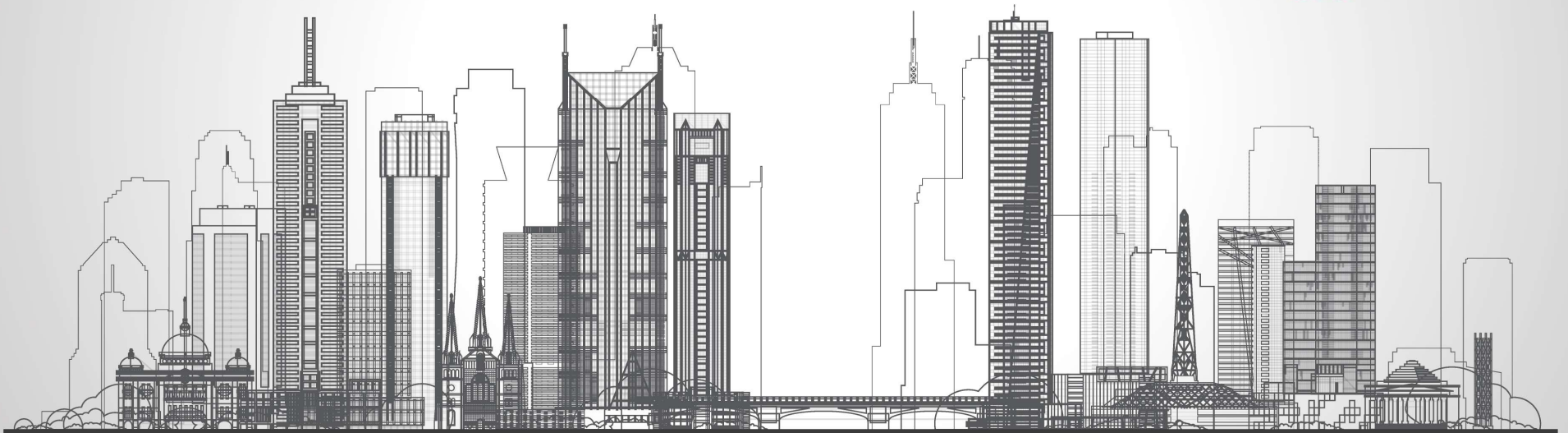




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[Image Credit to Sand and Glass -click for source](#)

The Data

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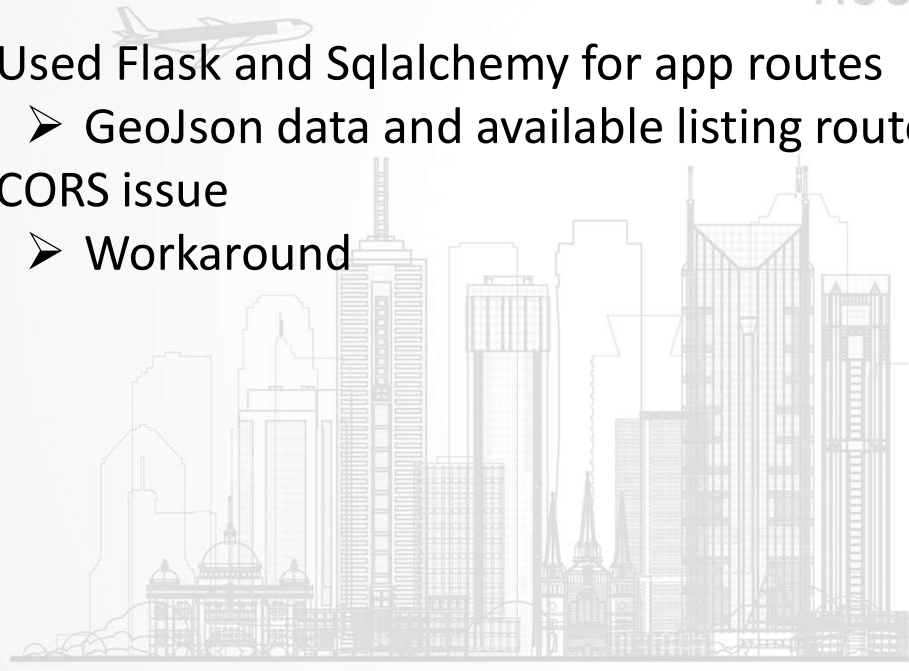
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- Data on Airbnb listing for Melbourne, Australia
- CSV file
- <http://insideairbnb.com/melbourne/>
- Jupyter Notebook used to clean data with pandas and numpy among others
- Originally 20k+ records
- Approximately 2k after cleaning
- Database was created using sqlite
- Listing info included neighborhood, review scores, availability, price, and host info

Flask

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- Used Flask and SQLAlchemy for app routes
 - GeoJson data and available listing route
- CORS issue
 - Workaround



Welcome To The Melbourne Airbnb Data API
We Currently Offer Data On Over 2k Airbnbs In Melbourne, Australia

To view webpage use the /map route!

Available Routes:

/map

/api/v1.0/GeoJson

/api/v1.0/available

```
{
  "type": "FeatureCollection",
  "features": [
    {
      "type": "Feature",
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        "type": "Point",
        "coordinates": [
          144.99016,
          -37.8203
        ]
      },
      "properties": {
        "id": 999067.0,
        "neighborhood_overview": "Richmond is a great neighbourhood. A beautiful walk across Yarra Park, past the Melbourne Cricket Ground, to the City - or along the River. Shops, cafes, and restaurants abound on Swan Street, and Bridge Road.",
        "host_name": "Ione",
        "host_since": "3/16/2013",
        "host_location": "Melbourne, Australia",
        "host_response_time": "within an hour",
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        "neighbourhood": "Richmond, Victoria, Australia",
        "neighbourhood_cleansed": "Yarra",
        "property_type": "Entire guesthouse",
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        "number_of_reviews": 741,
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    },
    {
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      "property_type": "Entire rental unit",
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    }
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}
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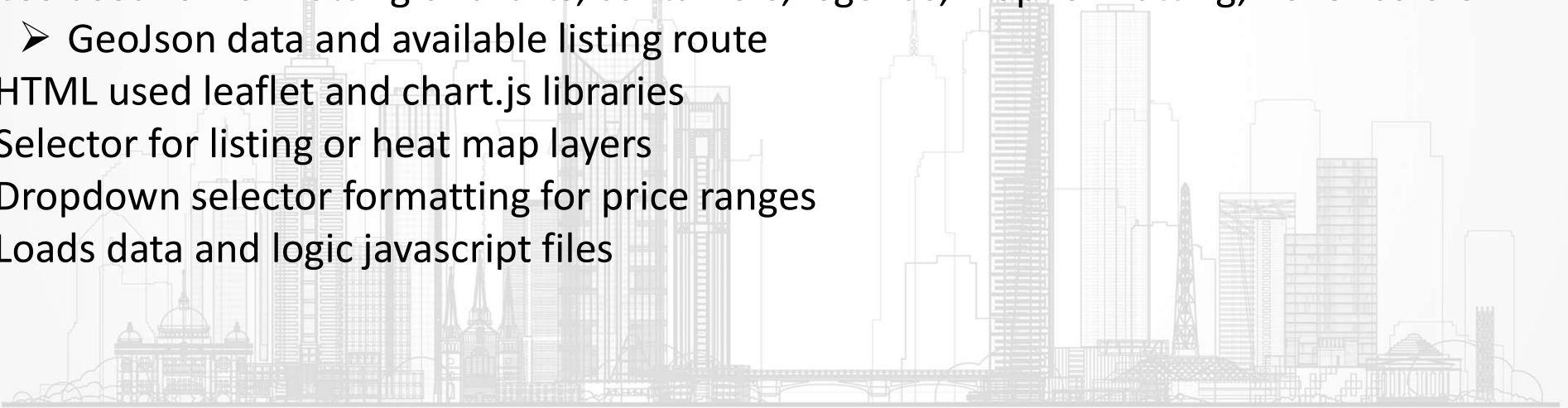
HTML/CSS

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- CSS used for formatting of charts, containers, legends, map formatting, hover colors +
 - GeoJson data and available listing route
- HTML used leaflet and chart.js libraries
- Selector for listing or heat map layers
- Dropdown selector formatting for price ranges
- Loads data and logic javascript files



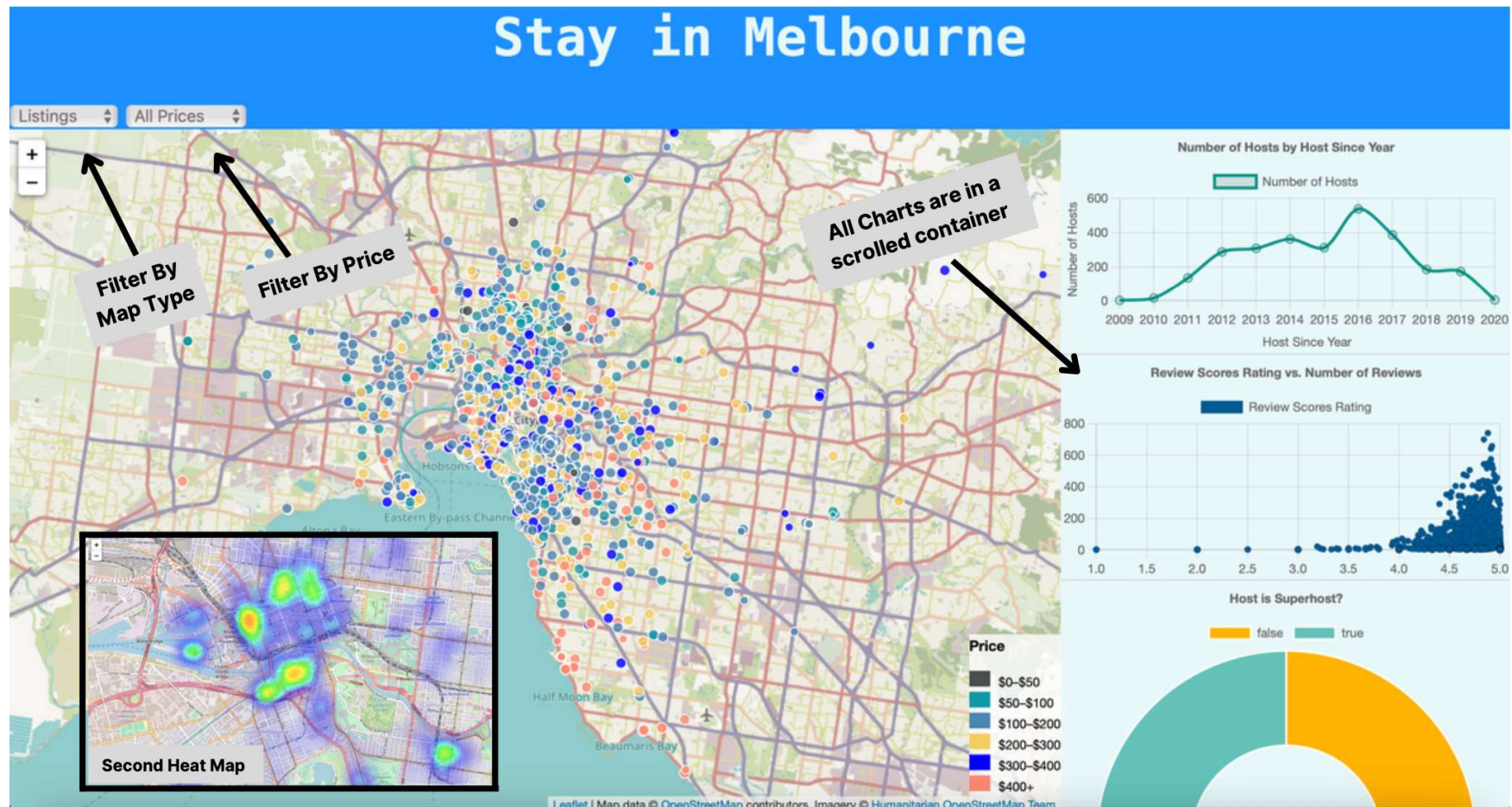
Javascript

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- Create map layer centered on Melbourne, Australia
- Created dropdown for price ranges
- Created markers for listings
 - Price
 - Neighborhood
 - Ratings
 - Host name
 - Availability
- Create map color legend based on price for marker colors
- Open Street Map layer and heat map layer
- Pull in data for charts, format objects, create charts
 - More on charts in the project reveal

Page teaser!



Grand finale

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*The moment we've all
been waiting for!
The finished project!*

