Alpha Release

CS560 Final Project – Home Garden
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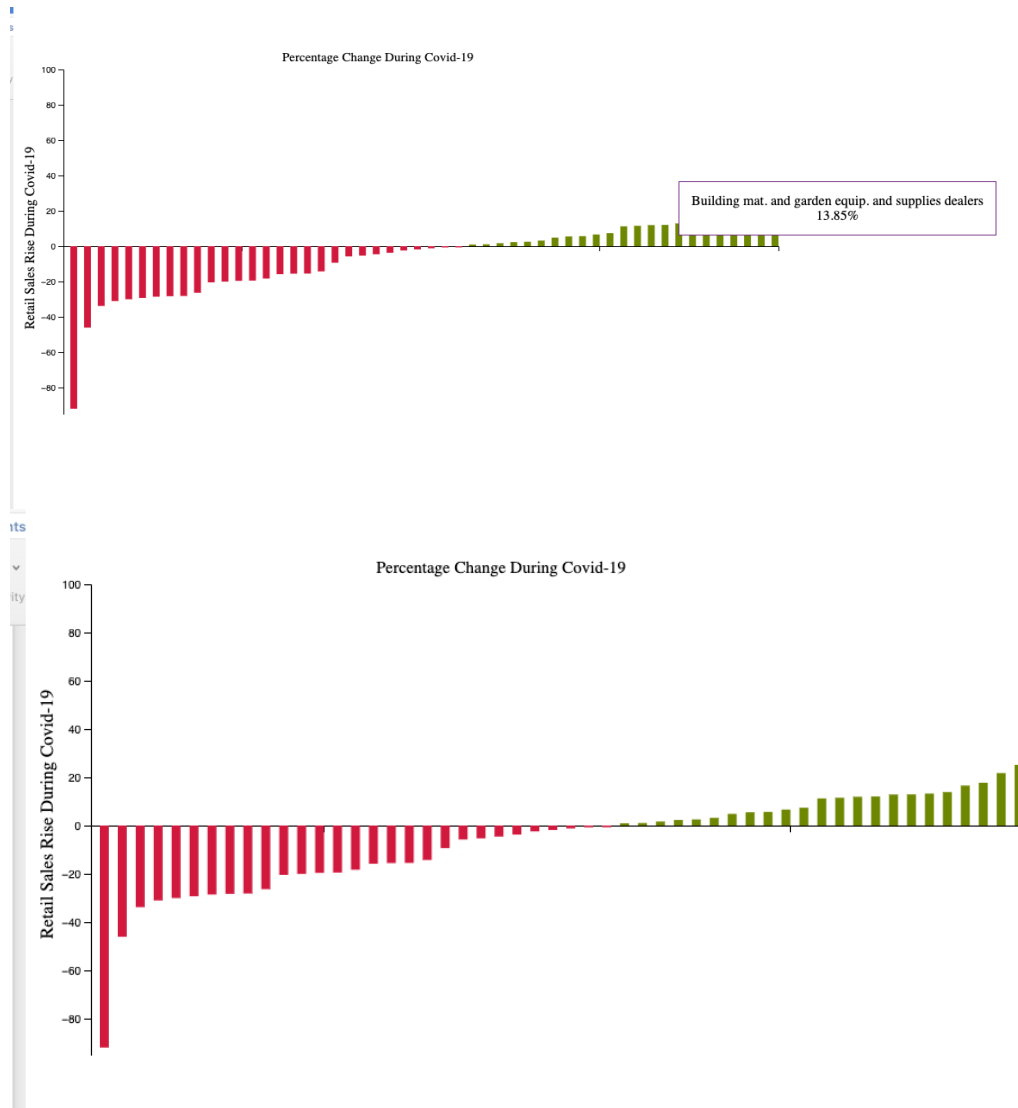Repo Link: https://github.com/yanliang789/home_garden

- Data
My data are basic from "United States Census": Monthly Retail Trade. I did some clean-up and filter the data I use and save all the needed datasets to CSV files. One reason I chose the retail trade for the business farm normal the business plan will make at the beginning of the year will not change too much from retail trades. I believe the retail trade especial from garden equipment is caused by individual families.

- Page 1: First Page
The first page is to show the rise of retail trade percentages during COVID-19 (2020 compared to 2019). Many retail sales in a negative rise, on the other hand, garden equip sale is in a good shape. Red color shows the negative rise, green color shows the positive rise.

Percentage Change During Covid-19

Retail Sales Rise During Covid-19

Building mat. and garden equip. and supplies dealers
13.85%

Percentage Change During Covid-19

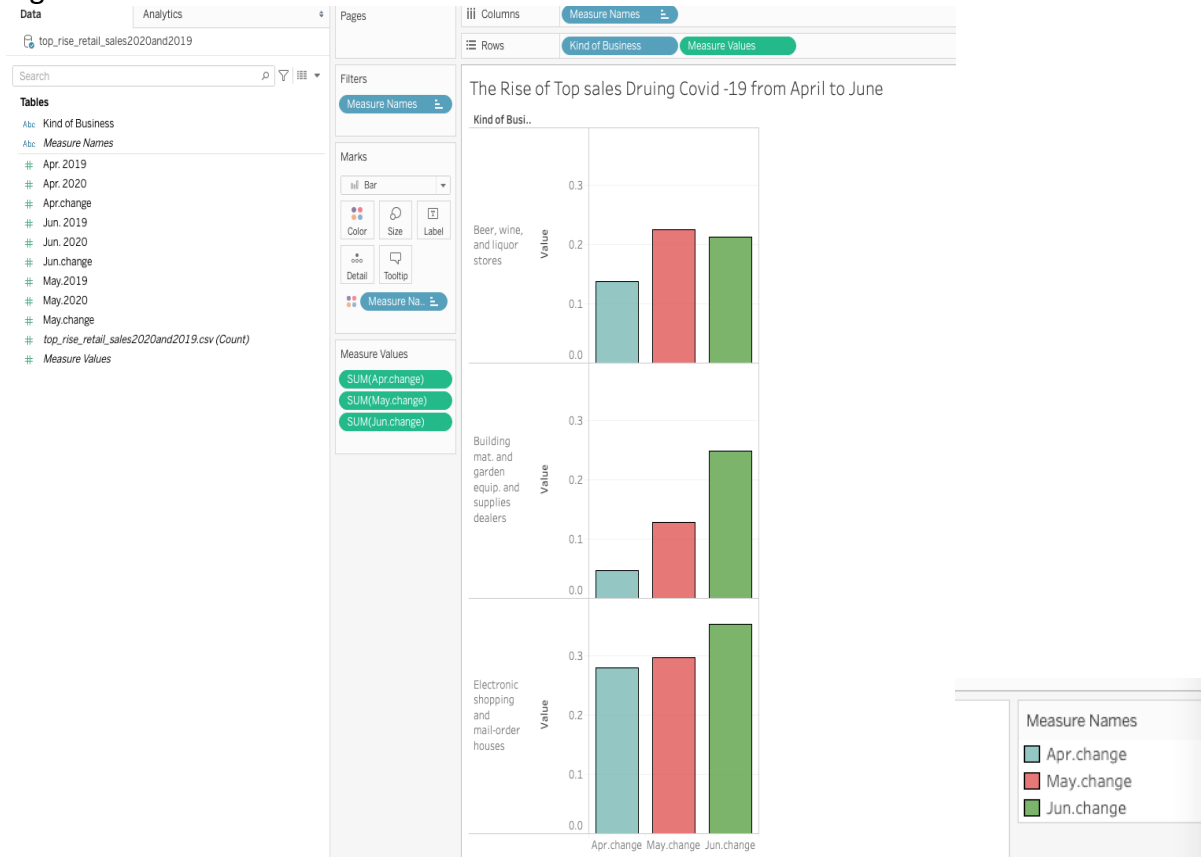Retail Sales Rise During Covid-19

- Page 2:

The second page shows the percentage of annual growth in garden equipment sales from 2014 to 2020 compared to the previous year. We know that because of inflation and other reasons, a small part of the annual growth is normal, but from the graph, we can see that

the growth from 2019 to 2020 is sudden. I believe this is due to the impact of COVID-19.

• Page 3:

The graph above shows the spike rise in garden equipment trades, I want to compare with the rise of e-shopping, beers with the rise of garden equipment to get more sense of how big it increases.

- Conclusion
  The first three pages are the main functions of the project, showing the impact of COVID-19 on the trend of home gardens. I like to grow vegetables and flowers in the garden so that I can relax. But the challenge for me at the beginning was that it was difficult to find the data set due to the lack of home garden resources. After getting the data, I found that displaying what I want to display is not as easy as I thought.
- Future
  First, I will complete the main functions of the first three pages to interact through D3. Secondly, to realize the optional functions of the project. I hope that through this project, more people can be encouraged to grow their own plants in the garden. Meanwhile, I would like to provide some tips for growing vegetables.
- Schedule
  The schedule details are as follows.

March 31	Proposal draft
April 7	Proposal final Start website
April 8	Gather and crawling data, clean up data, and save data to csv
April 12	Alpha Release completed required features Basic graphs for page1, page2, page3. Make a report.
April 21	Start fix bug for first three pages Try to implement additional features: page 4, page 5 and page6
April 26	Practice for Presentation Make video and slides. Beta Release: Submit video and slides.
May 7	If not finished the additional page, continue to implement. Fix all bugs. Make improvements if possible. Prepare Final Presentation
May 10	Final Presentation
May 17	Project report draft
May 18	Report and done everything.