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# Data Science Housing Project

— by Maximilian Häusler —

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# Client: Jacob Phillips

Buyer

Specifications:

- Historic (<1965)
- 4+ Bathrooms or small house closeby with 4+ bathrooms
- Big lot for tennis, pool and golf (>150000sqft)
- No waterfront

# Hipotheses

1. House prices are dependent on the month of the year
2. The price/sqft is higher in populated areas
3. House condition correlates with the grade of the house

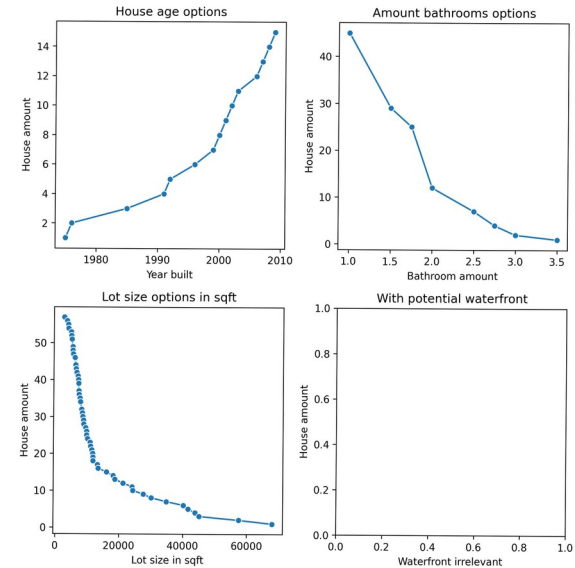
# Options without small house

Varying the specifications, we get the following options:

- The age has to be at least 10 years newer
- One of the bathrooms not full size
- Lot would not fit a golf court
- No more options with waterfront

Recommendation:

1 small size bathroom or built a small house directly on the property



# Options with small house closeby

Follow the link to see all options:

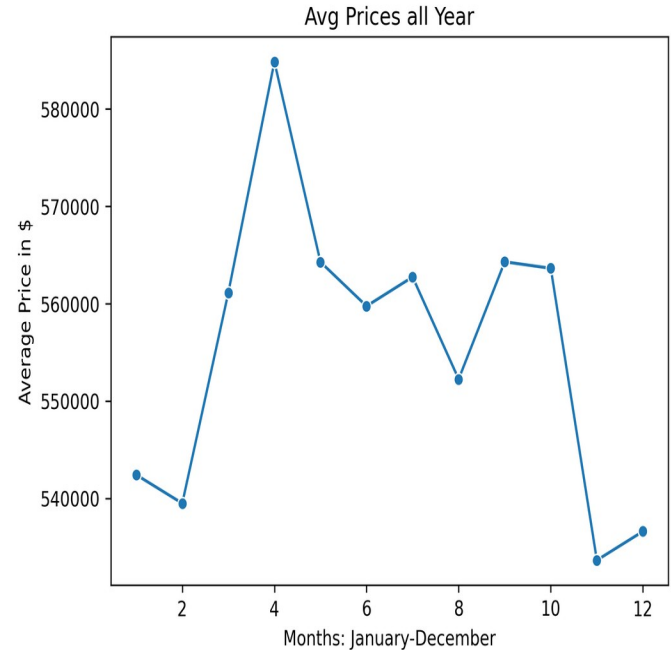
[/home/mahaeu/Exercises/Spiced\\_Projects/eda-housing-data/combined\\_map.html](/home/mahaeu/Exercises/Spiced_Projects/eda-housing-data/combined_map.html)

Choose freely and ask for more details

# 1. House prices are dependent on the month of the year

Avg house Prices over all houses:

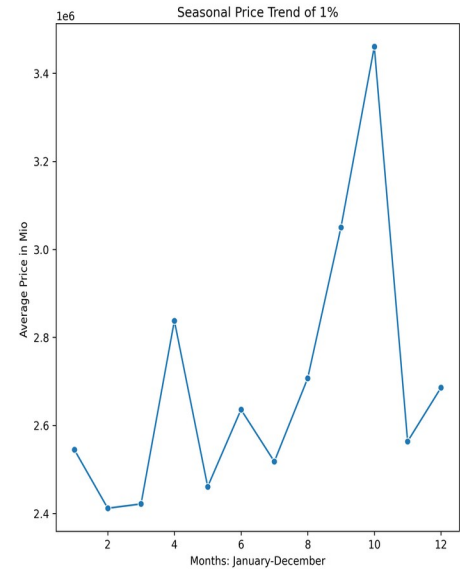
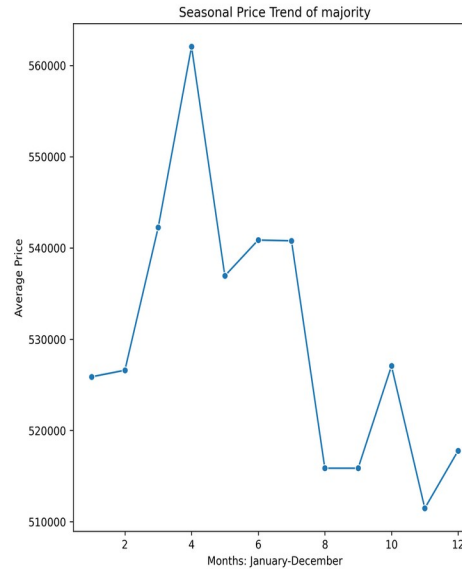
- Slight trend to high prices in spring and summer



# Luxury vs Avg house prices

High prices in May for avg houses

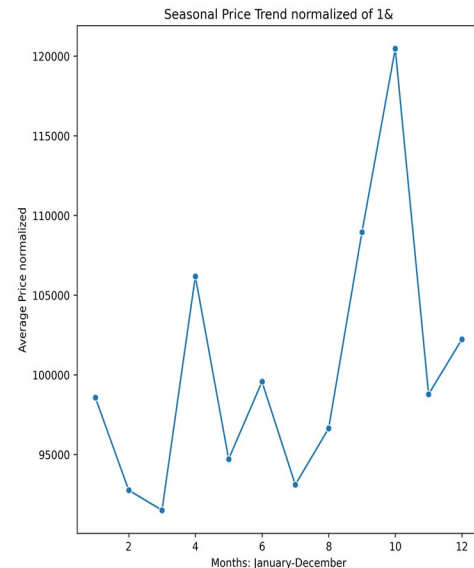
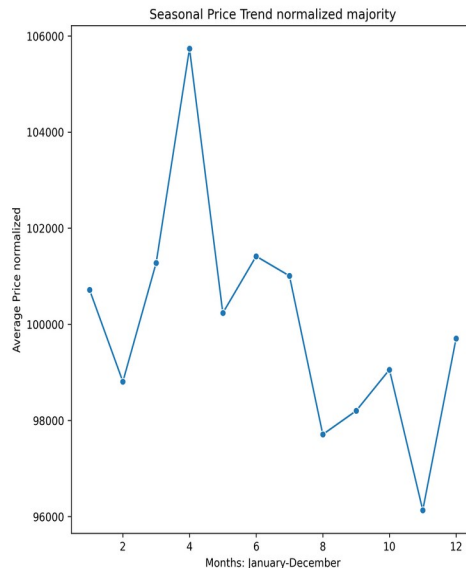
High prices in October for Luxury houses starting at ~2 Mio \$



# Luxury vs Avg house ratio

House prices normed to 100.000\$

Price fluctuations higher for luxury houses



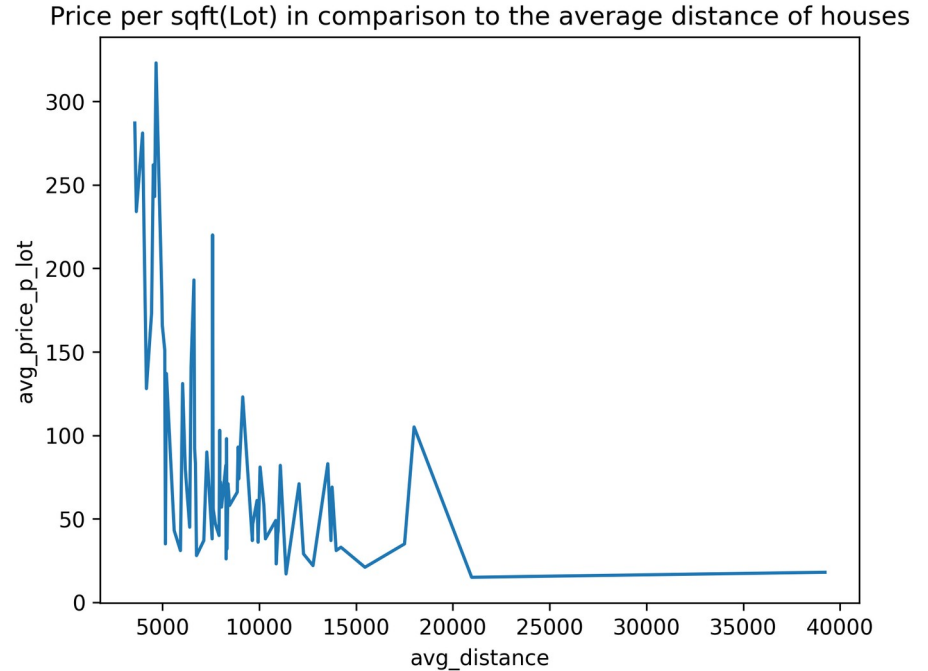


## 2. The price/sqft is higher in populated areas

- Comparison between the avg distance of houses in each zipcode
- The average price refers to the price per sqft of the lot and of the living area

# Price in comparison to lot size

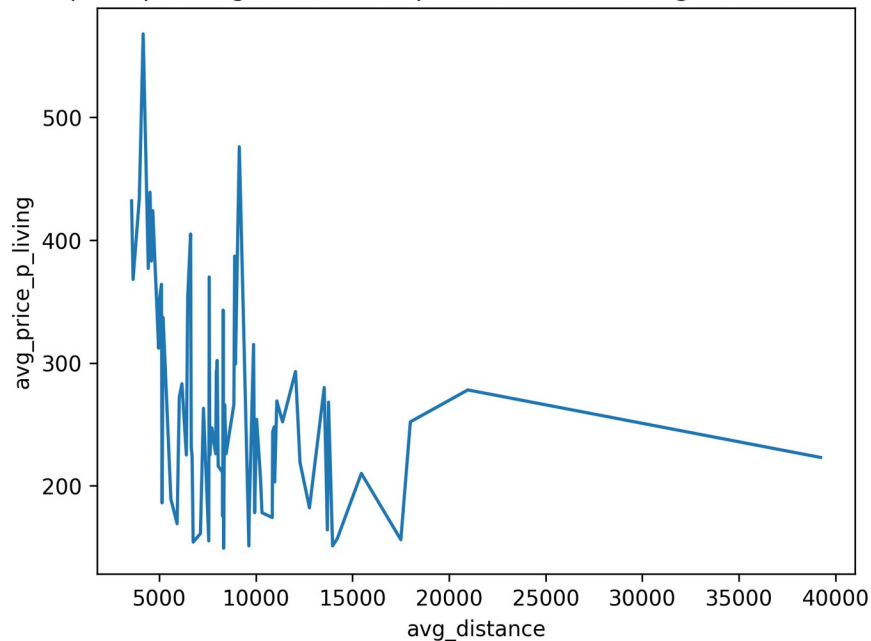
Trend for more expensive prize per ft<sup>2</sup> of lot in relation to the average distance of houses



# Price in comparison to living area

Similar trend for price per ft<sup>2</sup> living area

Price per sqft(living area) in comparison to the average distance of houses



### 3. Hose condition correlates with the grade of the house

The grade and condition of houses are

