tlo Intro

Introduction Housing Trends Over the Past 40 Years

Housing Price Index and Price Trends Po..

Housing Price Index VS Office Price Inde..

Housing Price Map

Housing Price Gap
Between Districts

House Prices and Weekly Earnings

Public Expenditure
Over the Years

Trends During Key
Points in History

Relation ship Be..



Housing Trends Over Housing Price Gap House Prices and Title Introduction Housing Price Index Housing Price Index Housing Price Map Public Expenditure Trends During Key the Past 40 Years and Price Trends Po.. VS Office Price Inde.. Between Districts Weekly Earnings Over the Years Points in History ship Be..

Overview:

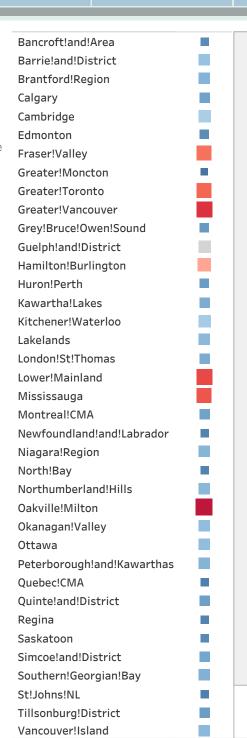
- Project focuses on the Canadian housing market and looking at past trends
- Data set consists of real estate prices, real estate project statuses, housing price index, consumer price index and weekly earnings

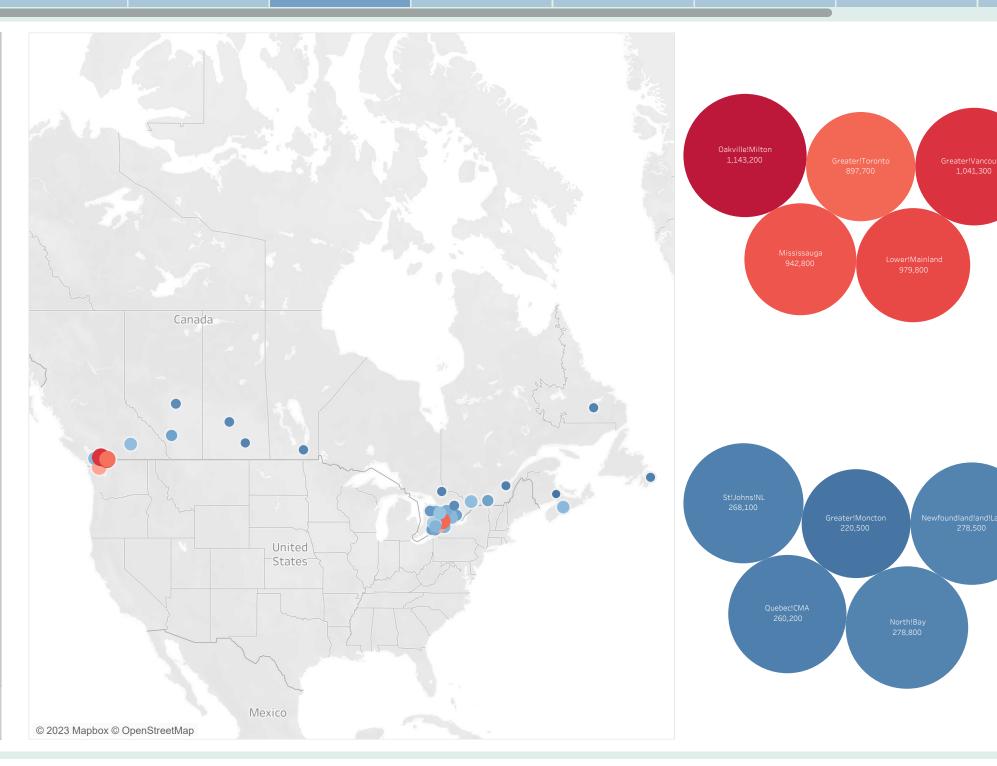
Goals:

- Explore the six different datasets in the form of visualizations
- Observe trends, patterns, etc. to form an understanding of the housing market
- Utilize the visualizations to answer the following:
- Housing price trends over the past 40 years
- Housing price index VS benchmark prices after 2005
- Housing prices VS office prices
- Heat map of Canada with current housing prices
- Price difference trend between different districts
- House prices VS weekly earnings
- Consumer spending in 2001 VS 2014
- Effect of economic crises over earnings, house prices, office prices, house constructions, consumer spending
- Relationship between consumer index and house price index
- Outlier exploration

Observations:

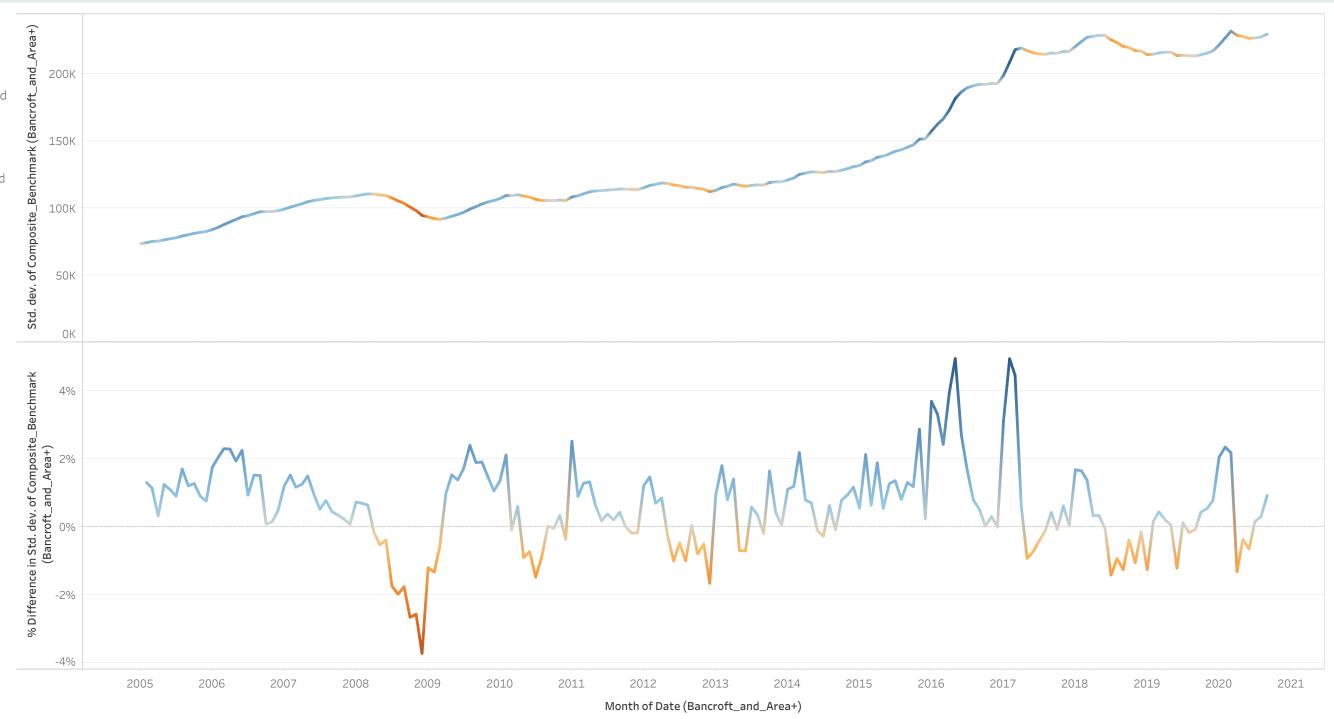
- Most of regions with expensive homes in 2020 tended to be concentrated in two main areas (around the southwest corner of BC and southern Ontario)
- Most of the regions with more affordable housing in 2020 were more spread out in the eastern part of Canada
- The gap between most expensive region and least expensive region was nearly \$900,000!





Observations:

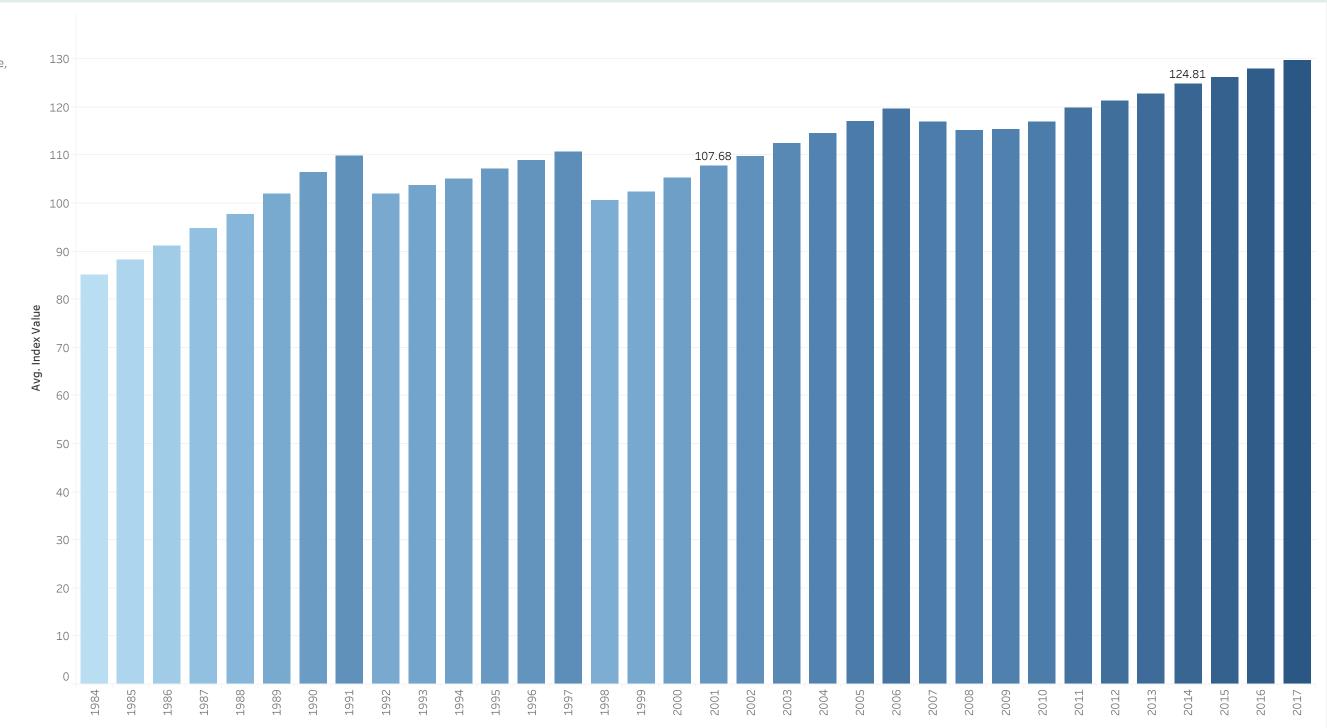
- The price differences between districts increased at a slow and steady rate prior to 2015
- One moderate period of decrease that lasted from 2008 to 2009
- Two sharp increases occured, once in 2016 and once in 2017

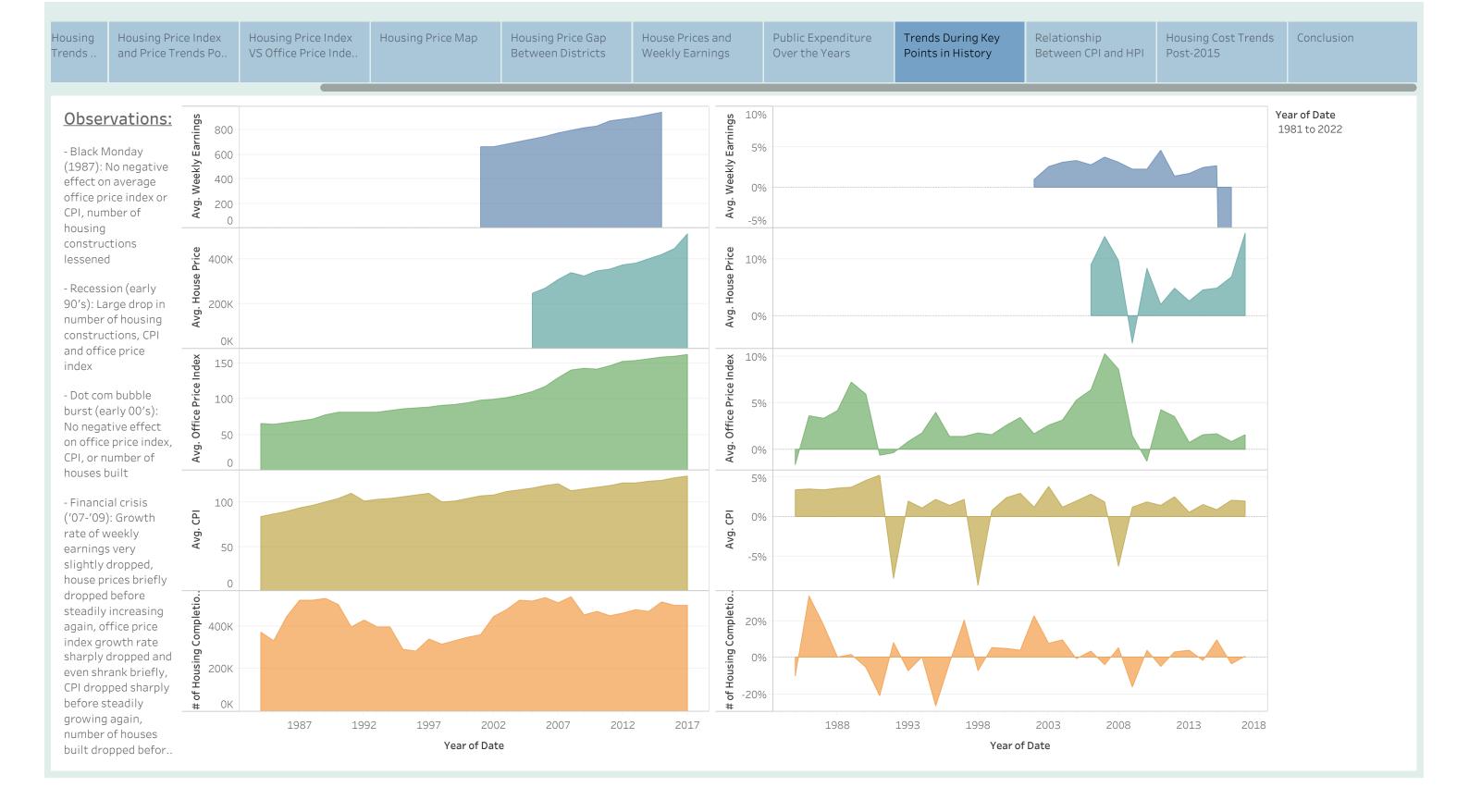


Housing Price Index Housing Price Index Housing Price Map Housing Price Gap House Prices and Public Expenditure Trends During Key Relationship Housing Cost Trends Housing Conclusion and Price Trends Po.. VS Office Price Inde.. Between Districts Between CPI and HPI Post-2015 Trends. Weekly Earnings Over the Years Points in History

Observations:

- CPI increased over time, with some dips
- CPI of 2014 is roughly 16% higher than 2001's CPI





Housing Price Index Housing Price Gap Public Expenditure Housing Cost Trends Housing Housing Price Index Housing Price Map House Prices and Trends During Key Relationship Post-2015 and Price Trends Po.. VS Office Price Inde.. Between Districts Weekly Earnings Over the Years Points in History Between CPI and HPI Trends.

1400K Date (Bancroft_and_Area+) **Observations:** Avg. Composite_Benchm.. 2020-09-01 Greater!Toronto Avg. Home Price 1,200,000 100,000 - Certain periods of 1200K very steep increases Greater!Toronto 1000K - 5 most expensive at Greater!Vancouver the end are Oakville. -5% Lower!Mainland GTA, Mississauga, Avg. Home Price Mississauga 800K Vancouver, and the Avg. Home Price Oakville!Milton lower mainland area in BC Date 600K 2015-01-01 to 2022-12-01 - The end of the dip in home prices over the 400K west coast (at the end -5% of 2016) almost coincides with the Lower!Mainland Avg. Home Price sharp increase in prices over in southern Ontario - In 2017, home prices in the west coast 10% -5% started rising again, while they dropped in Avg. Home Price Avg. Home Price 5% Southern Ontario Mississauga - After 2018, prices in these five regions changed (both -5% increased and -5% decreased) at a lower rate than the previous Fraser!Valley Greater!Moncton Greater!Toronto Brantford!Region Calgary Cambridge Winnipeg Avg. Home Price Bancroft!and!Area ndon!St!Thomas Lower!Mainland 5% Barrie!and!District Kawartha!Lakes Kitchener!Waterloc Quebec!CMA St!Johns!NL Tillsonburg!District Edmontor Northumberland!Hills Peterborough!and!Kawarthas Quinte!and!District Simcoe!and!District **Noodstock!Ingersol** Oakville!Milton Montreal!CM/ Hamilton!Burlingtor Lakeland Oakville!Miltor years Greater!Vancouve Grey!Bruce!Owen!Soun Guelph!and!Distric d!and!Labrad -5%

Conclusion

2016

2018

Month of Date (Bancroft_and_Area+)

2020

Key Takeaways:

- The cost of home ownership has steadily increased in the last 40 years
- There were brief drops in home prices during certain key points in history (such as the recession in the early 90's and in 2008)
- While earnings have also been steadily increasing, it is at a lower rate than that of the increase in house prices
- The price differences between regions widened at a greater rate after 2015, with large increases in home prices in the Southwestern BC area and Southern Ontario area
- Further investigation into this cause is to be continued...

Conclusion:

- For prospective homeowners, the situation is more difficult than it was years ago as the rate at which housing prices are increasing are greater than that of earnings
- Real estate investors or homeowners that bought homes decades ago have made great returns on investment if they sold within the last few years