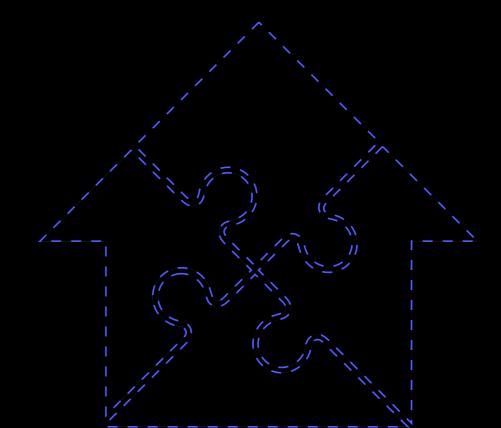
# KING COUNTY

Predicting Residential Property Values in King County, WA

**AUTHOR:** Ru Keïn

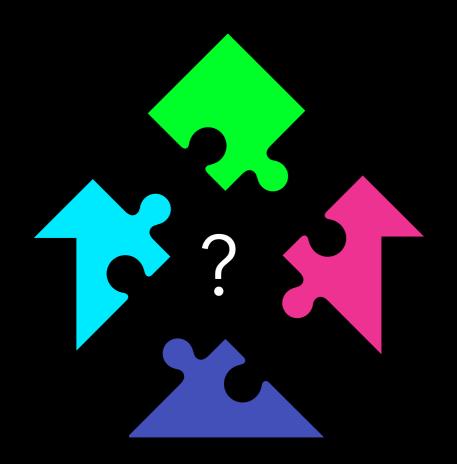
**DATE:** November 7, 2019



## Question

7

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## Model

Identify which combination of variables are best at predicting property values.

Prediction Model analyzed the prices of over 20,000 homes sold in King County between May 2014 and May 2015.

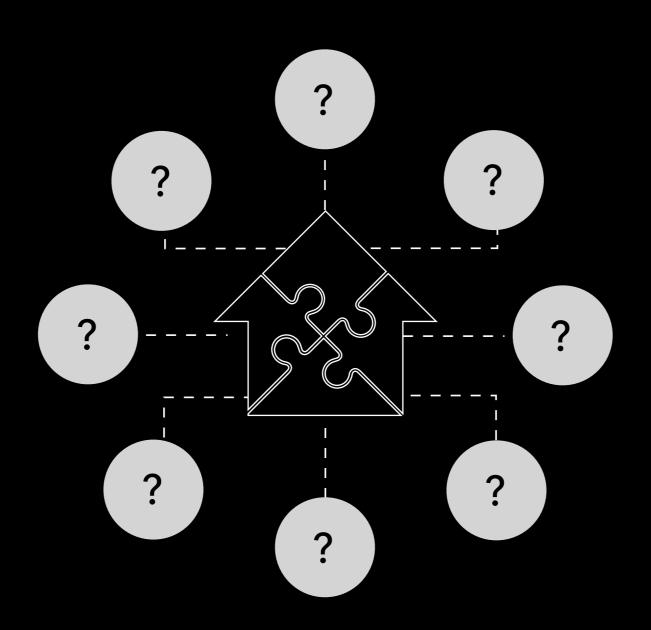


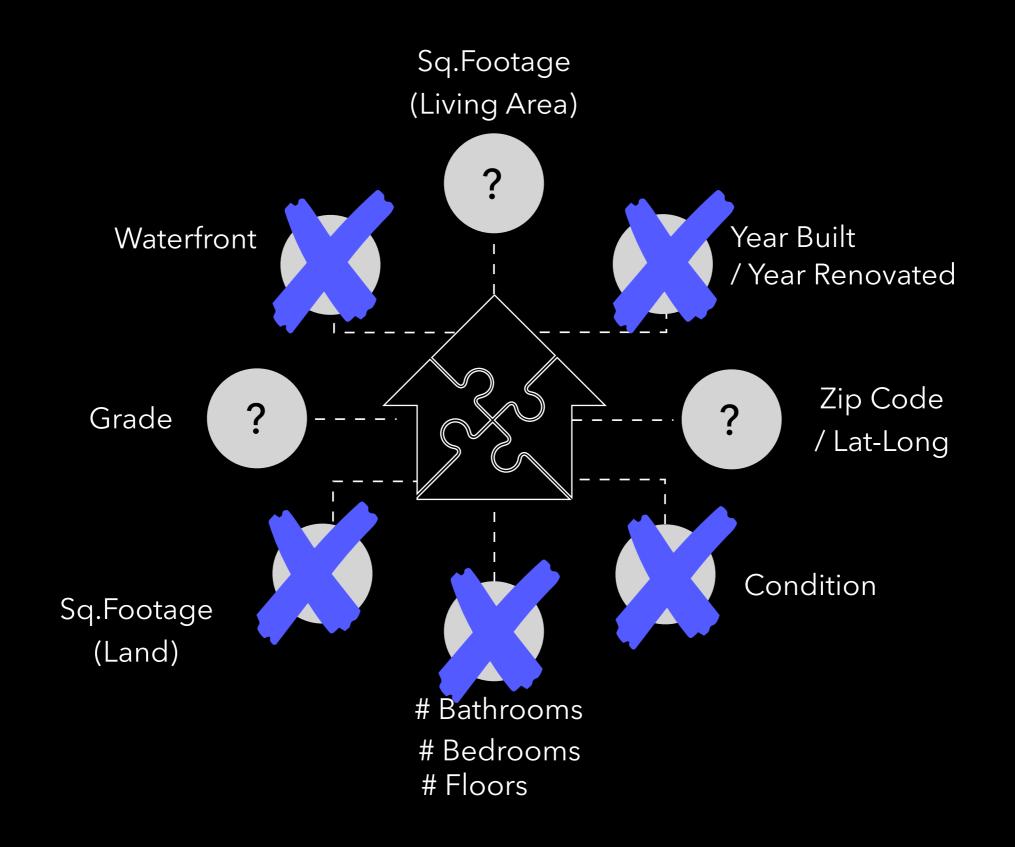


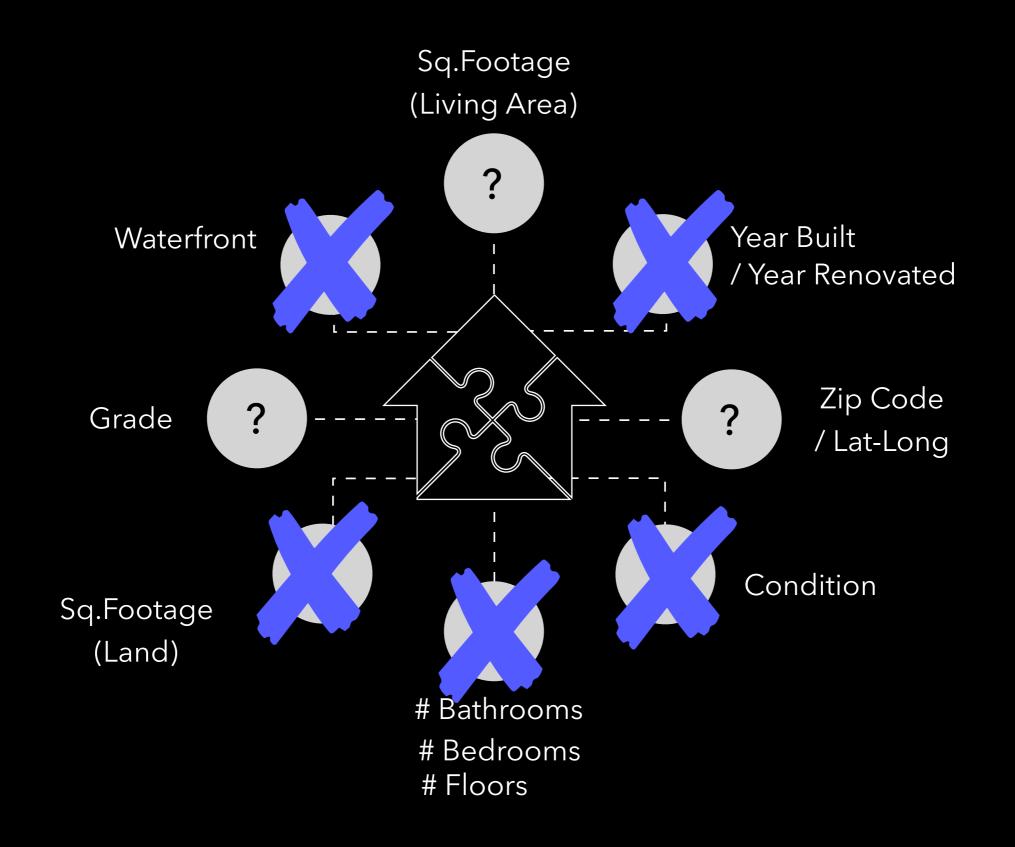
## Model

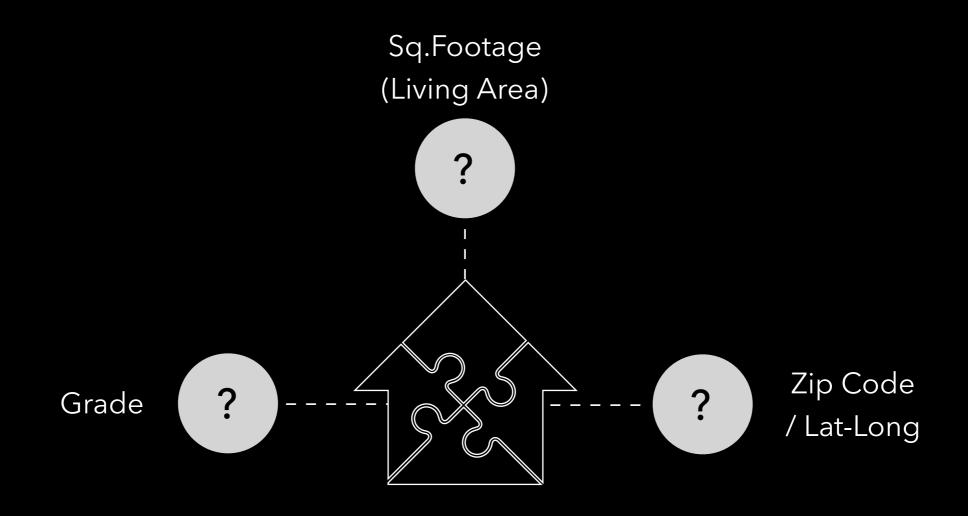
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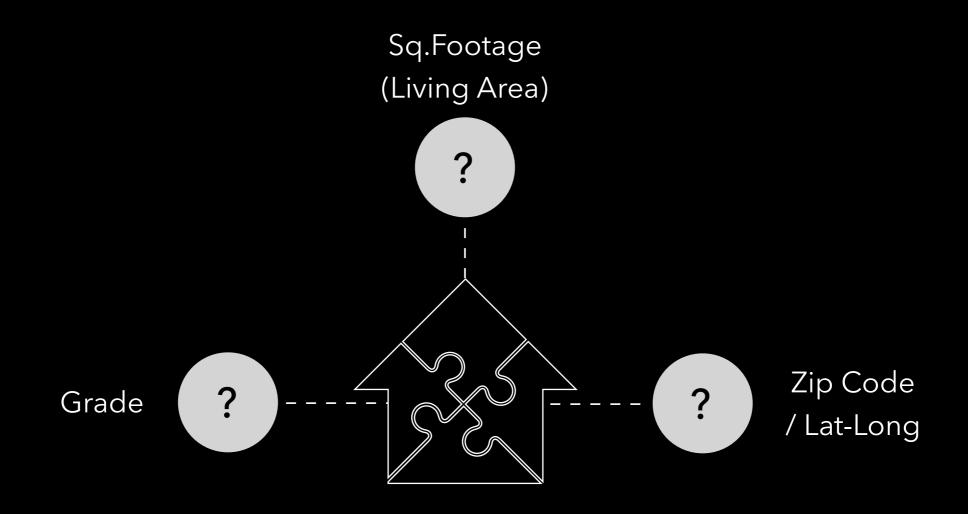
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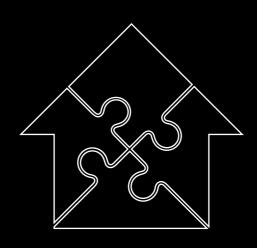


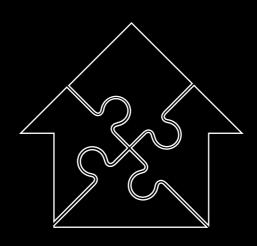






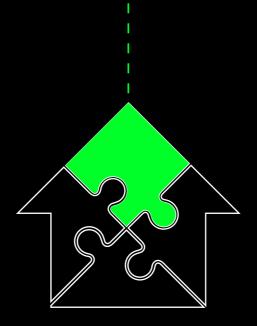








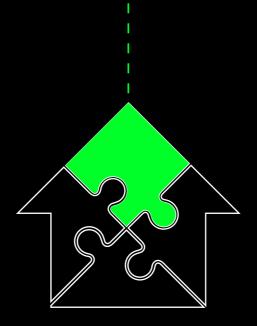
Sq.Footage (Living Area)



Larger-sized homes attain higher property values than small ones.



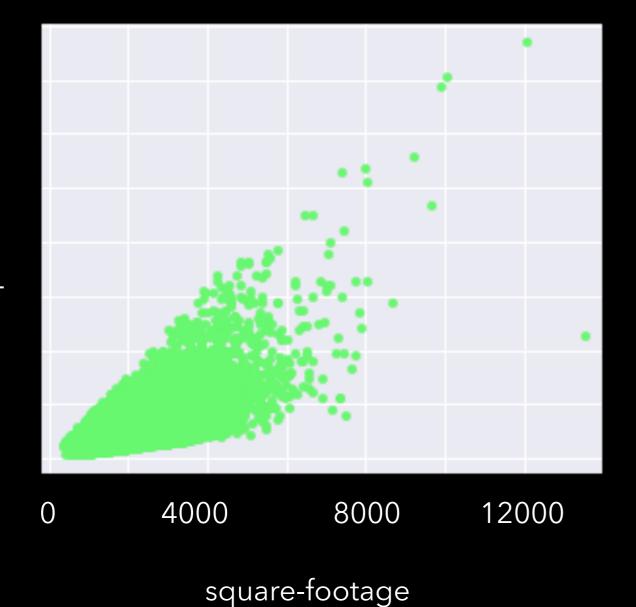
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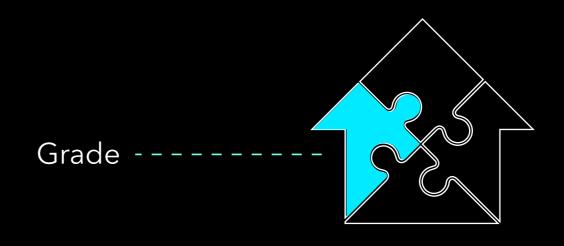




# SIZE MATTERS.

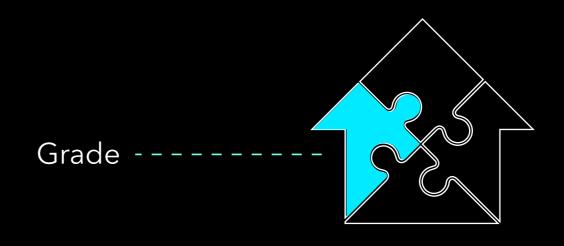
Higher square-footages, higher priced homes.





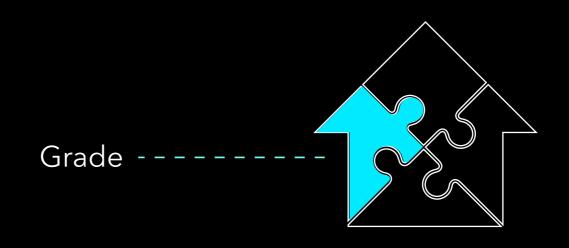
Score range: 1 to 13

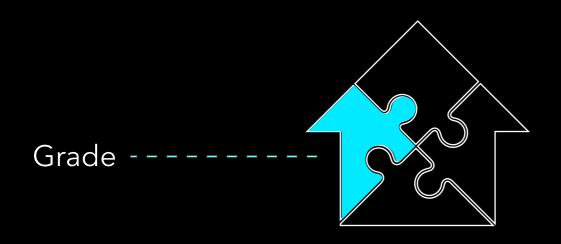
Quality of materials, carpentry, craftsmanship

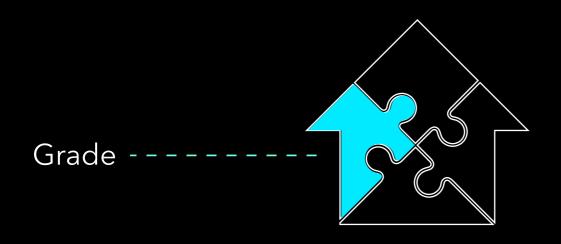


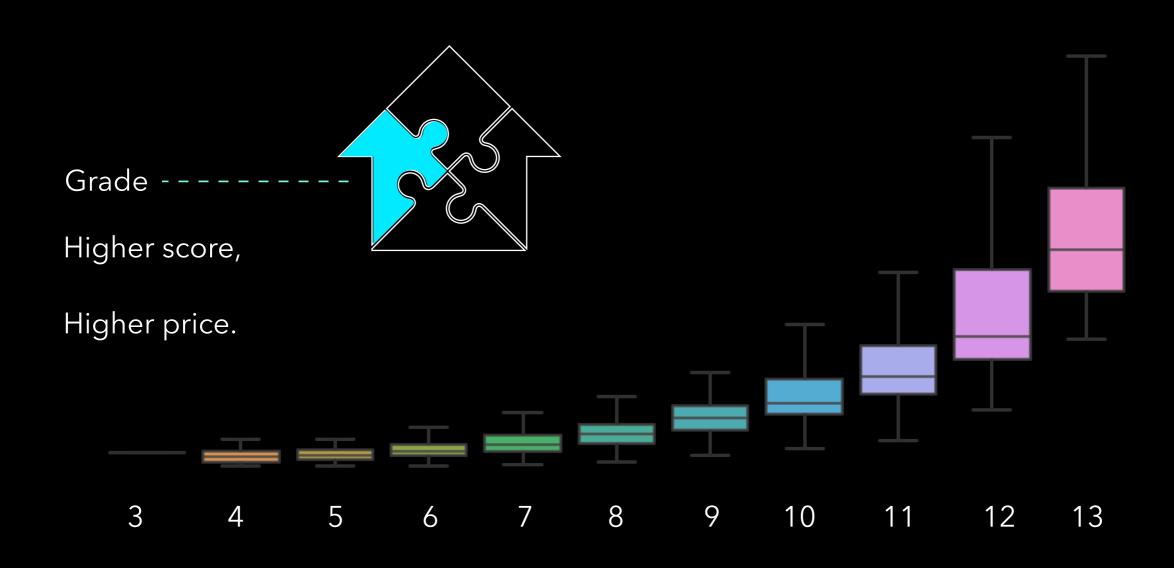
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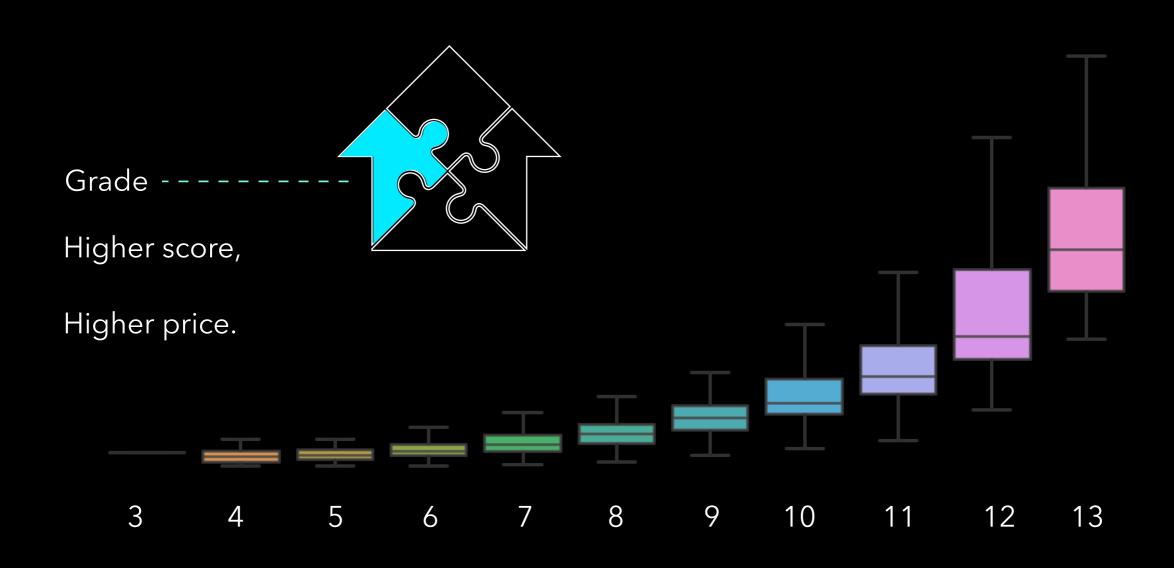
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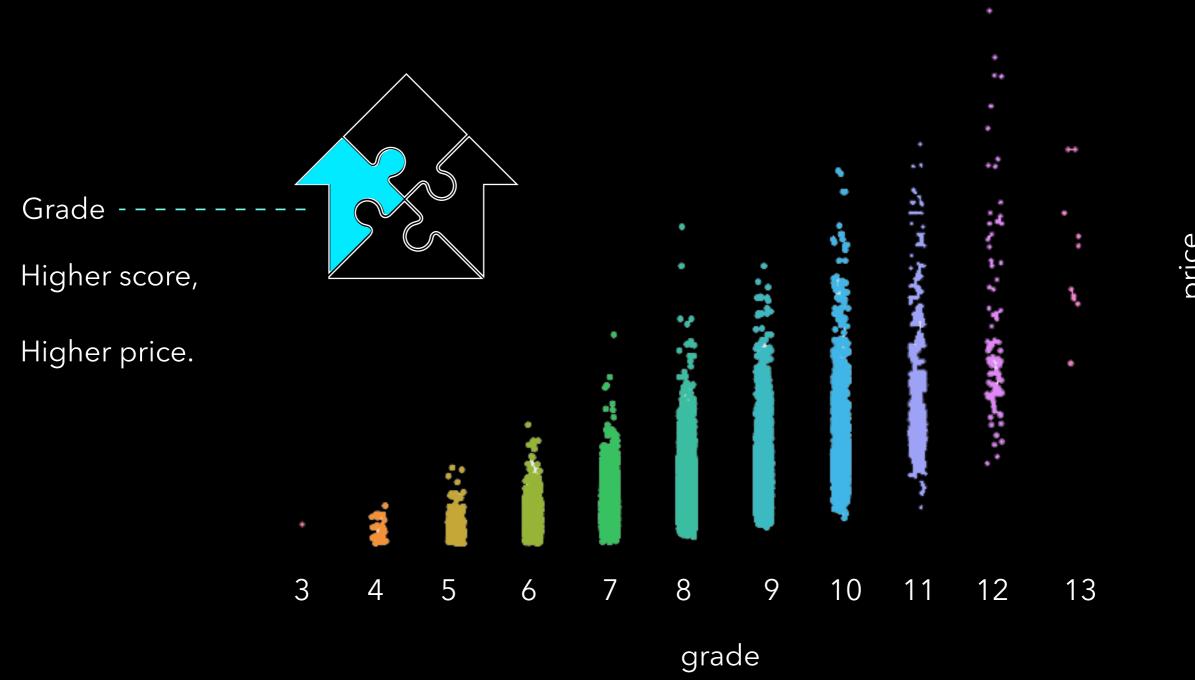




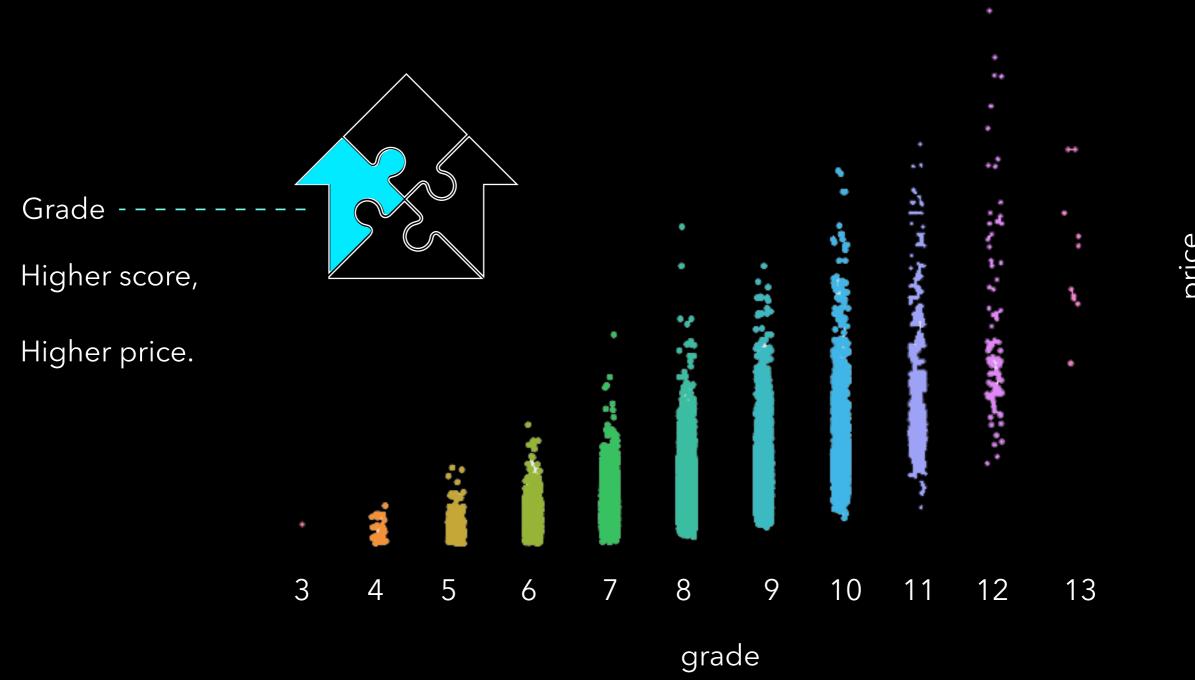


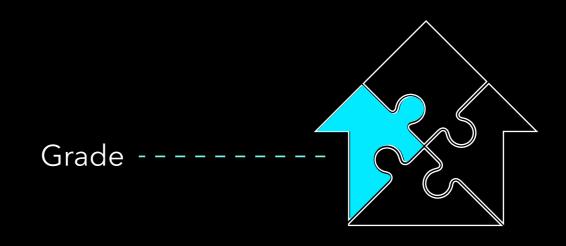


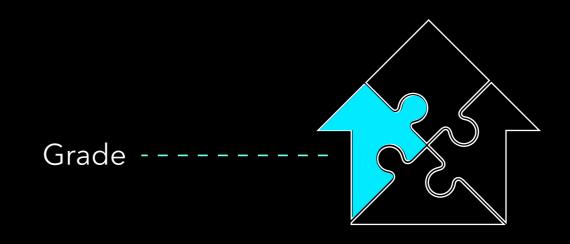
# price



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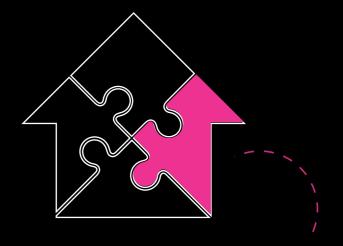




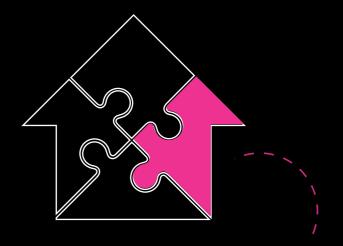






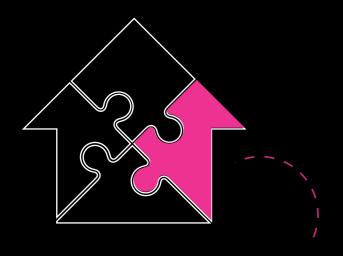


Zip Code



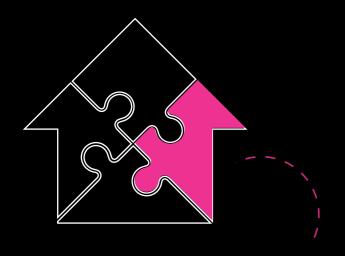
Zip Code

Median Home Values increase or decrease depending on the zip code.



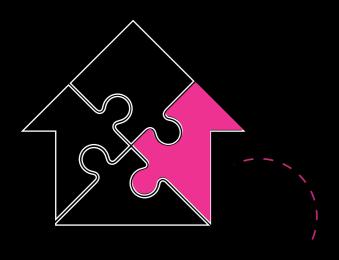
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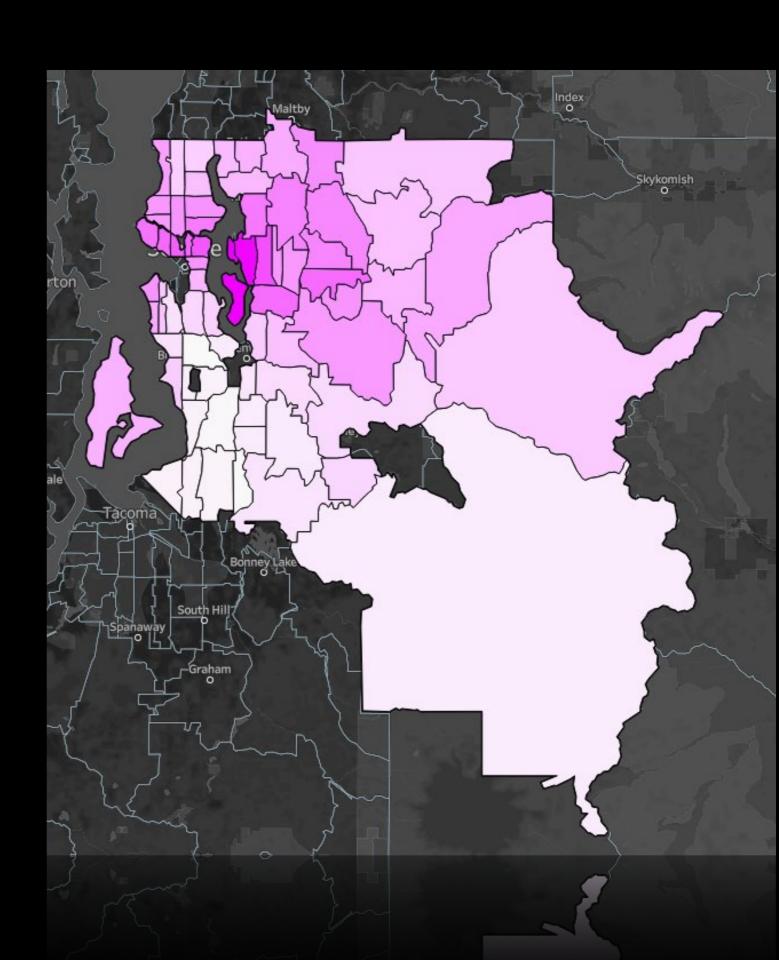


Zip Code

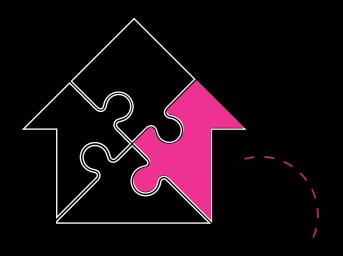
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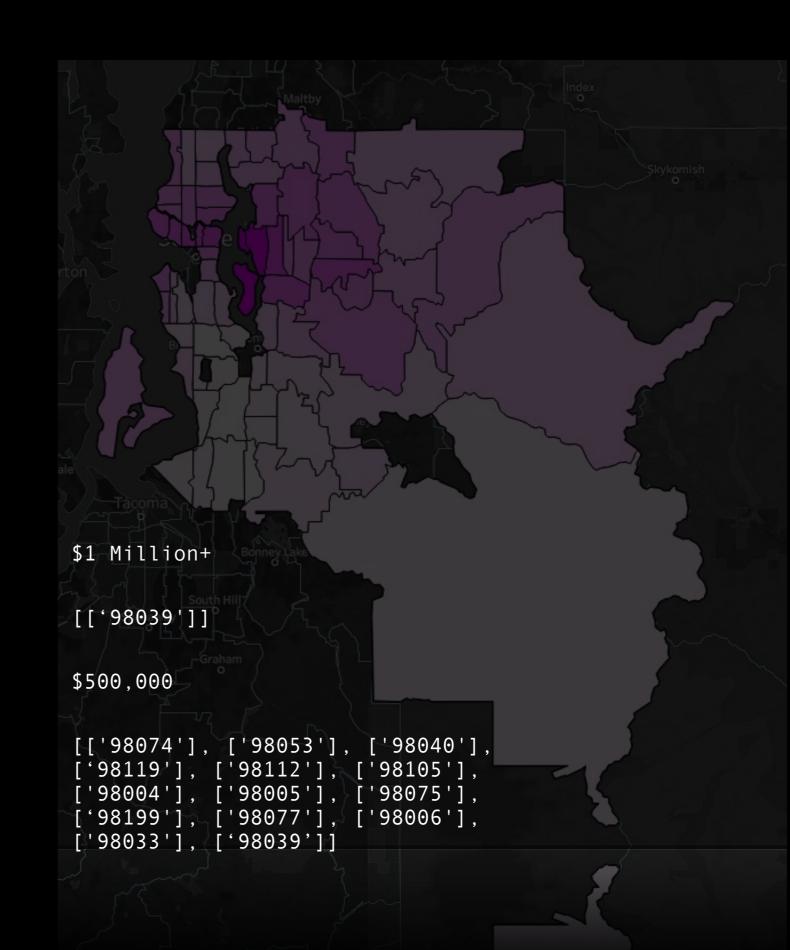
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Zip Code



# Recommendations

# Recommendations



### Increase Square Footage

As the size of your home increases in square footage, so will its value.



### Use High Quality Material

The grade score is determined by quality of materials inside and out.



#### Pick the Right Neighborhood

Build (or renovate) property in an area with higher priced homes.

#### FUTURE WORK

Questions to consider for further analysis

Market Fluctuations Over Time

How are property values affected by strong or weak markets?

Are certain times of the year better for selling than others?

Houses re-sold for higher prices

Changes made to properties that achieved higher re-sale value?

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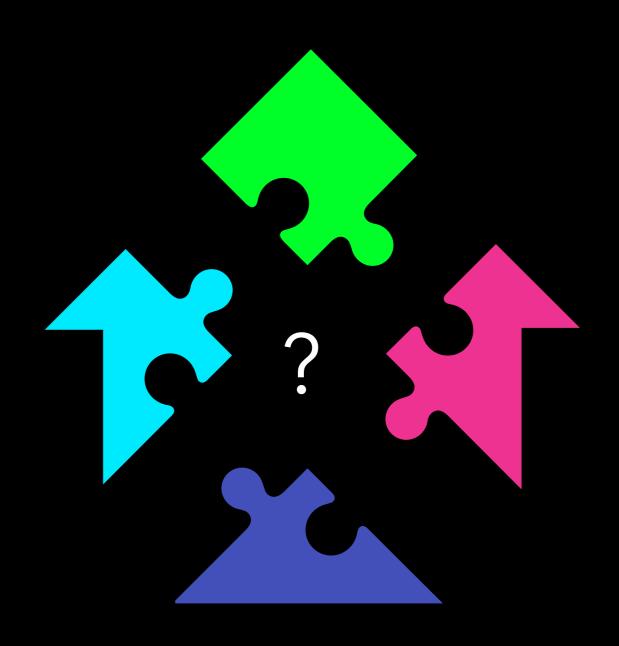








# Q&A Thank You



#### **APPENDIX**



#### Interactive Map of King County Zip Codes and Median Home Values

https://public.tableau.com/views/HousePricesbyZipCodeinKingCountyWA/KingCounty?:display\_count=y&:origin=viz\_share\_link



#### **Code Repository (hosted on Github)**

https://github.com/hakkeray/dsc-v2-mod1-final-project-online-ds-ft-100719



#### Prediction Model Technical Notebook (written in Python)

http://www.hakkeray.com/projects/king-county/notebook.html



#### **CONTACT INFORMATION**

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<a href="http://hakkeray.com">http://hakkeray.com</a>