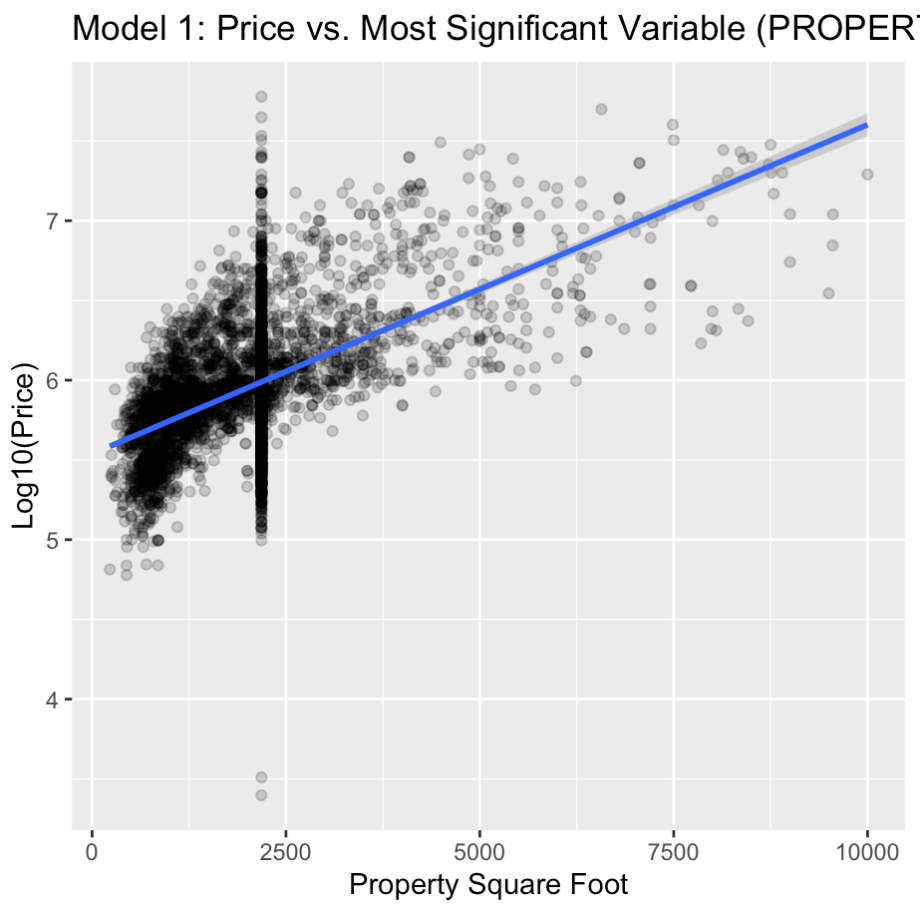
Model 1

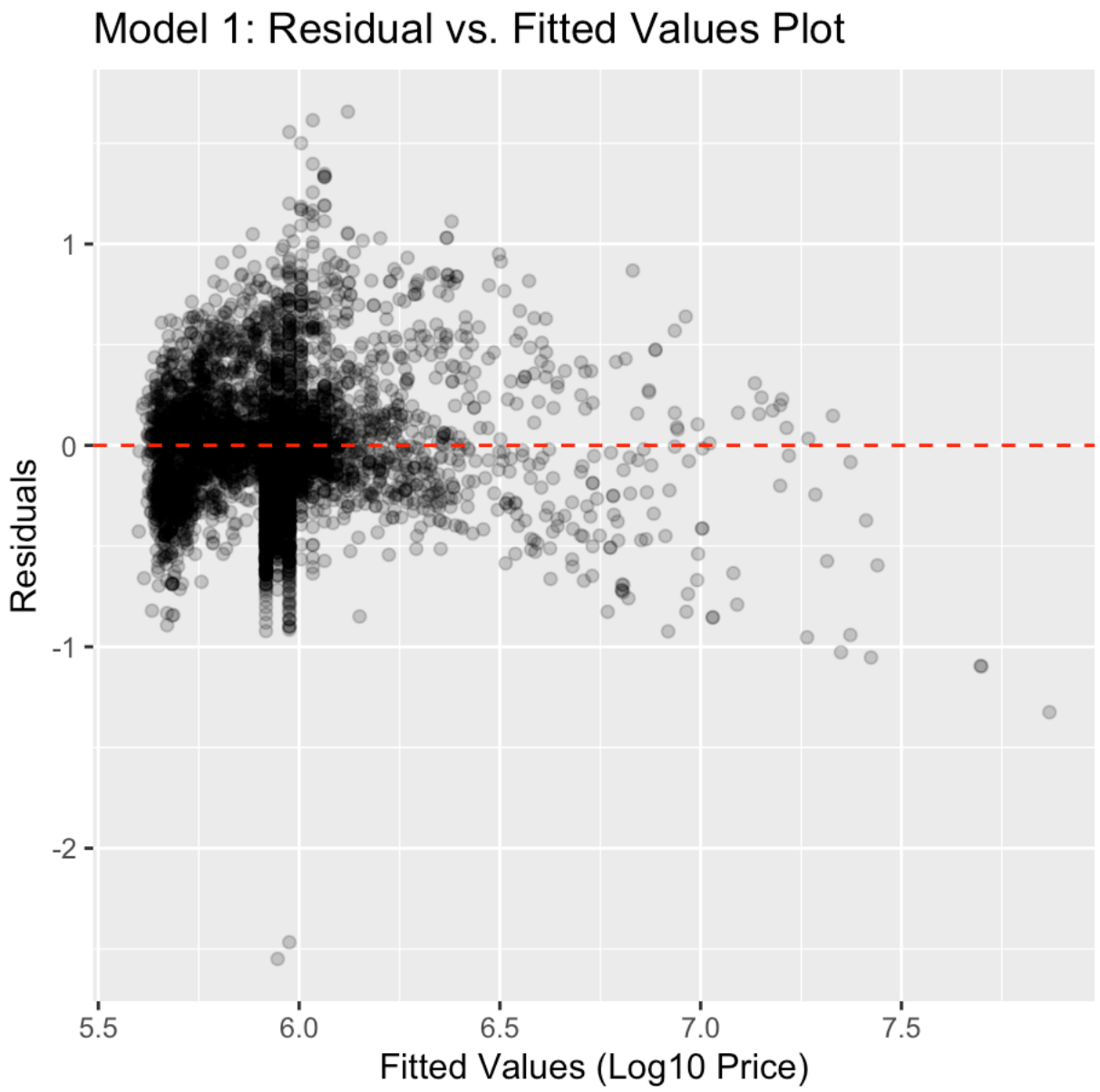
```
Call:
lm(formula = log_price ~ PROPERTYSQFT + BEDS, data = ny.data.clean)

Residuals:
     Min       1Q   Median       3Q      Max
-2.54968 -0.19954 -0.02265  0.16622  1.65669

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)  5.506e+00  1.058e-02  520.58   <2e-16 ***
PROPERTYSQFT 1.751e-04  5.328e-06   32.86   <2e-16 ***
BEDS         2.915e-02  2.781e-03   10.48   <2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.3412 on 4464 degrees of freedom
Multiple R-squared:  0.3398,    Adjusted R-squared:  0.3395
F-statistic:  1149 on 2 and 4464 DF,  p-value: < 2.2e-16
```




Model 1: Residual vs. Fitted Values Plot
Residuals
1
0
-1
-2
5.5
6.0
6.5
7.0
7.5
Fitted Values (Log10 Price)

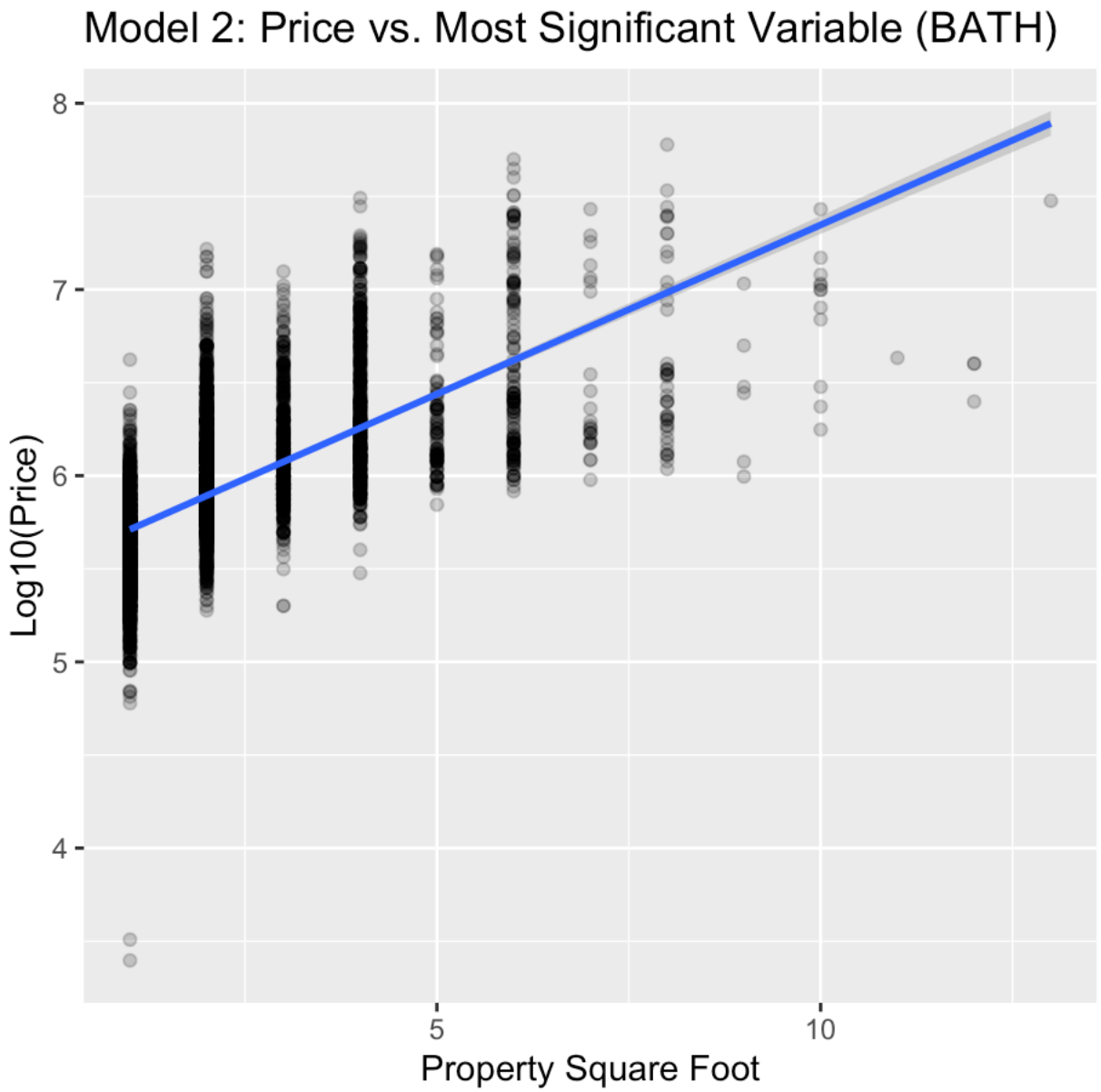
Model 2

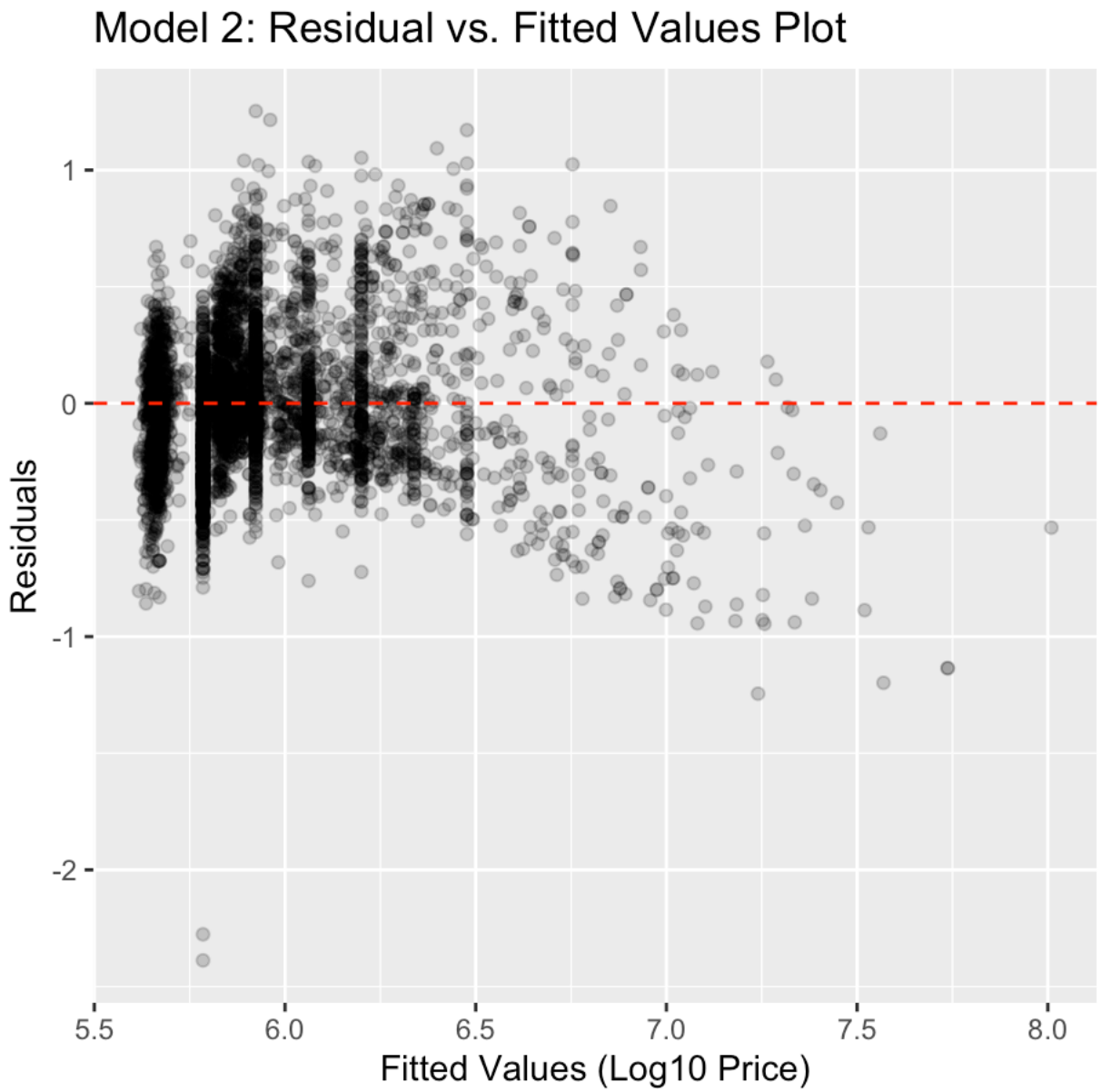
```
Call:
lm(formula = log_price ~ PROPERTYSQFT + BATH, data = ny.data.clean)

Residuals:
     Min       1Q   Median       3Q      Max
-2.38805 -0.18835 -0.02082  0.16208  1.25272

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)  5.459e+00  9.404e-03  580.49   <2e-16 ***
PROPERTYSQFT 8.580e-05  5.312e-06   16.15   <2e-16 ***
BATH         1.384e-01  4.044e-03   34.23   <2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.3074 on 4464 degrees of freedom
Multiple R-squared:  0.4642,    Adjusted R-squared:  0.4639
F-statistic:  1934 on 2 and 4464 DF,  p-value: < 2.2e-16
```


Model 2: Price vs. Most Significant Variable (BATH)
Log10(Price)
8
7
6
5
4
5
10
Property Square Foot


Model 2: Residual vs. Fitted Values Plot
Residuals
1
0
-1
-2
5.5
6.0
6.5
7.0
7.5
8.0
Fitted Values (Log10 Price)

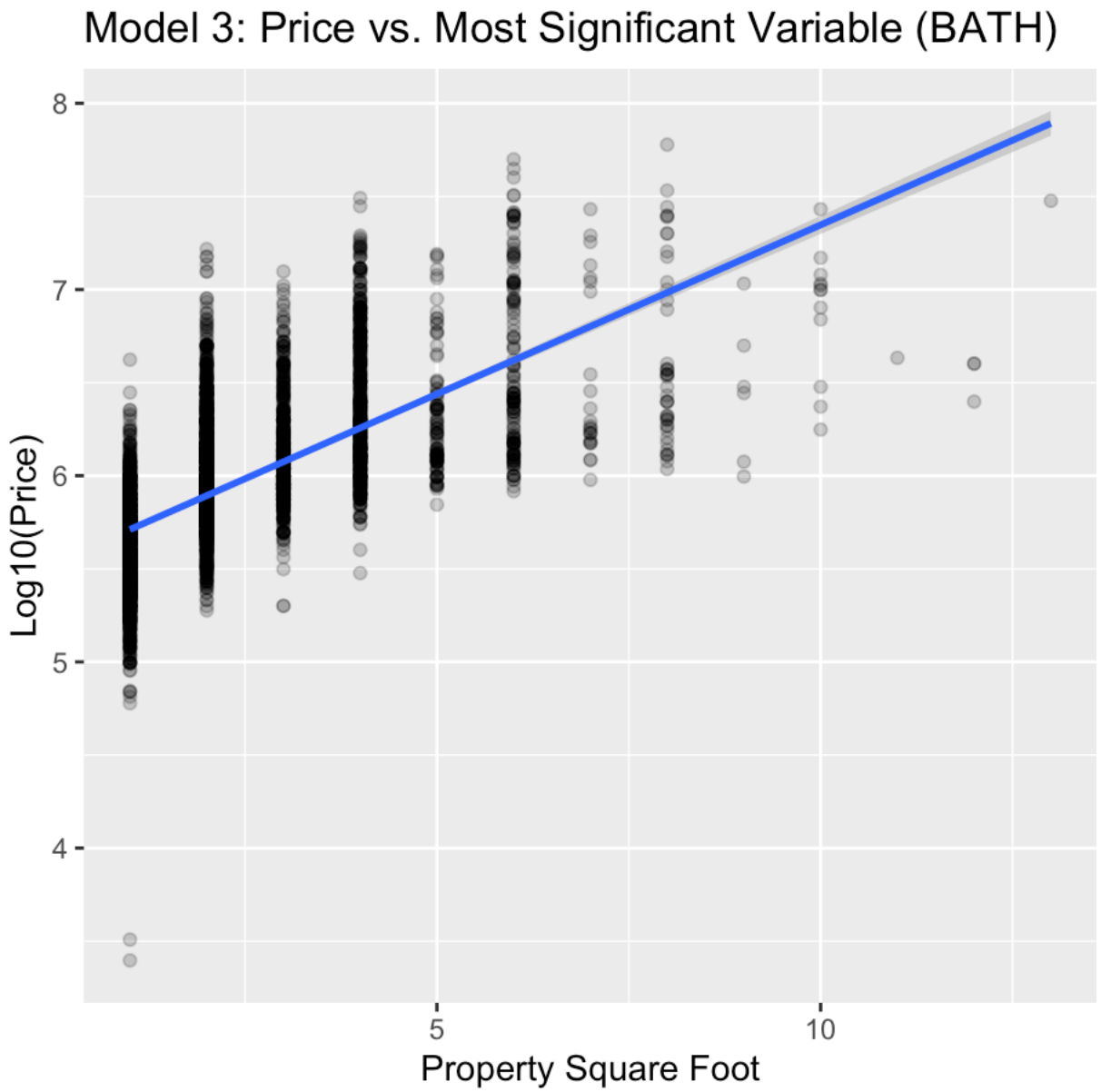
Model 3

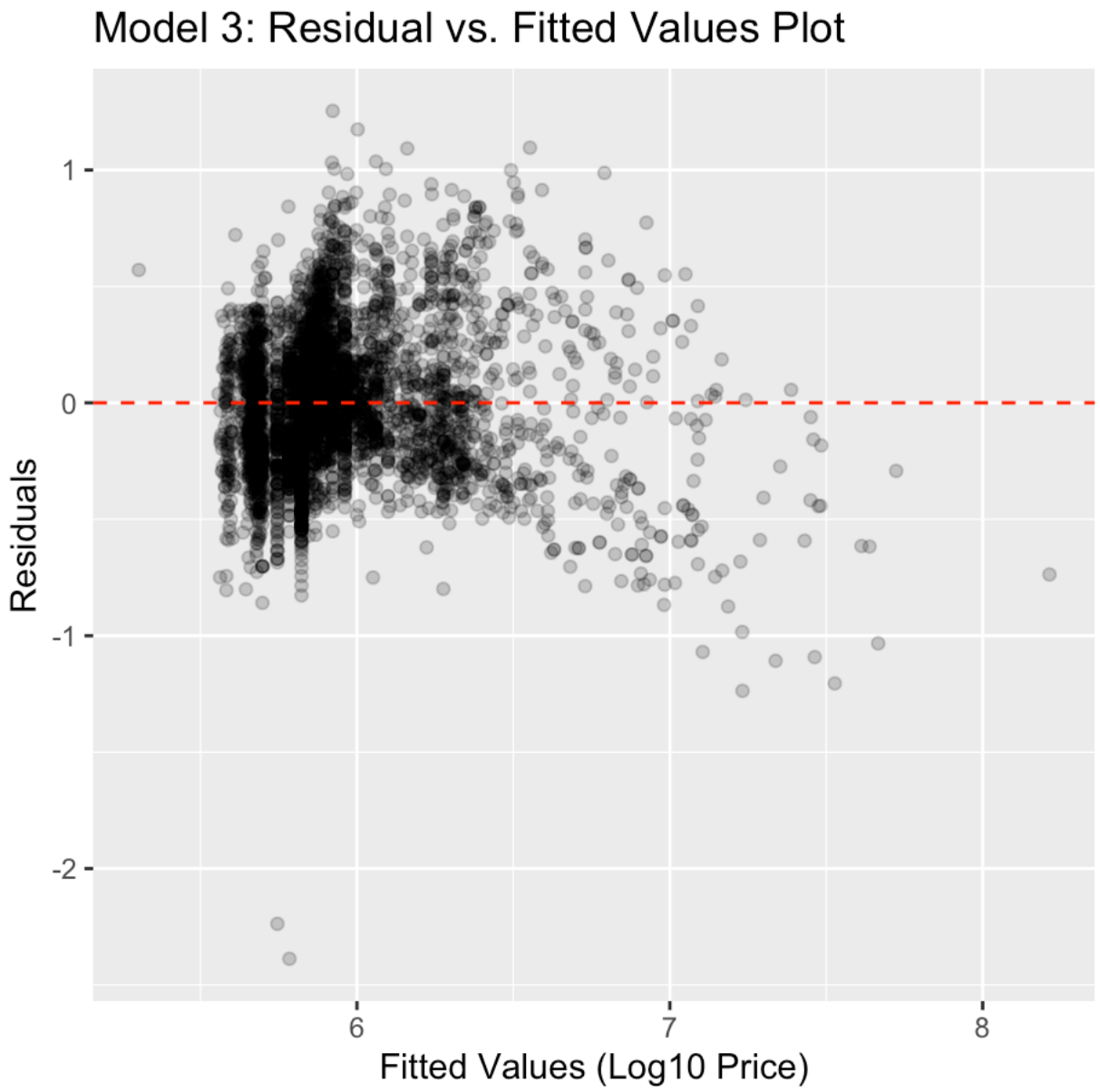
```
Call:
lm(formula = log_price ~ PROPERTYSQFT + BEDS + BATH, data = ny.data.clean)

Residuals:
     Min       1Q   Median       3Q      Max
-2.38732 -0.19046 -0.01139  0.16852  1.25355

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   5.480e+00  9.401e-03  582.87   <2e-16 ***
PROPERTYSQFT  9.370e-05  5.264e-06   17.80   <2e-16 ***
BEDS         -3.854e-02  3.134e-03  -12.30   <2e-16 ***
BATH          1.769e-01  5.059e-03   34.96   <2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.3024 on 4463 degrees of freedom
Multiple R-squared:  0.4817,    Adjusted R-squared:  0.4814
F-statistic:  1383 on 3 and 4463 DF,  p-value: < 2.2e-16
```


Model 3: Price vs. Most Significant Variable (BATH)
Log10(Price)
8
7
6
5
4
5
10
Property Square Foot


Model 3: Residual vs. Fitted Values Plot
Residuals
1
0
-1
-2
6
7
8
Fitted Values (Log10 Price)