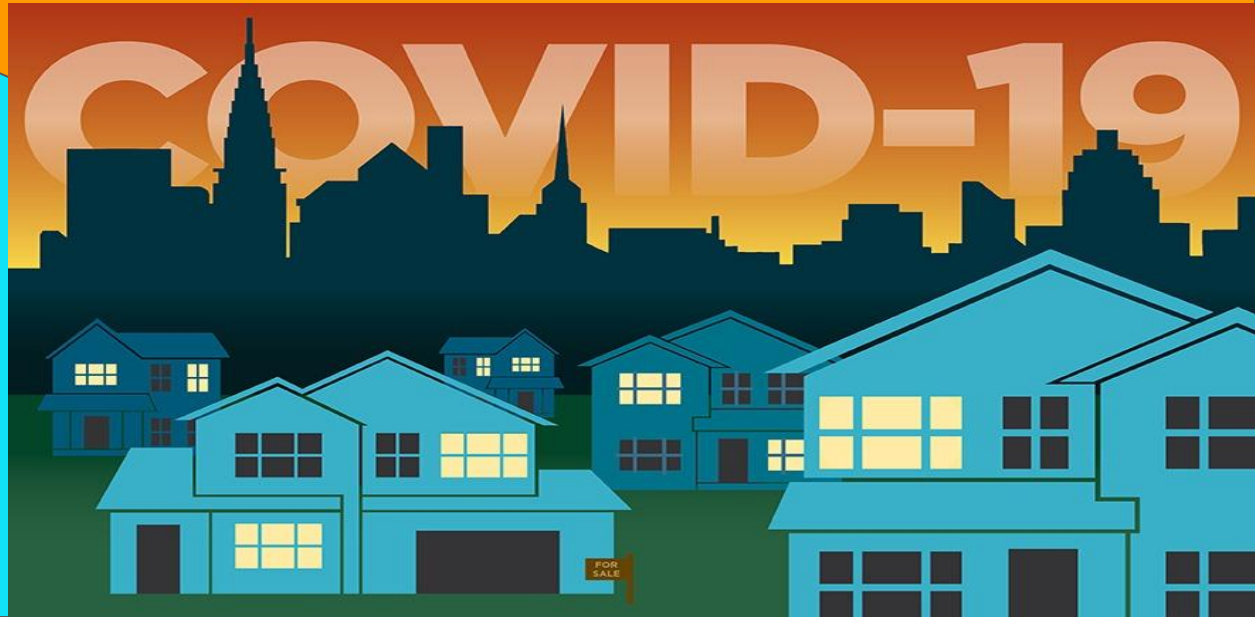


# The effects of Covid-19 on the Real Estate Market

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## Steps That Were Taken

- Collected housing data csv file from [www.zillow.com/research/data/](http://www.zillow.com/research/data/)
- Found zipcode csv file online that included zipcodes and respective latitudes and longitudes
- Merged csvs and cleaned the data through jupyter notebook
- Created sqlite database to hold the cleaned data
- Create Flask app to ping database

# Data Cleaning

- We first needed to get housing data for 2019-2020
- Separated the data into two tables based on year
- Acquired a column list of “years”
- Took an average of the months from each year
- Did the final cleaning
- Final Data was now ready to be pushed into a SQL Data Base

# SQLITE

- Used !pip install csv\_to\_sqlite
- Imported csv\_to\_sqlite
- Input\_files = final data csv
- csv\_to\_sqlite.write\_csv

# Creating the Flask App

- Specified the Primary Key
- Mapped table to class and then returned it
- Produced a set of mappings from the metadata
- Set up mapped classes and relationships
- Then set up the flask

## app.js

- Built sample metadata for a state
- Obtained current values for “year” and “state”
- Created a bar chart for each year based on the price for about 10 cities
- Plotted those stats on a bar chart

# Style.CSS

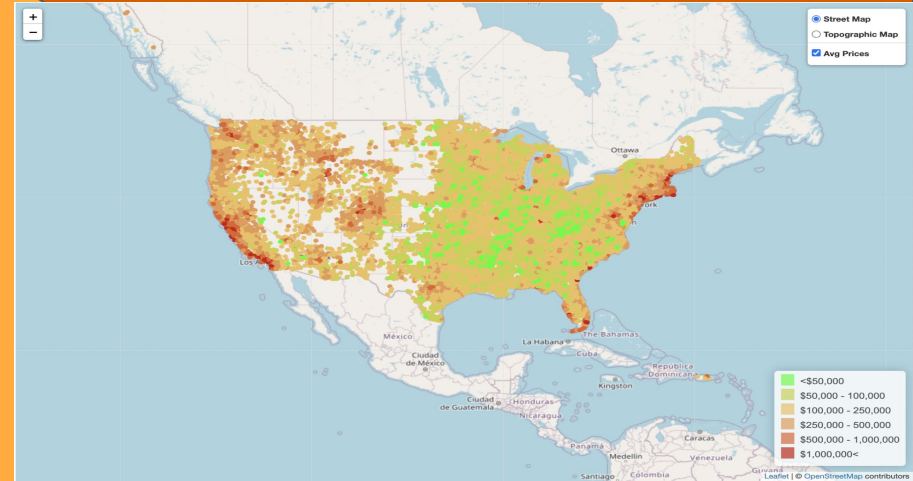
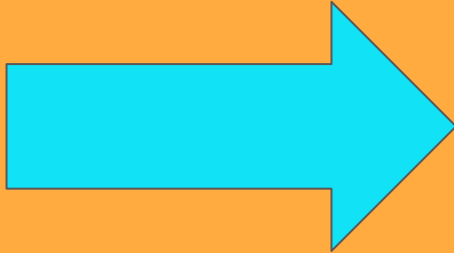
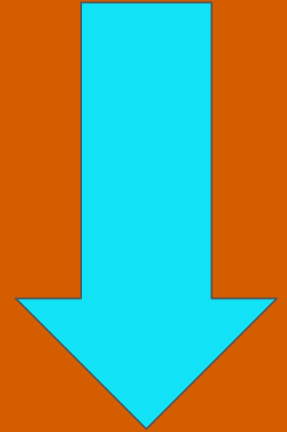
- Created a legend with leaflet and json
- Added font, background color, box shadow and border radius

# Creating Heat Map

- Used this website to choose colors:

- <https://www.google.com/search?client=firefox-b-1-d&q=color+picker>

- Designed map to reflect average prices





# Summary

- **Obtained data in the form of CSV files**
- **Cleaned and filtered the data to fit our needs**
- **Constructed a flask**
- **Created charts and plotted data on them**
- **Made legends for the charts and styled them**
- **Created heat map to reflect data**

# Conclusion

- Amidst the the Covid-19 Pandemic the amount of homes for sale in the United States dropped
- The average purchase price for homes in the United States grew as a direct result