

# EDA Analysis

**Old is the New.... New?**

Mauricio - 2025-09-26

21,597 houses.

3 questions.

1 strategy.

### **Hypothesis 1 - Renovation impact on price**

Old homes that have been renovated sell at significantly higher prices than comparable non-renovated homes.

### **Hypothesis 2: Seasonality in sale prices**

Homes sold in peak real estate months (say for example May–July?) achieve higher average prices than those sold in off-peak months (say for example November–January?)

### **Hypothesis 3: Neighbourhood density and price**

Old homes that have not being renovated can be bought at lower price than comparable new properties

# Zachary Brooks

Invests in historical houses.

Wants high profits in the best neighbourhoods.

Best timing within a year.

Unsure about renovation.

# Does renovation pay?

Hypothesis: Old homes ( $\text{yr\_built} > 50?$ ) that have been renovated ( $\text{yr\_renovated} > 0$ ) sell at significantly higher prices than comparable non-renovated homes.

Yes!

## **MARKET OPPORTUNITY**

Total old houses ( $\geq 50$  years): 8,657

Already renovated: 642 (7.4%)

NOT renovated: 8,015 (92.6%)

8,015 non-renovated old properties available.

# **MARKET OPPORTUNITY**

*Average Price - Renovated: \$756,702*

*Average Price - Non-renovated: \$496,635*

*Premium for renovation: \$260,066 (+52.4%)*



# When should one time sales and renovations?

Homes sold in peak real estate months (May-July) achieve higher average prices than those sold in off-peak months (November-January)

Renovate in Nov-Jan

Sell May-Jul



# **MARKET ACTIVITY BY SEASON**

**Shoulder Season: 10,937 sales (50.6%)**

**Peak (May-Jul): 6,803 sales (31.5%)**

**Off-Peak (Nov-Jan): 3,857 sales (17.9%)**

# SEASONAL PRICING ANALYSIS

Peak Season Average: \$551,054

Off-Peak Average: \$524,204

Shoulder Season Average: \$539,281

**Seasonal advantage**

**\$26,850 (+5.1%)**

# **MARKET VELOCITY**

Peak months avg volume: 2268 sales/month

Off-peak months avg volume: 1286 sales/month

# Dense areas are cheaper for buying old houses

Hypothesis: Old homes ( $\geq 50$  years) in highly dense areas can be bought at lower prices than comparable new properties

No!



# **MARKET SEGMENTATION**

**Total properties in dense areas: 5,400**

**Old properties in dense areas: 1,439**

**New properties in dense areas: 3,961**

# DENSITY PRICING ANALYSIS

Old houses in dense areas: \$783,336

New houses in dense areas: \$591,16

Old houses cost \$192,175 more (+32.5%)  
That's not a bargain

Buy, renovate, profit.

Consider season.

Don't buy in dense areas

Thanks!

