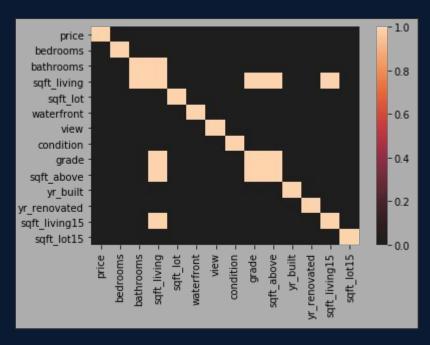
Hello, my name is Rob and this was the thought process of putting my model together, which I have name NostROBdamus



Decisions Were Made

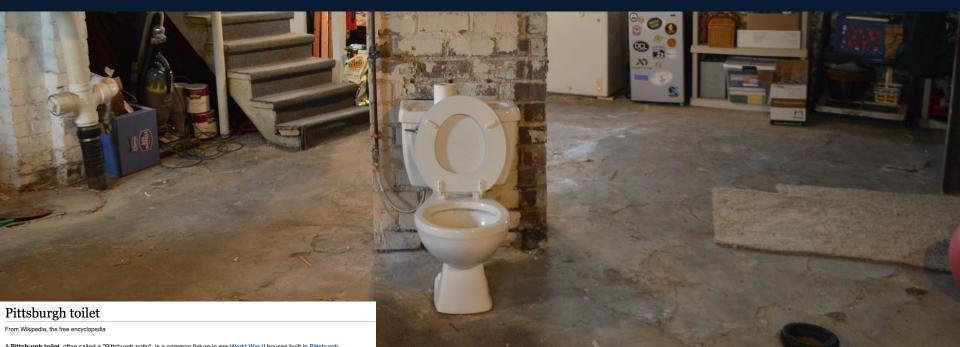
Right away I dropped the following:

- zipcode
- lat
- long
- floors
- ullet id

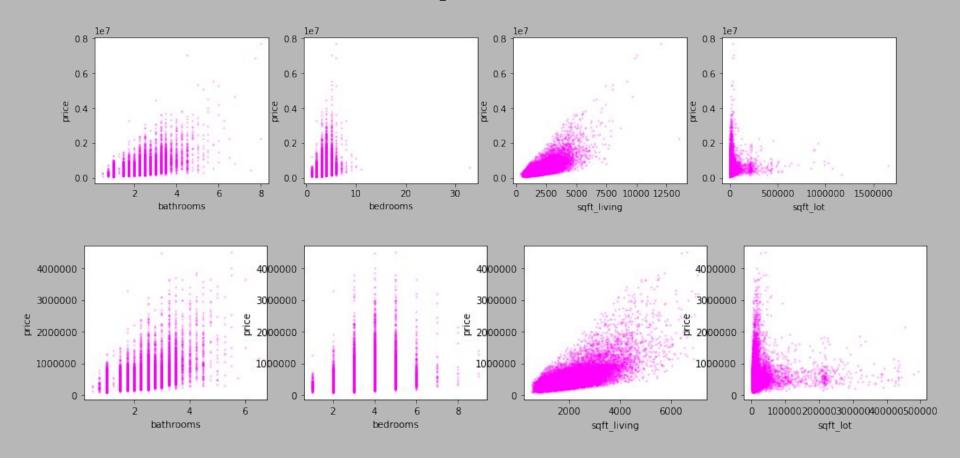


sqft_living also looks untrustworthy

DOES THIS LOOK LIKE A REAL BATHROOM TO YOU?



I removed the top and bottom 0.001%

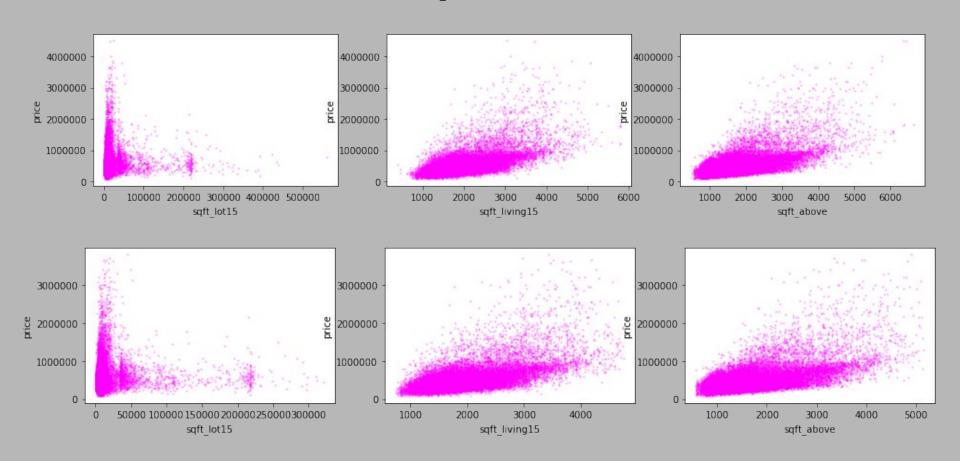


THIS IS REAL WORLD DATA

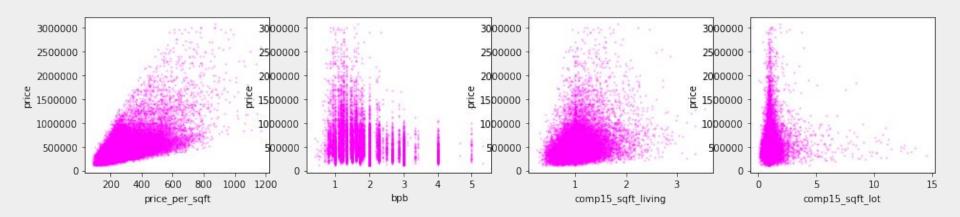
Homes don't have 33 bedrooms or 4.5 bedrooms and 0.5 bathrooms



I removed the top and bottom 0.001%

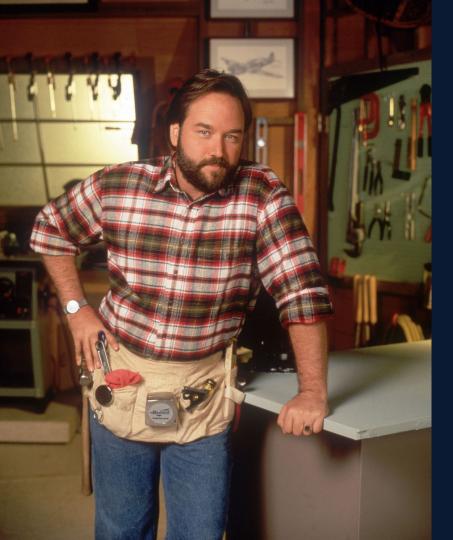


Hi, my name is Rob and meet my new features:



All the null values were in variables I would consider to be Boolean, so I set them all to zero.





I did a bunch of work with the year renovated data, creating "years since renovation" but ultimately I couldn't make it helpful.

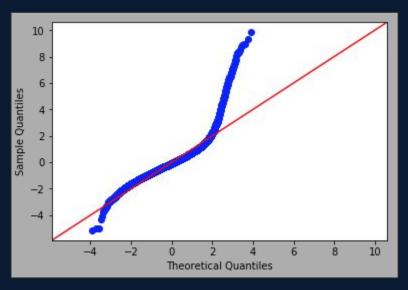
I thought I could make something cool and useful if I combined view, condition, grade, and waterfront.

l even gave it a name. "Shiny."



R-squared of waterfront, view, condition, grade, price_per_sqft, & bpb was 0.733

Mean price540,296Waterfront == 11,717,214View != 0928,651Condition > 4612,577Grade > 7714,926



not thrilled with the QQ plot



A few of us were talking about the crazy idea of **log transforming the price** if the QQ plot was looking like an S.

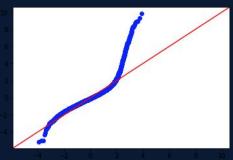
So I did!

I also **log transformed the**price_per_sqft because it was looking uneven.

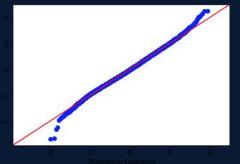


After the price log transforming, removing waterfront did not change the R-squared

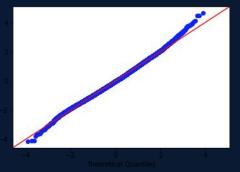






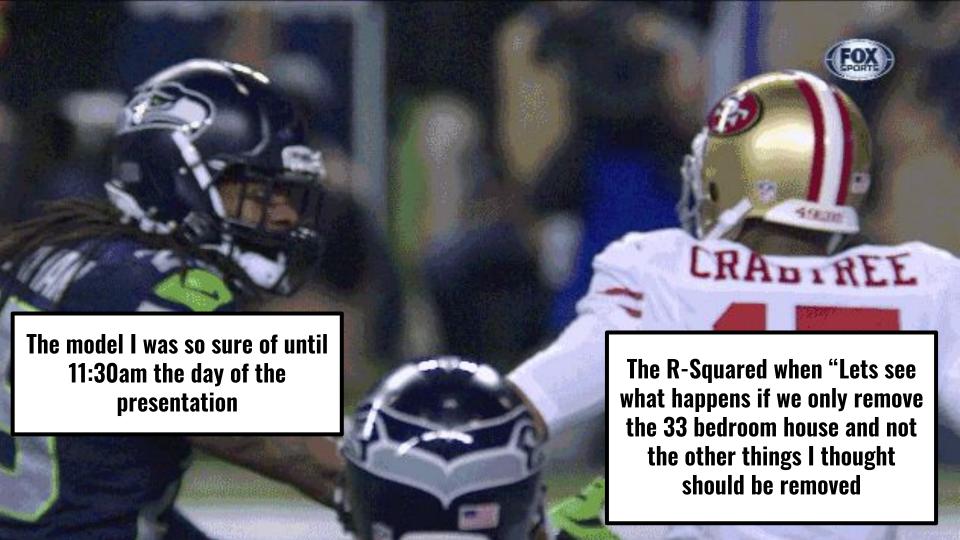


R-square: 0.785 Log transform: price



R-square: 0.785 Log transform: price_per_sqft





Dep. Variab	le:	: price		R-sq	0.783		
Mod	el:		OLS A	dj. R-sq	uared:	0.7	83
Metho	od: L	east Squ	ares	F-st	atistic:	1.535e+	04
Dat	te: Wed,	08 May 2	2019 Pro	ob (F-sta	atistic):	0.	00
Tim	ie:	09:4	2:08 L	og-Like	lihood:	454.	51
No. Observation	ıs:	2	1269		AIC:	-897	'.0
Df Residua	ls:	2	1263		BIC:	-849	9.2
Df Mod	el:		5				
Covariance Typ	e:	nonro	bust				
	coef	std err	t	P> t	[0.025	0.975]	
const	7.3277	0.027	272.930	0.000	7.275	7.380	
view	0.0322	0.002	13.986	0.000	0.028	0.037	
condition	0.0757	0.009	8.133	0.000	0.057	0.094	
grade	0.2745	0.002	168.405	0.000	0.271	0.278	
price_per_sqft	0.6294	0.004	161.469	0.000	0.622	0.637	
bpb	-0.0221	0.003	-7.993	0.000	-0.028	-0.017	
Omnibus:	135.720	Durl	bin-Watso	on:	1.976		
Prob(Omnibus):	0.000	Jarqu	e-Bera (J	B): 14	4.722		
Skew:	0.169	l.	Prob(J	B): 3.7	5e-32		

Kurtosis:

3.220

Cond. No.

165.

Removing "outliers"

Not removing "outliers"

Dep. Variable:	price	R-squared:	0.793
Model:	OLS	Adj. R-squared:	0.793
Method:	Least Squares	F-statistic:	1.659e+04
Date:	Wed, 08 May 2019	Prob (F-statistic):	0.00
Time:	11:16:04	Log-Likelihood:	245.38
No. Observations:	21595	AIC:	-478.8
Df Residuals:	21589	BIC:	-430.9
Df Model:	5		
Covariance Type:	nonrobust		

	coef	std err	t	P> t	[0.025	0.975]
const	7.2723	0.027	274.101	0.000	7.220	7.324
view	0.0336	0.002	14.838	0.000	0.029	0.038
condition	0.0820	0.009	8.824	0.000	0.064	0.100
grade	0.2791	0.002	177.209	0.000	0.276	0.282
price_per_sqft	0.6304	0.004	162.249	0.000	0.623	0.638
bpb	-0.0187	0.003	-6.836	0.000	-0.024	-0.013
Omnibus: 142.332 Durbin-Watson: 1.973						

Jarque-Bera (JB):

Cond. No.

162.723

163.

Prob(JB): 4.62e-36

Prob(Omnibus):

Skew:

Kurtosis:

0.149

3.304

