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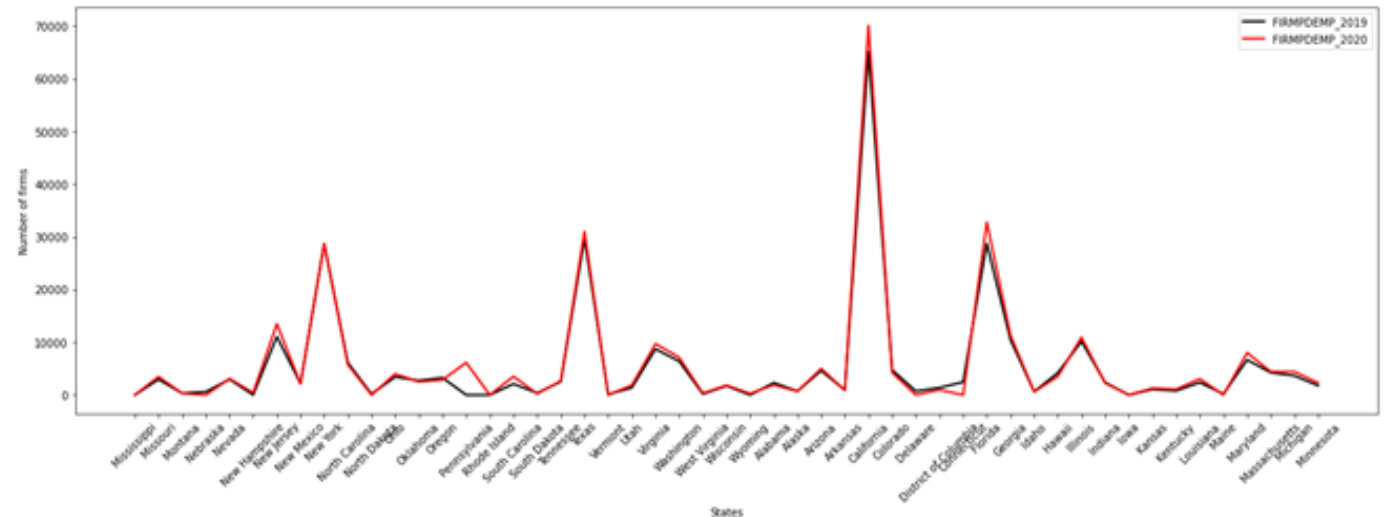
ANNUAL BUSINESS SURVEY APIS

ETL Process

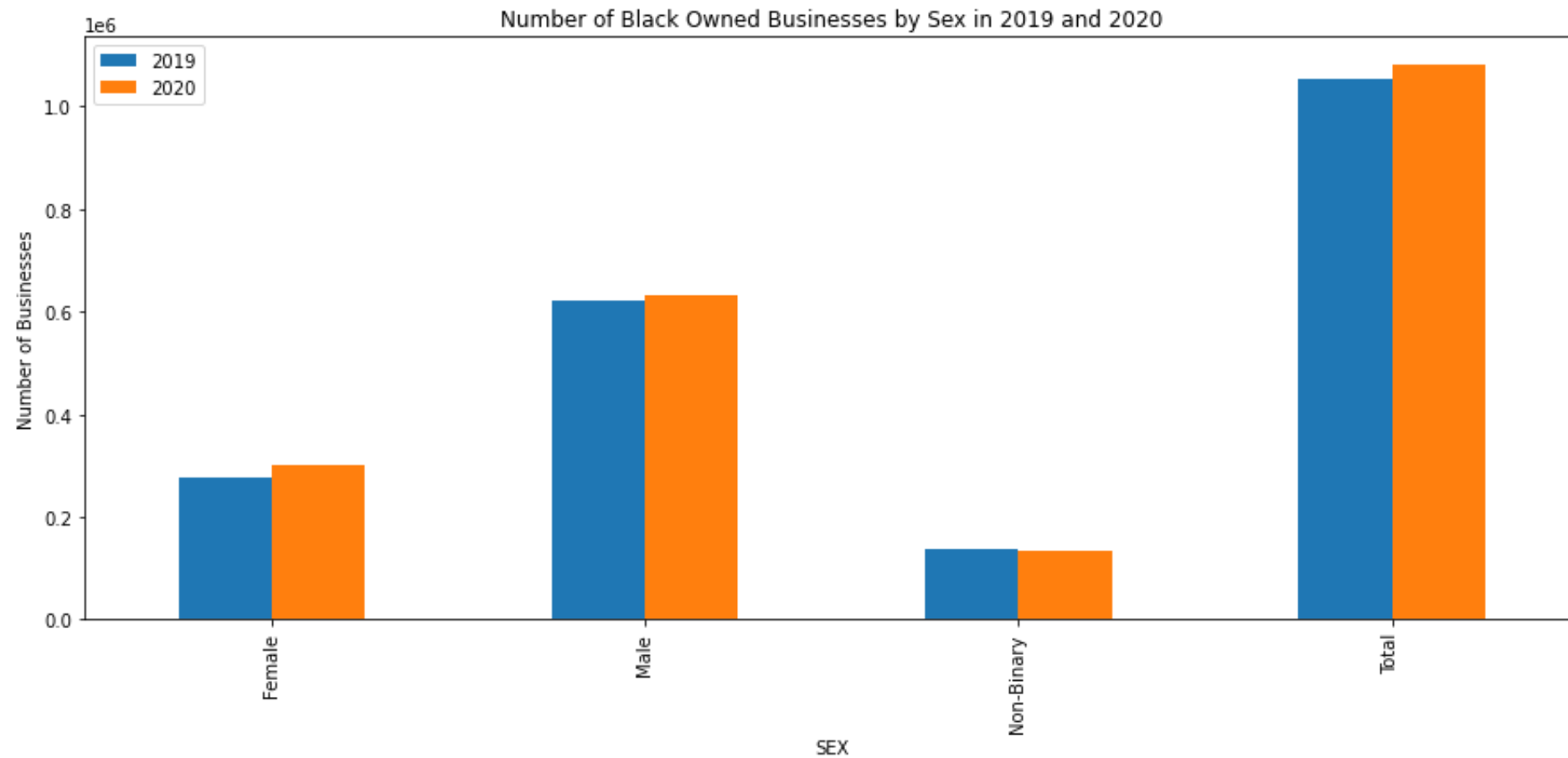
- The sources we used were the state company summaries from
 - [Technical Information for ABS APIs](#)
 - [Annual Business Survey API for 2019](#)
 - [Annual Business Survey API for 2020](#)
- Explored the data to see what possible questions it would be able to be answered and how we could use it
- Once we had our questions deciding what starter dataframe we would work with to manipulate and create the visualizations

Minority Women Owned Businesses

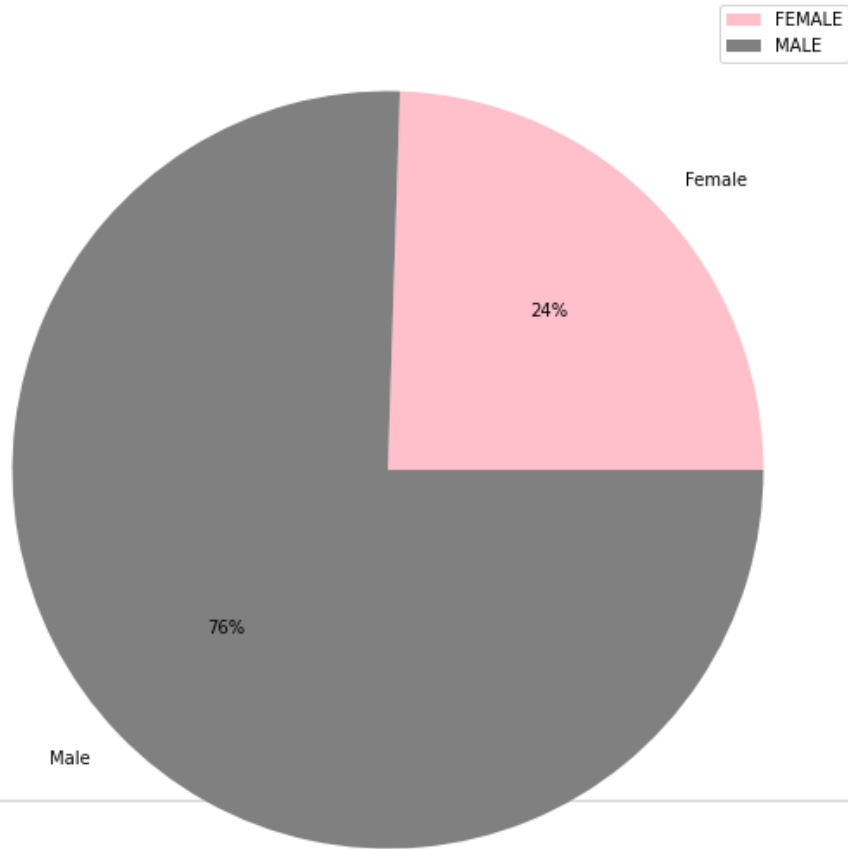
- Texas, Florida, New York, California are the top states
- Showed virtually no difference between the years



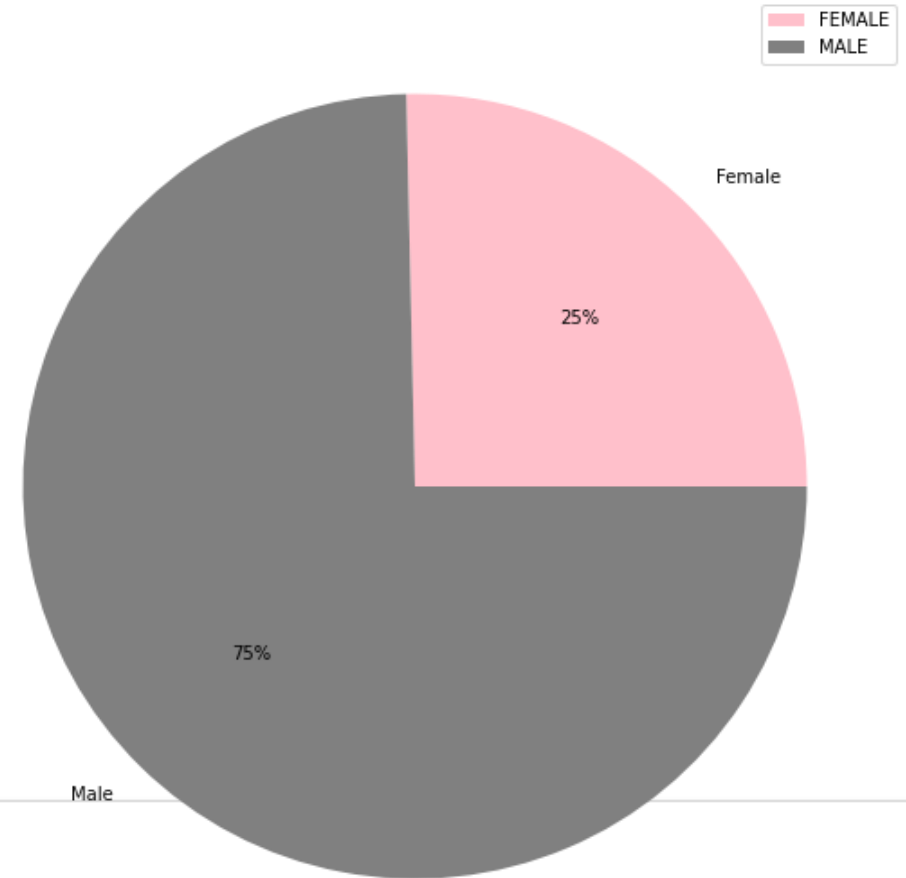
Black-Owned Businesses by Gender



Female vs Male owned businesses in 2019



Female vs Male owned businesses in 2020

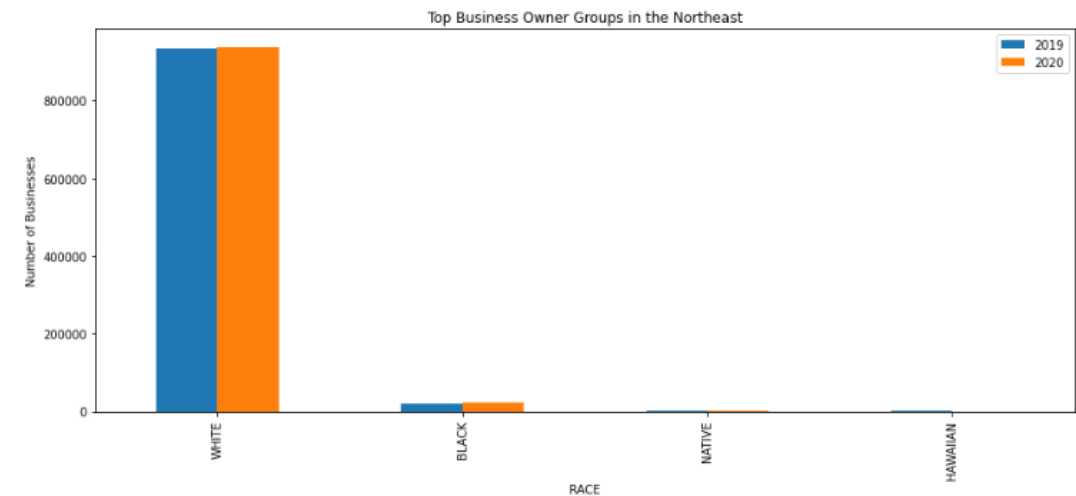
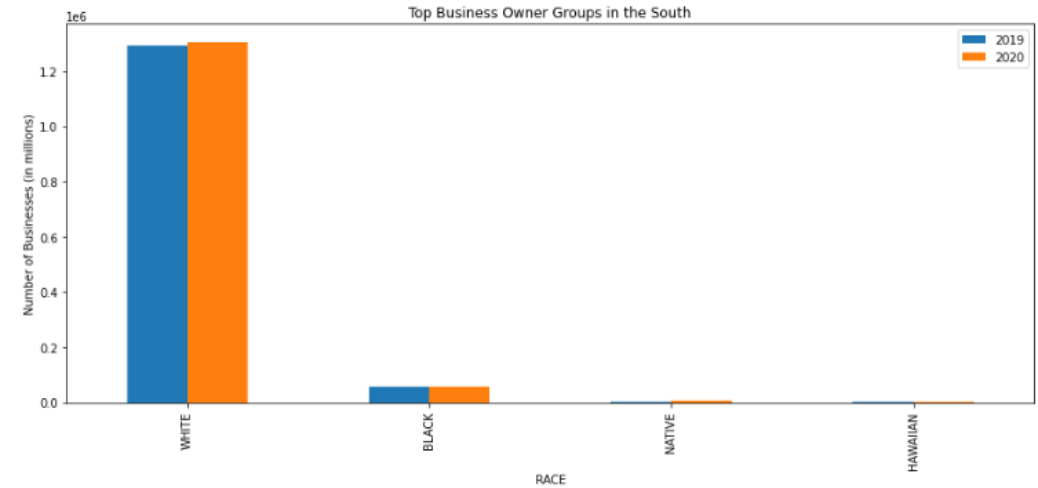


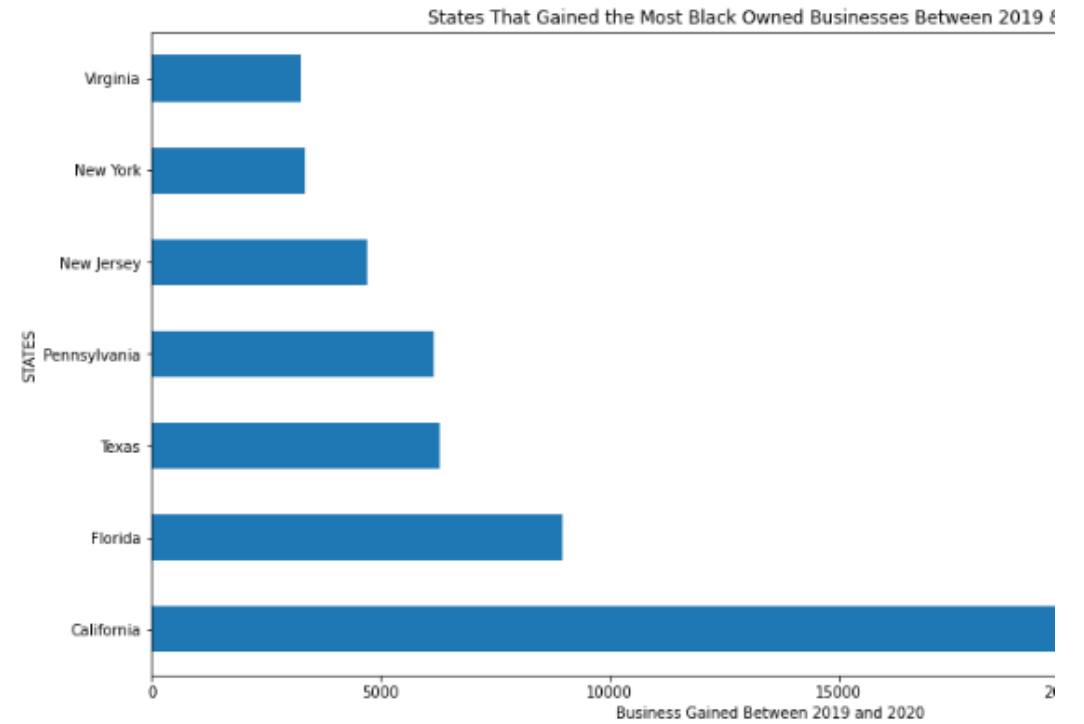
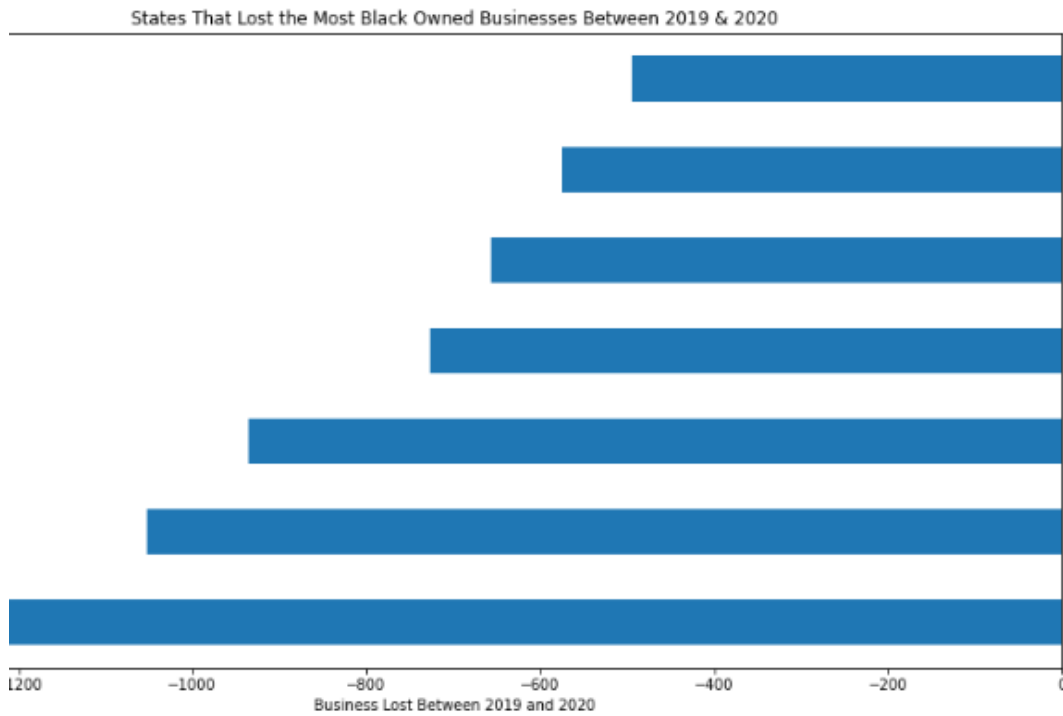
Female and Male Owned Businesses

- Clear difference between male and female owned business
- The top states have a higher disparity
- States like Kentucky have more woman owned businesses

Race Groups per Region

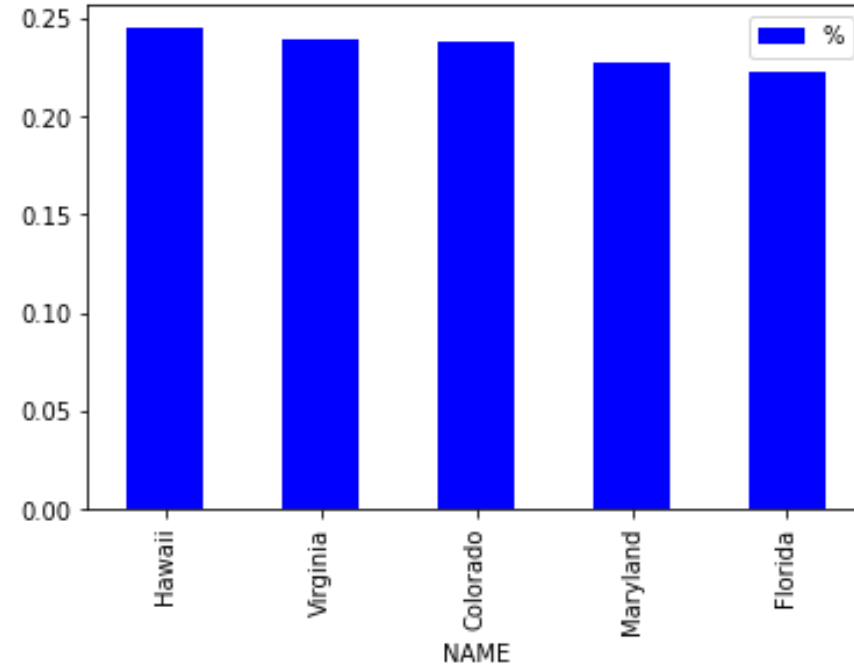
- All regions had very similar distributions
- White-Owned businesses are significantly higher
- The southern region has a slight increase in black-owned businesses



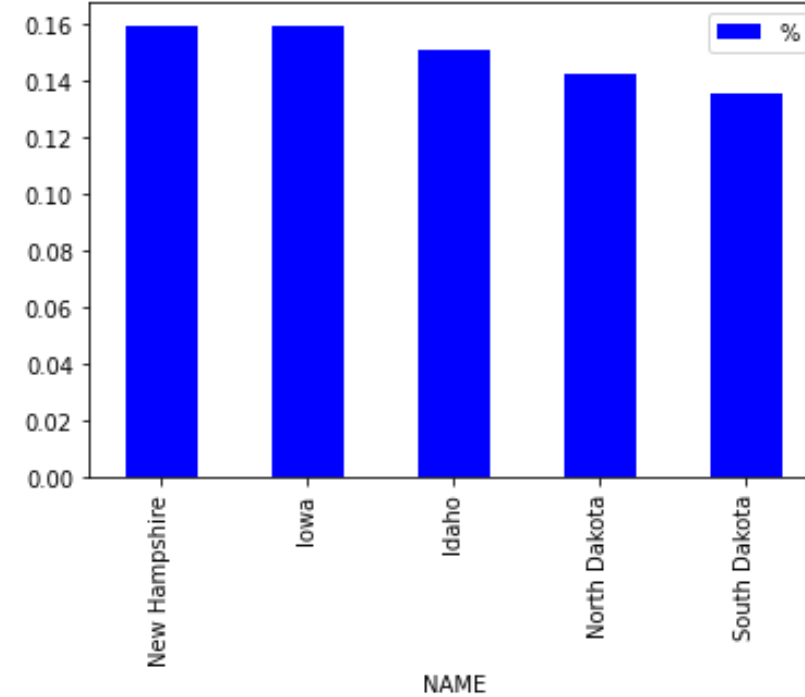


States Gaining and Losing Black-Owned Businesses

Top 5 States with Highest Percentage of Women-Owned Businesses



Bottom 5 States with Lowest Percentage of Women-Owned Businesses

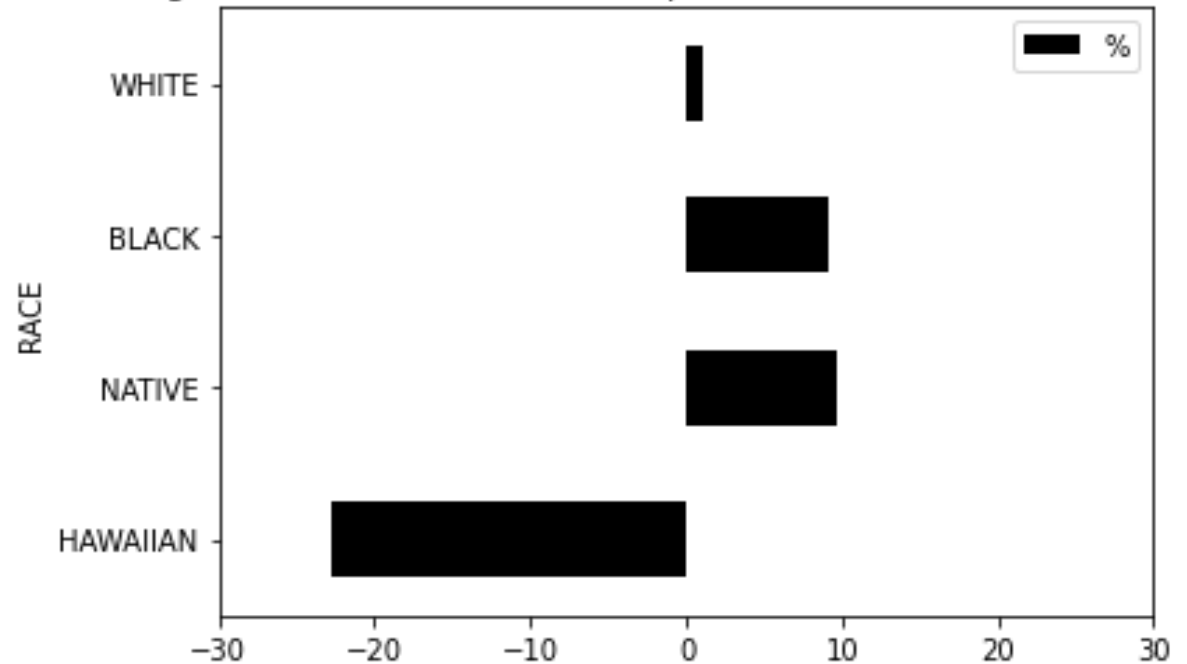


Women-Owned Businesses

Racial Makeup of Business Owners

- White owned businesses showed virtually no change between the years
- Native Hawaiian and Pacific Islander owned businesses showed a –23% difference in ownership
- American Indian and Alaska Native owned and Black owned businesses showed an increase of almost 10%.

Percentage Difference in Racial Makeup of Business Owners from 2019 to 2020



Conclusion

- More research needs to be done
- Gender is fluid so it would be more insightful to have more gender categories
- Having data for race and gender by the state level would have allowed for more specific analysis



Questions?
