
Data Visualization and Dashboards with Tableau

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Description / Main goal:

To generate visualizations using the given data, identify patterns, present data and give suggestions.

My goal:

At least complete the project by utilizing fundamental knowledge, without perfection, but showing a basic understanding of the subject

Preparation

Preparing datasets for use

Challenges:

- 1) Converting Json file
- 2) Wrong house_price_index file
- 3) Correcting cities for heatmap

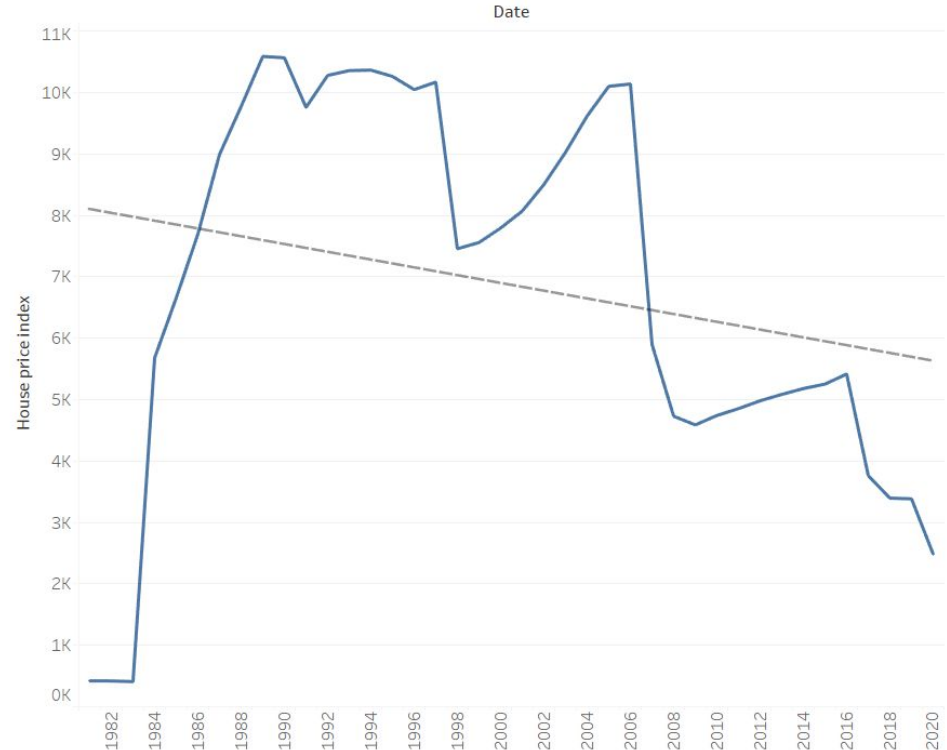
Visuals and results

Created a graph for house prices and trend line for it

The trend indicates a reduction in house prices

Seems too optimistic

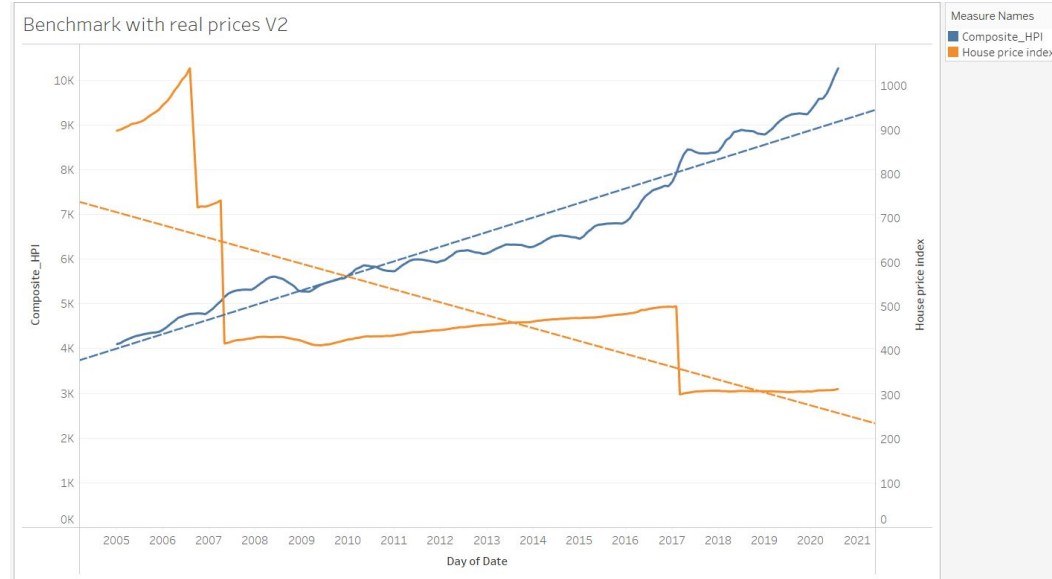
Trend of house prices V2



Visuals and results

**Compared the trend after 2005 with
actual benchmark prices in table
real_estate_prices**

**Predictions are exactly opposite:
instead of house price drop the
continuously increase**

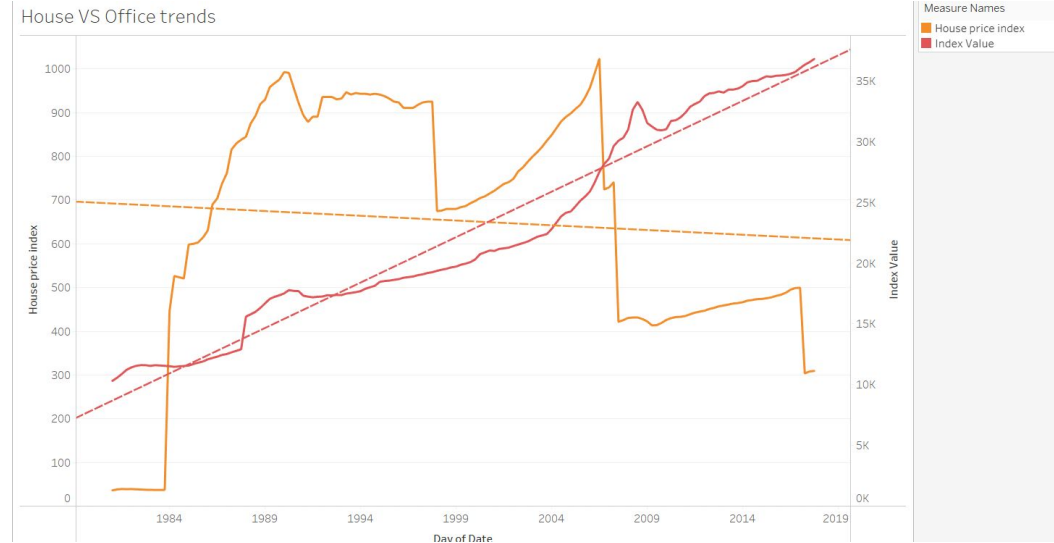


Visuals and results

Compared houses trend with the trend of office prices.

Office costs are rising as housing prices slightly decline.

Probably investors buying offices considering it as a stable asset.

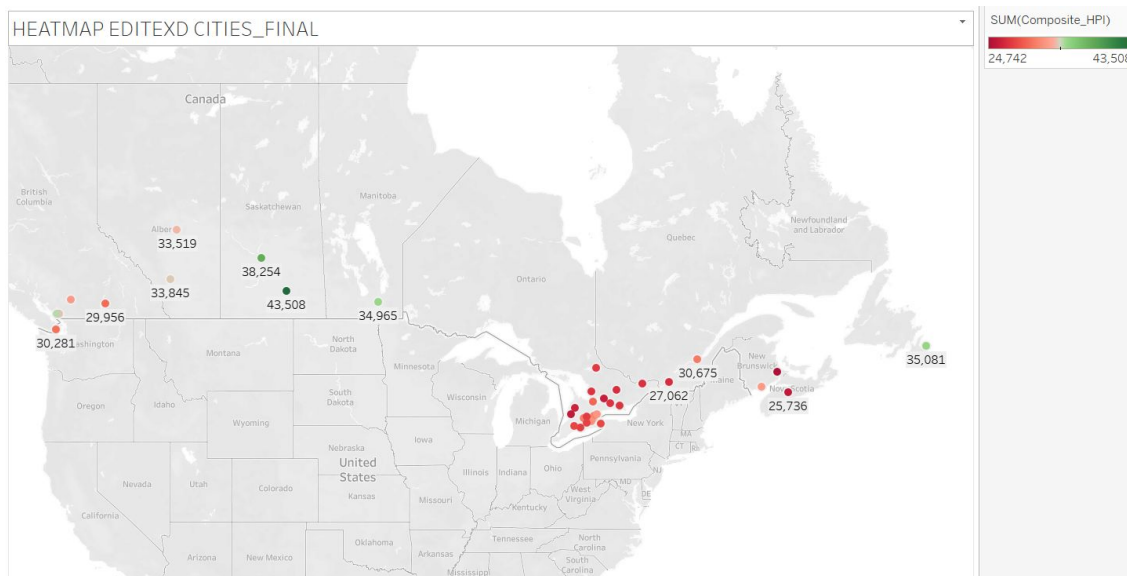


Visuals and results

Created a heatmap of Canada with current house prices for each available district.

Houses in prairies are more expensive than houses in west and east costs: which is definitely wrong.

To be investigated



Visuals and results

Compared the trend of house prices with earnings.

While house prices constantly go down the earning constantly go up.



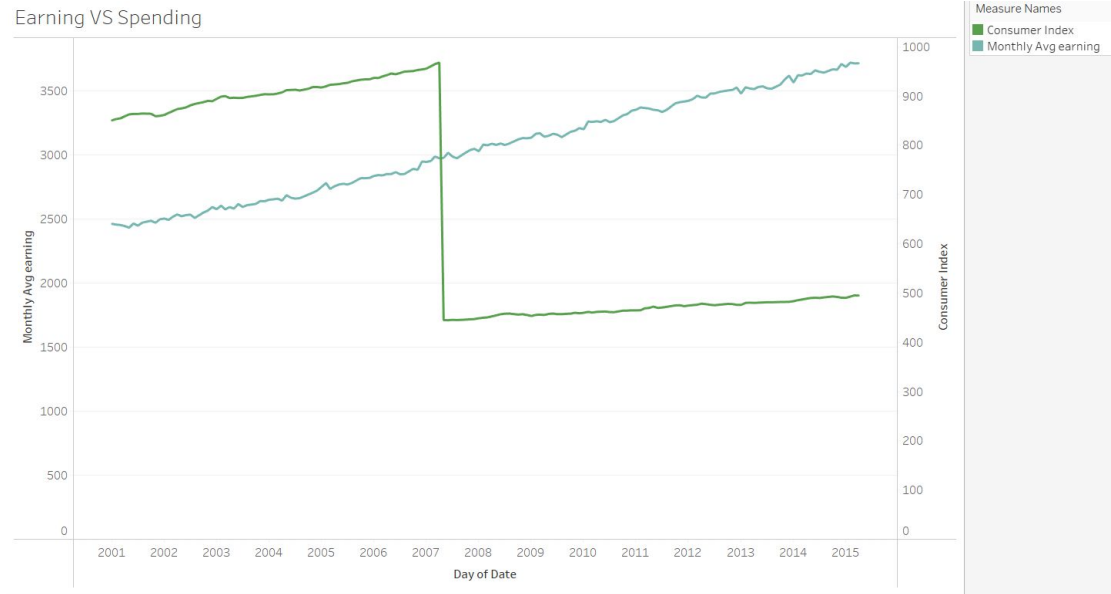
Visuals and results

Did people spend more of their earnings in 2014 than they did in 2001?

People start spend approximately twice less after 2006

**New behavior after financial crisis
2007-2009**

Earning VS Spending

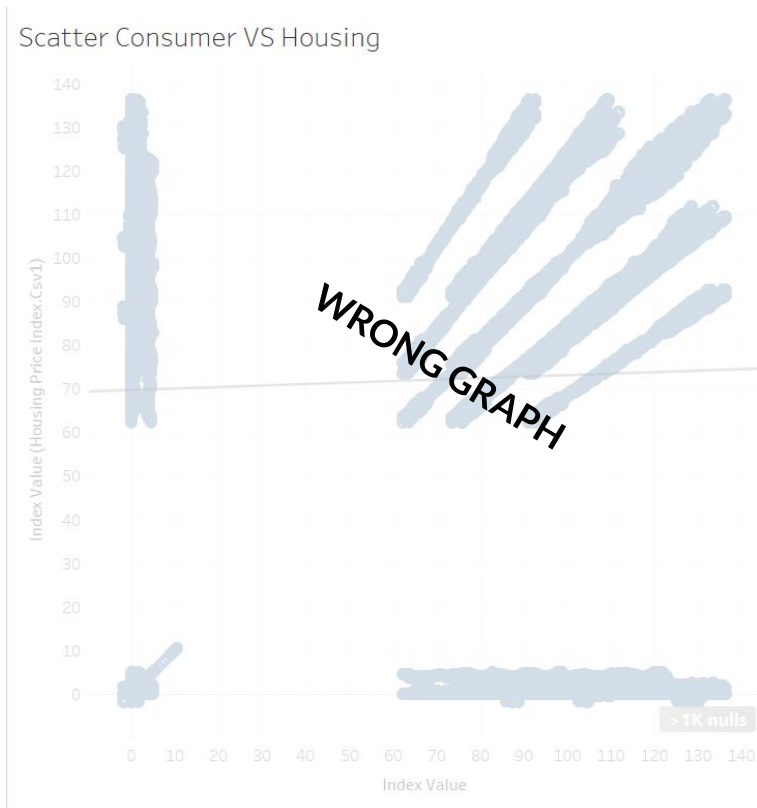


Visuals and results

Regression model for customer and house indices.

Didn't finish :

Still have bug when want to switch from measures to dimensions



Future goals

Practice, practice, practice...

Thank you!