



Data Visualization and Dashboards with Tableau

By

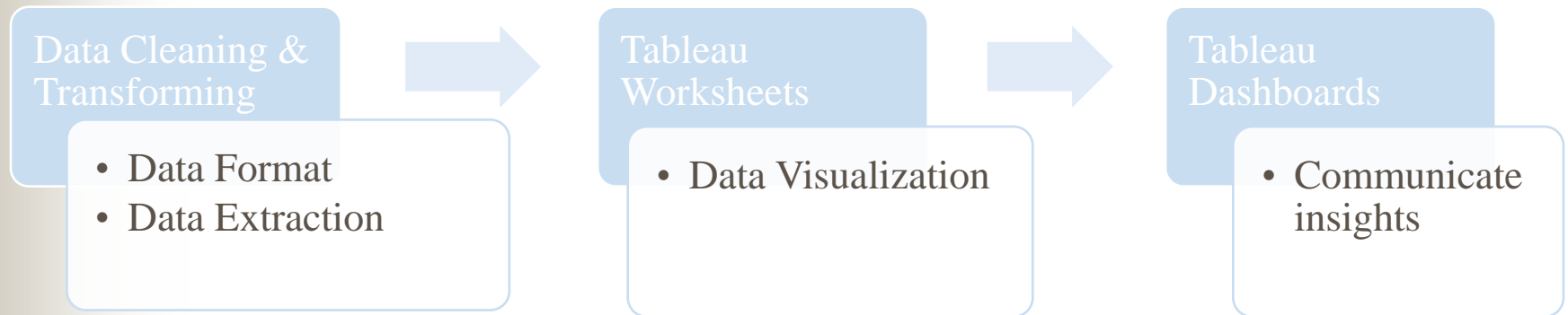
Zhiyun(Jenny) Liang



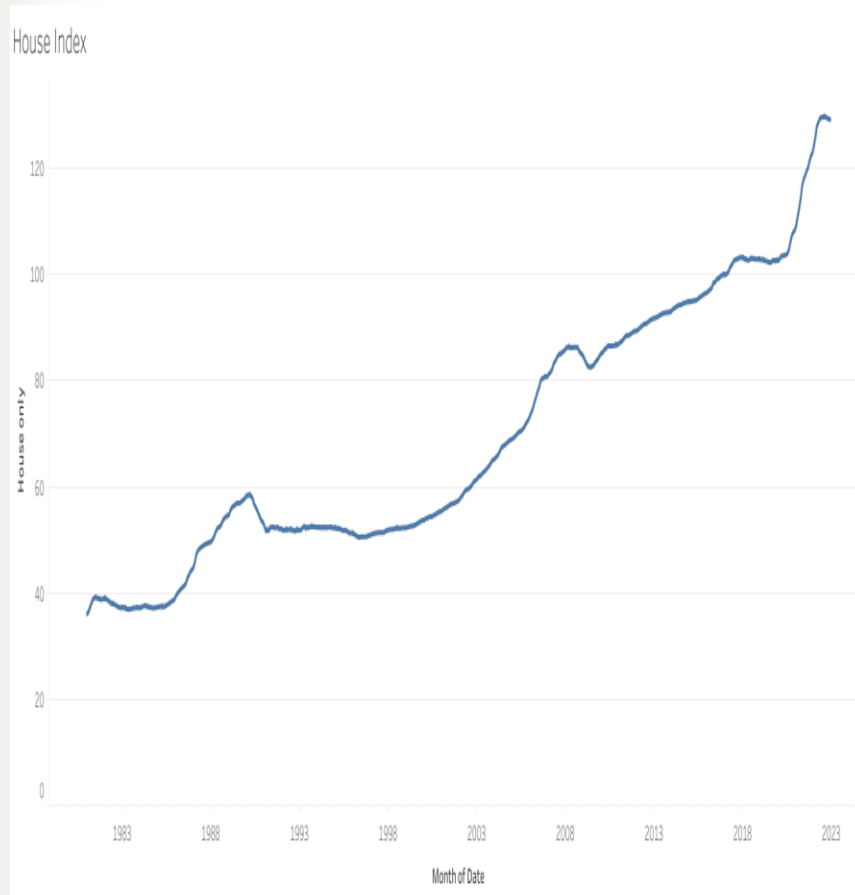
Project Objective

- Turning data into easily consumable visual insights, using Tableau
- Creating impactful dashboards that help audiences make decisions
- Communicating insights with the correct visualizations

Project Flow Structure

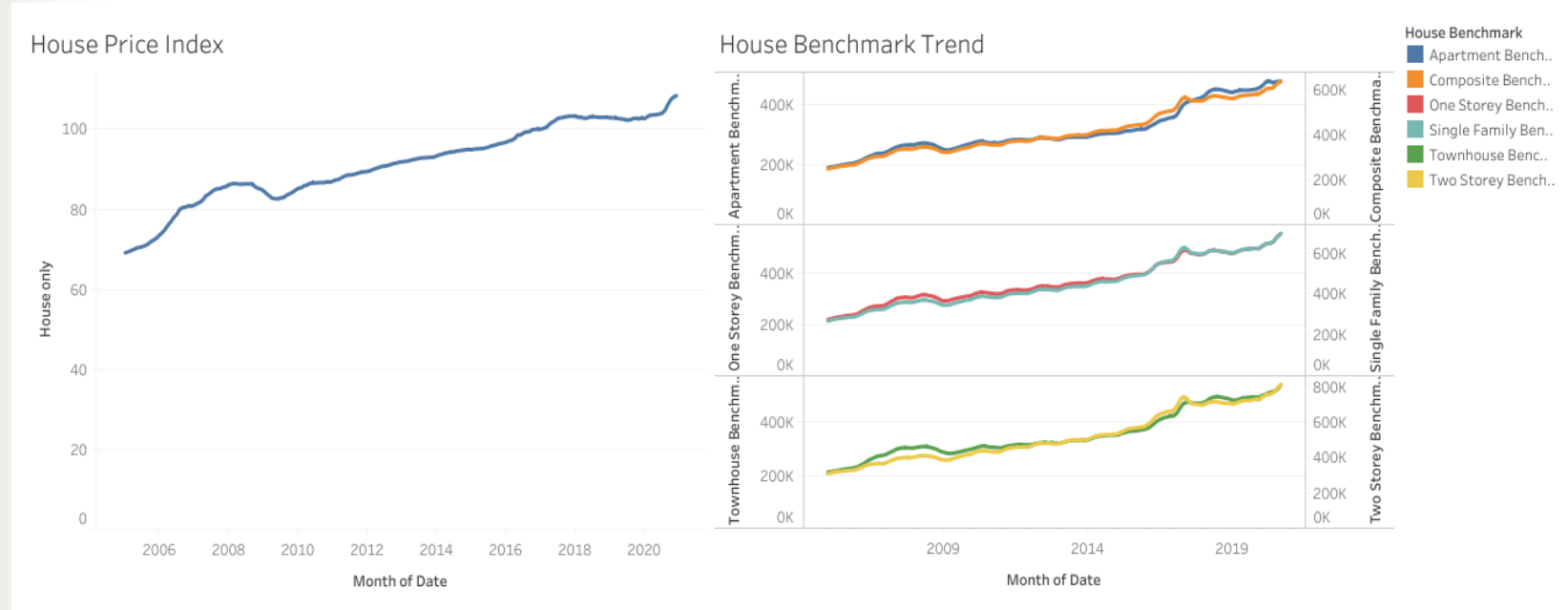


House Price Index Trend



The house price index increases in the last 40 years, and it drops between 1983 and 1984, early 1990s, between 2008 to 2009, and between 2018 to 2019.

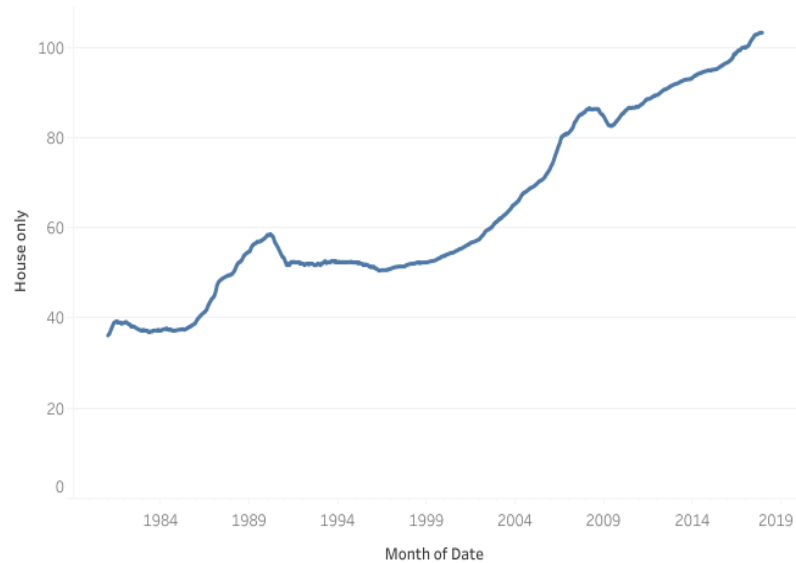
House Price Index vs House Benchmark



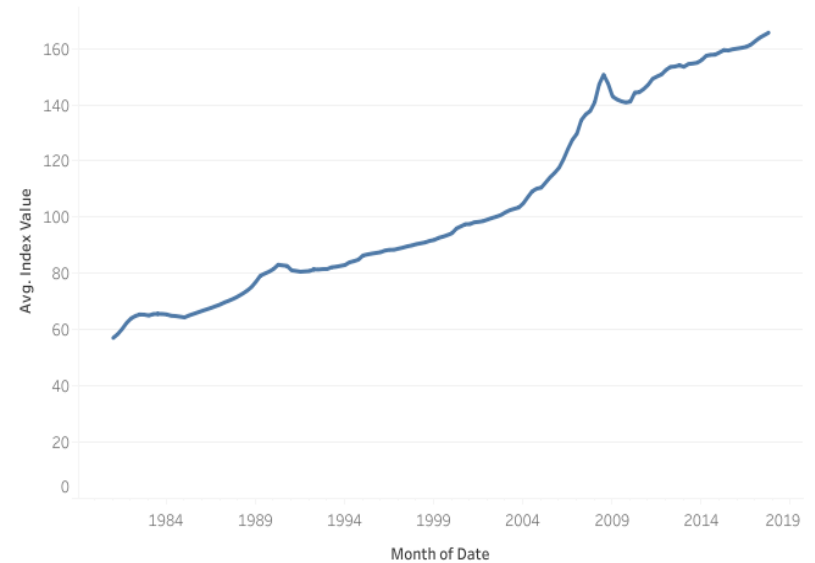
The actual benchmark prices has a similar pattern with the house price index from 2005 to 2020; as they both decrease between 2008 and 2009, between 2018 to 2019.

House Price Index vs Office Price Index

House Price Index



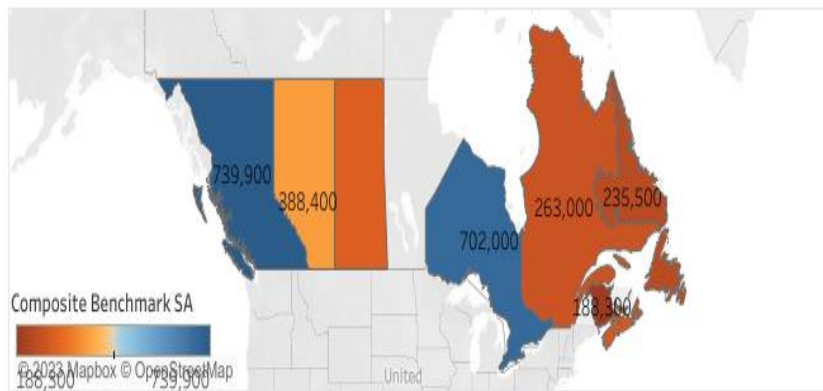
Office Price Index



From 1981 to 2017, the office price index and the house price increases 190.02% and 185.6% respectively.

House Price Map

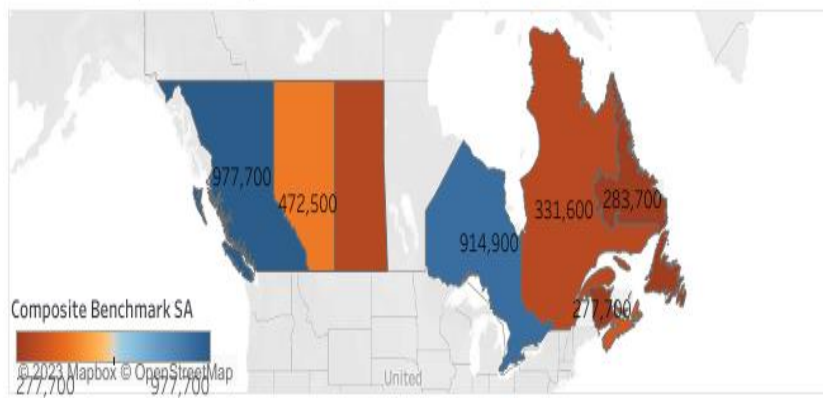
Province 9/2020 Map



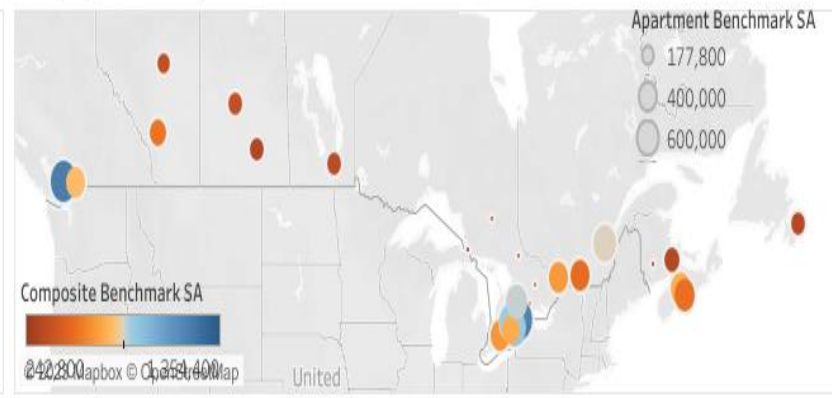
City 9/2020 Map



Province 6/2023 Map

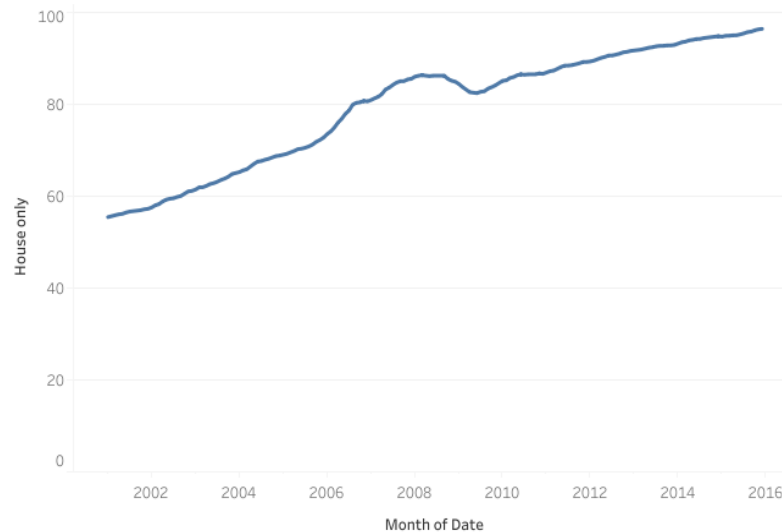


City 6/2023 Map

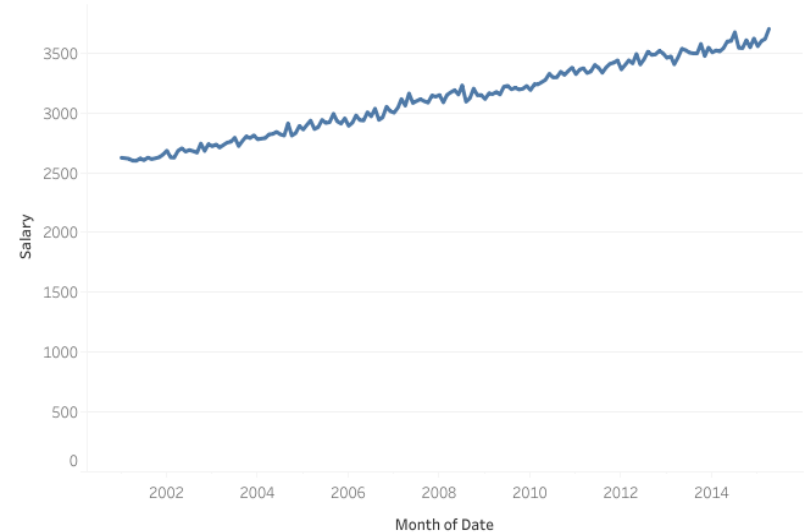


House Price Index vs Earnings

House Price Index



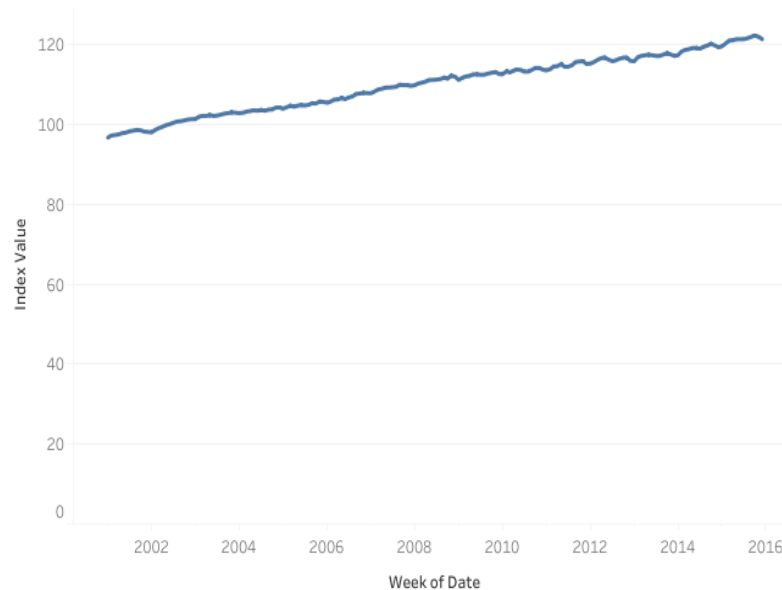
Monthly Earning



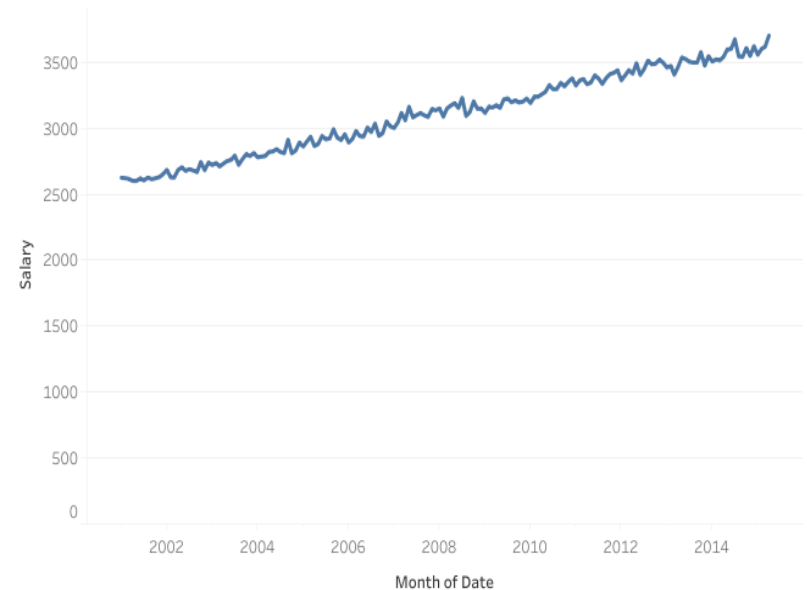
The salary earnings increases from 2001 to 2015. It doesn't have a drop between 2008 and 2009. Over past 15 years, house price index increases 71% versus monthly earning increases 38%

Consumer Index vs Earnings

CPI Trend

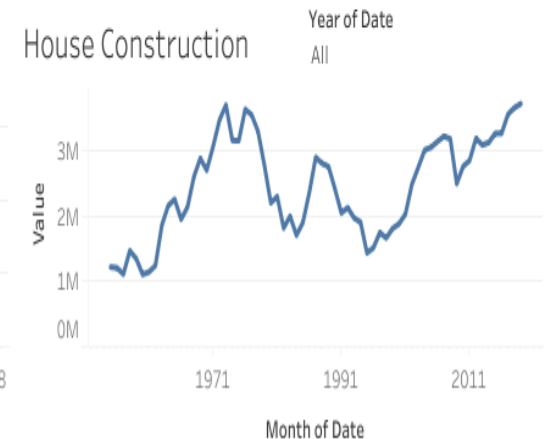
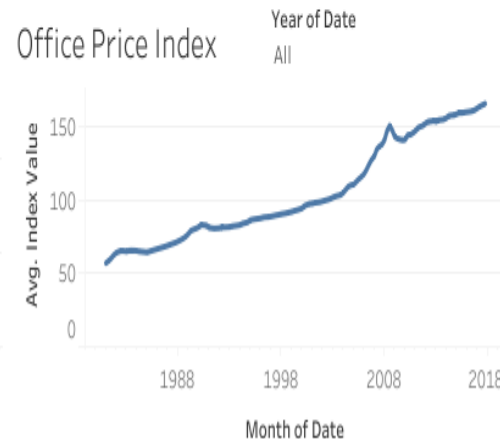
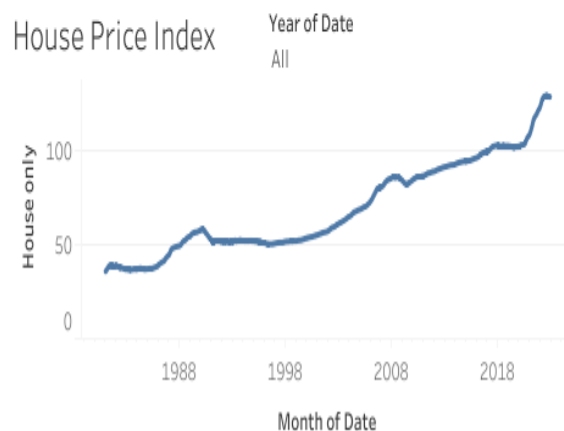
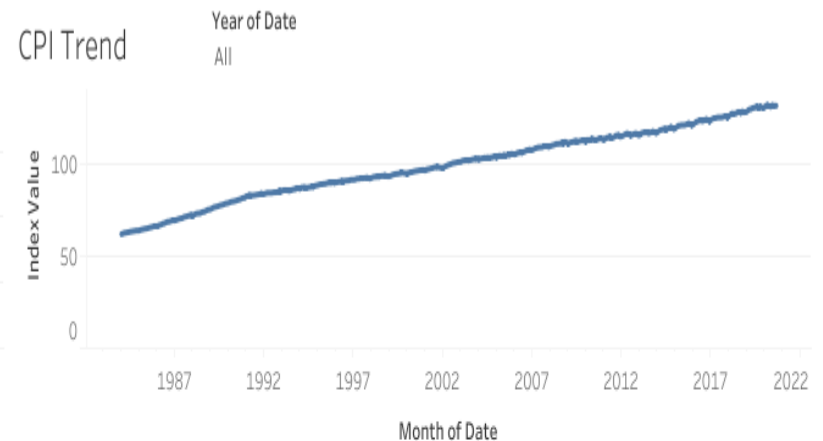
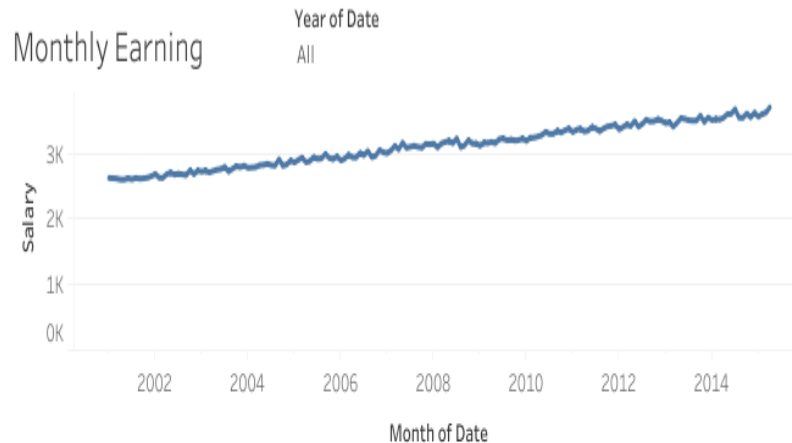


Monthly Earning



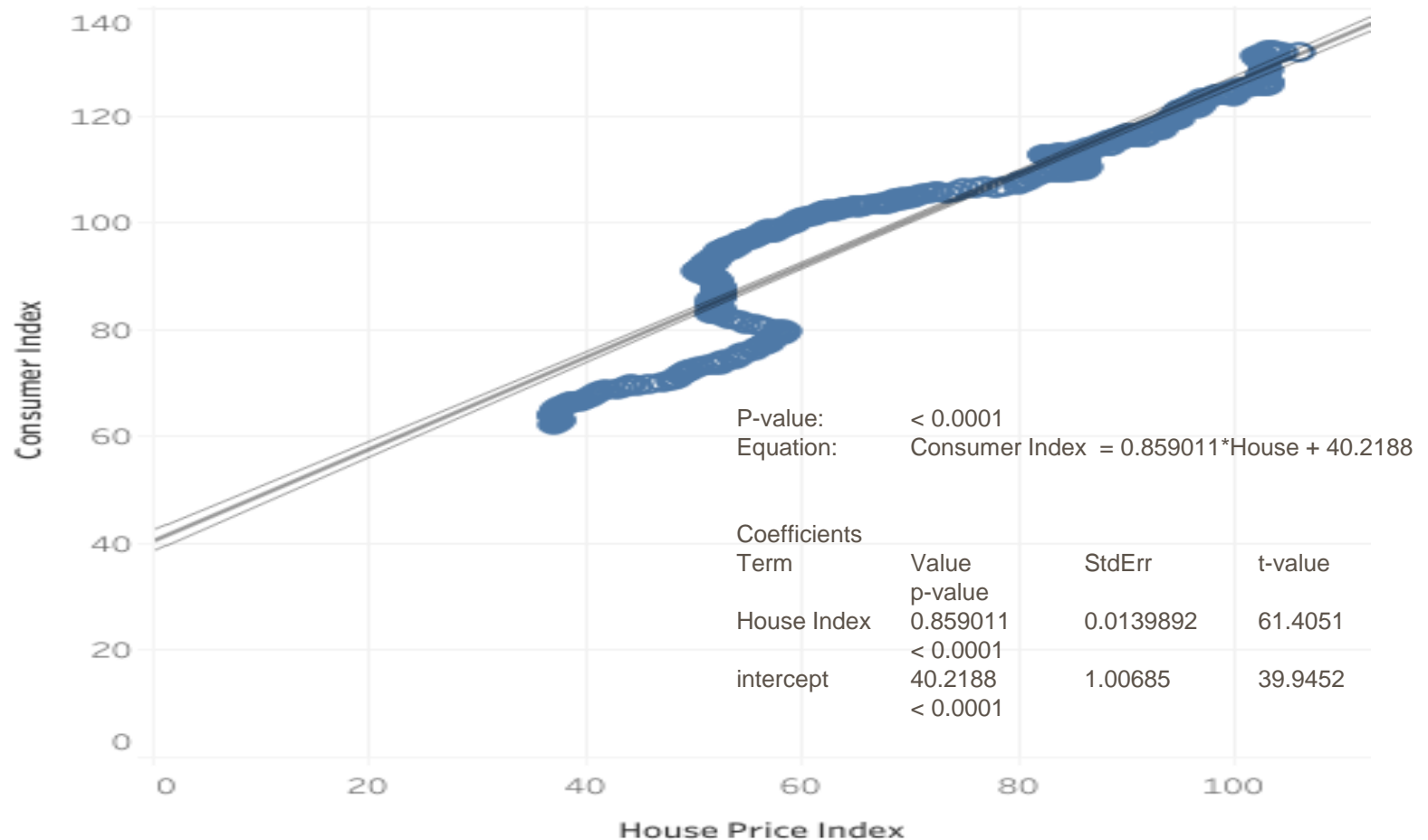
From 2001 to 2014, monthly earnings increases 38% versus consumer index which increases 23.37%.

Comparison in economic crises



House Price Index vs Consumer Index

House Price Index vs Consumer Index





Challenges & Future Work

- Data Cleaning and Transforming
- Communicate insights with the correct visualizations
- Create more impactful visualizations



Thank you !