

Housing prices King County - EDA

Data Timerange: 05/2014 - 04/2015

The Dataset

- Consists of houses sold in the Seattle area between 05/2014 - 04/2015
- Gives date and price of sold house and a brief/objective specification of the house
- Two parameters that assert the sold house a certain quality: 'condition' and 'grade'

Not displayed (excerpt):

'condition', 'grade',
'yr_built', 'yr_renovated',
'zipcode', 'sqft_basement', etc....

date ▲ ▼	price ▼	bedrooms ▼	bathrooms ▼	sqft_living ▼	sqft_lot ▼	floors ▼	waterfront ▼
10/22/2014	295000	3	2.25	1330	7200	1	0
10/22/2014	458000	3	2.25	2150	9900	1	0
10/22/2014	700000	4	1.75	2420	520	1.5	0
10/22/2014	294950	4	2.25	1740	9600	1	0
10/22/2014	571000	5	1.75	2280	43560	1	0
10/22/2014	163500	3	1	940	7200	1	0
10/22/2014	442000	2	1.75	860	5535	1	0
10/22/2014	379950	3	1	1270	6900	1	0
10/22/2014	360000	3	1	1660	9600	1	0

The Target Variable

Notes:

- Our target variable

$\text{price} = \text{sqft_living} * \text{price_per_sqft}$

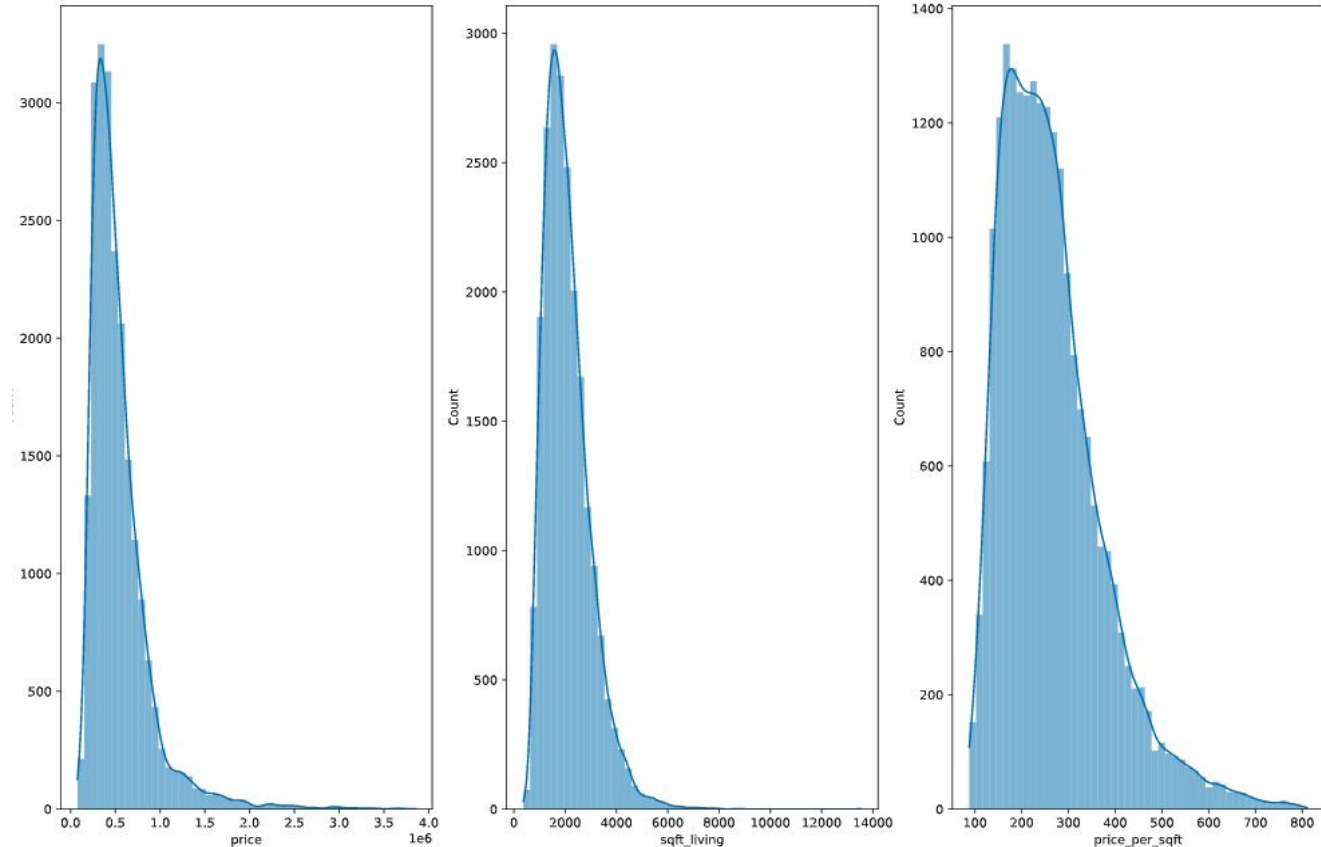
price_per_sqft

is right skewed

- presumably originates from 'price_per_sqft' (ppsqft) that does not resemble a normal distribution

→ 'price' is a better suited target for a linear regression than 'price_per_sqft'

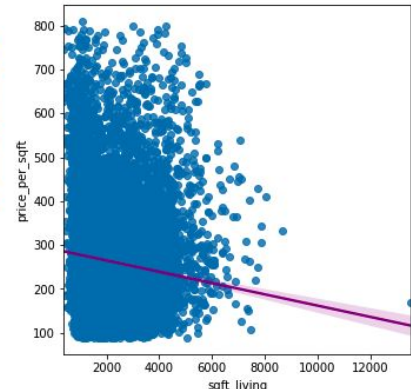
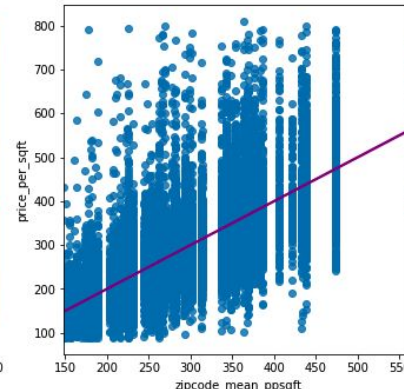
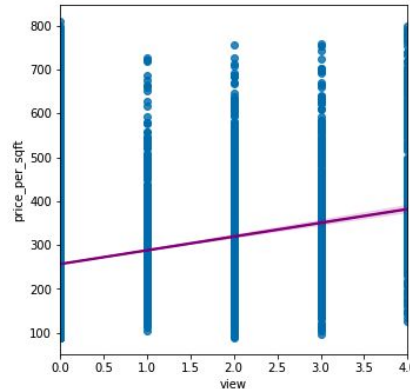
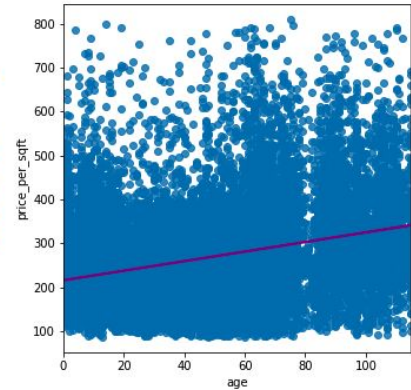
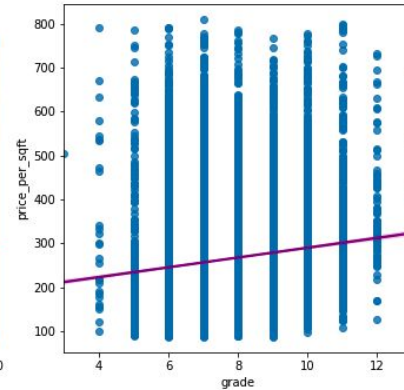
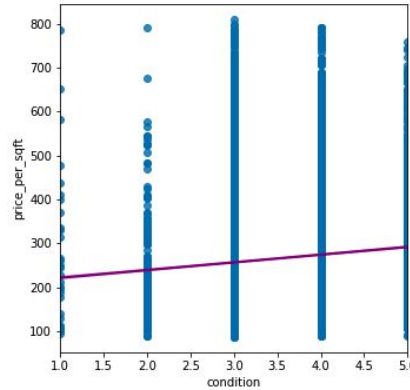
Distribution of Housing Prices/ Sqft of Sold Houses/ Price per Sqft of Sold Houses



Variables influencing Price per Sqft

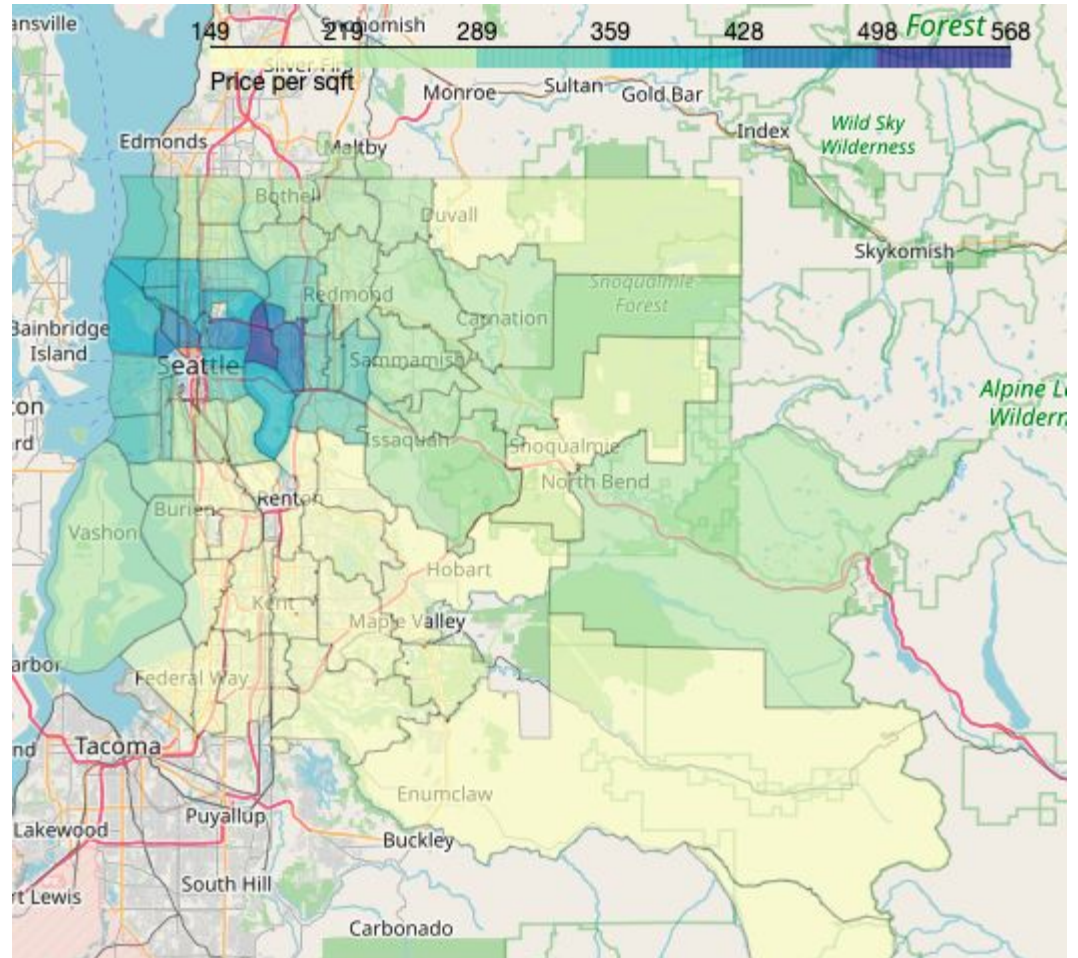
Some insights:

- Older houses sell for more
- Larger house → lower ppsqft
- 'Condition' and 'grade' have a meaningful impact on the house price
- more 'views' = number of times the house has been viewed → higher ppsqft
- Price per sqft of neighborhood/zipcode heavily influences ppsqft



- Price per sqft of neighborhood/zipcode varies pretty strongly across the dataset

→ Very important for analysis



Conclusions for Buyers/Investors

- The grade in the King County grading system and the condition of the house heavily influence the price per sqft
 - Check for houses in worse condition to lower budget
- 'Views' of houses increase the price
 - Try to find houses by different channels than major sellers/housing platforms (newspaper, facebook groups?)

There seems to be a relationship between time and ppsqft

