

Inferential Analysis of Real Property Sales in King County (WA) 2019

CHI BUI

OVERVIEW

- Inferential regression
- Hypothesis testing
- Visualization
- Home improvement projects
- Increase sale values of properties

BUSINESS
PROBLEM

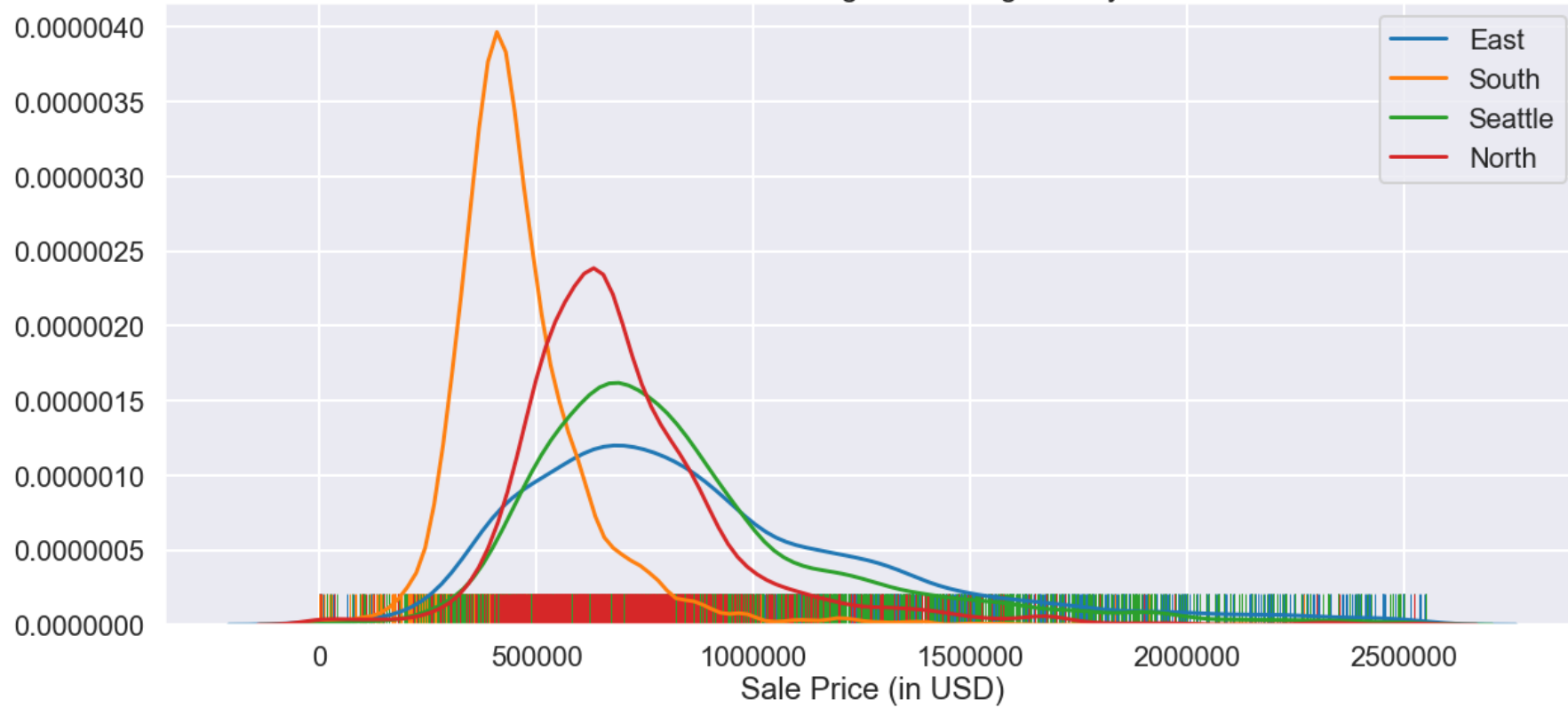
- Enclosed Porch
 - Converting Garage to Bedroom
 - Forced Air Heating System
- and more...

DATASET

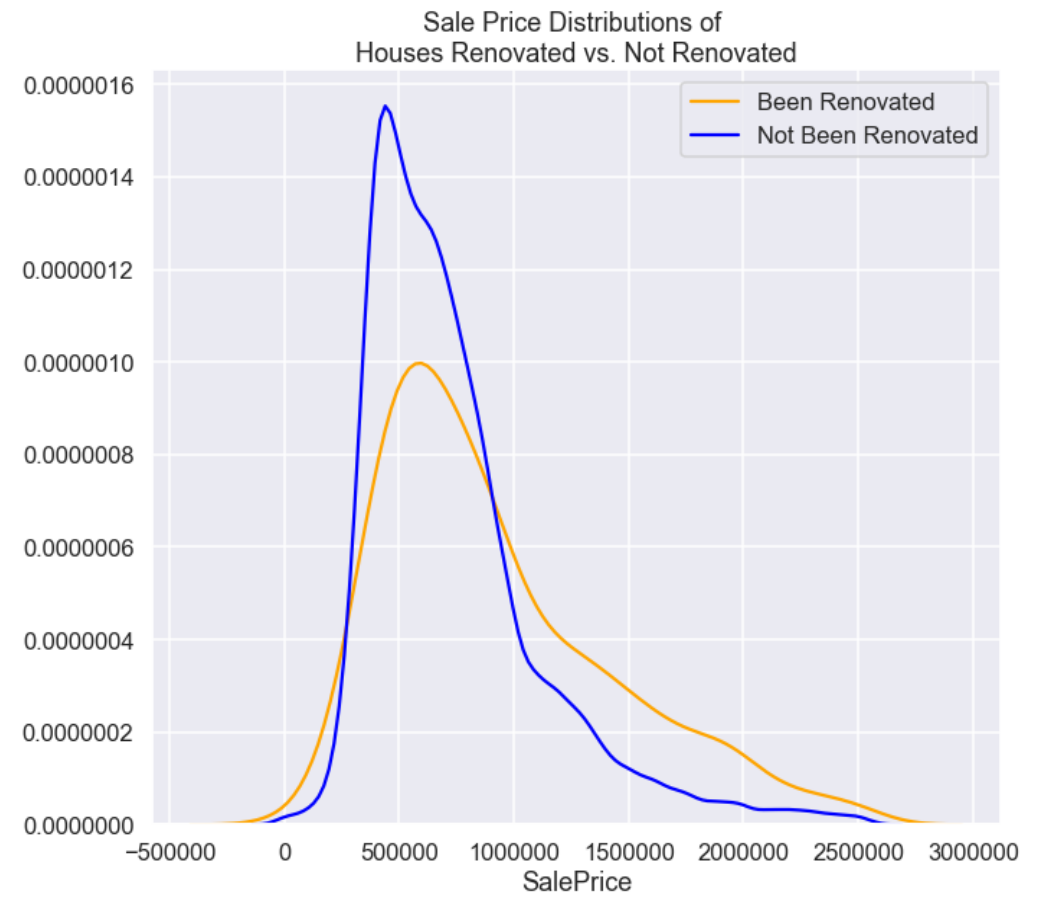
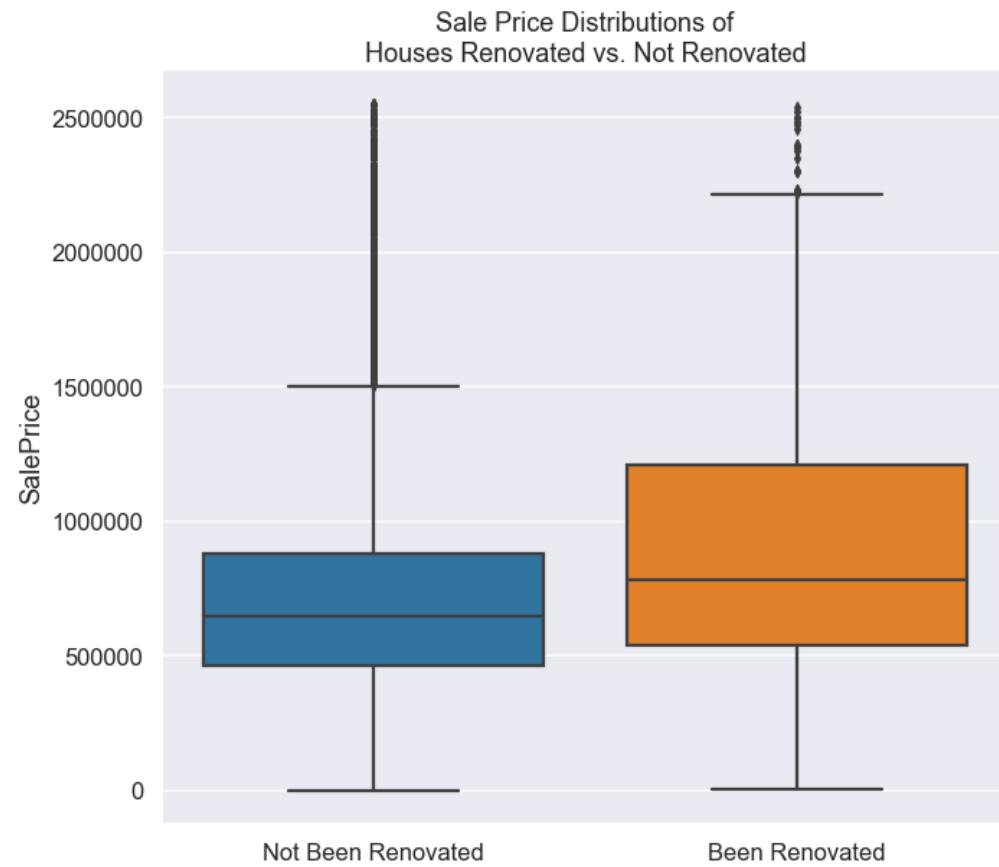
1. Real Property Sales ([EXTR_RPSale.csv](#))
2. Residential Building ([EXTR_ResBldg.csv](#))
3. Parcel ([EXTR_Parcel.csv](#))
4. Look Up ([EXTR_LookUp.csv](#))
5. [King_County_Home_Sales_Data_Dictionary.pdf](#)

Master: 18,320 entries and 60 columns

Household, Single Family Unit Sale Price Distributions
in 4 Different Regions of King County



PRELIMINARY
EXPLORATORY DATA
ANALYSIS



FINDINGS

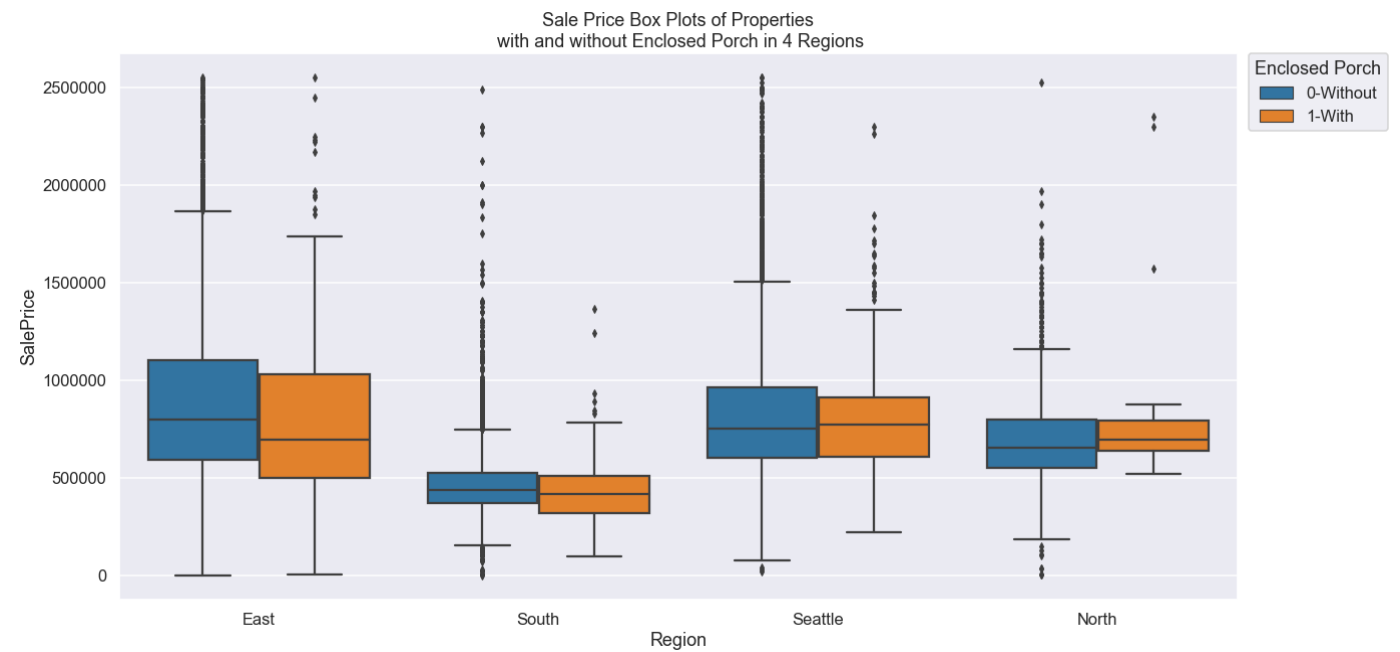
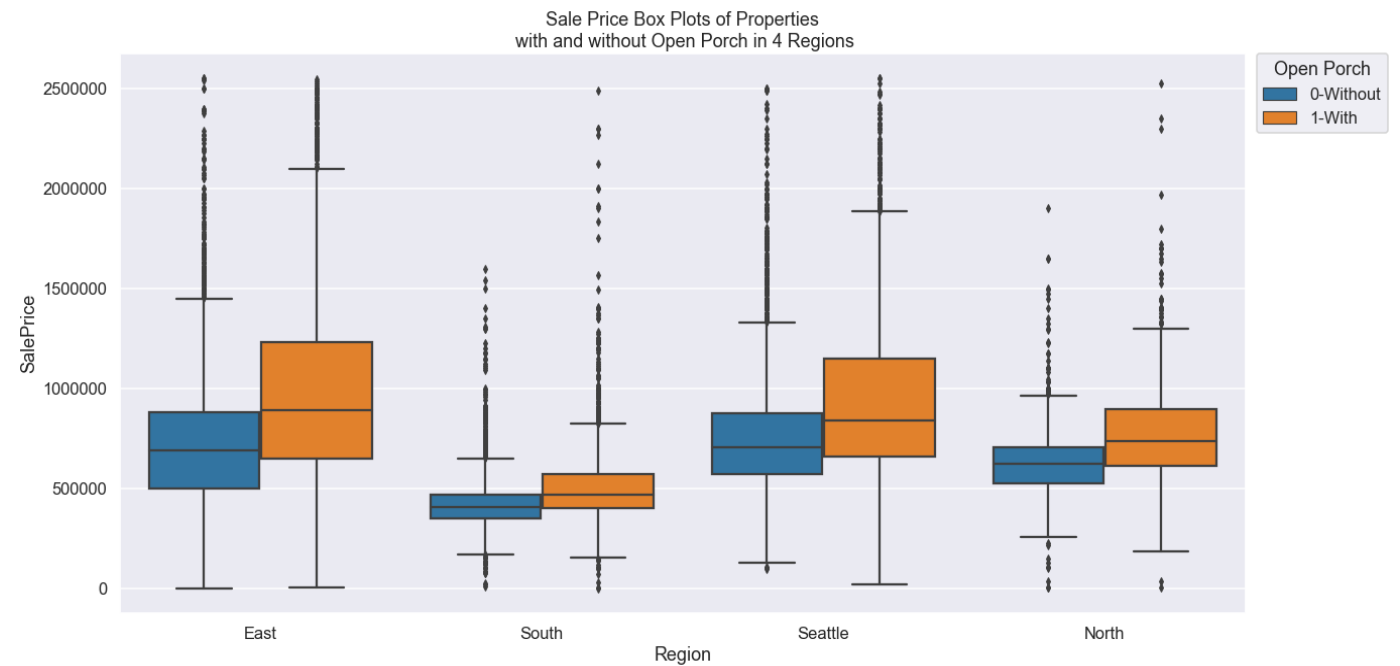
> RENOVATION

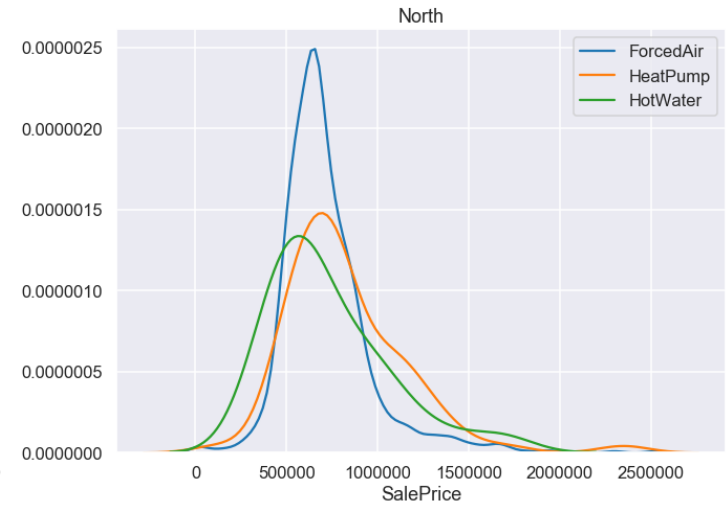
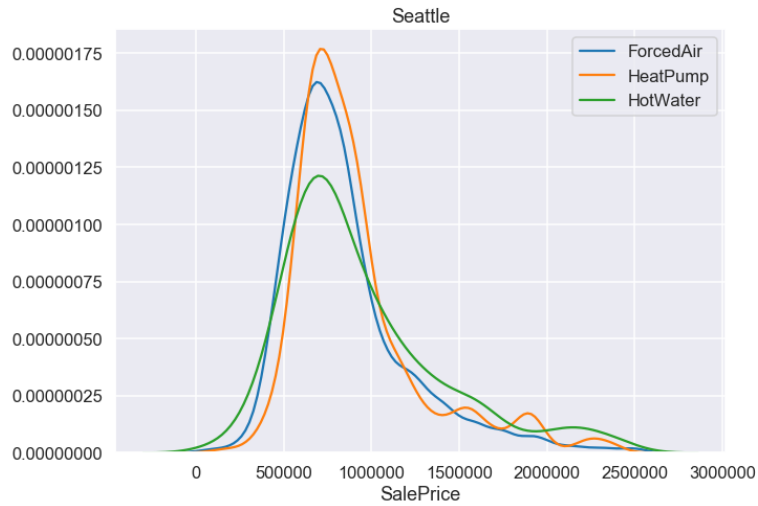
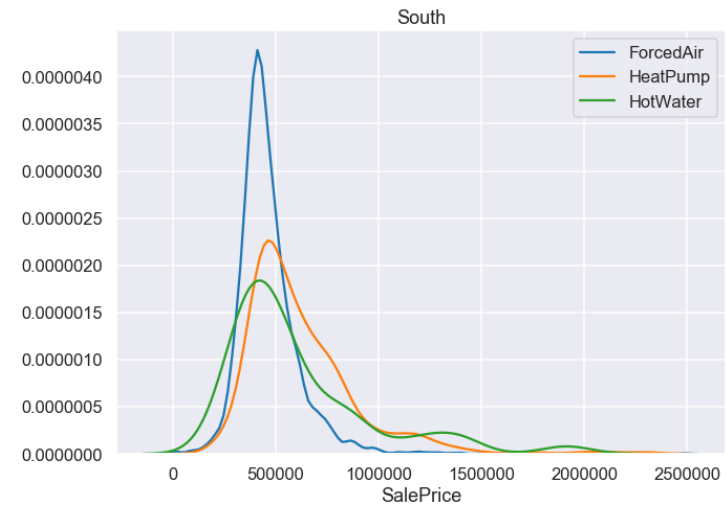
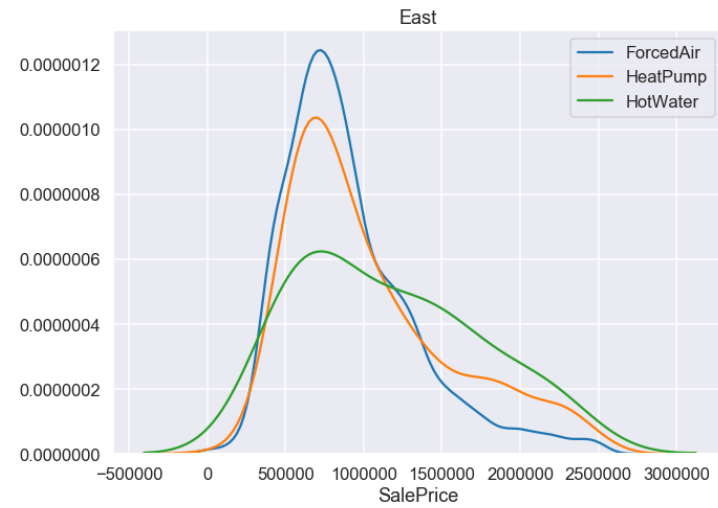
FINDINGS

> PORCH

> OPEN

> ENCLOSED





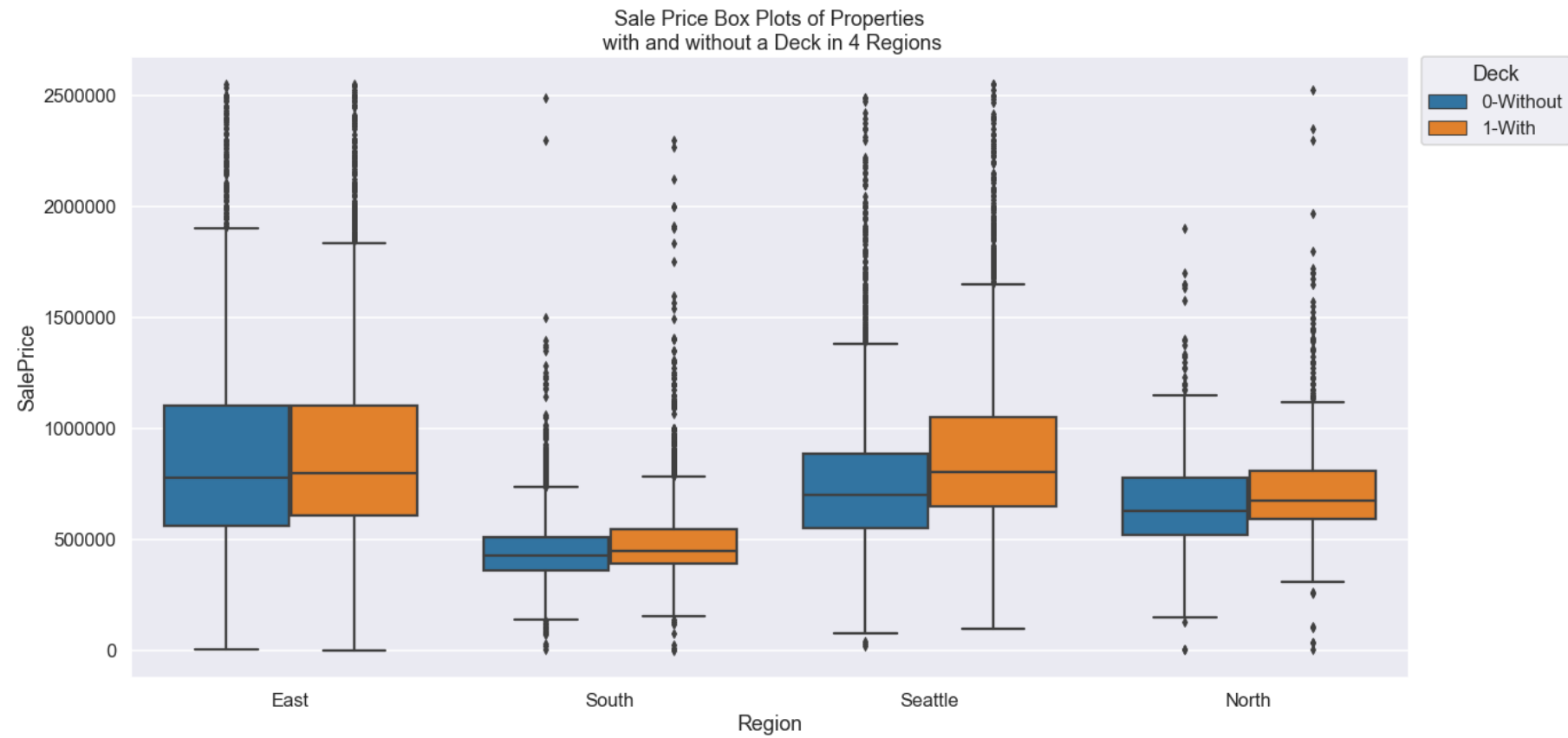
FINDINGS

> HEATING SYSTEM

> HEAT PUMP

> HOT WATER

> FORCED AIR

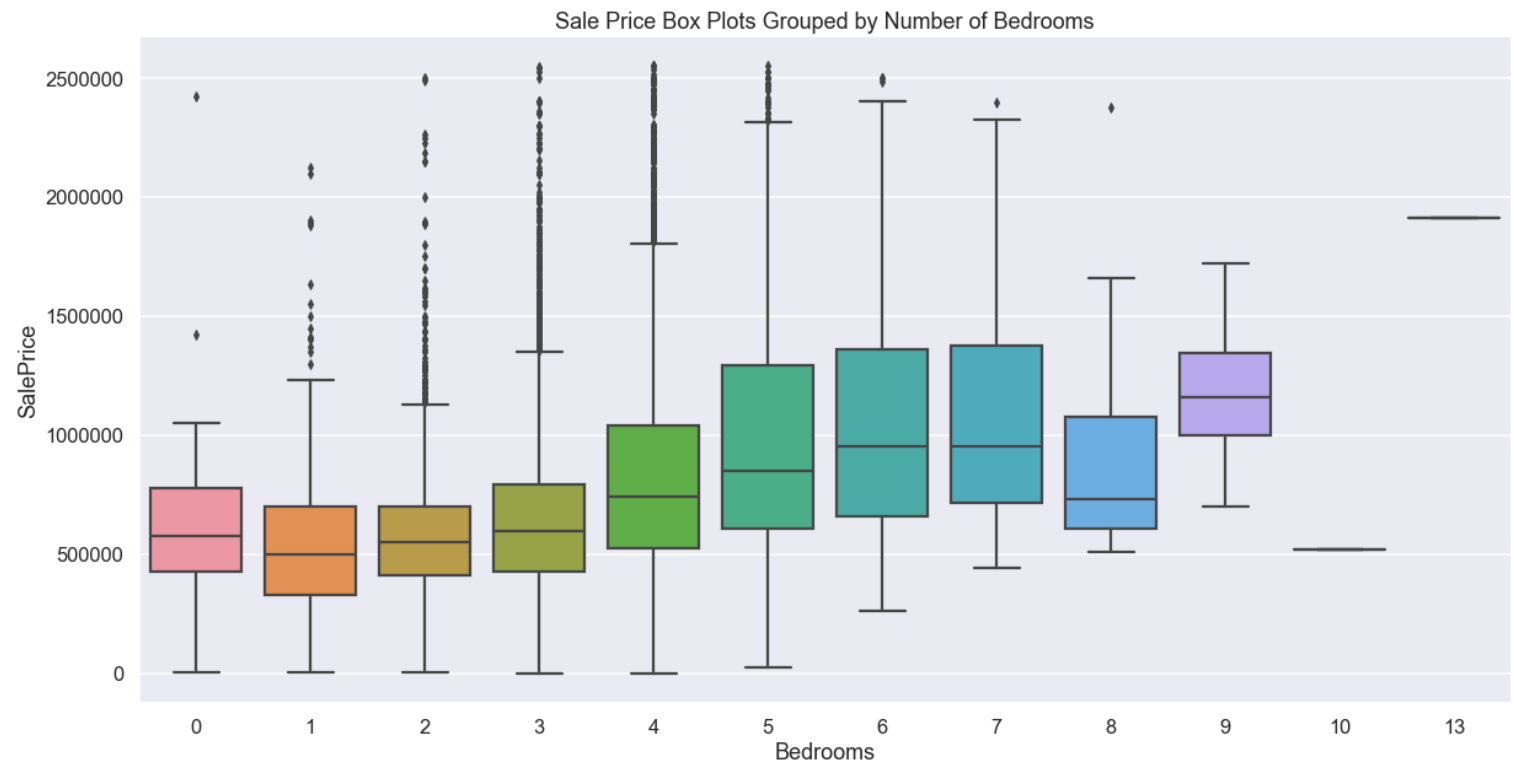


FINDINGS

> DECK

FINDINGS

> BEDROOMS



	EAST	SOUTH	SEATTLE	NORTH
RENOVATION	Highly recommended	Highly recommended	-	Highly recommended
PORCH	Open	Open	Open	Enclosed
HEAT SYSTEM	Hot Water	Heat Pump Hot Water	Heat Pump Hot Water	Heat Pump Hot Water
DECK	-	Highly recommended	-	Highly recommended
BEDROOMS	< 4	< 6	< 6	-

CONCLUSIONS

NEXT STEPS

- Feature Interactions
- Different feature transformation techniques

THANK YOU!

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