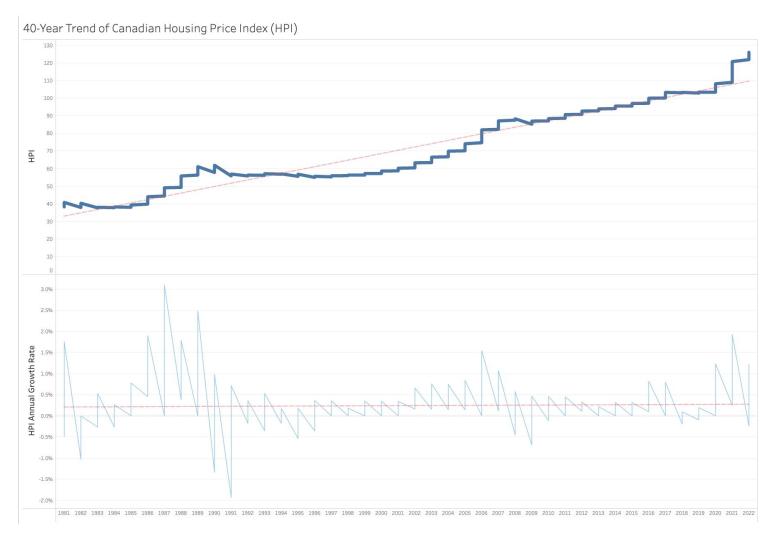
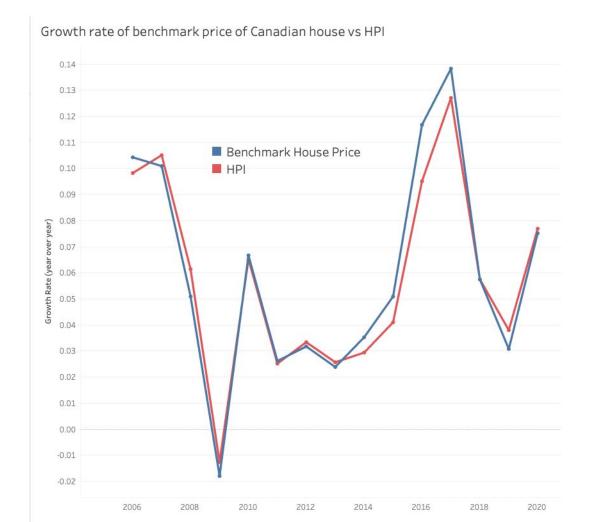
The Canadian Housing Market

A Visual Analysis Autopsy

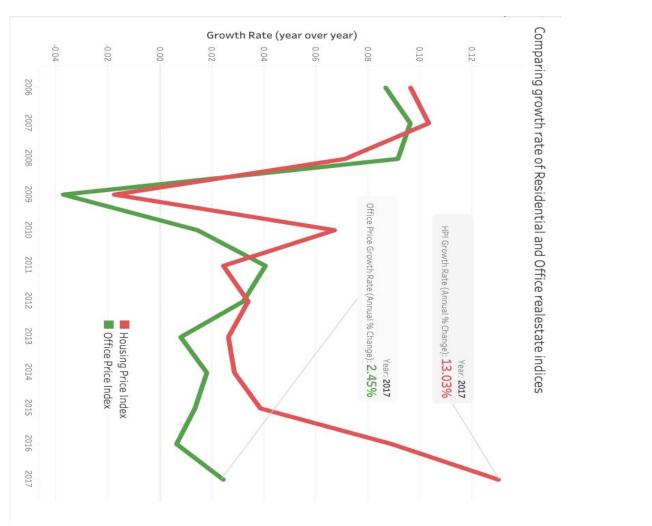
How has the Housing Price Index (HPI) trended in the last 40 years?



How does HPI compare with benchmark housing prices?



How do office price trends compare to housing prices?



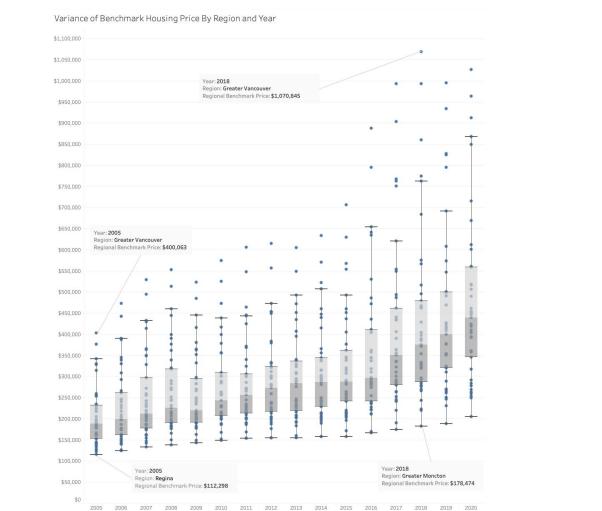
Are there disparities in housing costs between regions? (IOI)

Heatmap of Benchmark Housing Prices By Region and Year

\$114,975 \$1,101,700 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 Greater Vancouver Oakville Milton 733 23 Lower Mainland Fraser Valley Mississauga Greater Toronto Victoria 200 Aggregate Calgary 73 Hamilton Burlington Okanagan Valley 96 **Guelph and District** Vancouver Island 20 73 20 Barrie and District Ottawa Cambridge Kitchener Waterloo Edmonton Montreal CMA Saskatoon Northumberland Hills Peterborough and Kawart... 100 100 100 Lakelands Southern Georgian Bay Bratford Region Niagara Region 100 100 Kawartha Lakes Regina St Johns NL London St Thomas 100 Newfoundland and Labra.. Woodstock Ingersoll Simcoe and District **Huron Perth** Winnipeg Grey Bruce Owen Sound Quinte District Quebec CMA North Bay Tillsonburg District Bancroft and Area

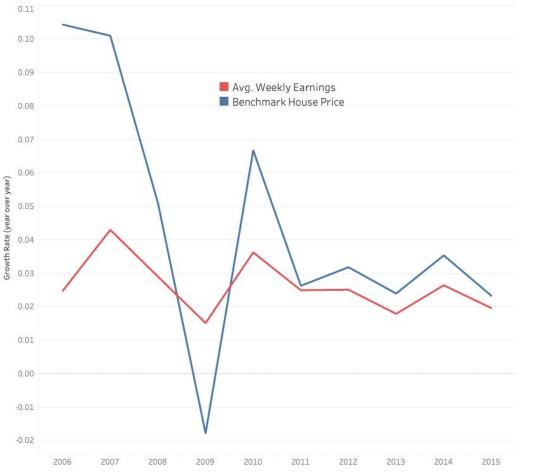
Greater Moncton

How is regional price disparity trending?



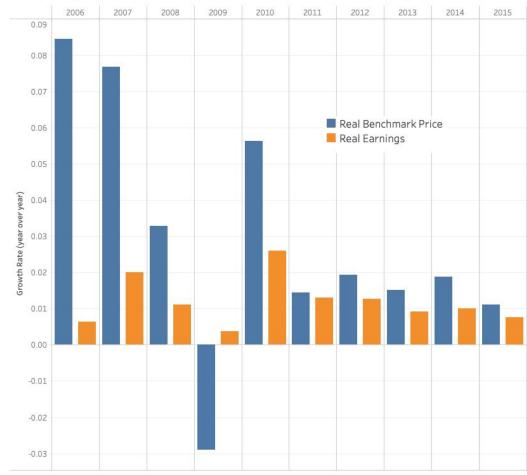
How do trends in earnings compare to housing costs?

Growth Rate of Benchmark Housing Price vs Weekly Earnings (National annual averages)



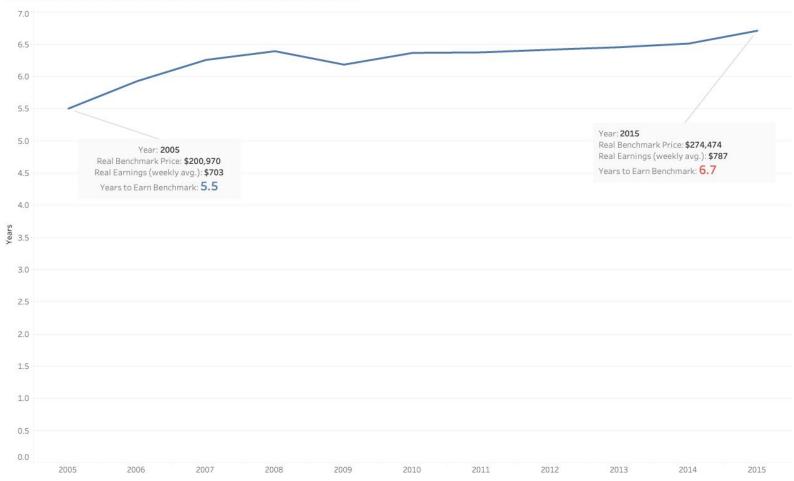
Does the trend hold when adjusted for inflation?

Comparing Growth Rates of Real Benchmark Price and Real Earnings



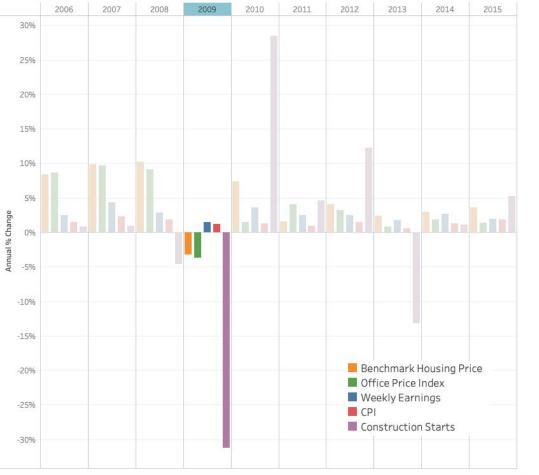
Are people spending more of their earnings now than a decade ago?

Years to Earn Benchmark Home Price (based on weekly average earnings)

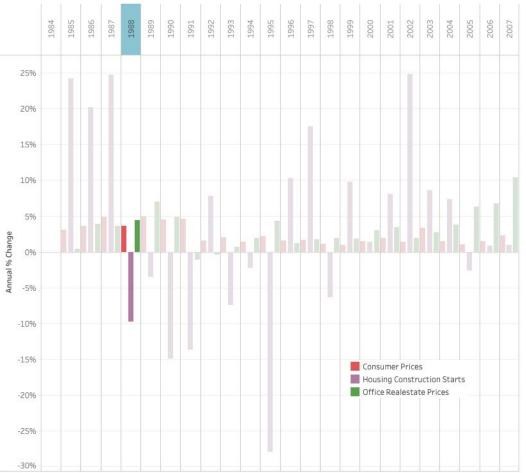


Can we see any recent economic crises reflected in the data?

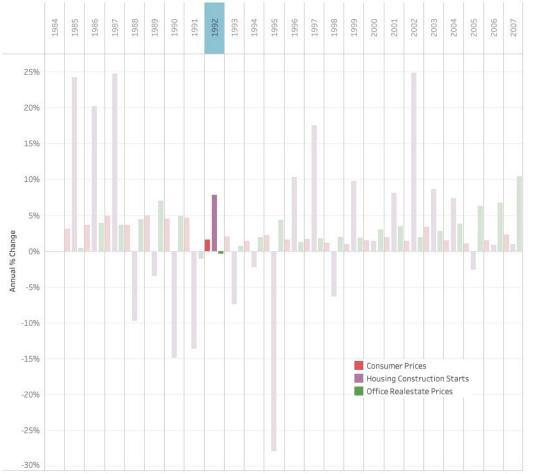
Visualizing the 2009 Financial Crisis' Impact on Growth Rate of Key Metrics



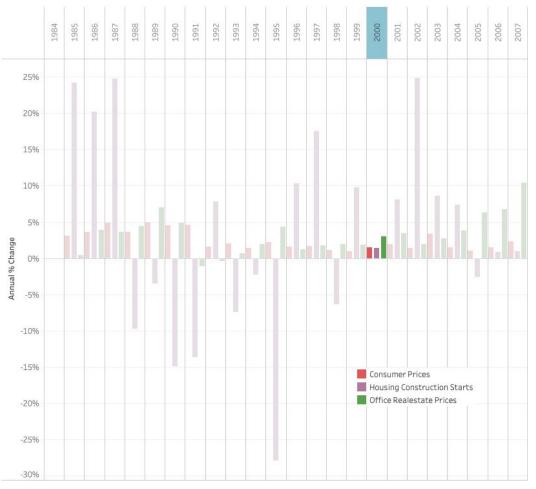
Effect of 1987 Stock Market Crash on Key Metrics



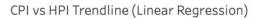
Effect of 90-92 Recession on Key Metrics

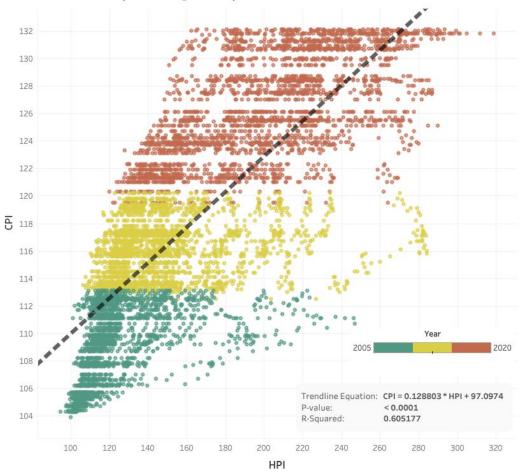


Effect of Dotcom Crash (2000) on Key Metrics

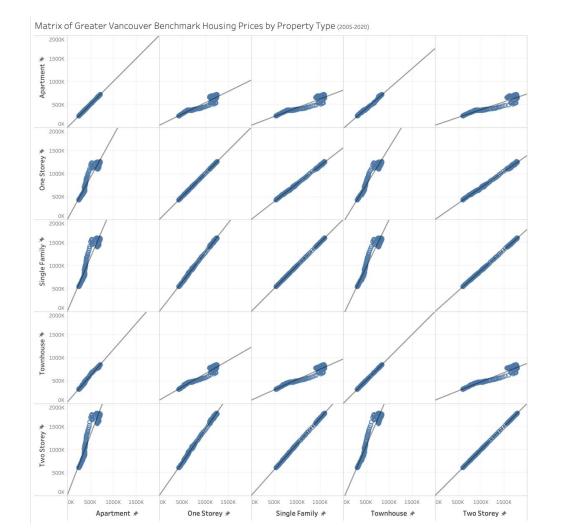


Can we use HPI to predict
Consumer Price Index (CPI)?





How does price-growth differ between housing categories?



Thanks for watching! ^_^

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