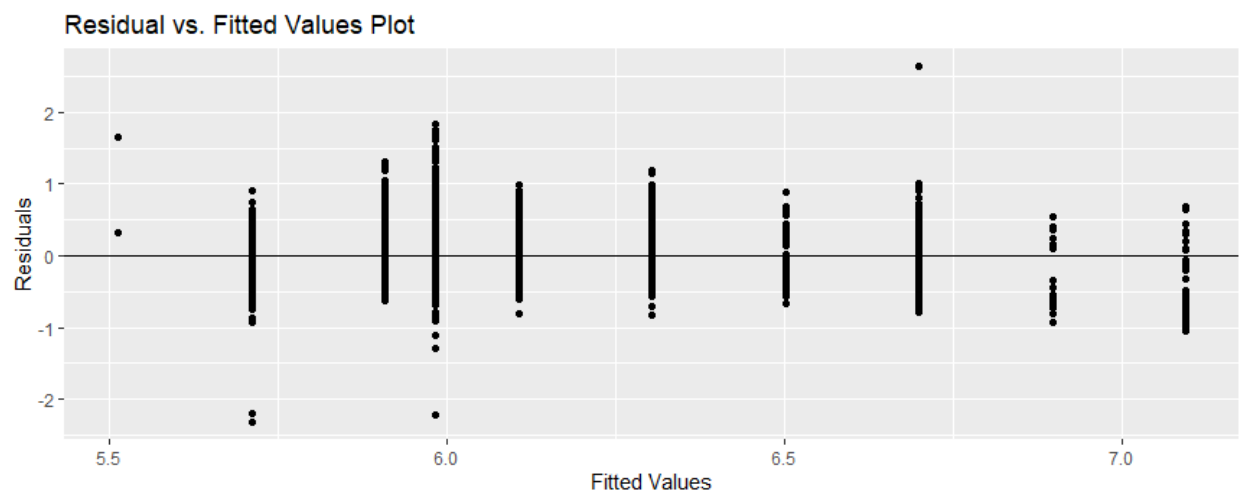
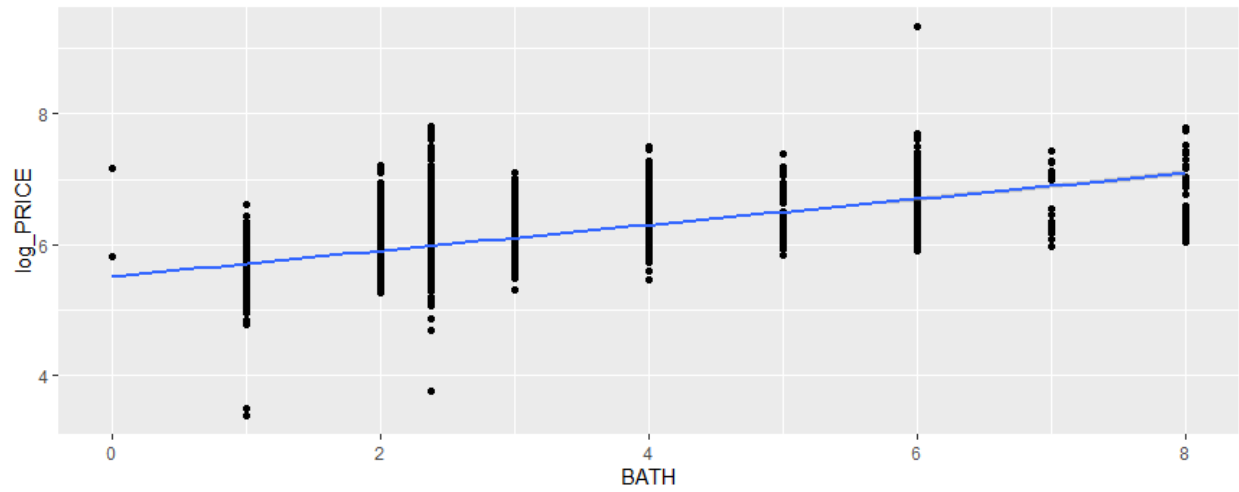
```
> summary(lin.mod1)

Call:
lm(formula = log_PRICE ~ BATH, data = ny.data)

Residuals:
    Min       1Q   Median       3Q      Max
-2.31384 -0.20944 -0.03404  0.17326  2.63325

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)  5.513150   0.009629  572.57  <2e-16 ***
BATH          0.197588   0.003628   54.46  <2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.3447 on 4757 degrees of freedom
Multiple R-squared:  0.3841,    Adjusted R-squared:  0.3839
F-statistic: 2966 on 1 and 4757 DF,  p-value: < 2.2e-16
```



---Model 3---

```
> summary(lin.mod2)

Call:
lm(formula = log_PRICE ~ BEDS + BATH, data = ny.data)

Residuals:
    Min       1Q   Median       3Q      Max
-2.31275 -0.20980 -0.03599  0.17952  2.63107

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  5.520895   0.010042  549.767 < 2e-16 ***
BEDS         -0.009495   0.003522  -2.696  0.00705 **
BATH          0.207738   0.005227  39.743 < 2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.3445 on 4756 degrees of freedom
Multiple R-squared:  0.385,    Adjusted R-squared:  0.3847
F-statistic: 1489 on 2 and 4756 DF,  p-value: < 2.2e-16
```

