



# DATA VISUALIZATION AND DASHBOARDS WITH TABLEAU

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Data Analytics, Lighthouse Labs

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# Project Flow Structure



Getting data ready to analyze (discover, clean, make relationships, joins etc.)



Visualization & Analysis of the data:

Comparing trends

Analyzing effect of  
world crises on our  
data

Building regression  
model

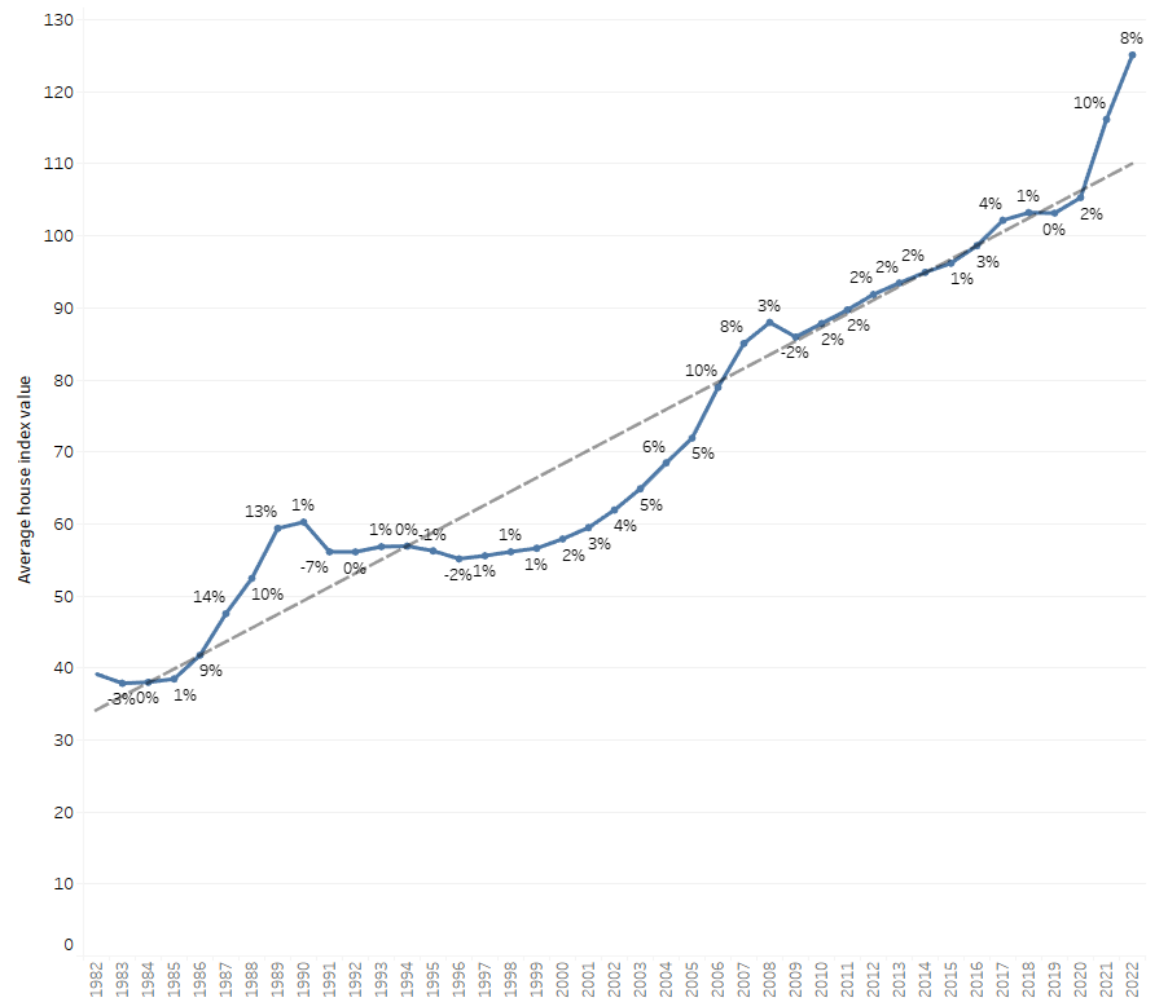


Improving visualization charts

# VISUALIZATION & ANALYSIS OF THE DATA:



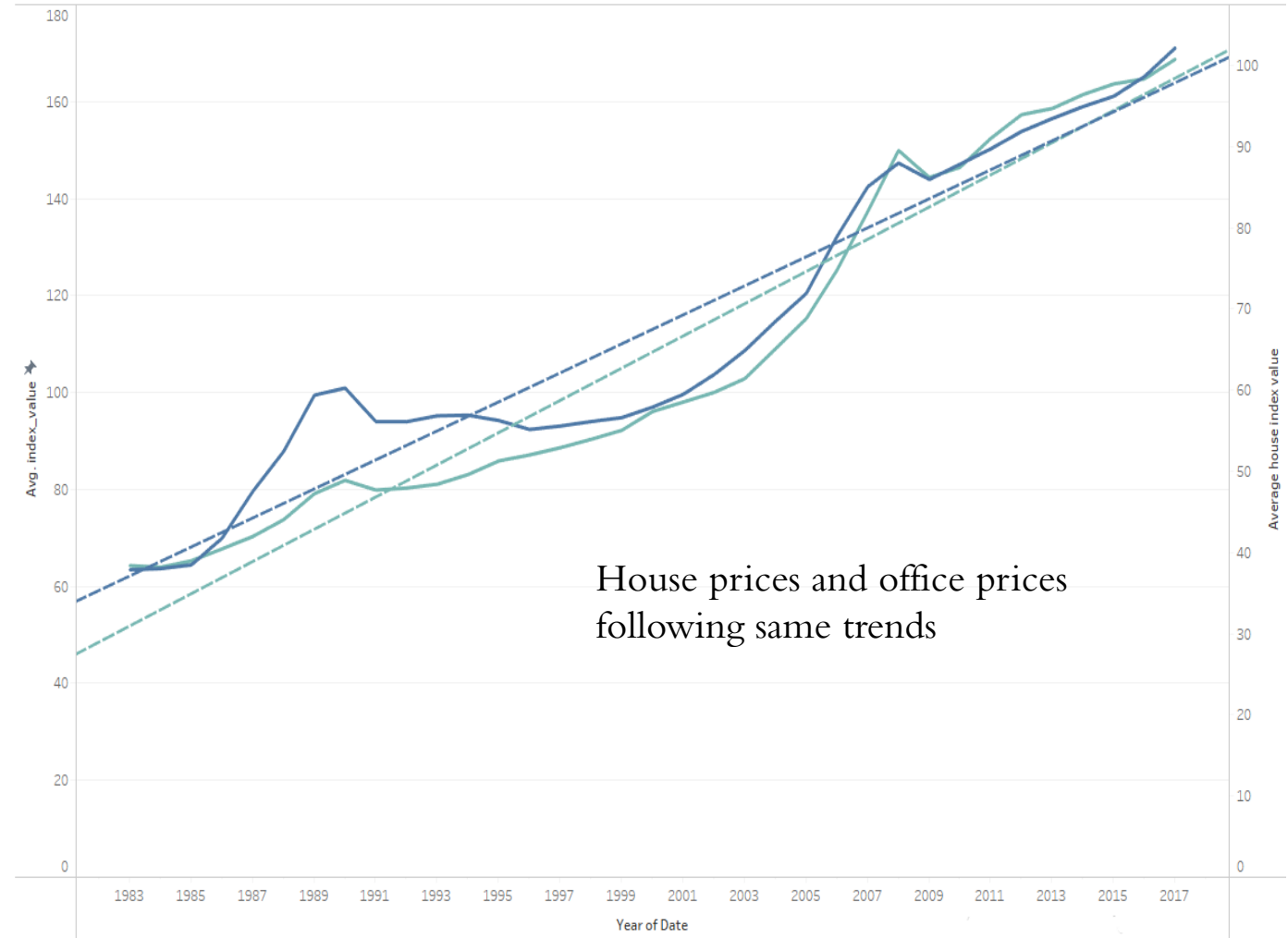
Trend of house index in the last 40 years



# VISUALIZATION & ANALYSIS OF THE DATA:



Comparing house index (blue) with office index (green)



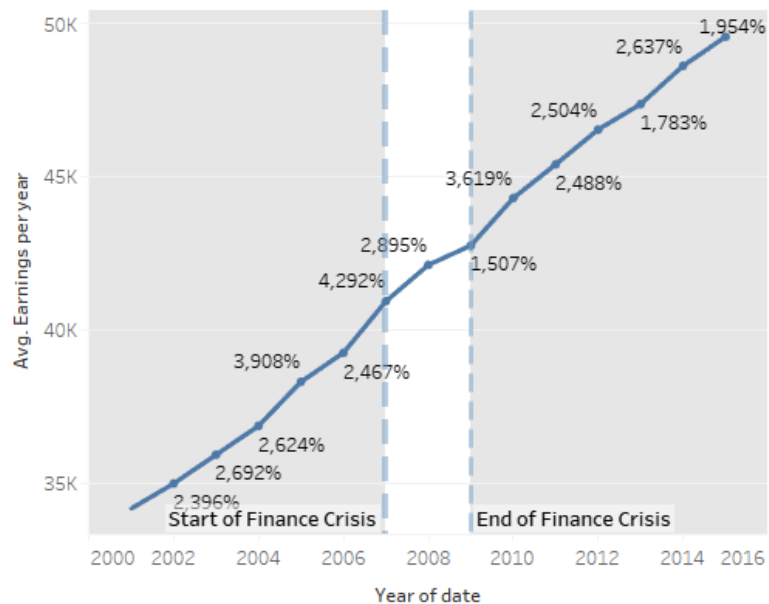
# VISUALIZATION & ANALYSIS OF THE DATA:



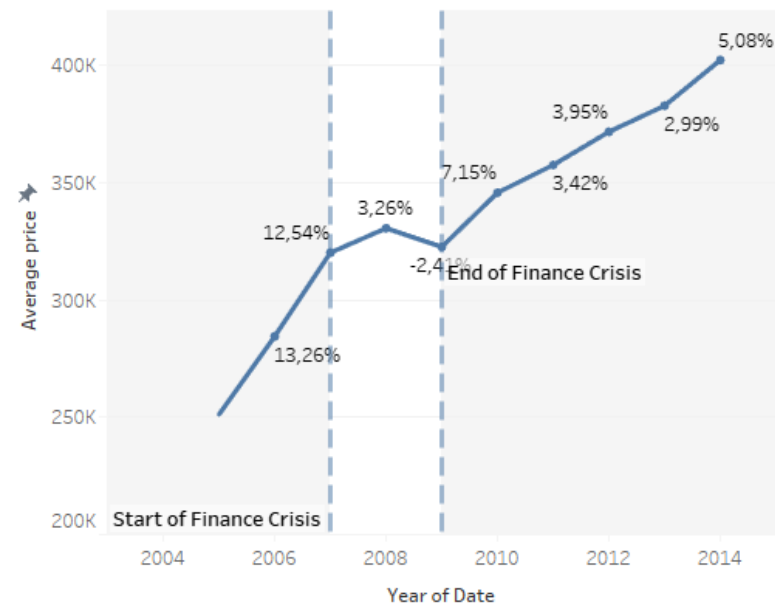
## Heatmap of Canada with current house prices

Cities and regions	
Brantford_Region	24
Calgary	9
Cambridge	14
Edmonton	15
Fraser_Valley	5
Greater_Moncton	30
Greater_Toronto	7
Greater_Vancouver	1
Grey_Bruce_Owen_Sound	29
Guelph_and_District	11
Hamilton_Burlington	10
Huron_Perth	.
Kawartha_Lakes	.
Kitchener_Waterloo	17
Lakelands	.
London_St_Thomas	26
Lower_Mainland	2
Mississauga	4
Montreal_CMA	18
Newfoundland_and_Labrador	25
Niagara_Region	22
North_Bay	.
Northumberland_Hills	.
Oakville_Milton	3
Okanagan_Valley	8
Ottawa	13
Peterborough_and_Kawartha	.
Quebec_CMA	27
Quinte_and_District	.
Regina	21
Saskatoon	19
Simcoe_and_District	.
Southern_Georgian_Bay	20
St_Johns_NL	23
Tillsonburg_District	.
Vancouver_Island	12
Victoria	6

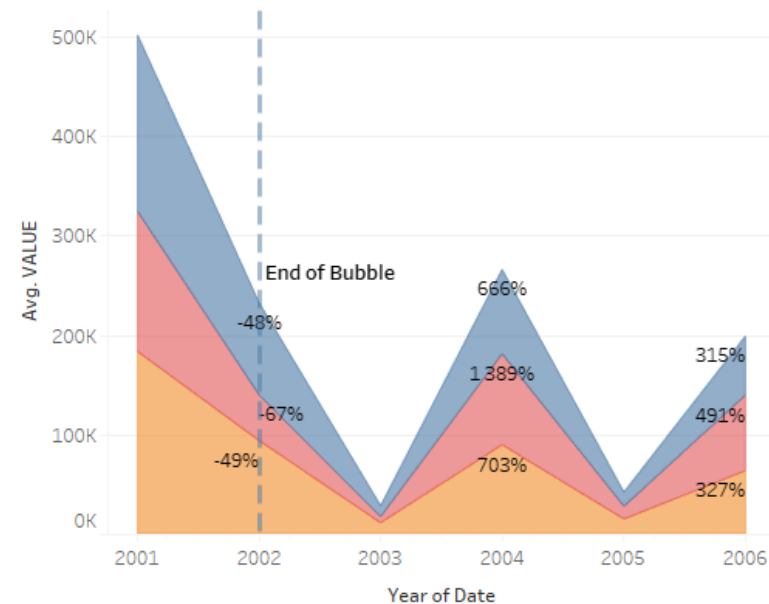
### Effect of economic crisis on earnings



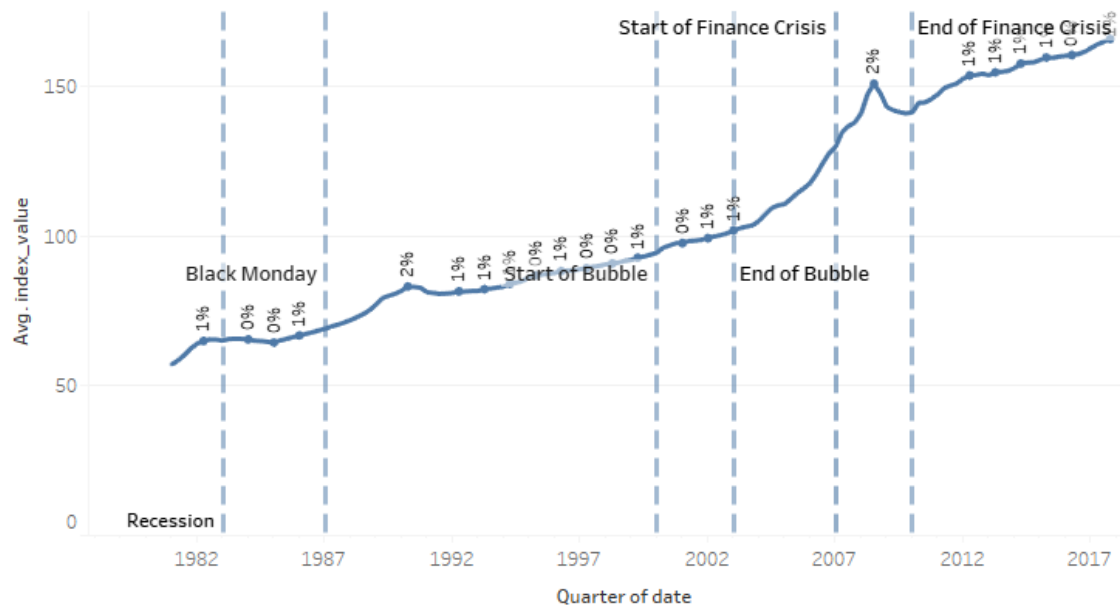
### Effect of economic crisis on house prices



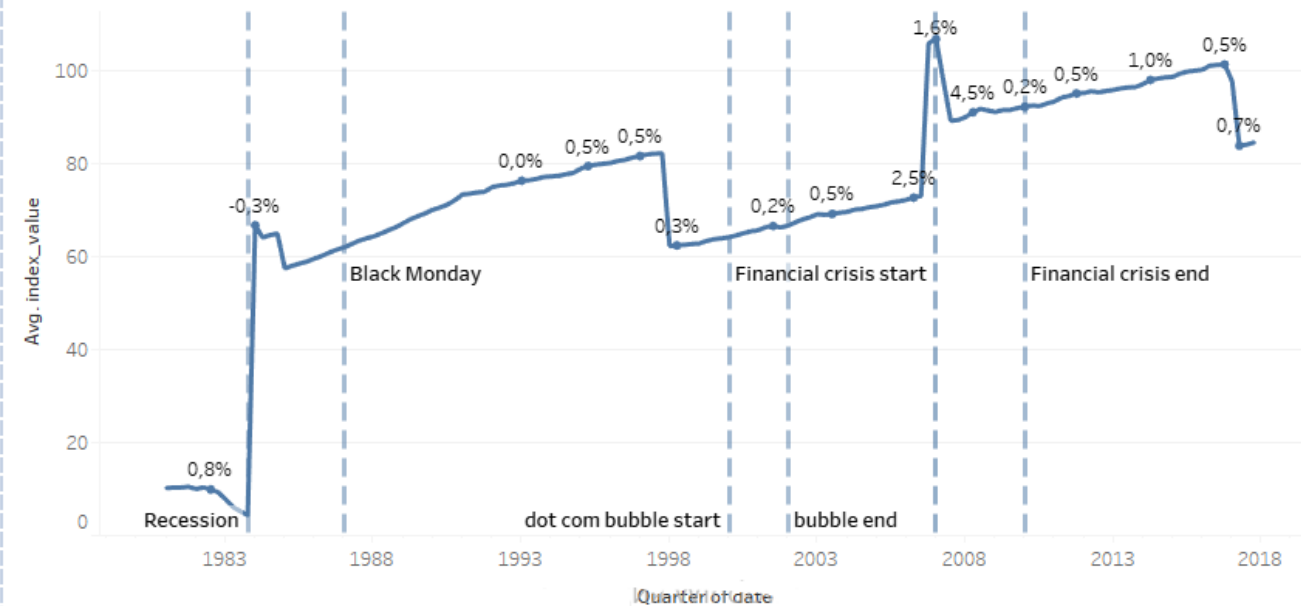
### Effect of crisis on house constructions



### Effect of economic crisis on office prices



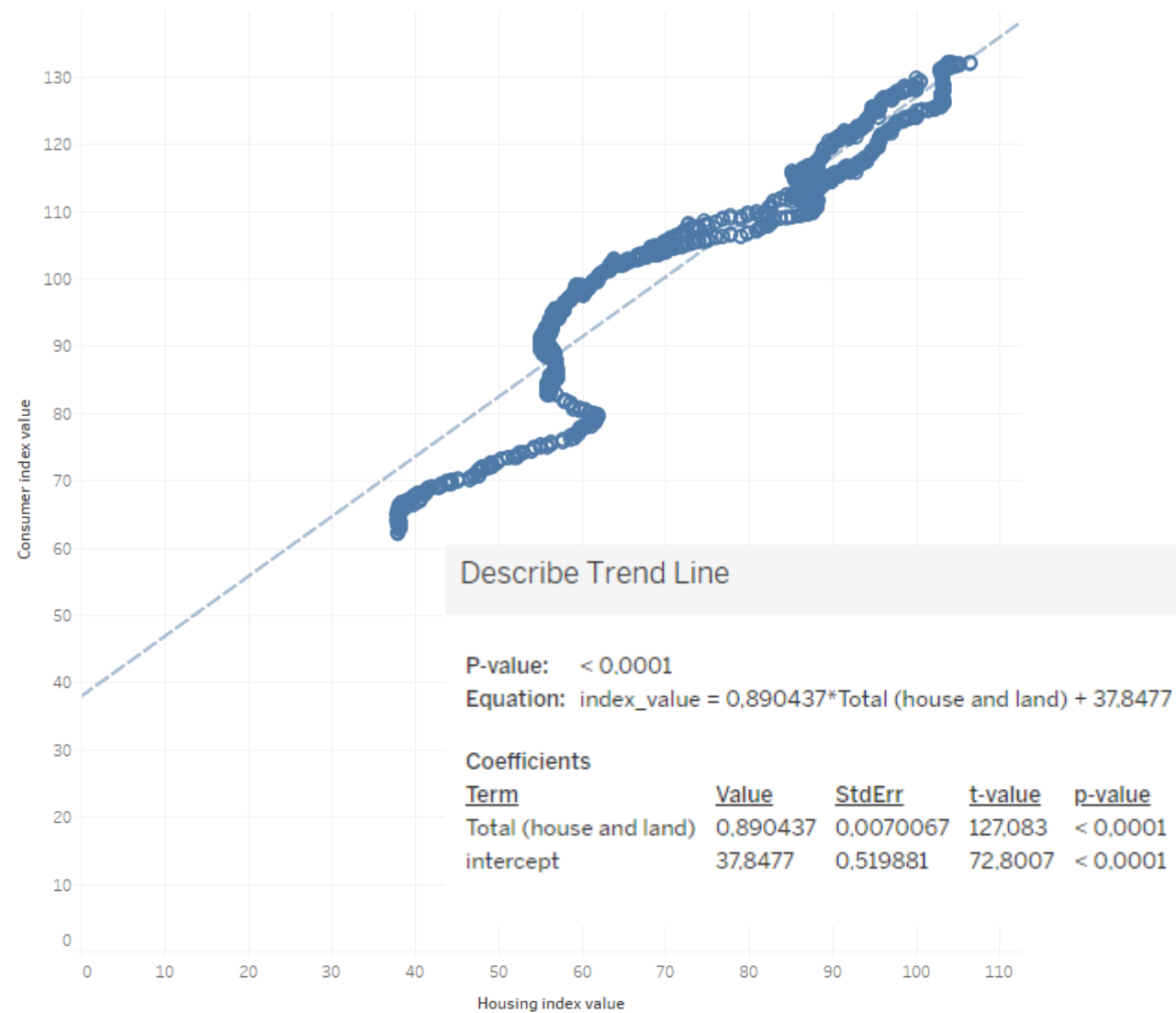
### Effect of economic crisis on consumer index



# VISUALIZATION & ANALYSIS OF THE DATA:



Regression line between consumer index & housing index





# Biggest CHallenge



- Time
- Find extra sources from internet to make this dataset complete
- Do more analysis and create complex visualization



The background is a collage of various financial and data-related graphics. It includes several line graphs with fluctuating lines, bar charts, a pie chart, and a large table of numbers. The overall color scheme is a mix of light blues, greys, and warm oranges, with a semi-transparent overlay that makes the text and central graphic stand out.

THANK YOU!

