An Analysis of the House Sales **Prices in King County**

for

Miss Amy Williams







Kevin Dietrich 2025-03-17

Getting Familiar with the Data Set ...

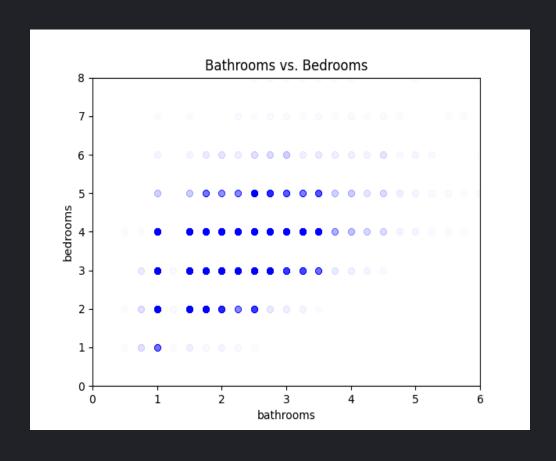
HYPOTHESIS #1

The more bathrooms, the more bedrooms.

Is it true???

The more bathrooms, the more bedrooms. (?)

YES!



[Correlation \approx 0.5]

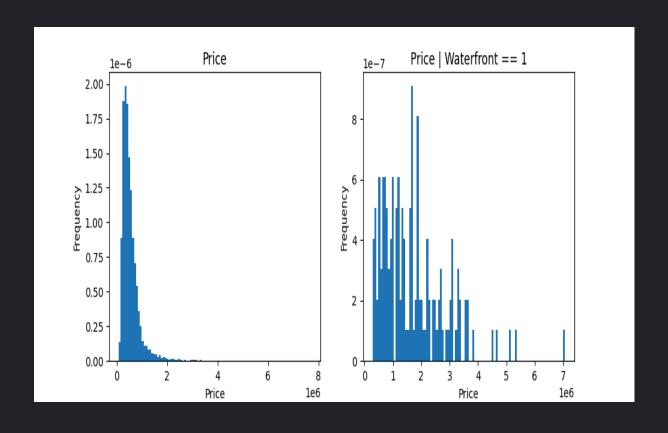
HYPOTHESIS #2

The presence of a waterfront affects the prize.

Is it true???

The presence of a waterfront affects the prize. (?)

YES!



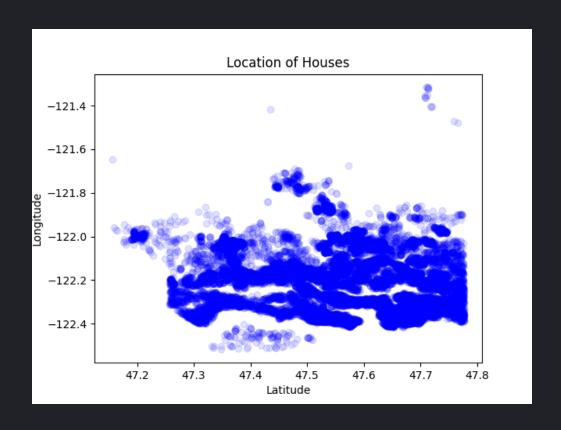
HYPOTHESIS #3

The latitude and the longitude of a house location do not affect each other.

Is it true???

The latitude and the longitude of a house location do not affect each other. (?)

Probably YES!



[Correlation pprox -0.1]

Our Client

Amy Williams, Seller, Mafiosa businesswoman by trade, sells several central houses (top 10%) over time, needs average outskirt houses over time to hide from the FBI avoid entanglements with the FBI.

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⇒ How to define ...

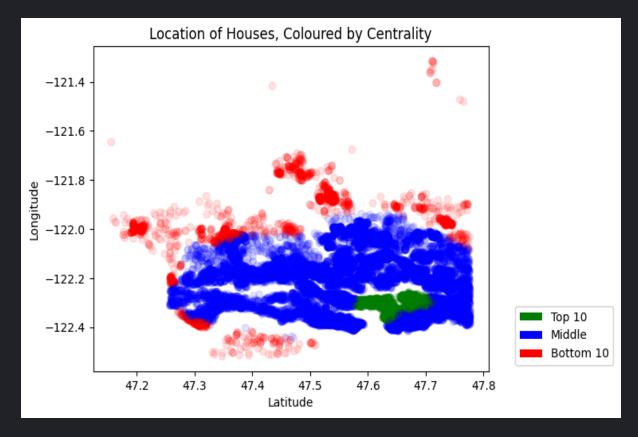
- (top 10%) centrality?
- exceptionality (on the outskirts)?
- "privacy" (on the outskirts)?

How to define ...

- (top 10%) centrality?
- exceptionality (on the outskirts)?
- "privacy" (on the outskirts)?

(Top 10%) Centrality?

Take the number of neighbours in a vicinity of fixed size!



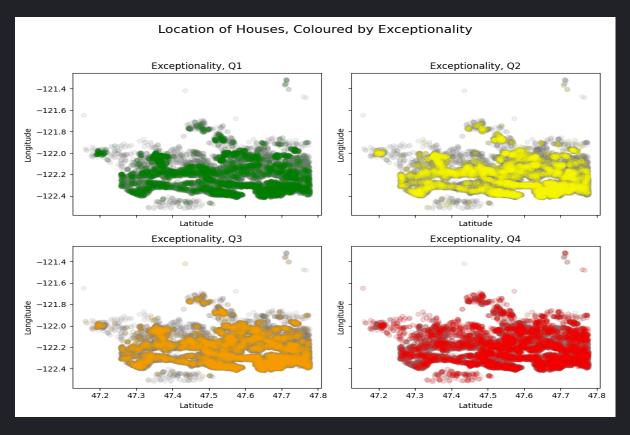
⇒ Sell "green" and buy "red" houses!

How to define ...

- (top 10%) centrality?
- exceptionality (on the outskirts)?
- "privacy" (on the outskirts)?

Exceptionality?

A house becomes more exceptional the more it differs from its immediate neighbours in terms of living space and lot size!



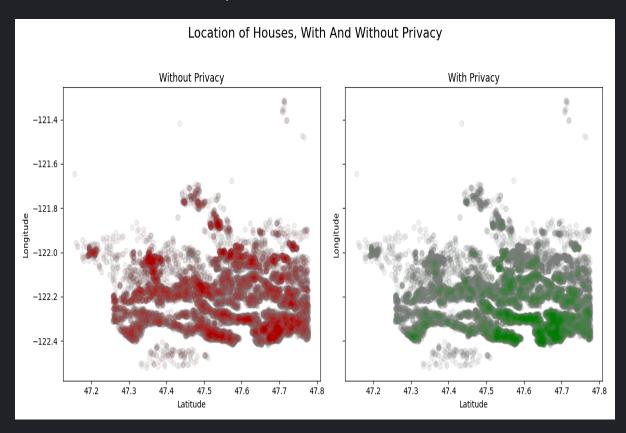
⇒ Avoid regions indicated by the cursor!

How to define ...

- (top 10%) centrality?
- exceptionality (on the outskirts)?
- "privacy" (on the outskirts)?

Privacy

Take the presence of a basement!



⇒ Avoid regions indicated by the cursor!

The End