

Housing In Bay Area

CS 560 Data Visualization

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Overview

Housing has always been an essential concern for people the whole time. Ever since COVID19, most people have to stay home and work remotely, therefore some of them move out of the city and find a less expensive place to stay. This project aims to analyze the recent housing market in the San Francisco bay area.

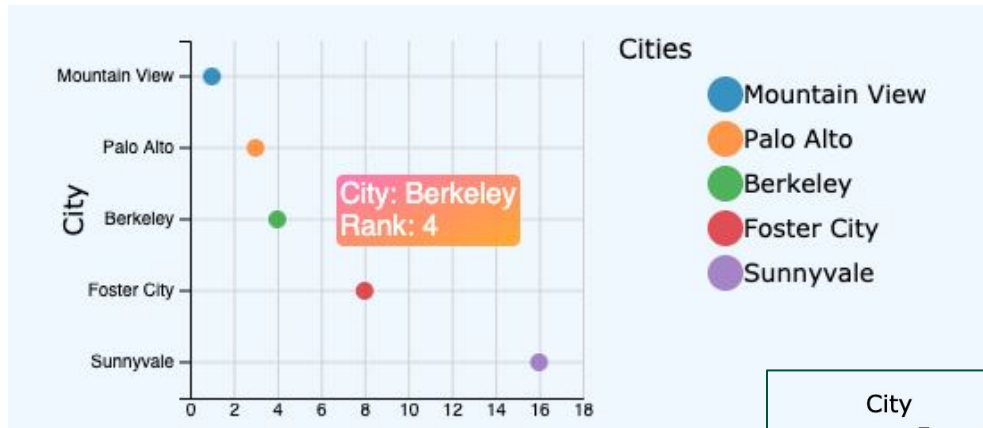
Objectives

1. What's the ranking of each target city that we have for this project?
2. Whether the number of bedrooms in a house would affect the change of house value?
3. How many bedrooms that a house has would probably increase in value in the long term?
4. Is there any pattern about the trend of new listing of home from time to time?
5. Does Bitcoin have any connection with the actual housing market trading?

Beta VS Final Release

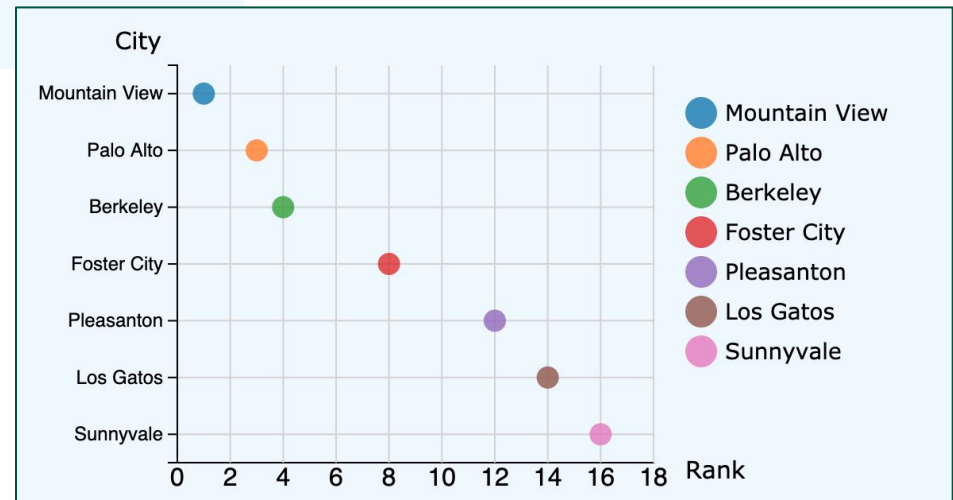
objective 1 What's the ranking of each target city that we have for this project

Before



- *More cities*
- *Bigger label font*

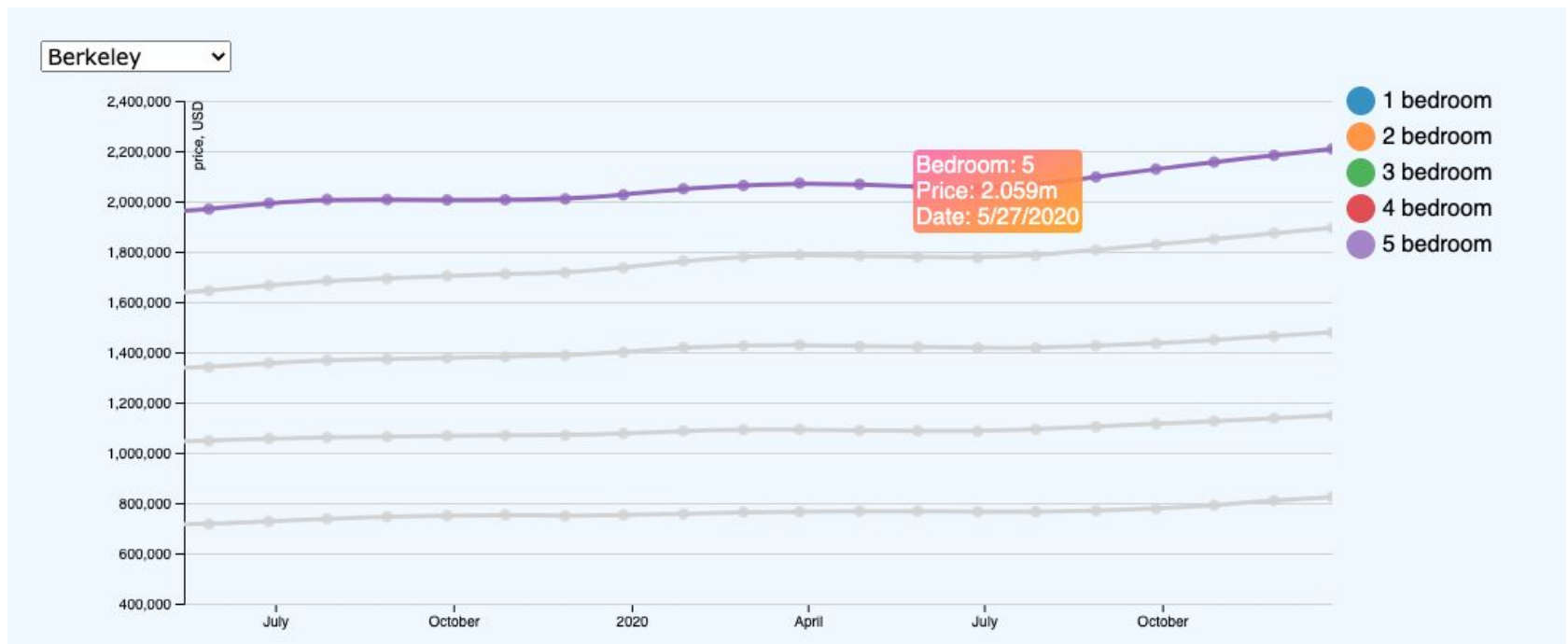
After



What you are expecting to see in the demo

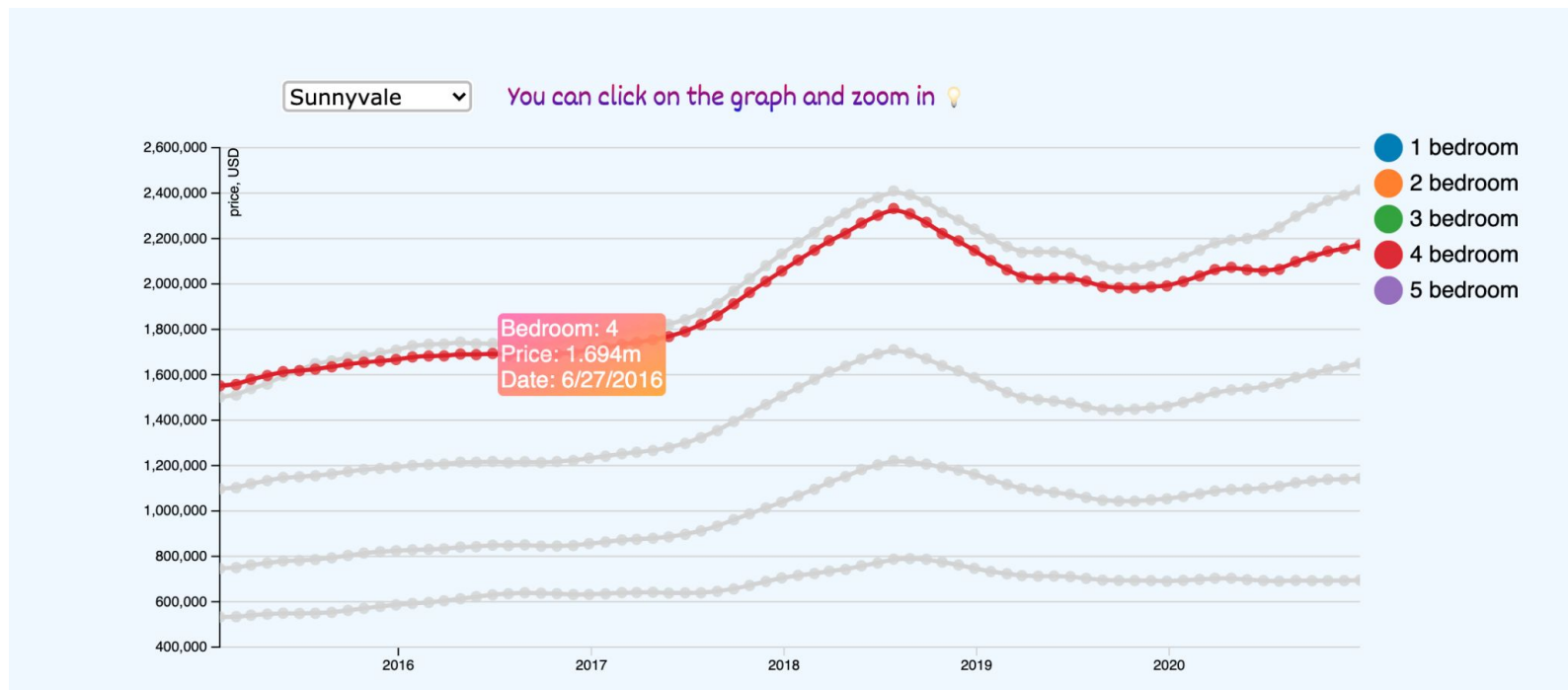
objective 2 How the number of bedrooms in a house would affect the change of house value

objective 3 How many bedrooms that a house has would probably increase in value in the long term



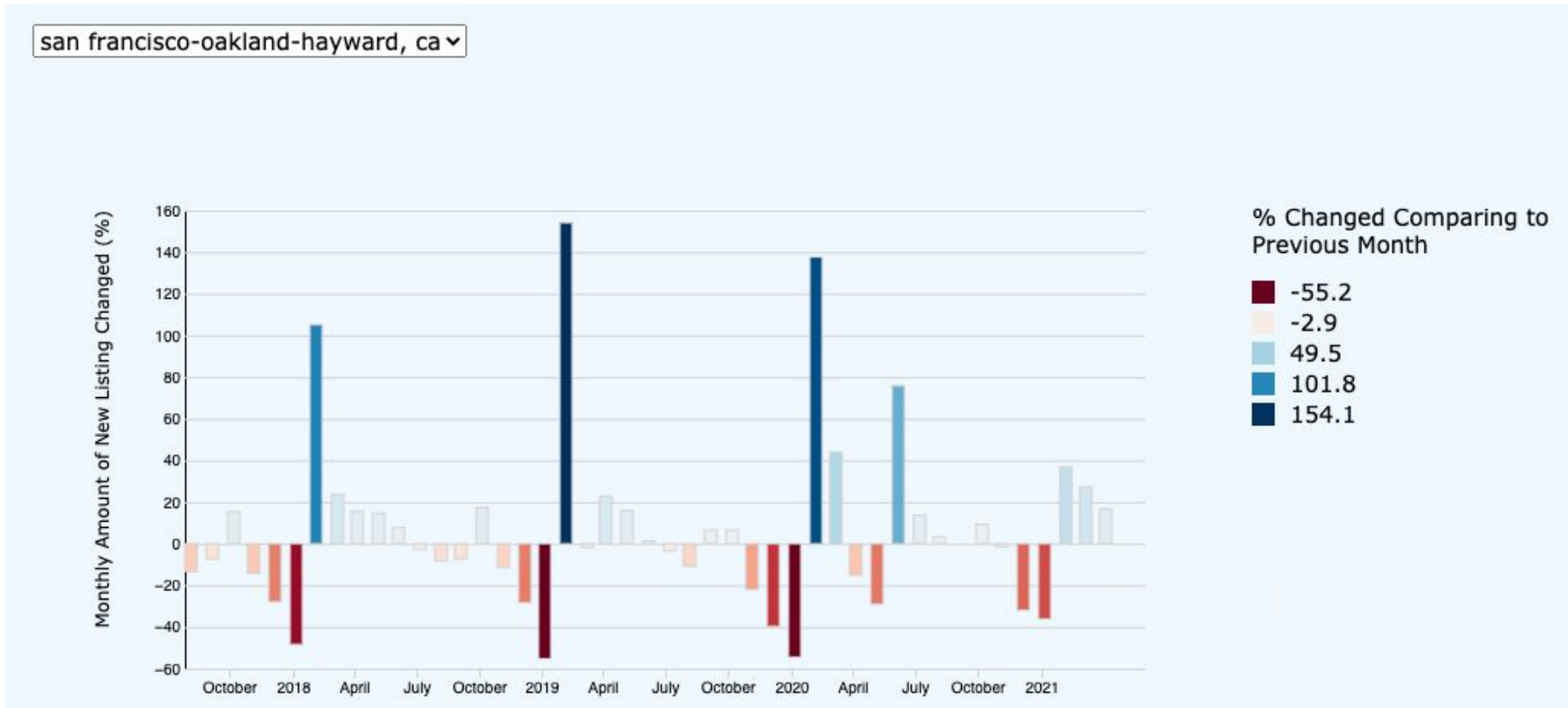
After

- *Lines are properly shown*



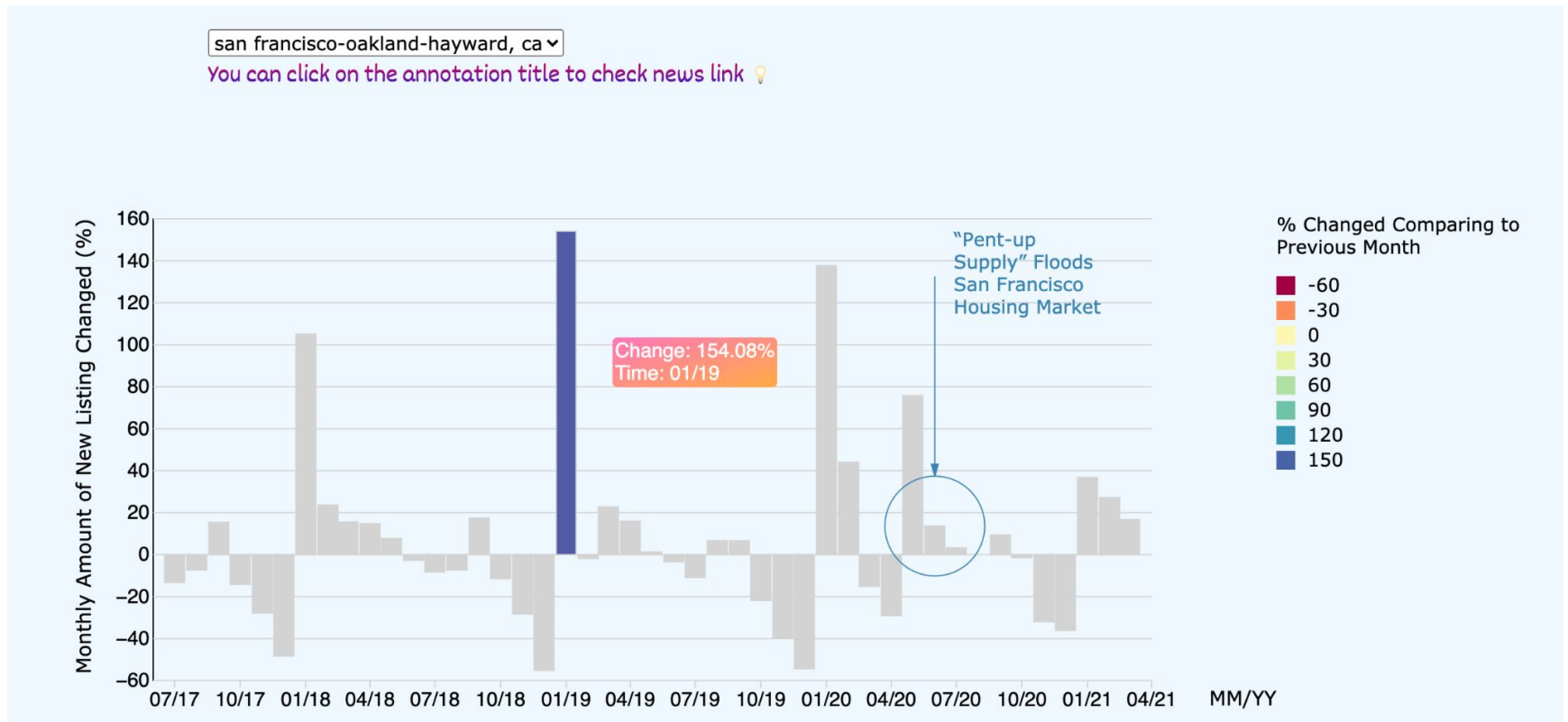
What you are expecting to see in the demo

objective 4 Is there any pattern about the trend of new listing of home from time to time?



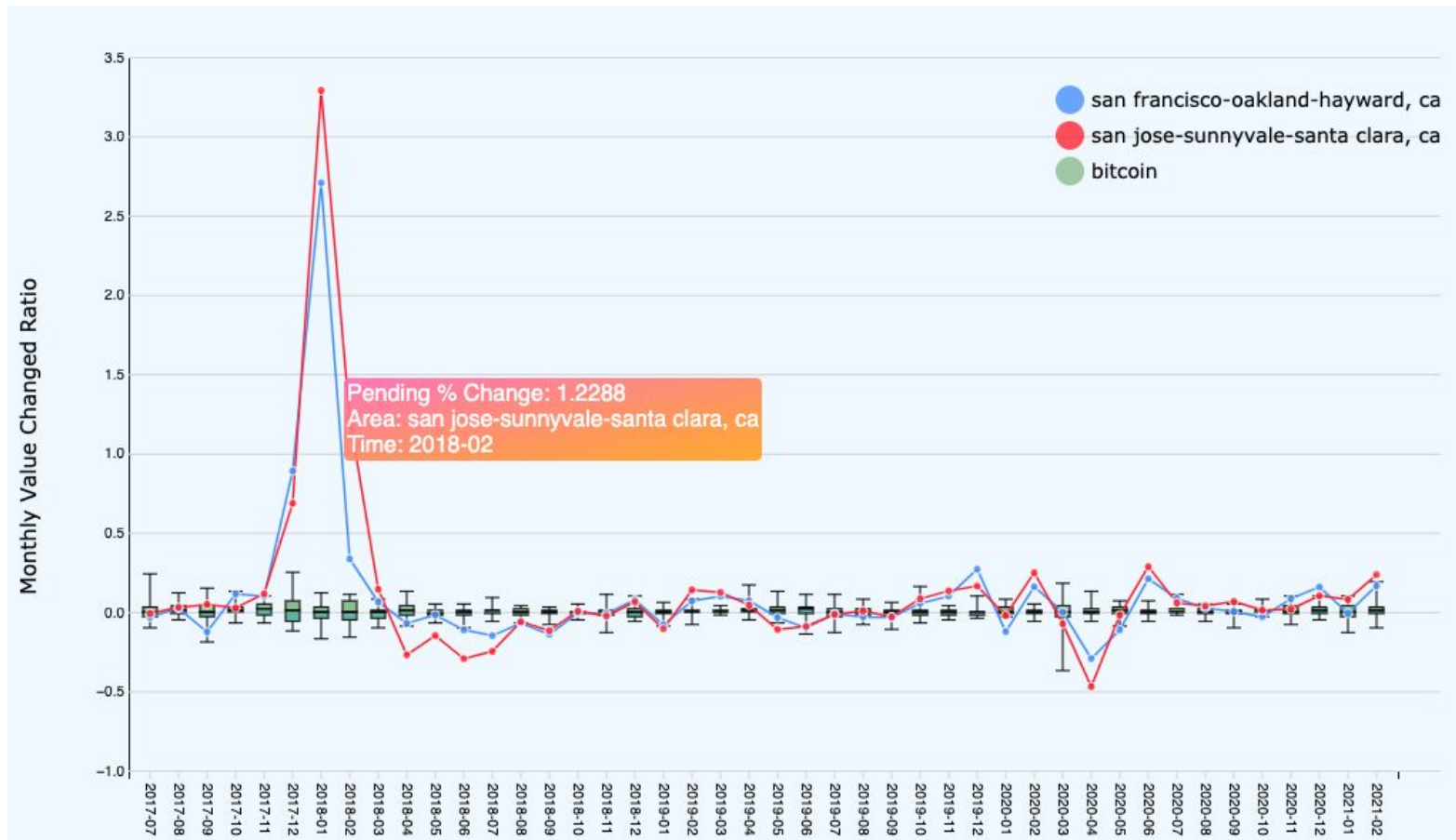
After

- Fixed scale range
- Added interactive showing effect
- D3 annotation
- Added Y axis Label



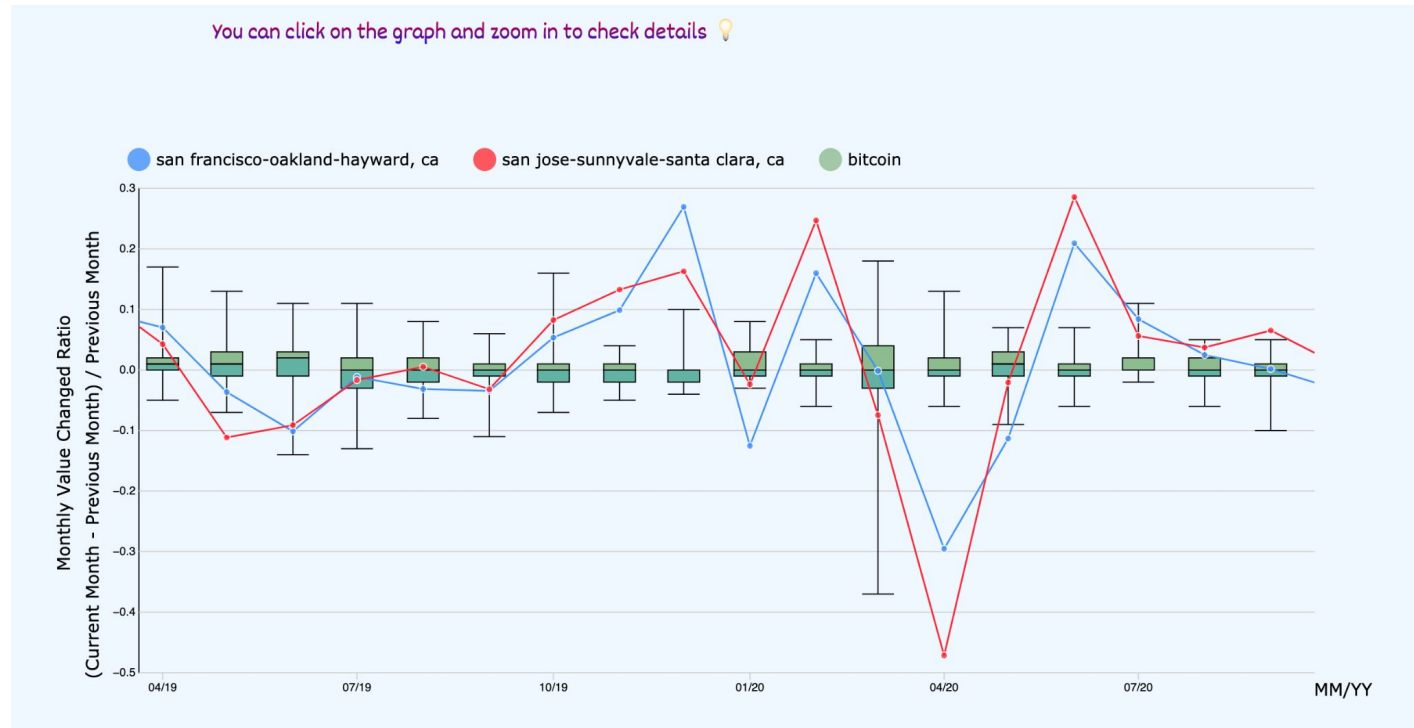
What you are expecting to see in the demo

objective 5 Does Bitcoin have any connection with the actual housing market trading



After

- Added zoom in
- Added Y axis Label



Demo & Results & Measurements

<https://eggchul.github.io/HousingInBayArea/>

- Data all shown in the correct range and scale
- Data is properly processed
- Color is used properly
- Data-ink balancing

Discussion

- **Overall, based on my understanding, approaches that I used are promising**
- **I had a hard time of getting the data I want**

One of the original objective is examining the listing data of each city from [Zillow](#), however, it does not have sufficient data. I found a substitute of listing information of regarding ares from [Realtor](#).

- **If I could start over ...**

I like what I am doing so I think I will probably do the same again. But maybe set the objectives after I have all the data cleansing and tested with tableau, then it would be easier for me. Not like now, I have so many data files.

Future Work

- **Have a bar chart race feature for house price in different cities**
- **Add more pictures for styling the website**
- **Find more news**
- **Deeper analysis on data**

Q & A

Thank you!