

King's County Housing Prices

A Supplemental Diligence Packet for Asset Valuation

Executive Summary & Recommendations

Guiding Questions

1	What does the current KC housing market look like? What do the majority of houses have in common? What does the typical KC house look like?
2	Are there specific times of the year (days or months) that might be correlated with higher sales prices? This will help provide some information on when the best time to sell could be.
3	Are provided quality rankings (grade, condition, etc.) trustworthy / relevant to predicting sale price? Targeting a higher grade / condition via investment may be a viable way to grow sale price.

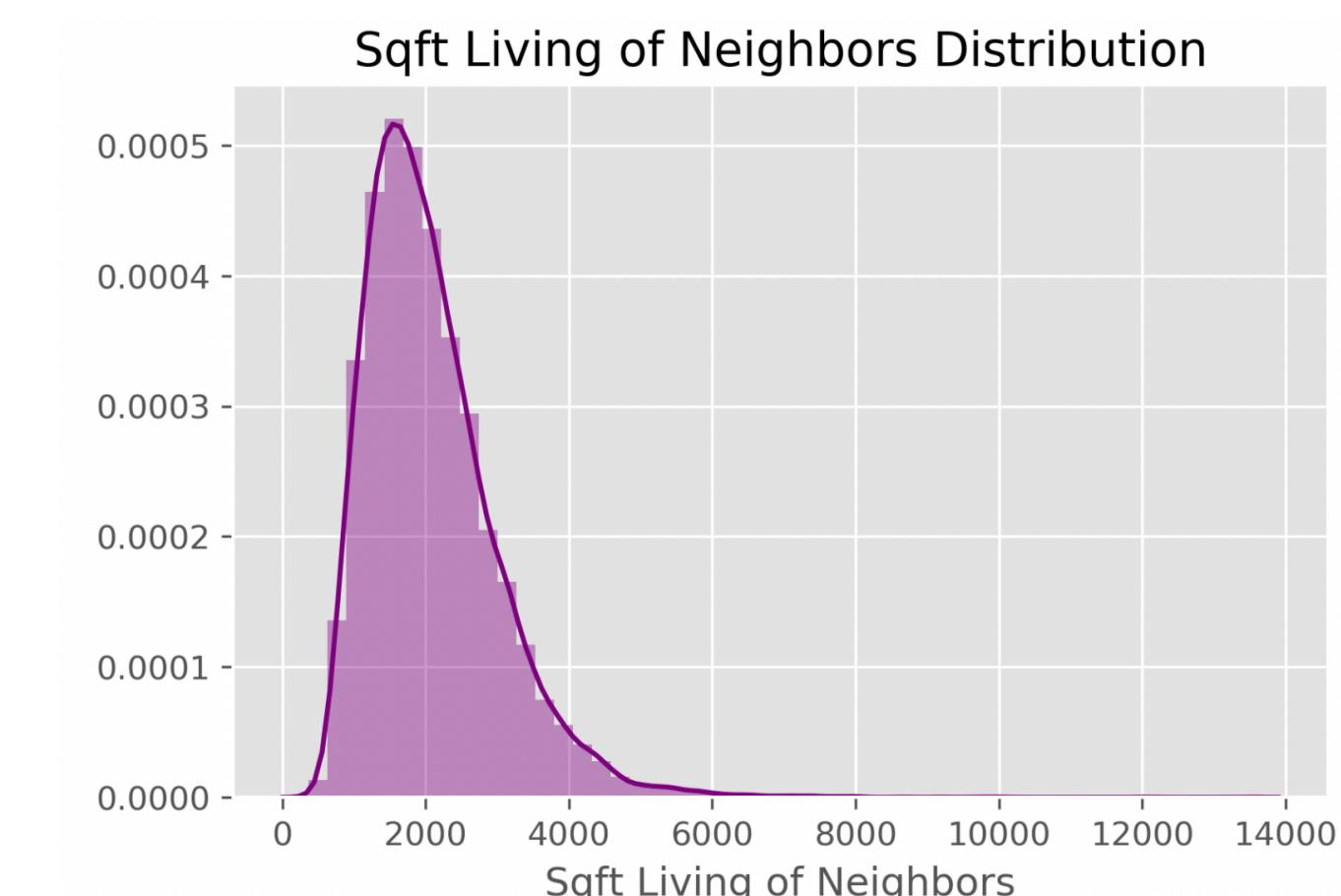
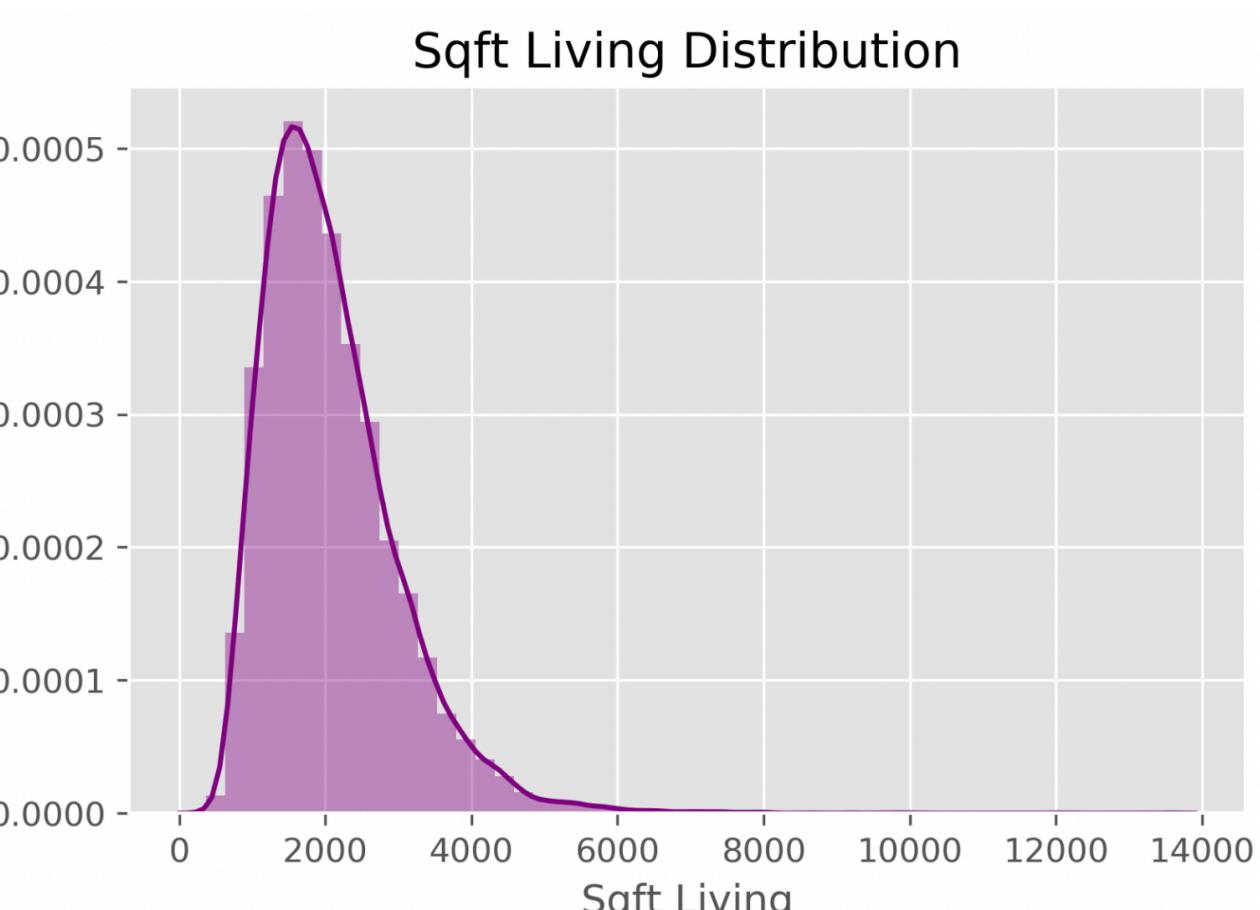
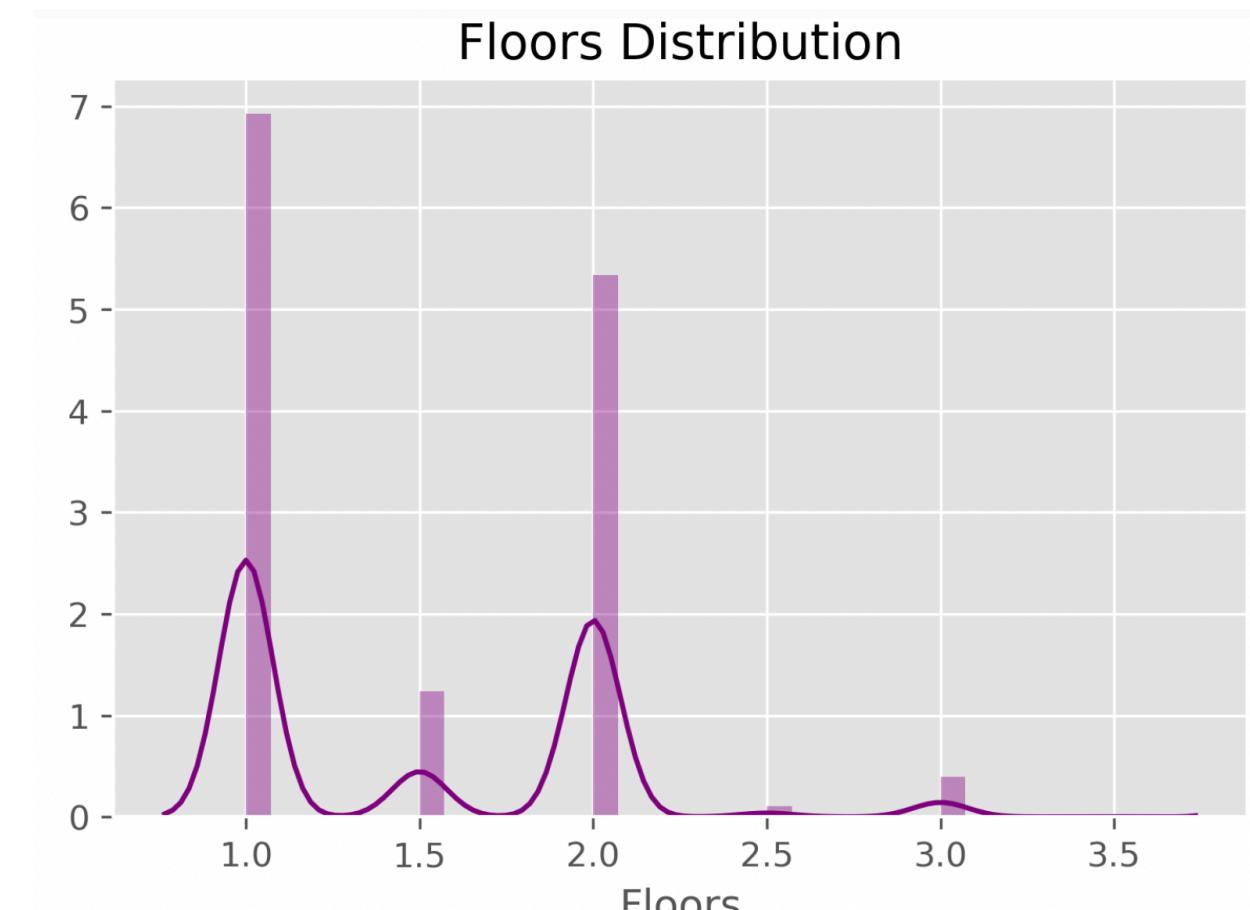
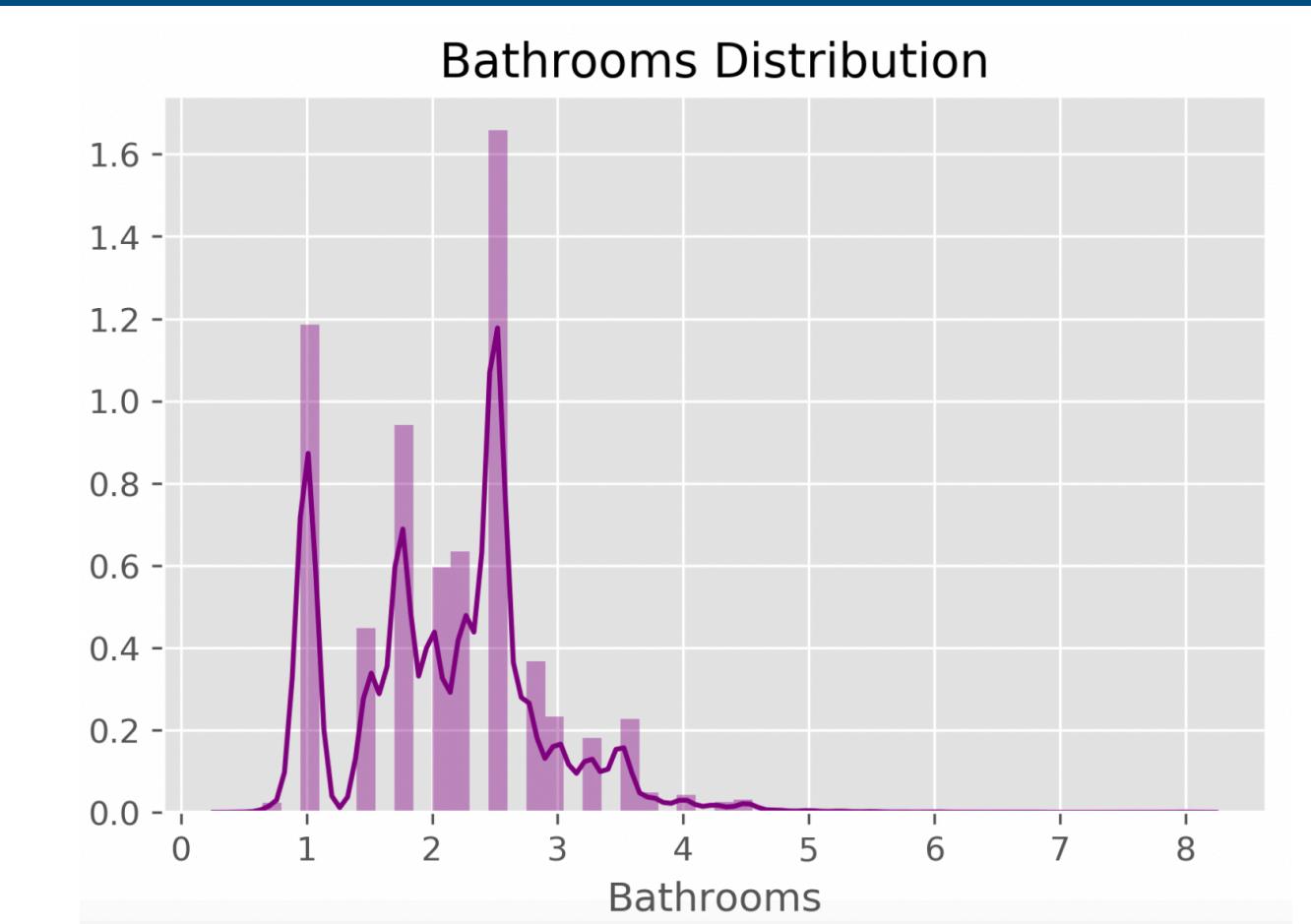
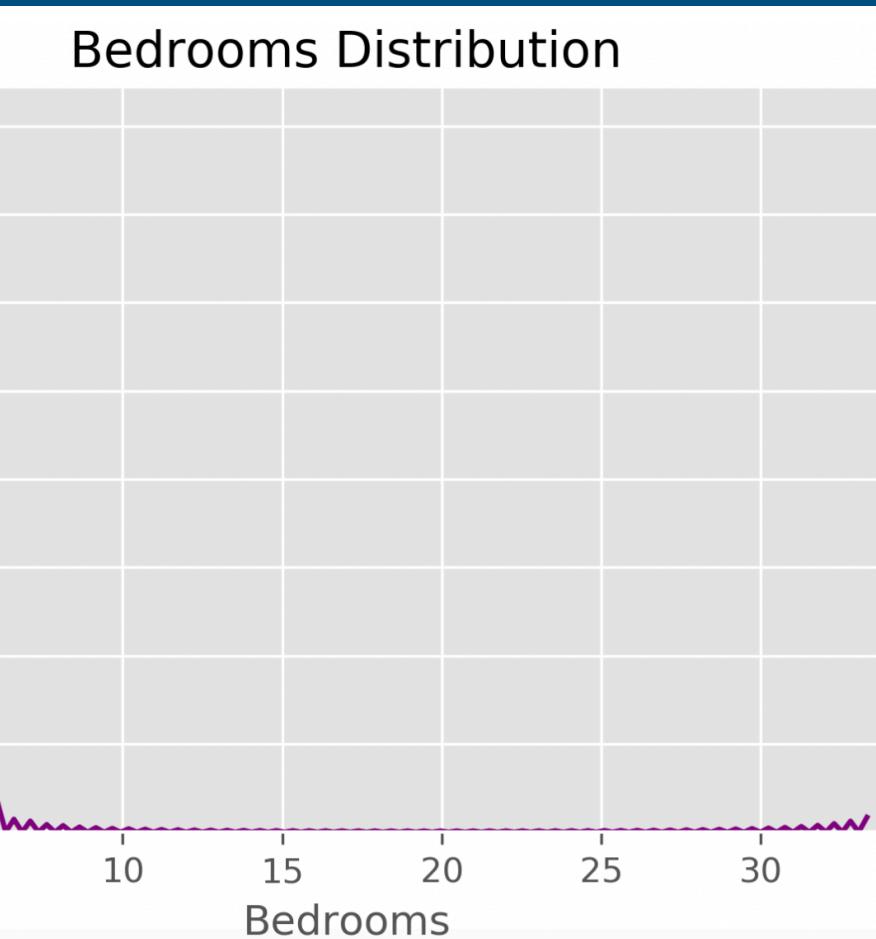
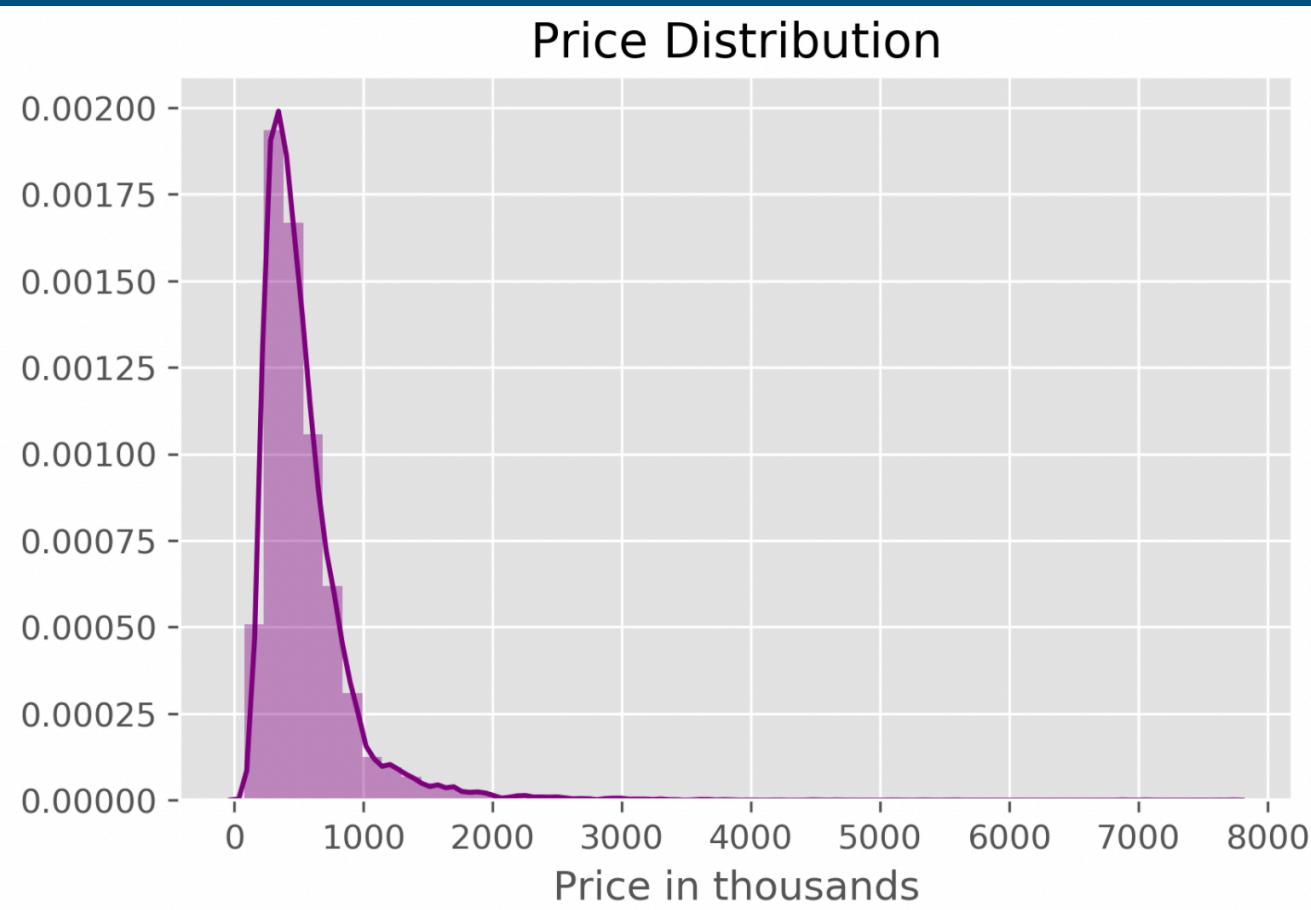
Recommendations

1	When purchasing houses, look for houses that have no history of renovation or a low KC grade to maximize upside potential. Additionally, if structure of building cannot change materially, purchase house with basement or 2 floors as these will be hard to add later on (may result in higher purchase price upfront).
2	When selling assets, target selling during the spring months, as these months are correlated with higher sales prices.
3	Once an asset is owned, leverage model to drive investment. From our model, we can see renovations and houses with high quality scores (high condition and high grade) are related to higher sales prices. Driving upside improvement with Renos, improved quality scores can help improve sales price.

Initial Findings

King's County Housing Market

Distributions of Popular Variables

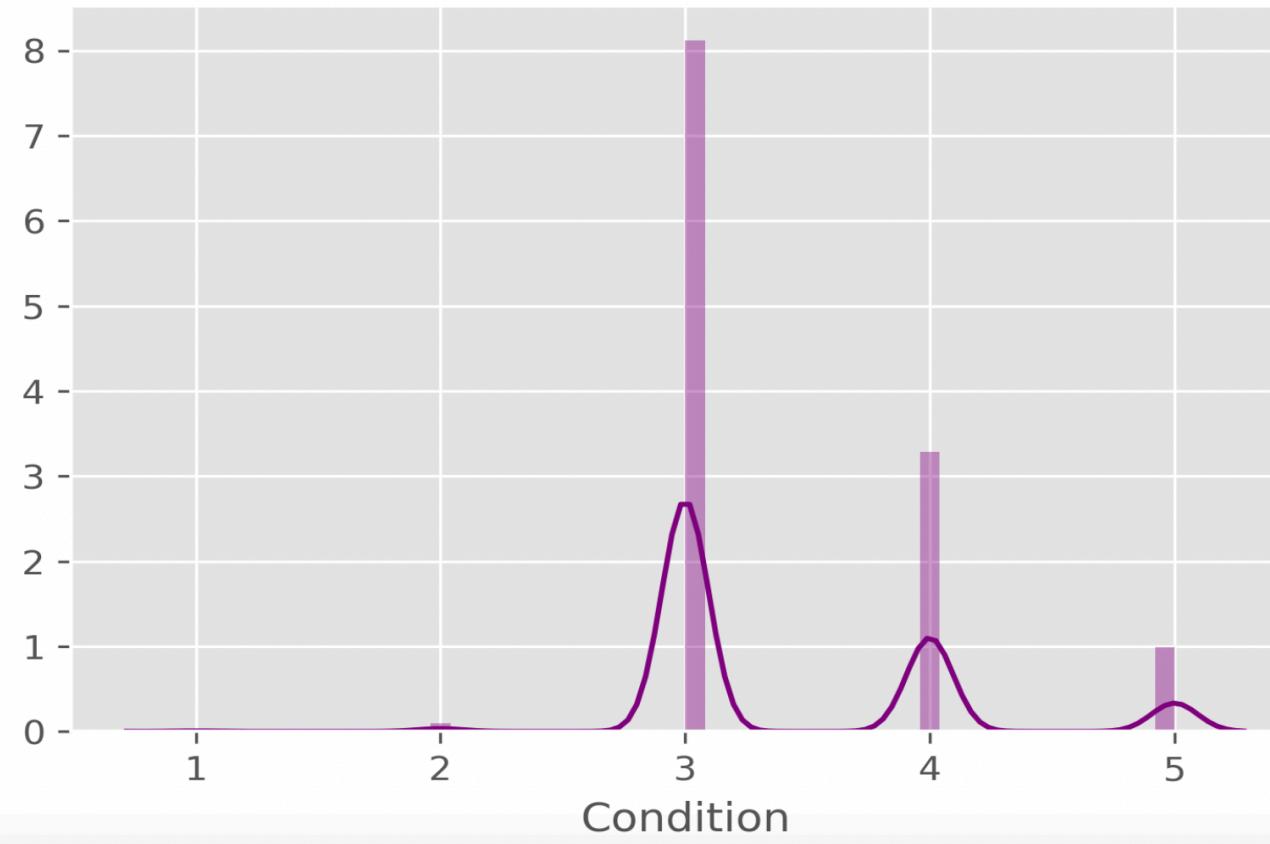


Initial Findings

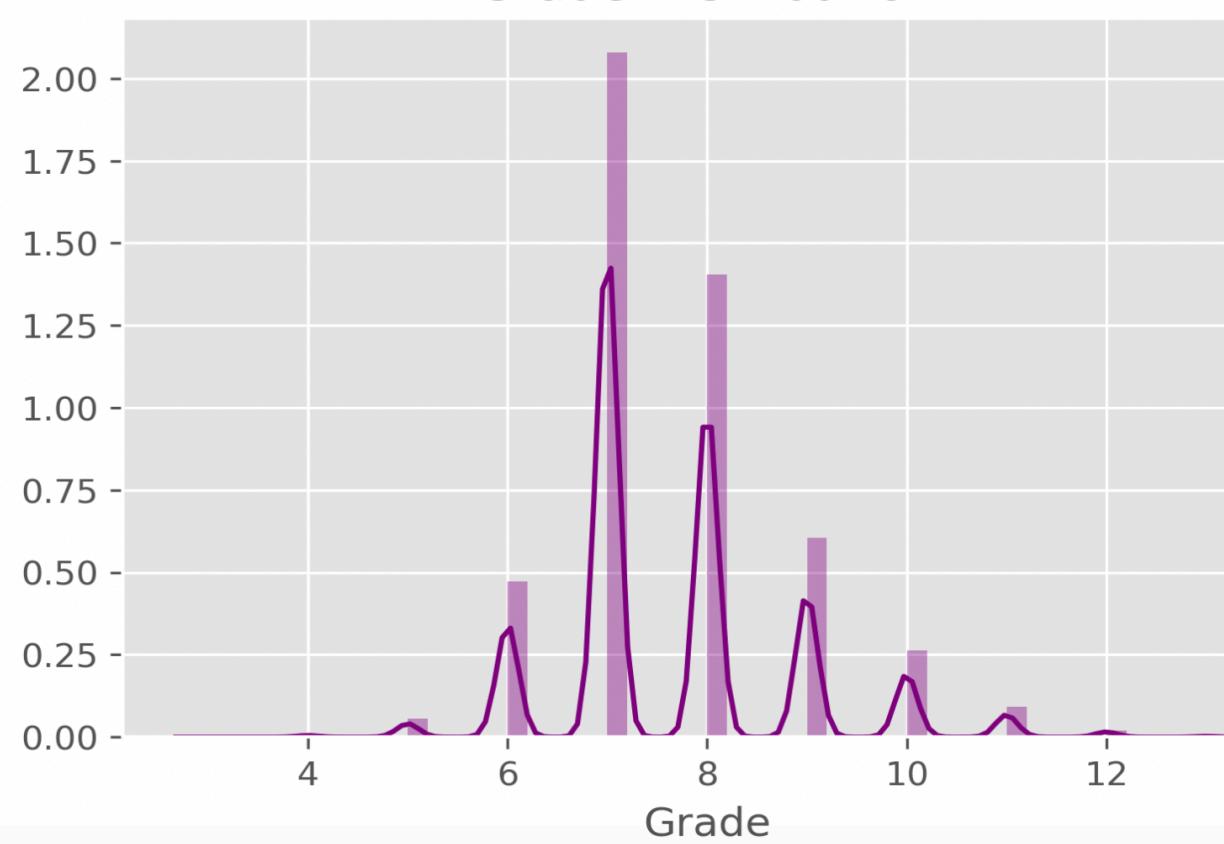
King's County Housing Market

Distributions of Popular Variables

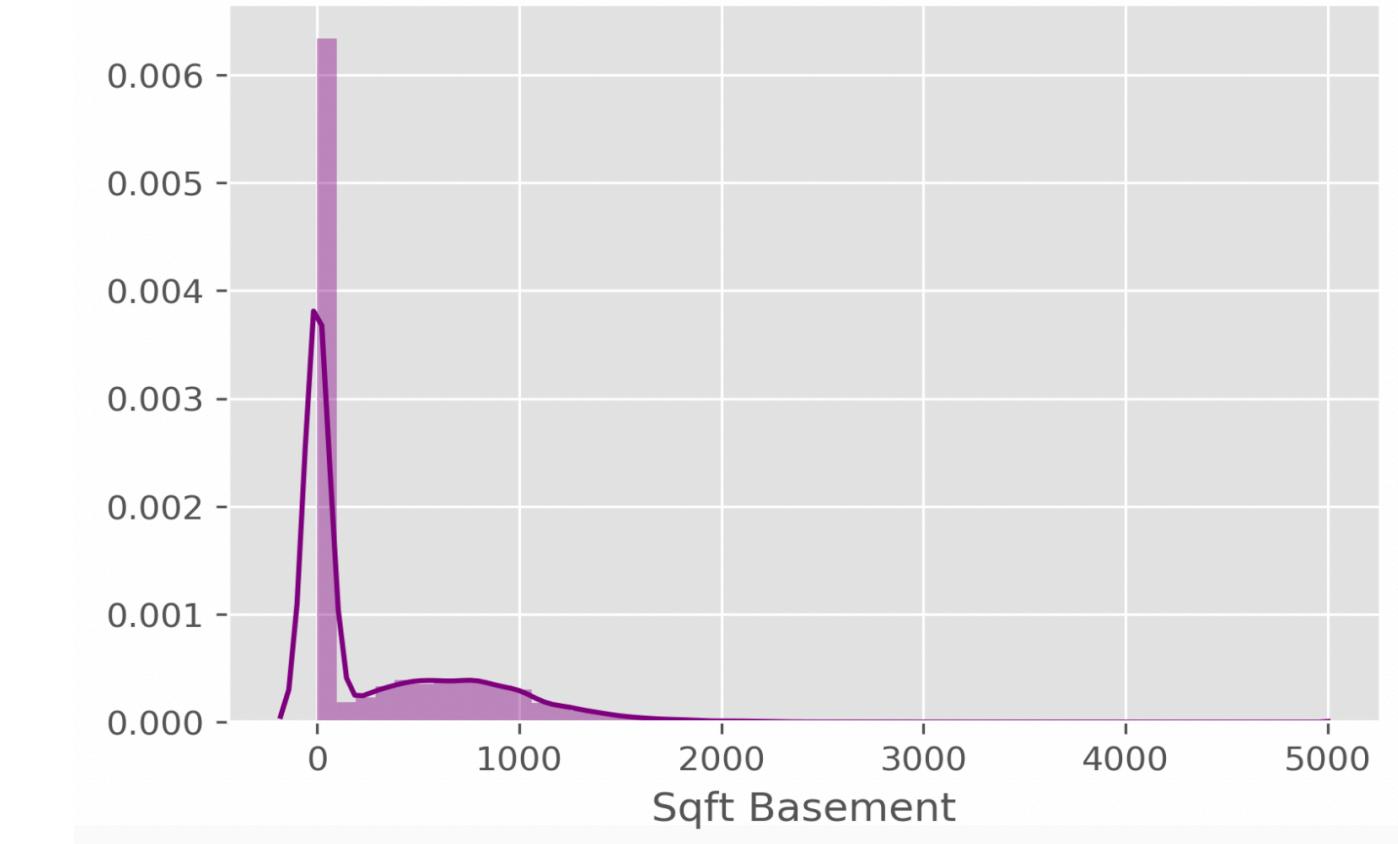
Condition Distribution



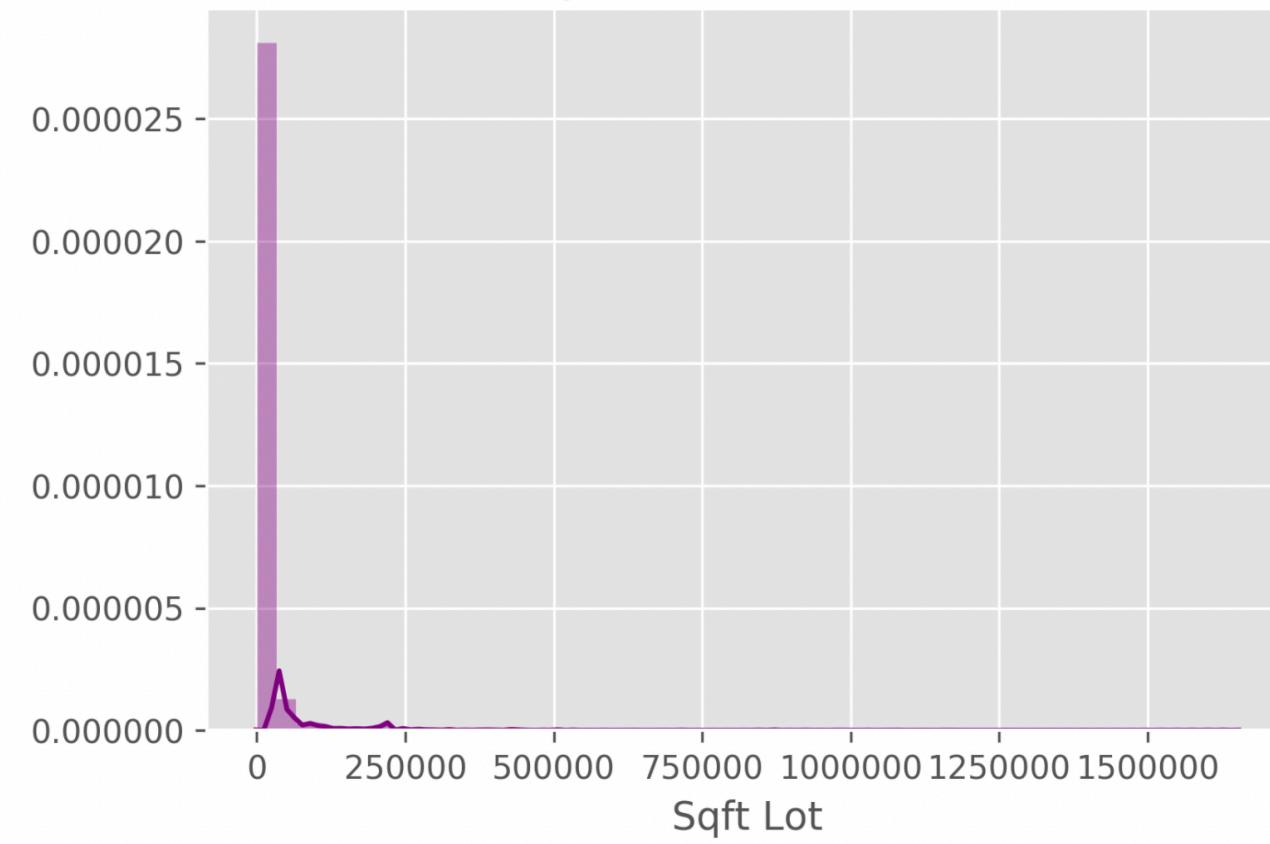
Grade Distribution



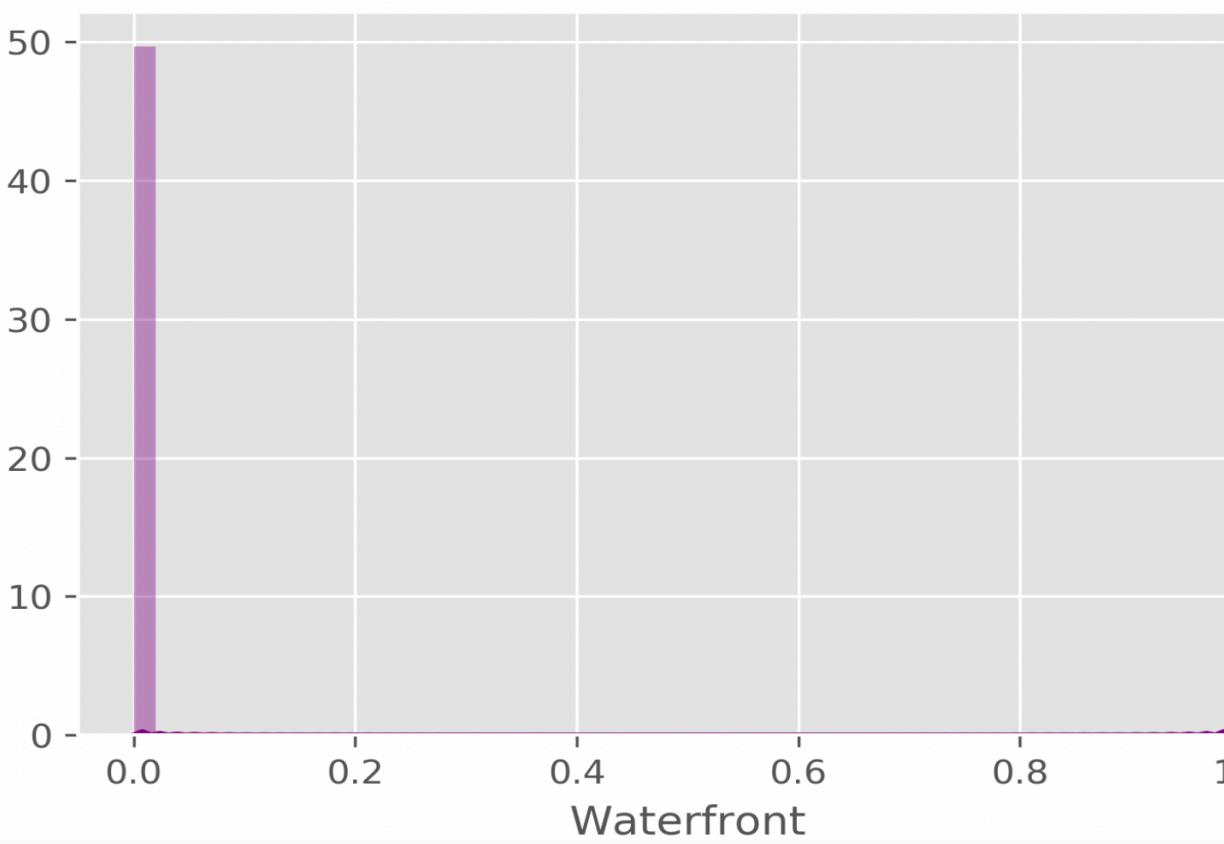
Sqft Basement Distribution



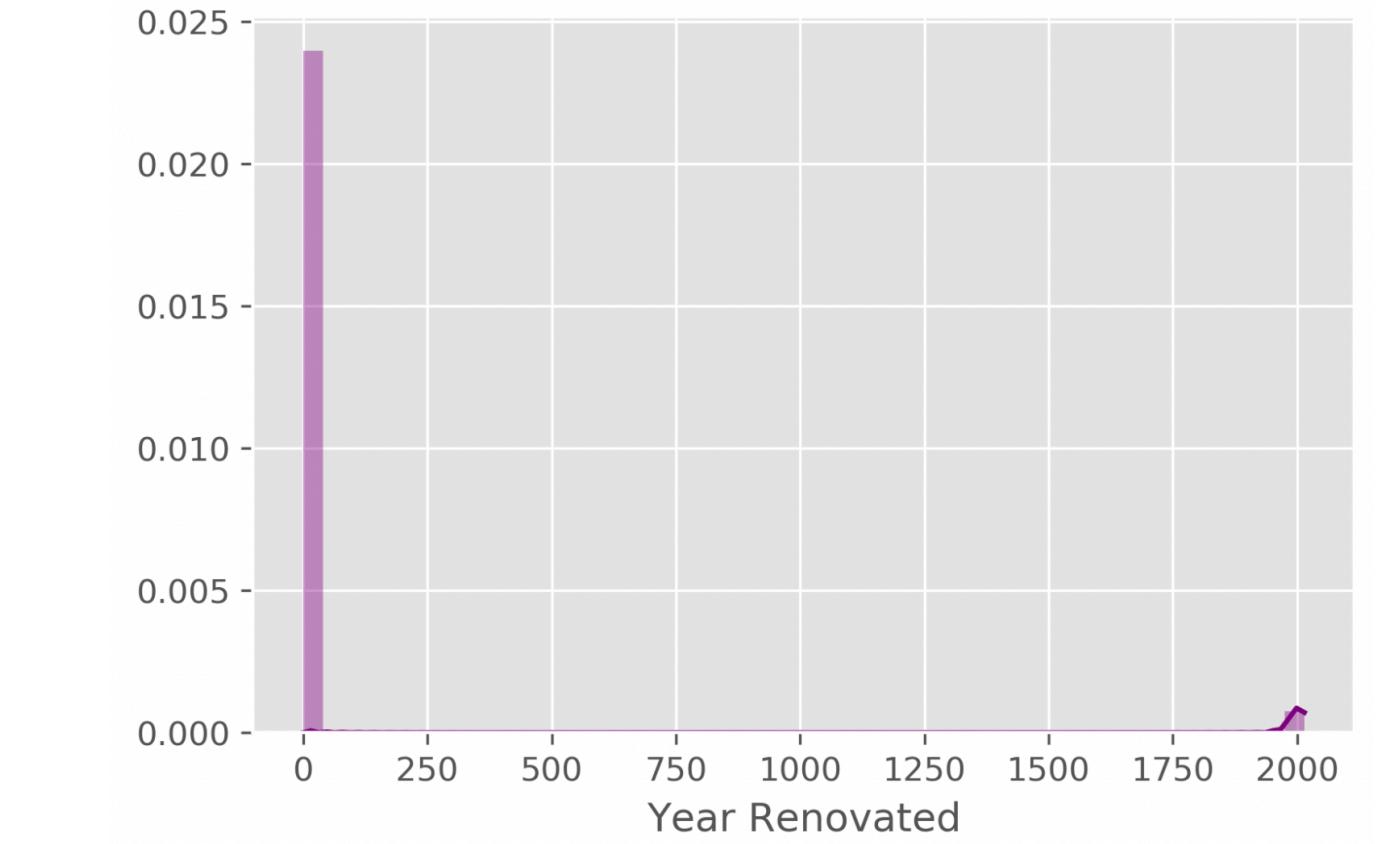
Sqft Lot Distribution



Waterfront Distribution



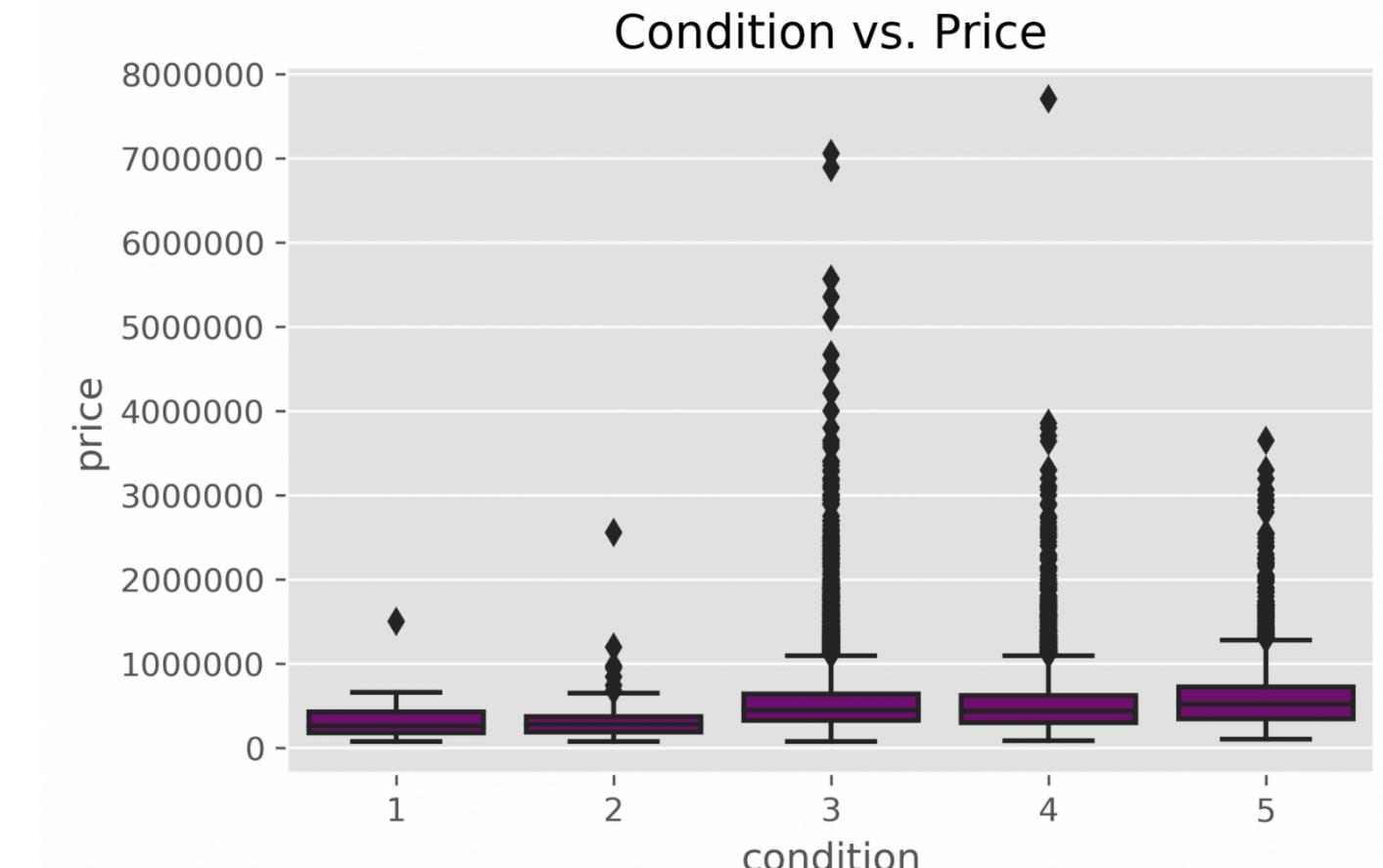
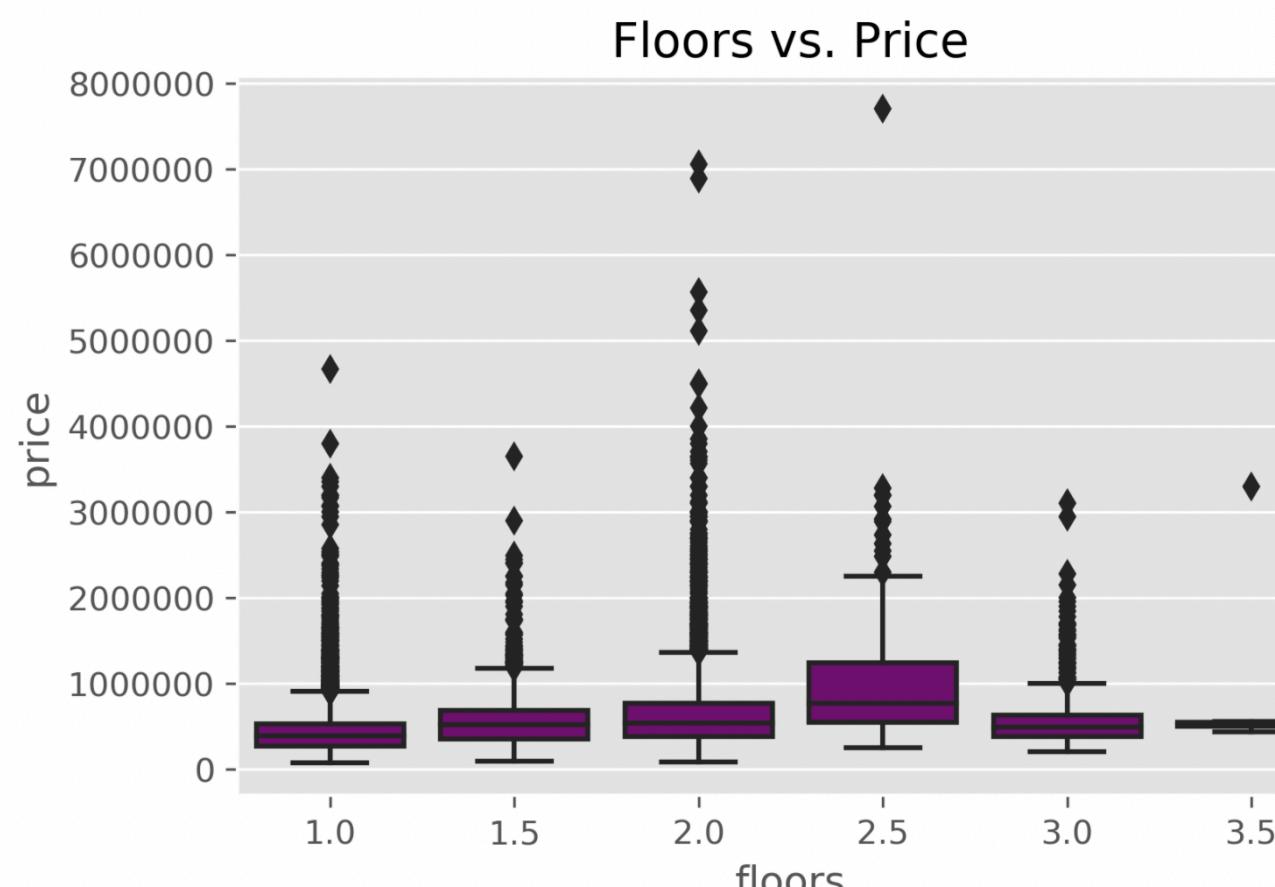
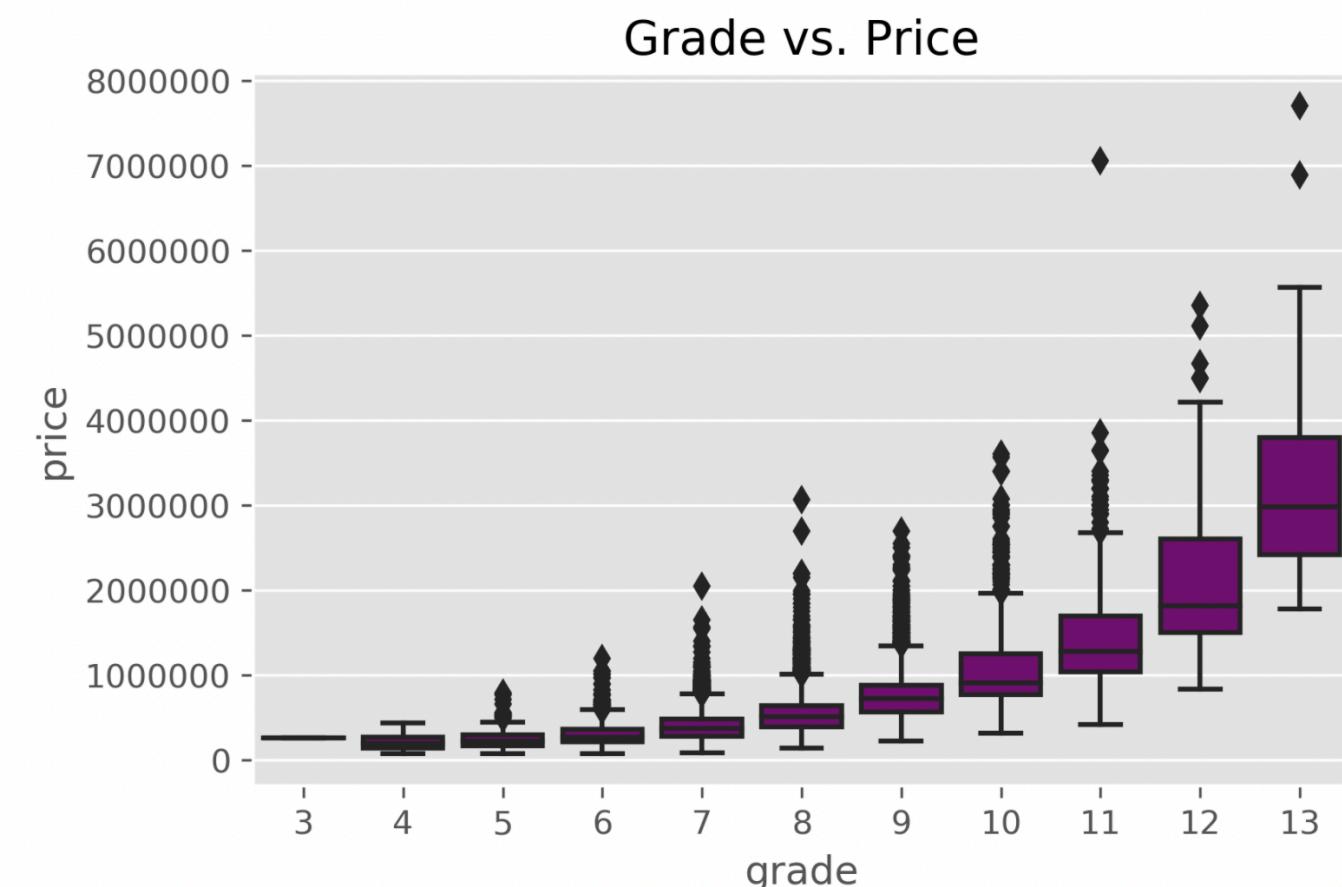
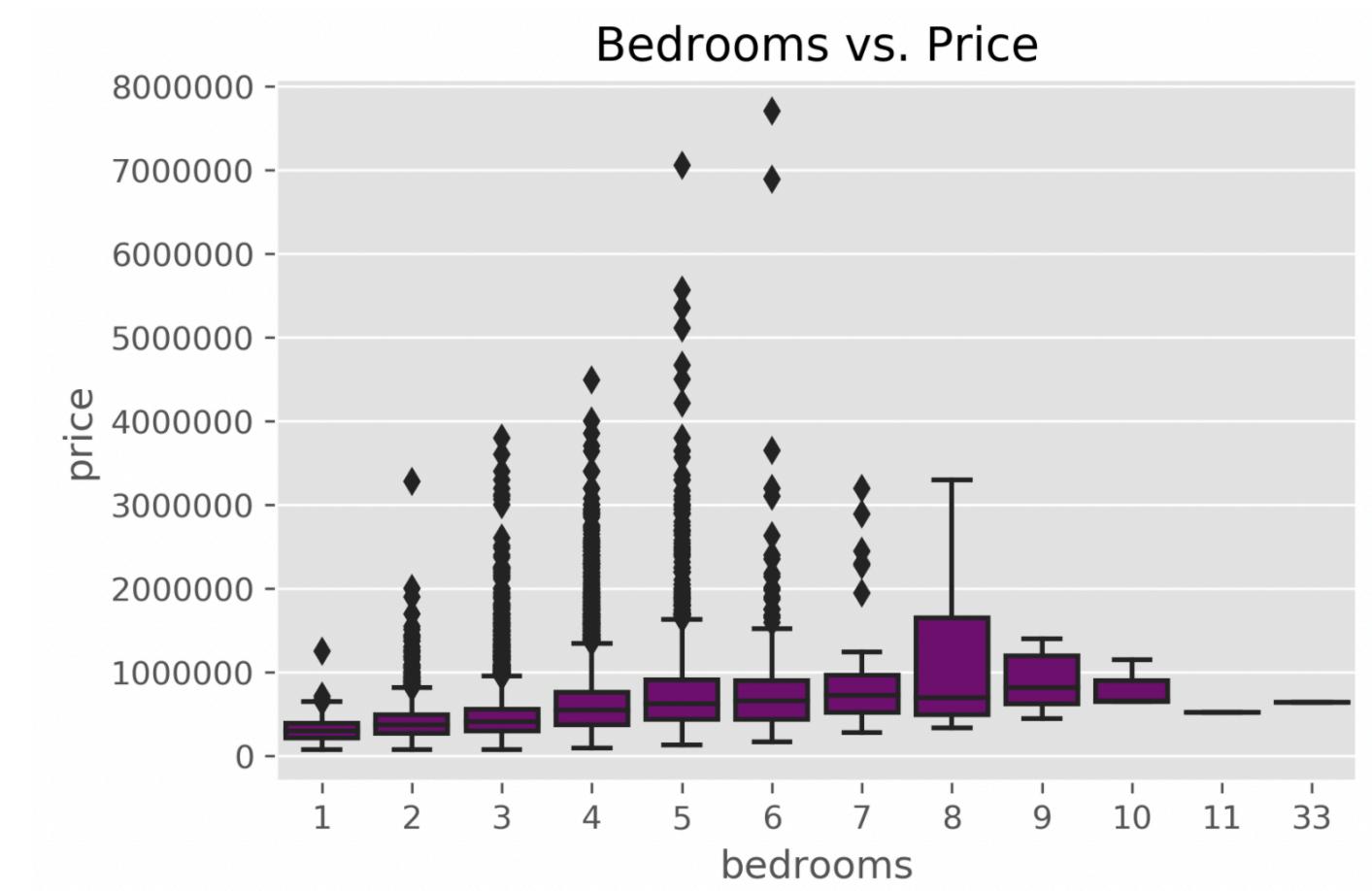
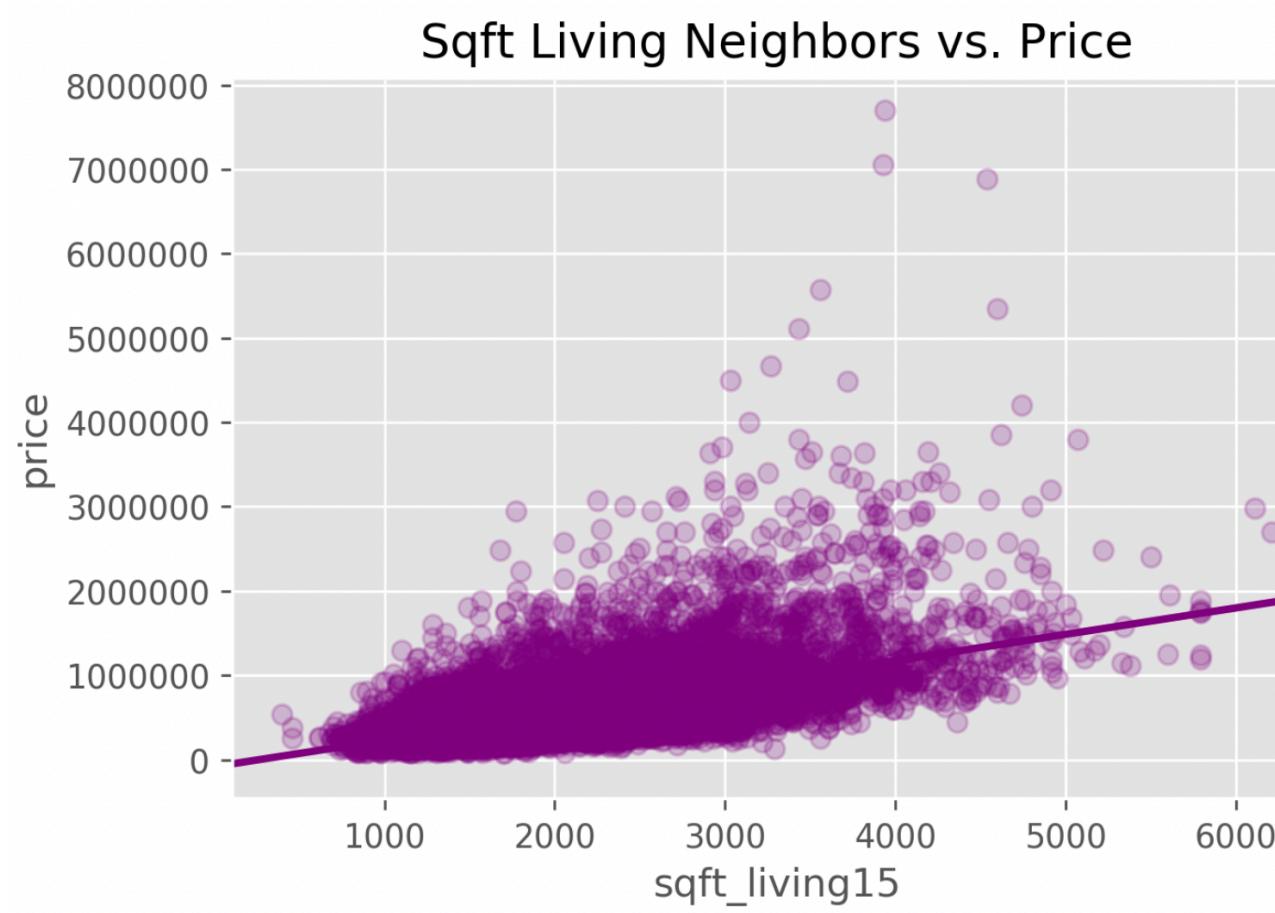
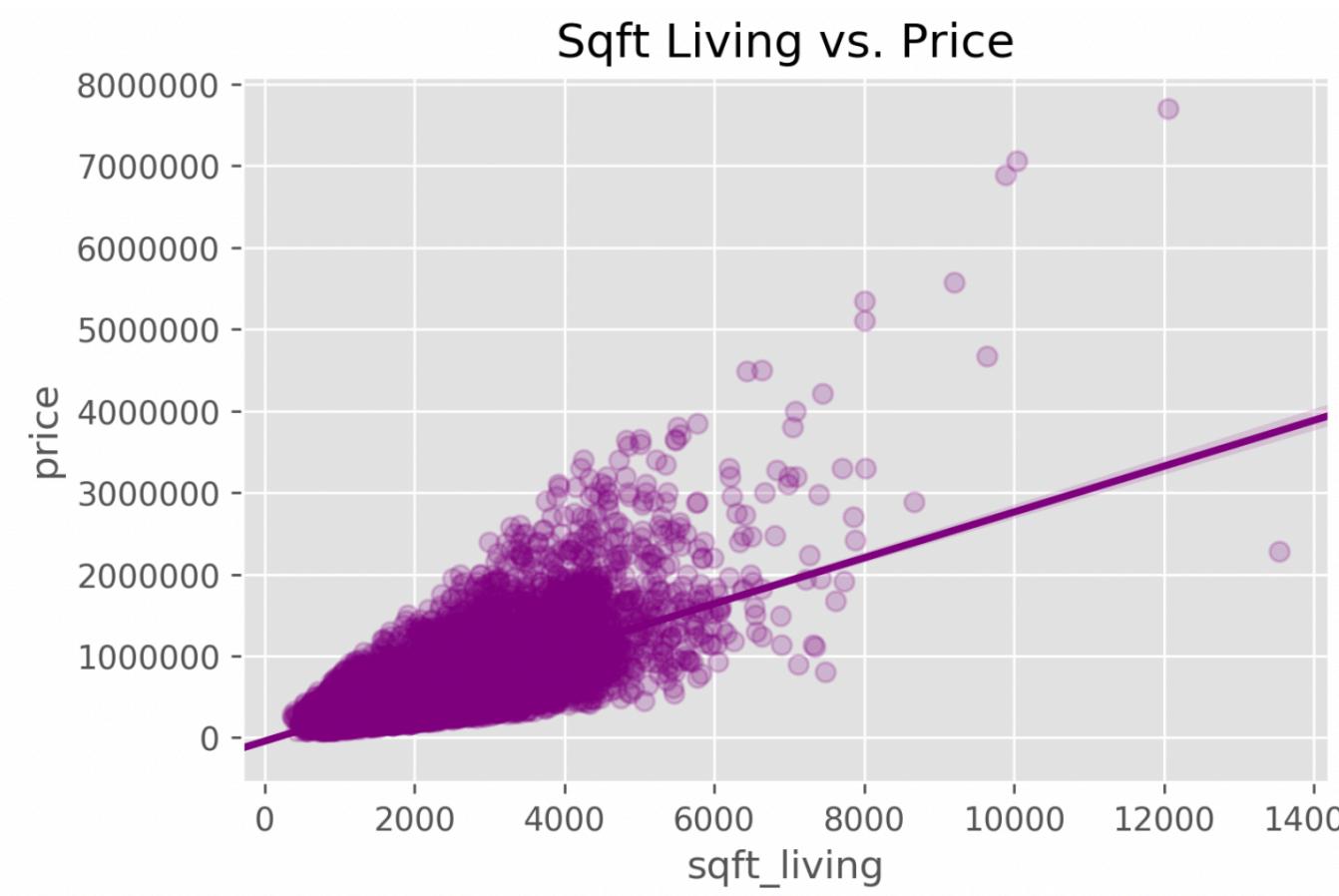
Year Renovated Distribution



Initial Findings

King's County Housing Market

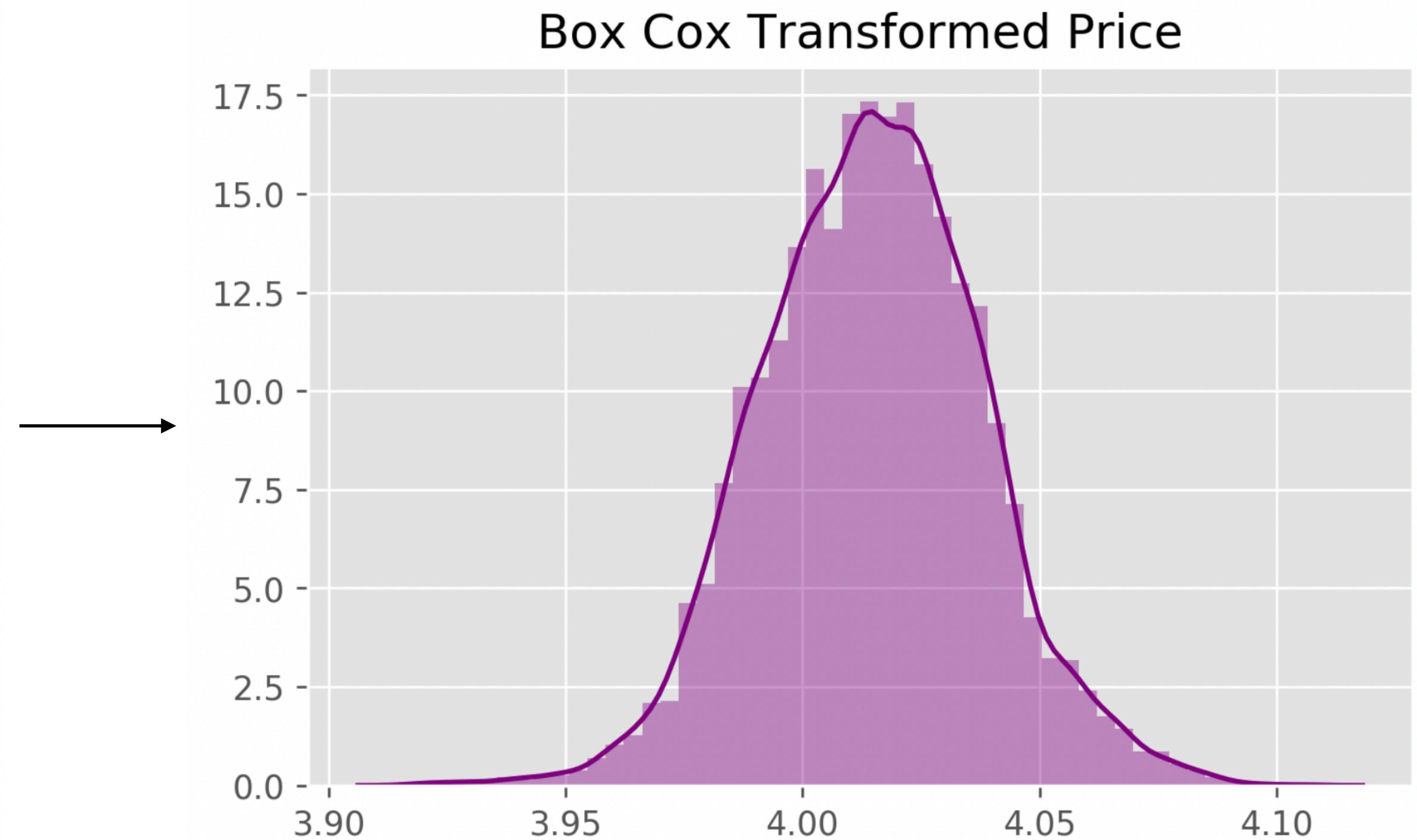
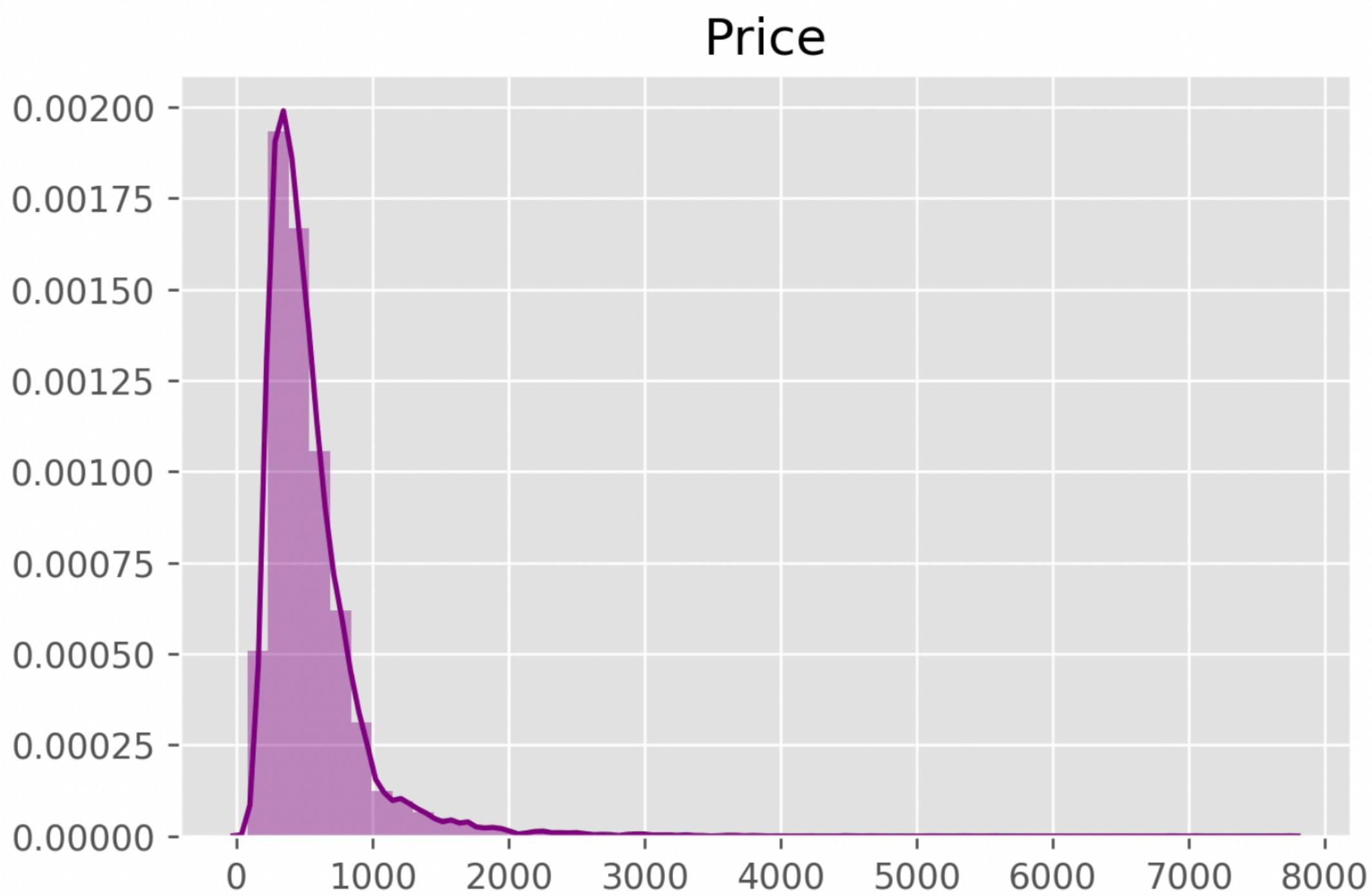
Select Variables vs. Price



Methodology

Regression on BoxCox Transformed Price

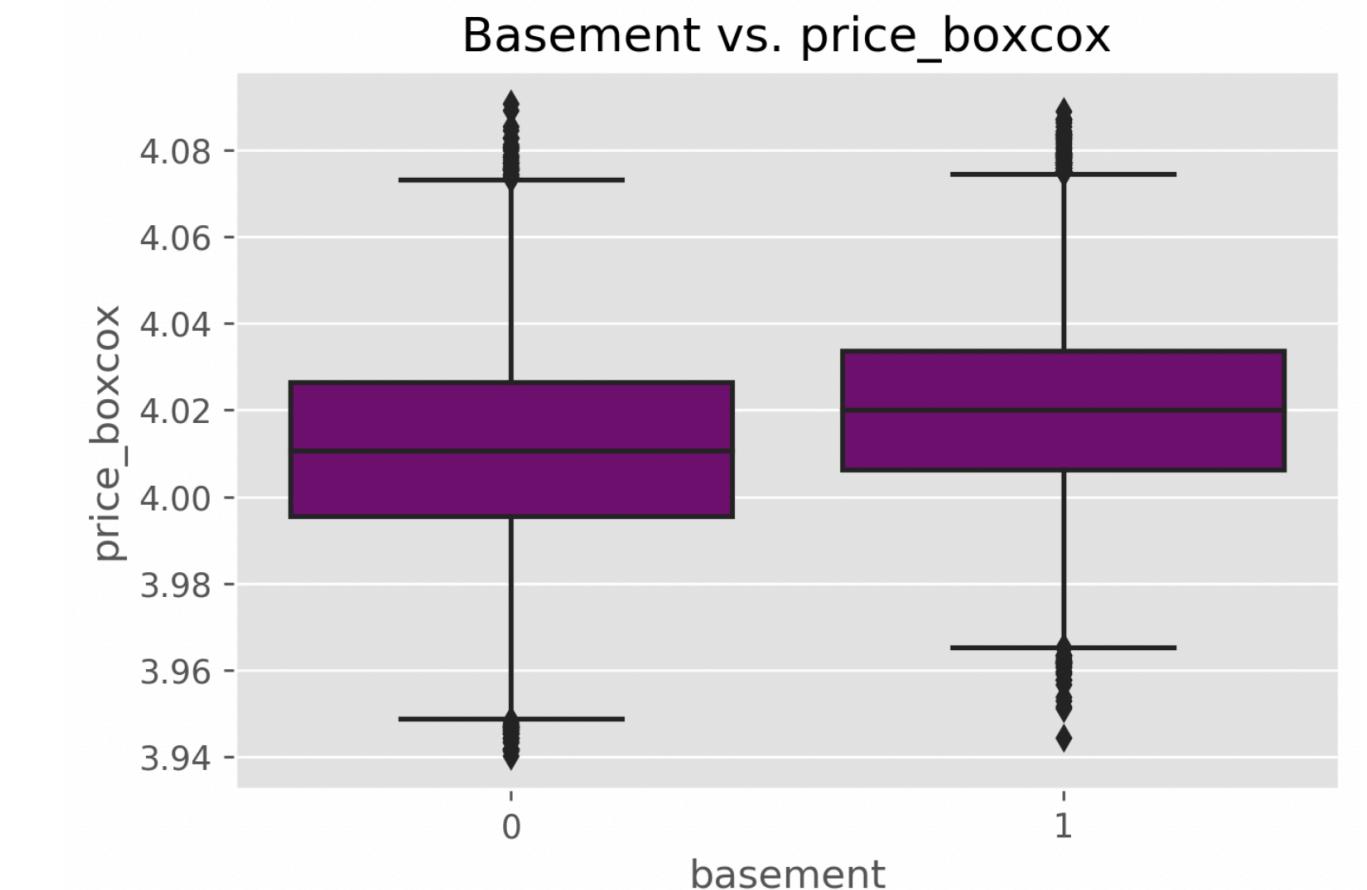
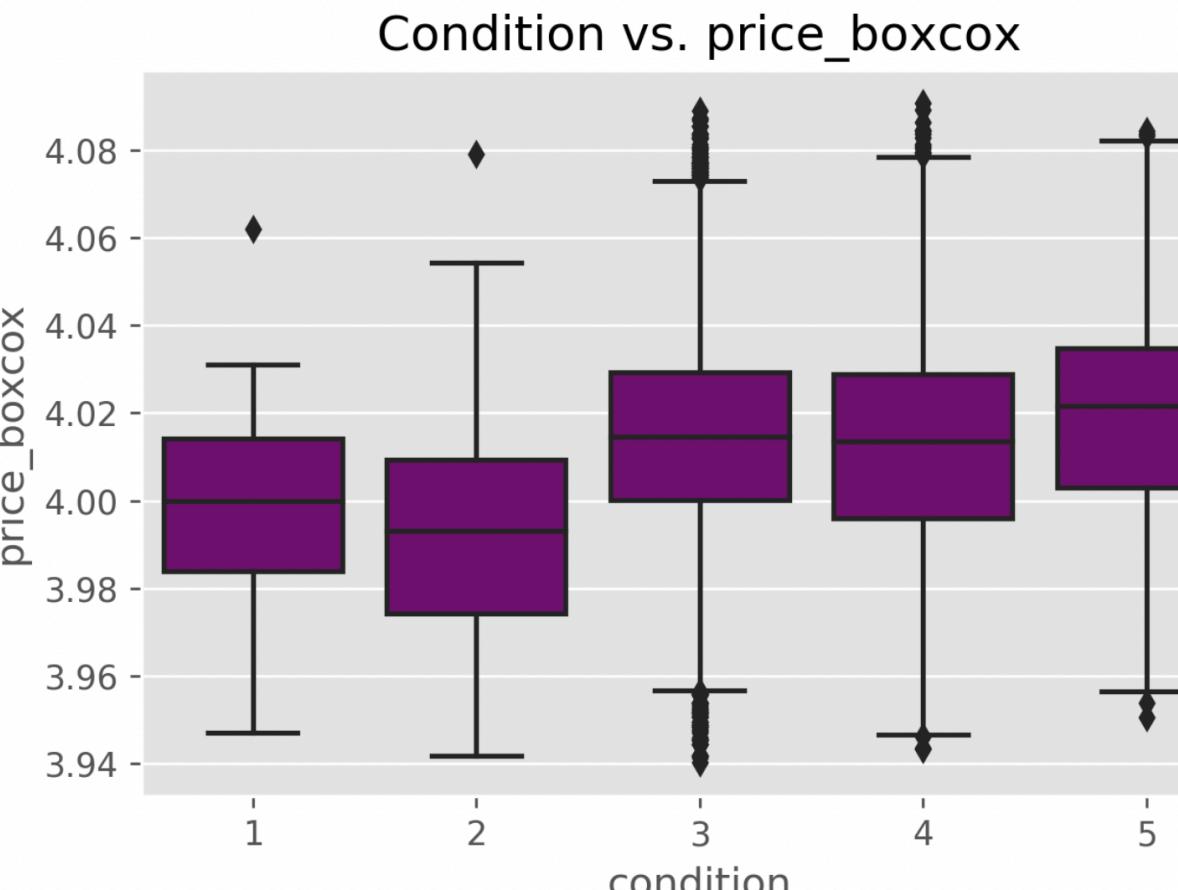
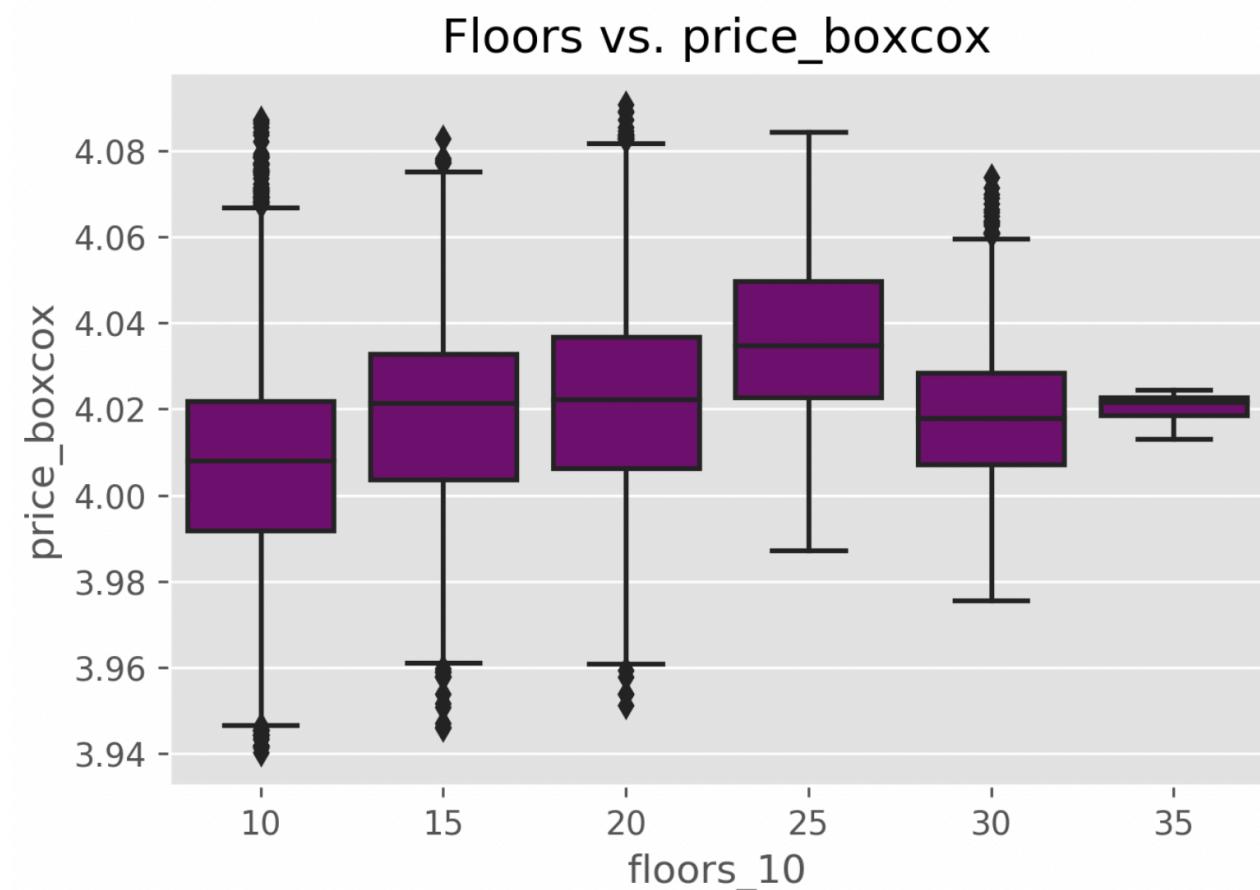
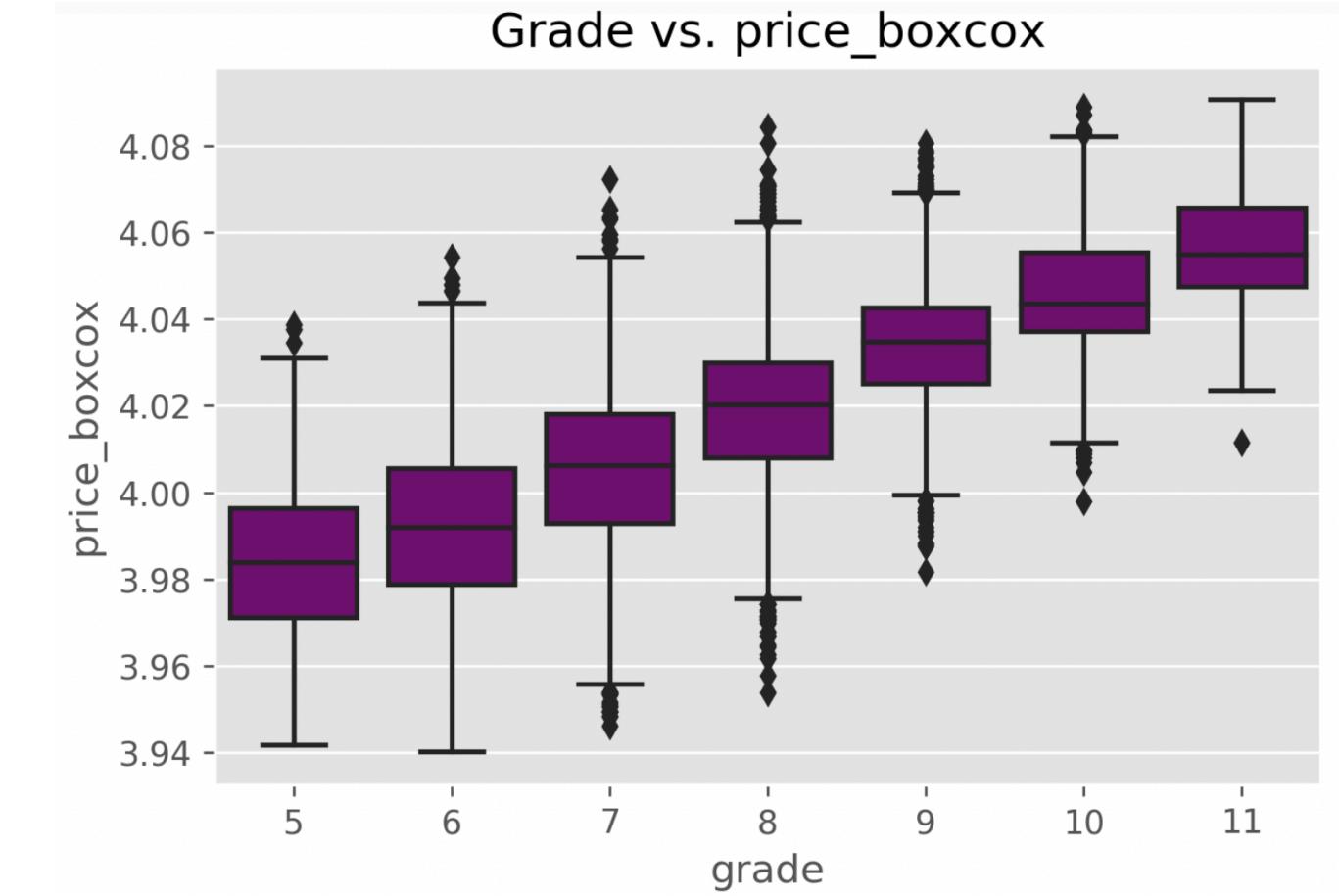
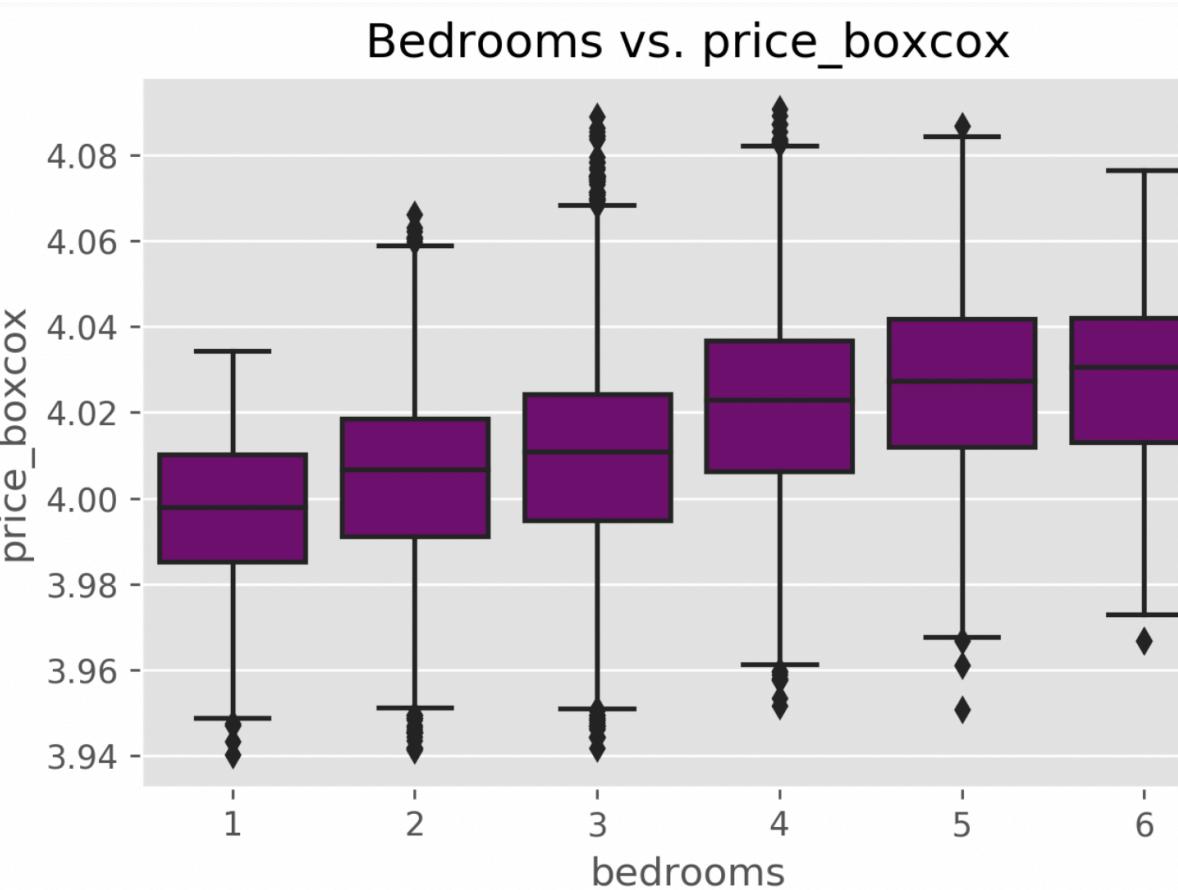
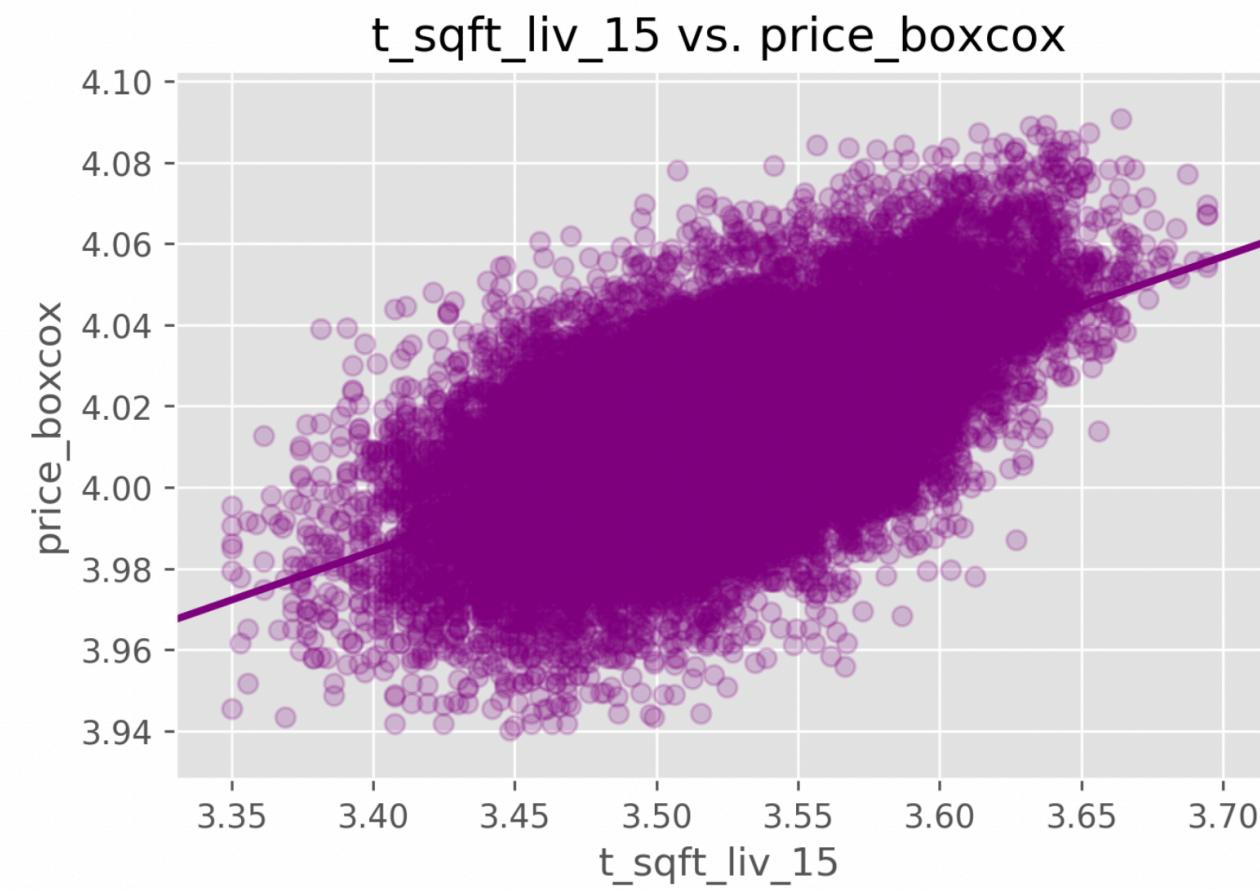
Transforming Price



Methodology

Preprocessing Improves Results

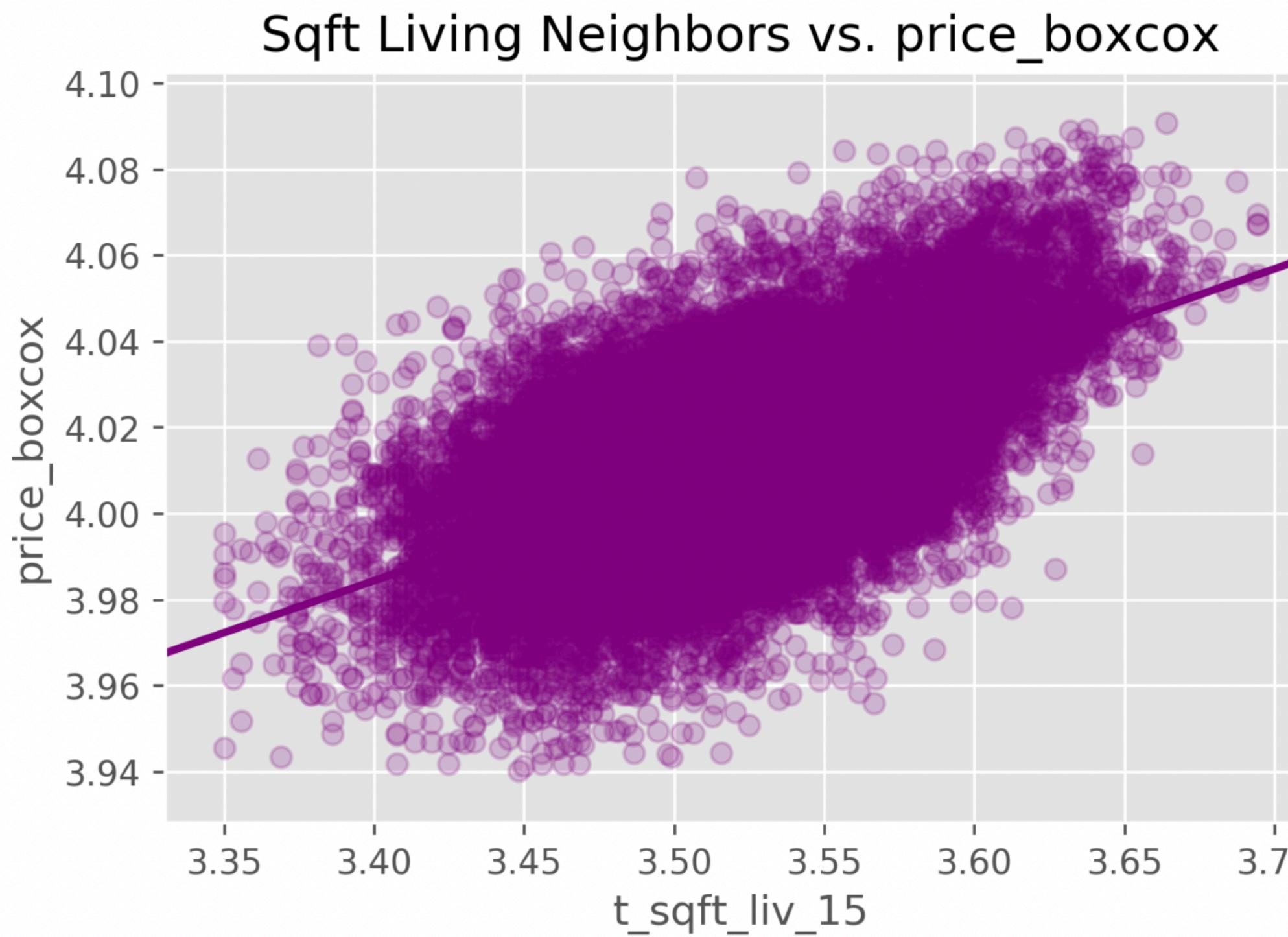
Transformed Variables vs. Transformed Price



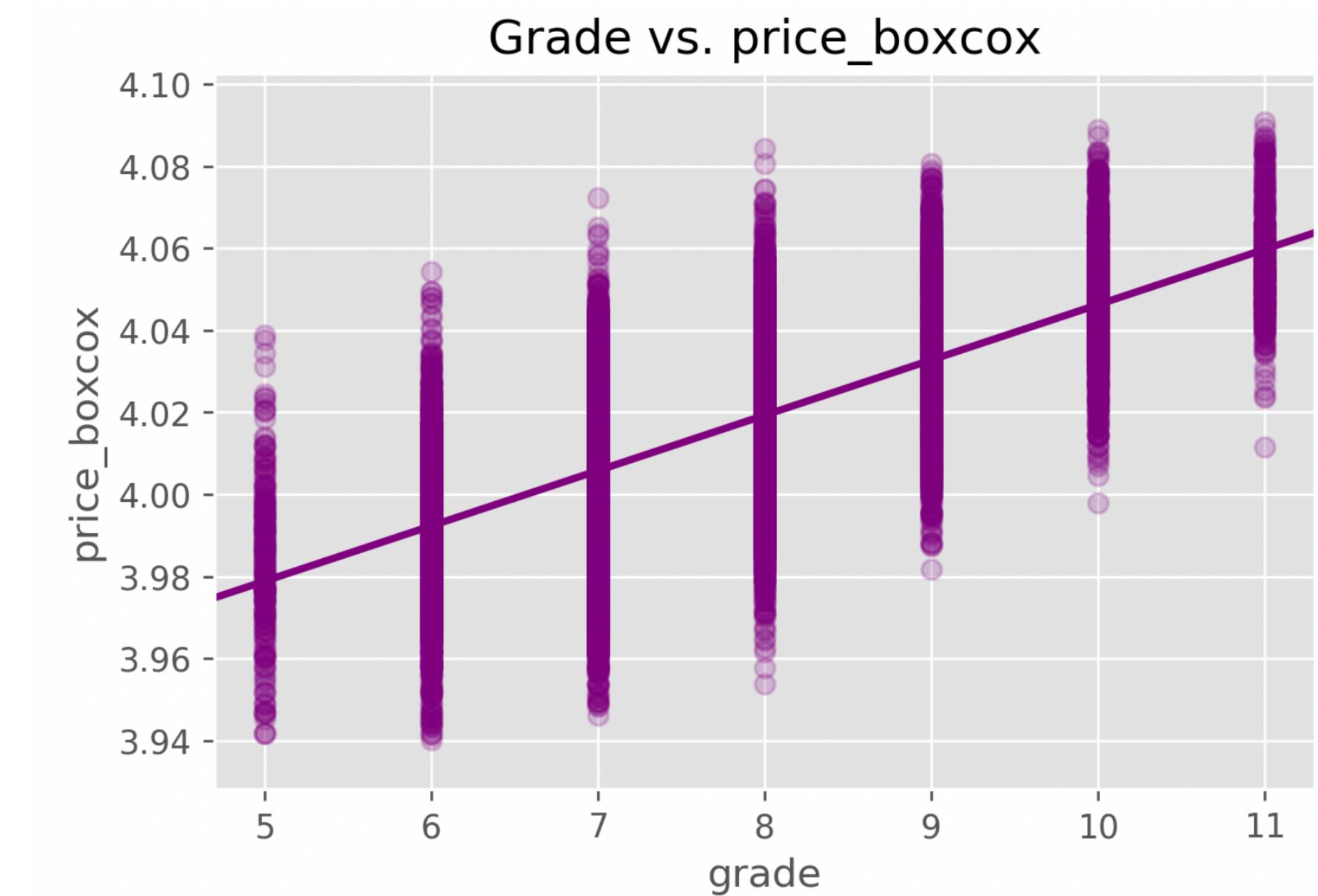
Final Model & Predictors

King's County Housing Market

Numerical Deep Dive



Coefficient Confidence Interval: (0.093, 0.103)
Standalone R-squared value: 34%



Coefficient Confidence Interval: (0.010, 0.011)
Standalone R-squared value: 44%