

King County's best historic houses

To sellers (and buyers)

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Who am I

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Ron Silva
Geographer and Data Analyst

Client

The seller Zachary Brooks

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Goal

Finding the best historic houses for the investor who wants them in the best neighborhoods of King County, and to resell them within a year with high profits. He is willing to renovate the house.

Data what I am working on

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- 1. A database that contains information about home sales in King County (USA)
- Contains 21597 records and 23 variables with informations as bathrooms, bedrooms, living and lots sqft, conditions of the construction/house, if it was renovated or not (and when), year of build, zip code, price, etc

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id	bedrooms	bathrooms	sqft_living	sqft_lot	floors	waterfront	view	condition	grade	sqft_a
21597.000	21597.000	21597.000	21597.000	21597.000	21597.000	19206.000	21534.000	21597.000	21597.000	2159
0474287.771	3.373	2.116	2080.322	15099.409	1.494	0.008	0.234	3.410	7.658	178
6735715.748	0.926	0.769	918.106	41412.637	0.540	0.087	0.766	0.651	1.173	82
1000102.000	1.000	0.500	370.000	520.000	1.000	0.000	0.000	1.000	3.000	37
3049175.000	3.000	1.750	1430.000	5040.000	1.000	0.000	0.000	3.000	7.000	119
4930410.000	3.000	2.250	1910.000	7618.000	1.500	0.000	0.000	3.000	7.000	156
8900490.000	4.000	2.500	2550.000	10685.000	2.000	0.000	0.000	4.000	8.000	221
00000190.000	33.000	8.000	13540.000	1651359.000	3.500	1.000	4.000	5.000	13.000	941
	id 21597.000 30474287.771 36735715.748 1000102.000 3049175.000 4930410.000	id bedrooms 21597.000 21597.000 30474287.771 3.373 6735715.748 0.926 1000102.000 1.000 3049175.000 3.000 4930410.000 3.000	id bedrooms bathrooms 21597.000 21597.000 21597.000 30474287.771 3.373 2.116 6735715.748 0.926 0.769 1000102.000 1.000 0.500 3049175.000 3.000 1.750 4930410.000 3.000 2.250 8900490.000 4.000 2.500	id bedrooms bathrooms sqft_living 21597.000 21597.000 21597.000 21597.000 30474287.771 3.373 2.116 2080.322 6735715.748 0.926 0.769 918.106 1000102.000 1.000 0.500 370.000 3049175.000 3.000 1.750 1430.000 4930410.000 3.000 2.250 1910.000 8900490.000 4.000 2.500 2550.000	id bedrooms bathrooms sqft_living sqft_lot 21597.000 21597.000 21597.000 21597.000 30474287.771 3.373 2.116 2080.322 15099.409 6735715.748 0.926 0.769 918.106 41412.637 1000102.000 1.000 0.500 370.000 520.000 3049175.000 3.000 1.750 1430.000 5040.000 4930410.000 3.000 2.250 1910.000 7618.000 8900490.000 4.000 2.500 2550.000 10685.000	id bedrooms bathrooms sqft_living sqft_lot floors 21597.000 21597.000 21597.000 21597.000 21597.000 21597.000 30474287.771 3.373 2.116 2080.322 15099.409 1.494 6735715.748 0.926 0.769 918.106 41412.637 0.540 1000102.000 1.000 0.500 370.000 520.000 1.000 3049175.000 3.000 1.750 1430.000 5040.000 1.500 4930410.000 3.000 2.250 1910.000 7618.000 1.500 8900490.000 4.000 2.500 2550.000 10685.000 2.000	id bedrooms bathrooms sqft_living sqft_lot floors waterfront 21597.000 21597.000 21597.000 21597.000 21597.000 19206.000 30474287.771 3.373 2.116 2080.322 15099.409 1.494 0.008 6735715.748 0.926 0.769 918.106 41412.637 0.540 0.087 1000102.000 1.000 0.500 370.000 520.000 1.000 0.000 3049175.000 3.000 1.750 1430.000 5040.000 1.500 0.000 4930410.000 3.000 2.250 1910.000 7618.000 1.500 0.000 8900490.000 4.000 2.500 2550.000 10685.000 2.000 0.000	id bedrooms bathrooms sqft_living sqft_lot floors waterfront view 21597.000 21597.000 21597.000 21597.000 21597.000 19206.000 21534.000 30474287.771 3.373 2.116 2080.322 15099.409 1.494 0.008 0.234 6735715.748 0.926 0.769 918.106 41412.637 0.540 0.087 0.766 1000102.000 1.000 0.500 370.000 520.000 1.000 0.000 0.000 3049175.000 3.000 1.750 1430.000 5040.000 1.500 0.000 0.000 4930410.000 3.000 2.250 1910.000 7618.000 1.500 0.000 0.000 8900490.000 4.000 2.500 2550.000 10685.000 2.000 0.000 0.000	id bedrooms bathrooms sqft_living sqft_lot floors waterfront view condition 21597.000 21597.000 21597.000 21597.000 21597.000 19206.000 21534.000 21597.000 20474287.771 3.373 2.116 2080.322 15099.409 1.494 0.008 0.234 3.410 6735715.748 0.926 0.769 918.106 41412.637 0.540 0.087 0.766 0.651 1000102.000 1.000 0.500 370.000 520.000 1.000 0.000 0.000 1.000 3049175.000 3.000 1.750 1430.000 5040.000 1.500 0.000 0.000 3.000 4930410.000 3.000 2.550 1910.000 7618.000 1.500 0.000 0.000 3.000 8900490.000 4.000 2.550 2550.000 10685.000 2.000 0.000 0.000 4.000	id bedrooms bathrooms sqft_living sqft_lot floors waterfront view condition grade 21597.000 21597.000 21597.000 21597.000 21597.000 19206.000 21534.000 21597.000 21597.000 20474287.771 3.373 2.116 2080.322 15099.409 1.494 0.008 0.234 3.410 7.658 26735715.748 0.926 0.769 918.106 41412.637 0.540 0.087 0.766 0.651 1.173 1000102.000 1.000 0.500 370.000 520.000 1.000 0.000 0.000 1.000 3.000 3049175.000 3.000 1.750 1430.000 5040.000 1.000 0.000 0.000 3.000 7.000 4930410.000 3.000 2.250 1910.000 7618.000 1.500 0.000 0.000 3.000 3.000 7.000 8900490.000 4.000 2.500 2550.000 10685.000 2.000 0.000

Data what I am working on - Labels

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BUILDING GRADE

Represents the construction quality of improvements. Grades run from grade 1 to 13. Generally defined as:

- 1-3 Falls short of minimum building standards. Normally cabin or inferior structure.
- 4 Generally older, low quality construction. Does not meet code.
- 5 Low construction costs and workmanship. Small, simple design.
- 6 Lowest grade currently meeting building code. Low quality materials and simple designs.
- 7 Average grade of construction and design. Commonly seen in plats and older sub-divisions.
- 8 Just above average in construction and design. Usually better materials in both the exterior and interior finish work.
- 9 Better architectural design with extra interior and exterior design and quality.
- 10 Homes of this quality generally have high quality features. Finish work is better and more design quality is seen in the floor plans. Generally have a larger square footage.
- 11 Custom design and higher quality finish work with added amenities of solid woods, bathroom fixtures and more luxurious options.
- 12 Custom design and excellent builders. All materials are of the highest quality and all conveniences are present.
- 13 Generally custom designed and built. Mansion level. Large amount of highest quality cabinet work, wood trim, marble, entry ways etc.

Data what I am working on - Labels

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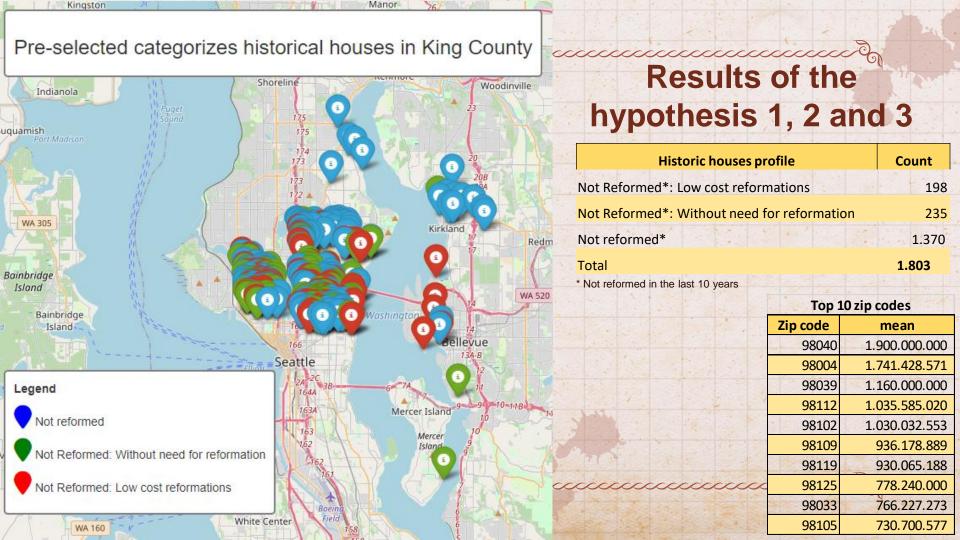
BUILDING CONDITION

Relative to age and grade. Coded 1-5.

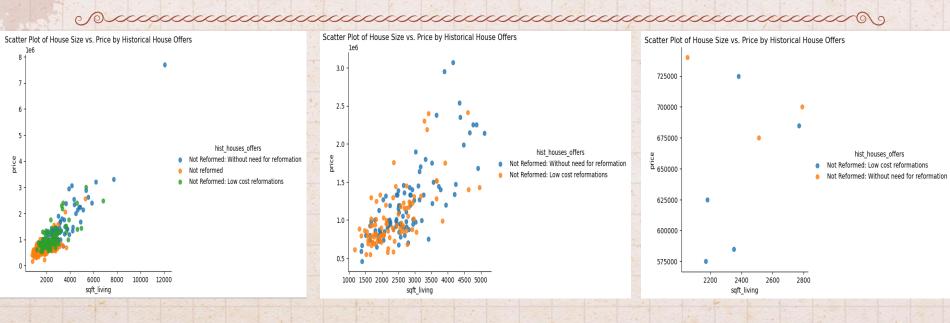
- 1 = Poor- Worn out. Repair and overhaul needed on painted surfaces, roofing, plumbing, heating and numerous functional inadequacies. Excessive deferred maintenance and abuse, limited value-in-use, approaching abandonment or major reconstruction; reuse or change in occupancy is imminent. Effective age is near the end of the scale regardless of the actual chronological age.
- 2 = Fair- Badly worn. Much repair needed. Many items need refinishing or overhauling, deferred maintenance obvious, inadequate building utility and systems all shortening the life expectancy and increasing the effective age.
- 3 = Average- Some evidence of deferred maintenance and normal obsolescence with age in that a few minor repairs are needed, along with some refinishing. All major components still functional and contributing toward an extended life expectancy. Effective age and utility is standard for like properties of its class and usage.
- 4 = Good- No obvious maintenance required but neither is everything new. Appearance and utility are above the standard and the overall effective age will be lower than the typical property.
- 5= Very Good- All items well maintained, many having been overhauled and repaired as they have shown signs of wear, increasing the life expectancy and lowering the effective age with little deterioration or obsolescence evident with a high degree of utility.

Hypothesis

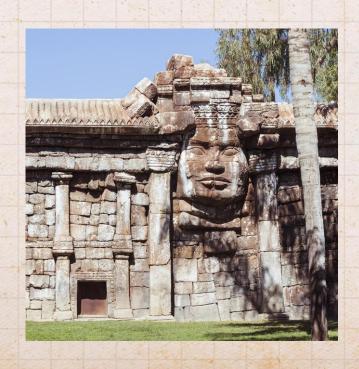
- How many historic houses (over 100 years old) are there in King County?
- 2. What is their profile when it comes to the possibility of renovation? Which ones are worth it?
- 3. How to define a good neighborhood for a investor?
- Is it possible to find houses in this profile that are worth investing in for later sale?



Results of the hypothesis 4

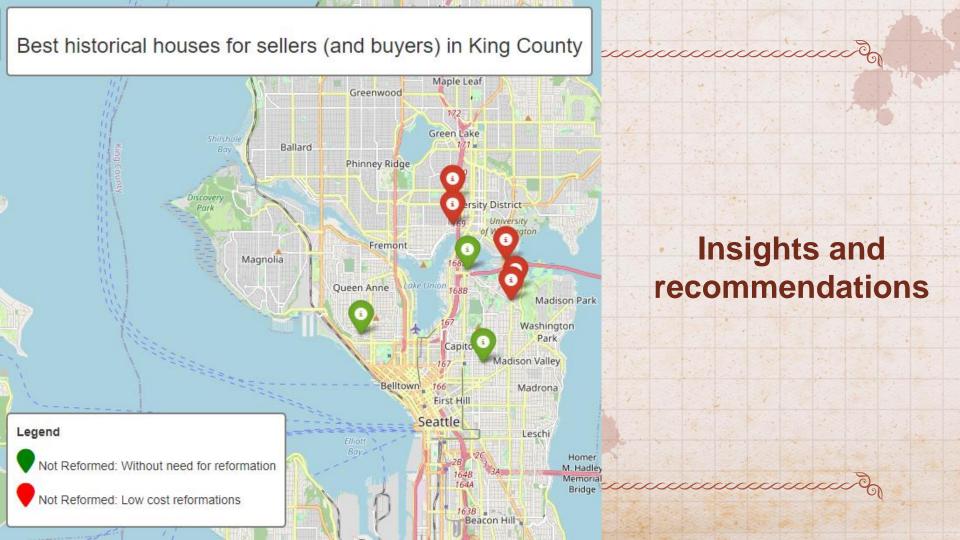


Insights and recommendations



• 8 historic hauses

- 5 with low cost reformations
- 3 Without need for reformation!



Insights and recommendations

Type of the historic hauses	Price	Bedrooms	Bathrooms	Sqft_living	Sqft_lot	Floors	Built year	zipcode	lat	long	id
Not Reformed: Low cost reformations	USD 575.000	3	2	2168	4000	1.5	1907	98105	476.561	-122.325	4206901155
Not Reformed: Low cost reformations	USD 585.000) 5	3	2350	4178	1.5	1922	98112	476.388	-122.3	8712100320
Not Reformed: Low cost reformations	USD 625.000) 4	2	2180	4431	1.5	1912	98112	47.636	-122.302	8722101370
Not Reformed: Low cost reformations	USD 685.000) 6	2	2770	5854	1.5	1921	98112	476.466	-122.304	5605000595
Not Reformed: Low cost reformations	USD 725.000) 6	2	2380	4080	2.0	1917	98105	476.629	-122.325	1890000225
Not Reformed: Without need for reformation	USD 675.000) 3	2	2510	3600	2.5	1907	98112	476.195	-122.313	6003001760
Not Reformed: Without need for reformation	USD 700.000	6	3	2790	4550	2.5	1907	98119	47.627	-122.361	3880900245
Not Reformed: Without need for reformation	USD 740.000) 4	2	2050	4400	1.5	1922	98102	47.644	-122.319	1959700550

- Kitchen remodel: \$20,000 to \$50,000
- Bathroom remodel: \$10,000 to \$25,000

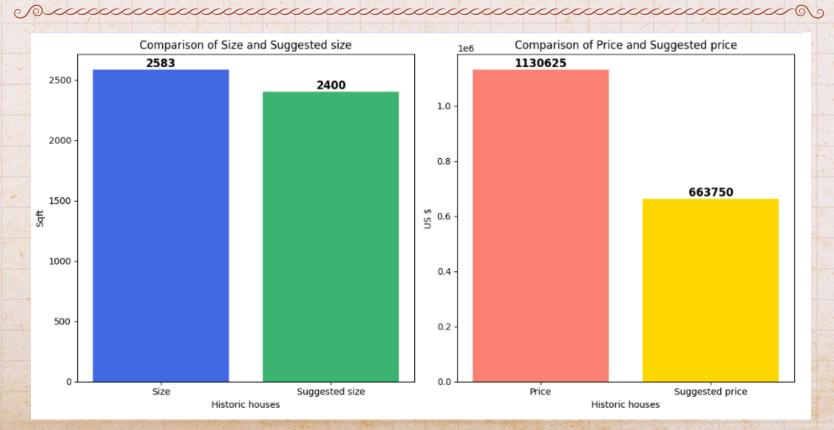
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- Interior painting: \$5,000 to \$10,000
- Flooring remodel: \$5,000 to \$10,000
- Electrical and plumbing system upgrades: \$10,000 to \$20,000
- Total average cost: US\$ 100.000 *
- * For houses in a worse average state of repair than those selected in this study

- Source: https://www.homebuilderdigest.com/

Average cost to remodel a 2500sqft house in Seattle

Insights and Recommendations





Thanks!

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