Transportation Price Airbnb UI

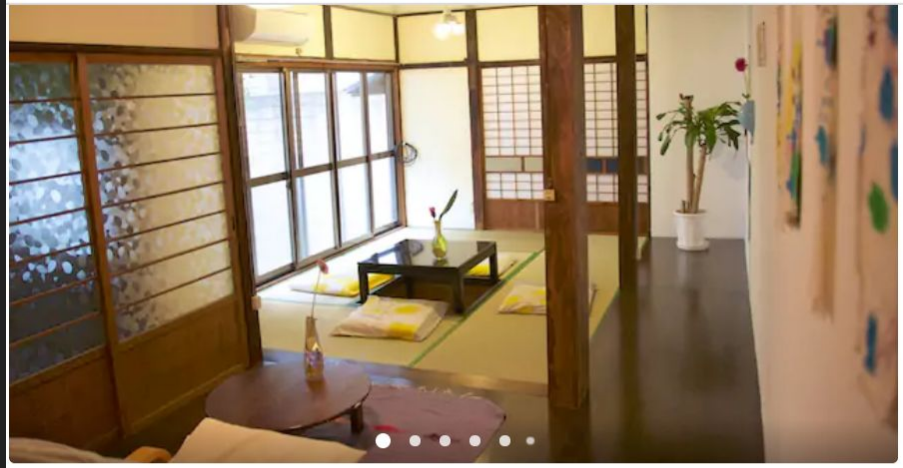
Tool to help Airbnb customers calculate traveling costs

Overview Of Airbnb’s Existing User Interface

- Variety of bookings (homes, experiences, restaurants)
- Filters (number of guests, home type, price)
- Other filters (different types of amenities, pet friendly?, facilities)

Accommodation (Tokyo) Choices

Dates | Guests | Home type | Price | Instant Book | More filters | 1 recently viewed home

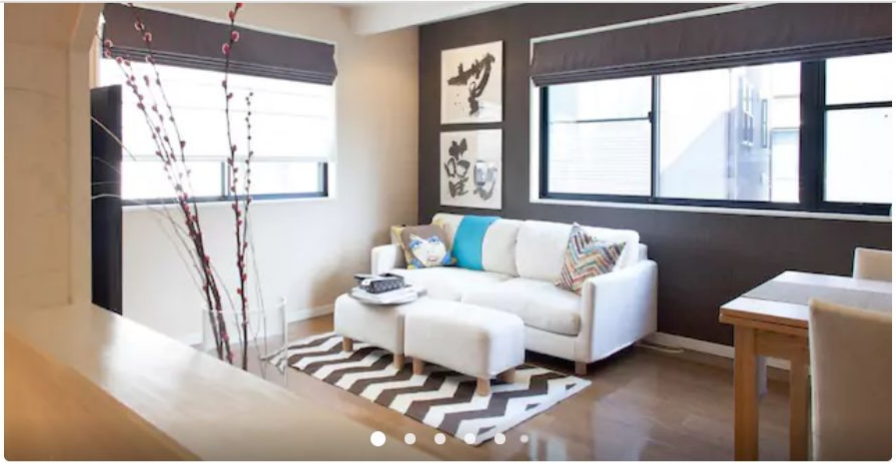


ENTIRE HOUSE · 3 BEDS

Old Folk Housen

From £54 per night

Language and currency



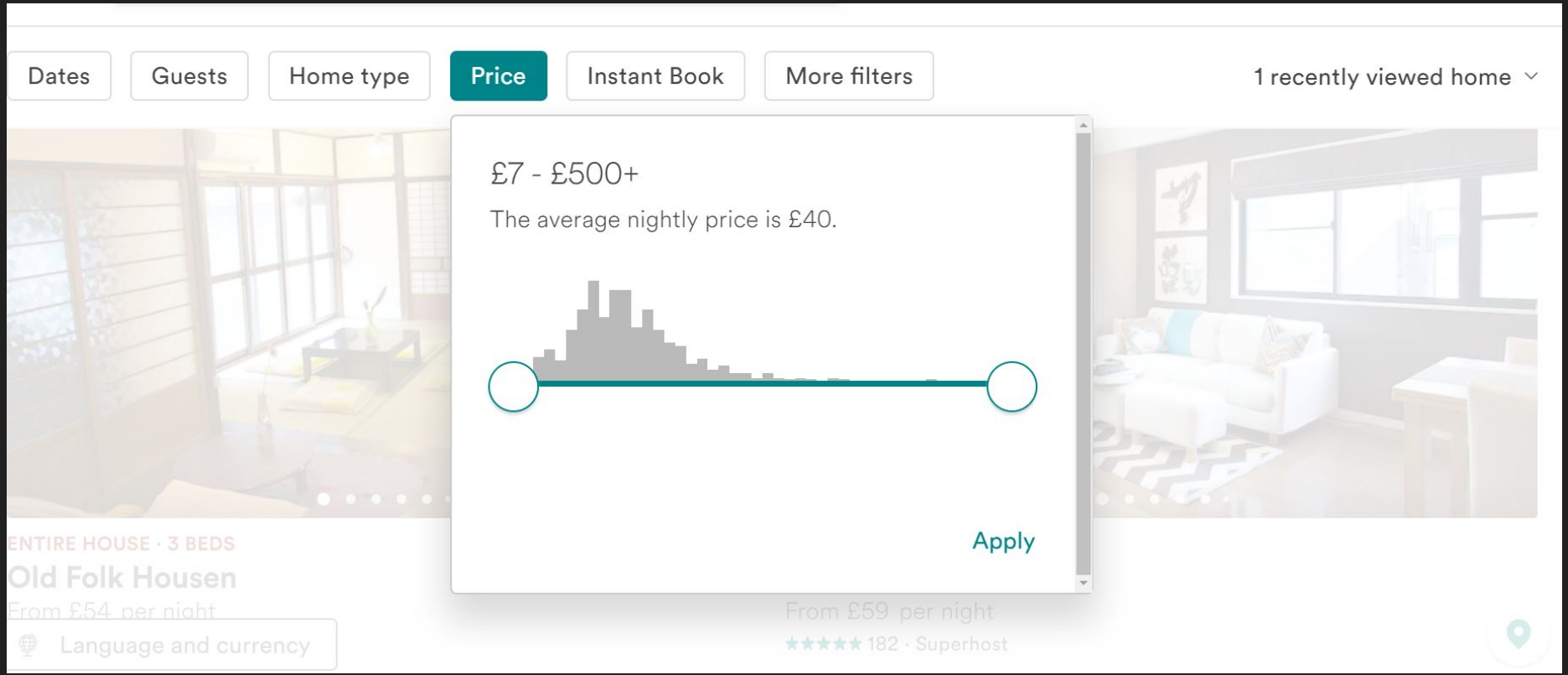
PRIVATE ROOM · 1 BED

Urban Tokyo House

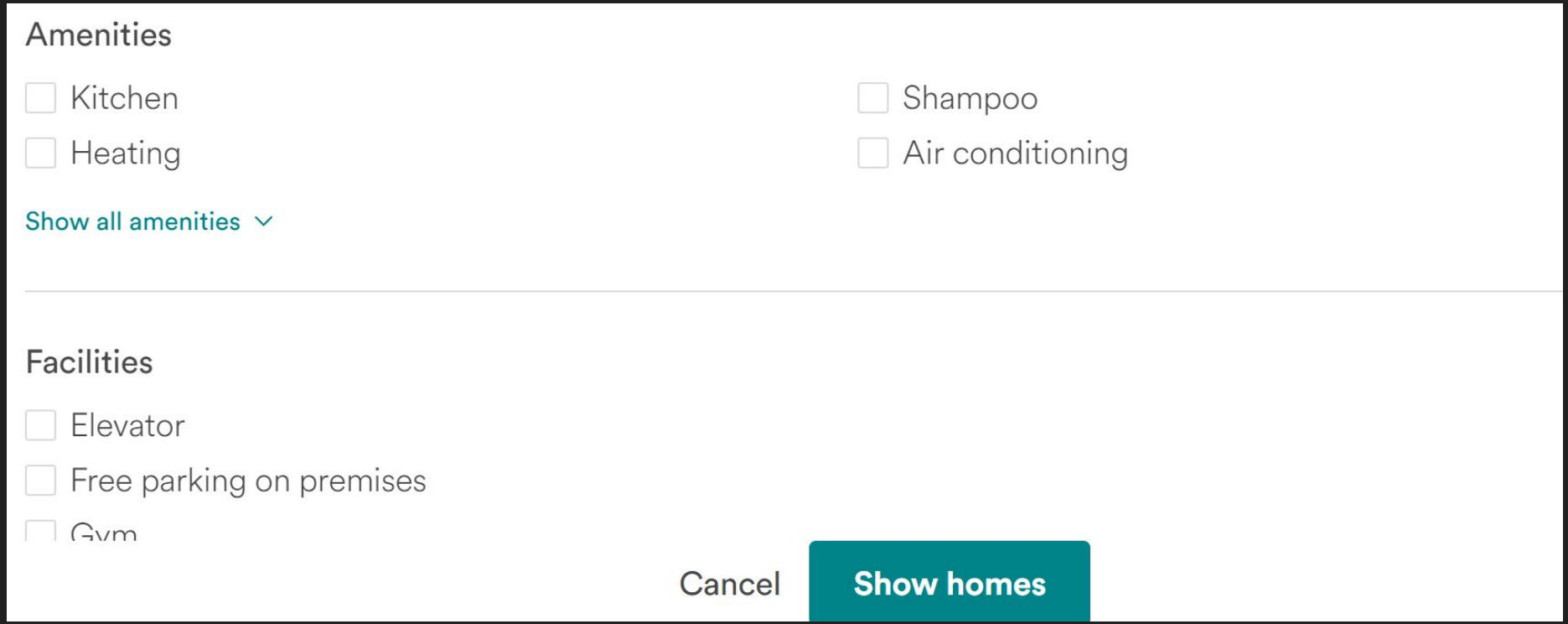
From £59 per night

★★★★★ 182 · Superhost

Price Filter



More Filters - Amenities, Facilities



The Problem

- The current system lacks information on traveling costs and traveling information
- This can be a concern for tourists who care about expenses and living with limited budget

Project Proposal

- The tool that will be developed will help users browse through accommodations and observe the average Uber fare from the country’s main airport to the accommodation
- Total cost information - (2 * Uber fare + Price of accommodation)
- The common filters are available (price, name of accommodation, neighborhood, room type)
- Avg price per neighborhood
- Map showing different accommodations, which can enhance user experience

Tools

- Tableau Public - for core analytics and representation of tool
- Jupiter Notebook - for manipulating and polishing data for use in tableau

Data Source

- Insideairbnb.com (the website has data on various popular cities' accommodation)
- For each csv file,, there will be information on name, host_id, host_name, neighborhood, latitude, longitude, room_type, price, minimum nights
- London data will be used for the tool

Exploratory Data Analysis (EDA)

- Using Jupyter Notebook
- Purpose is to play around with real data and gain experience
- Find some valuable insights such as the average price of accommodation per neighborhood

EDA (cont’d)

- Upload the csv file by importing pandas - in pandas dataframe
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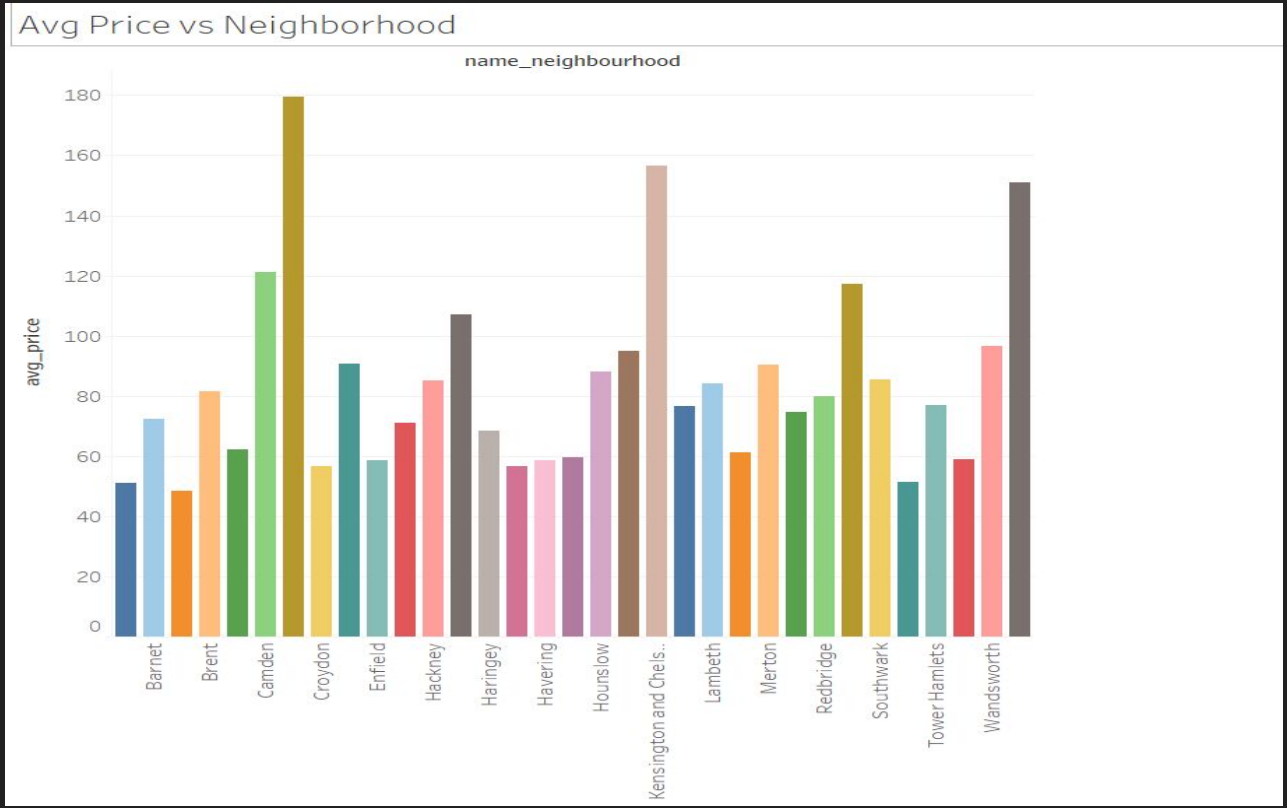
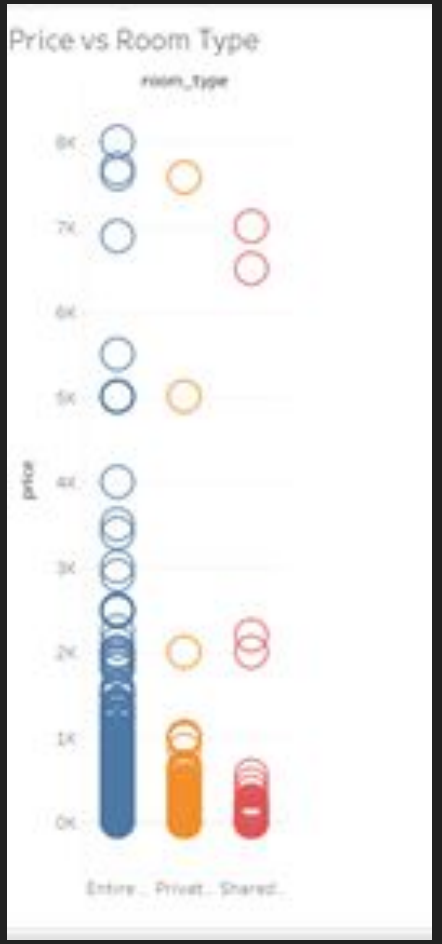
```
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
england_list = pd.read_csv('C:/Users/GE62/Downloads/listings.csv')
```

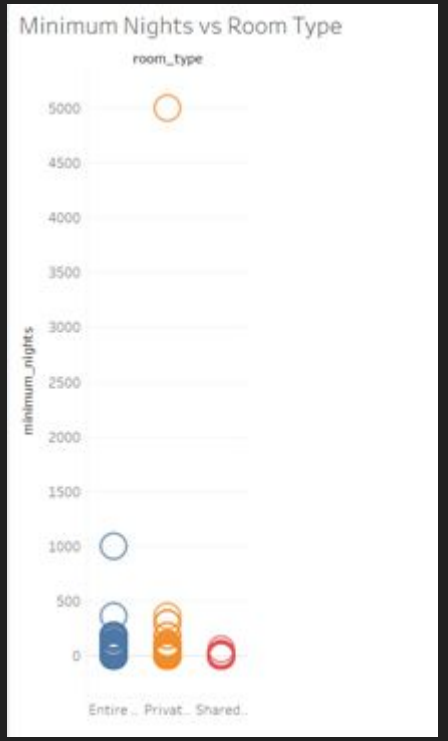
Average Price Vs Neighborhood



Price vs Accommodation

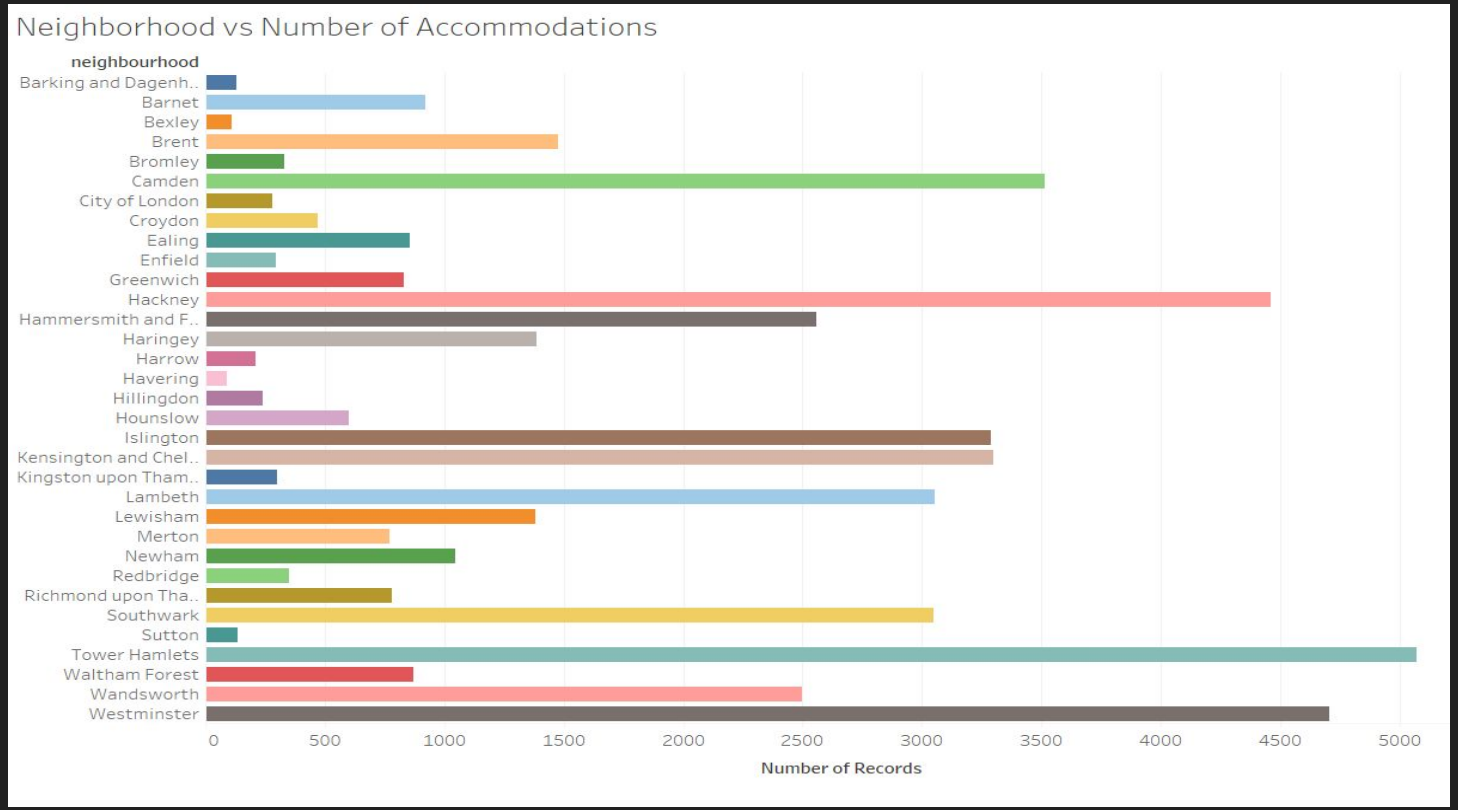


Minimum Nights vs Room Type

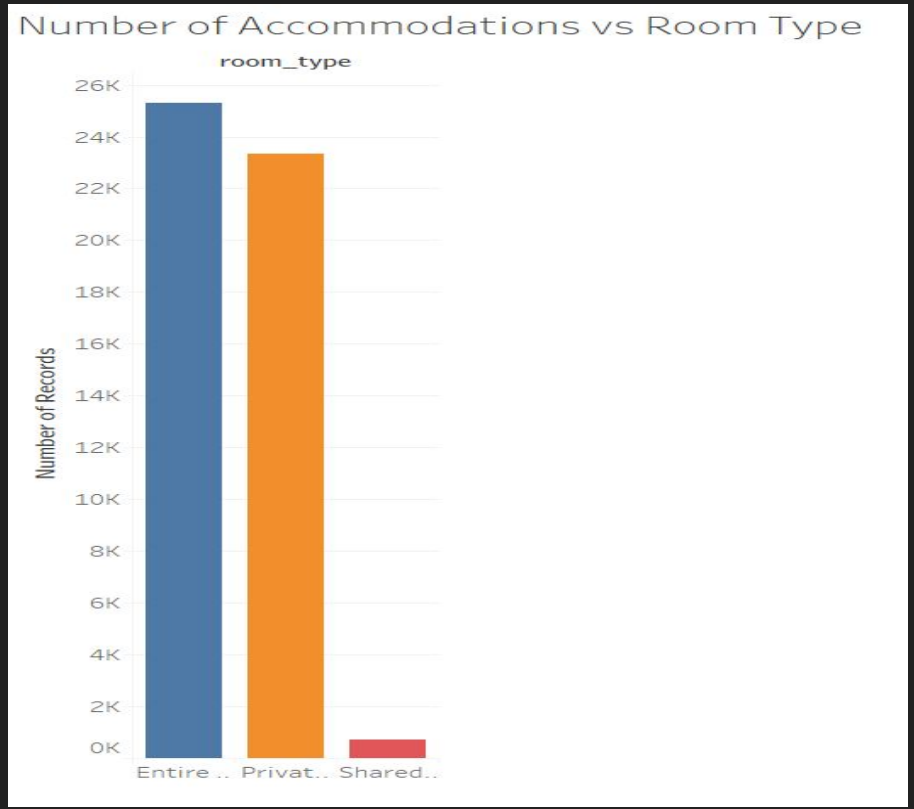


Other EDA Visualizations - Distance(m) vs Uber price

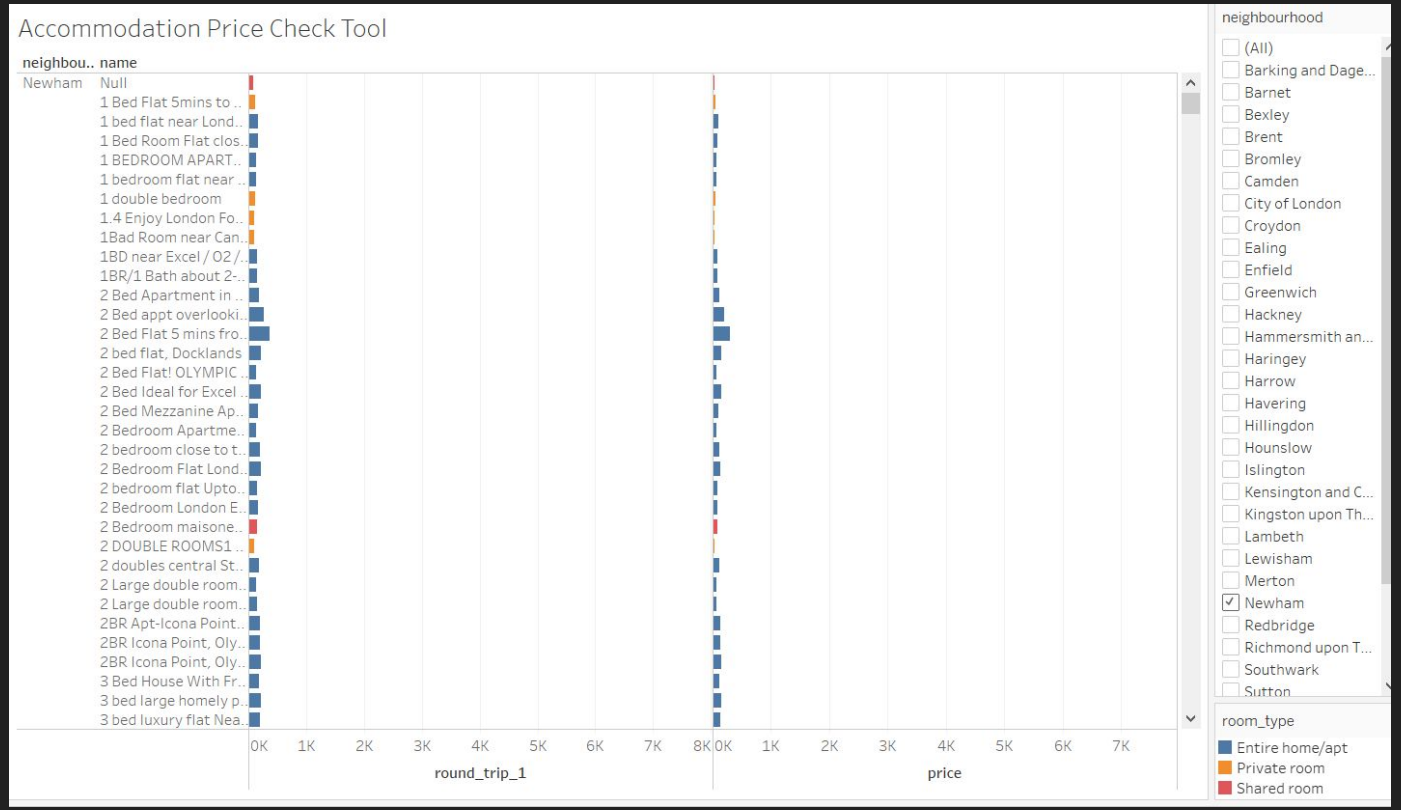
Neighborhood vs Accommodation



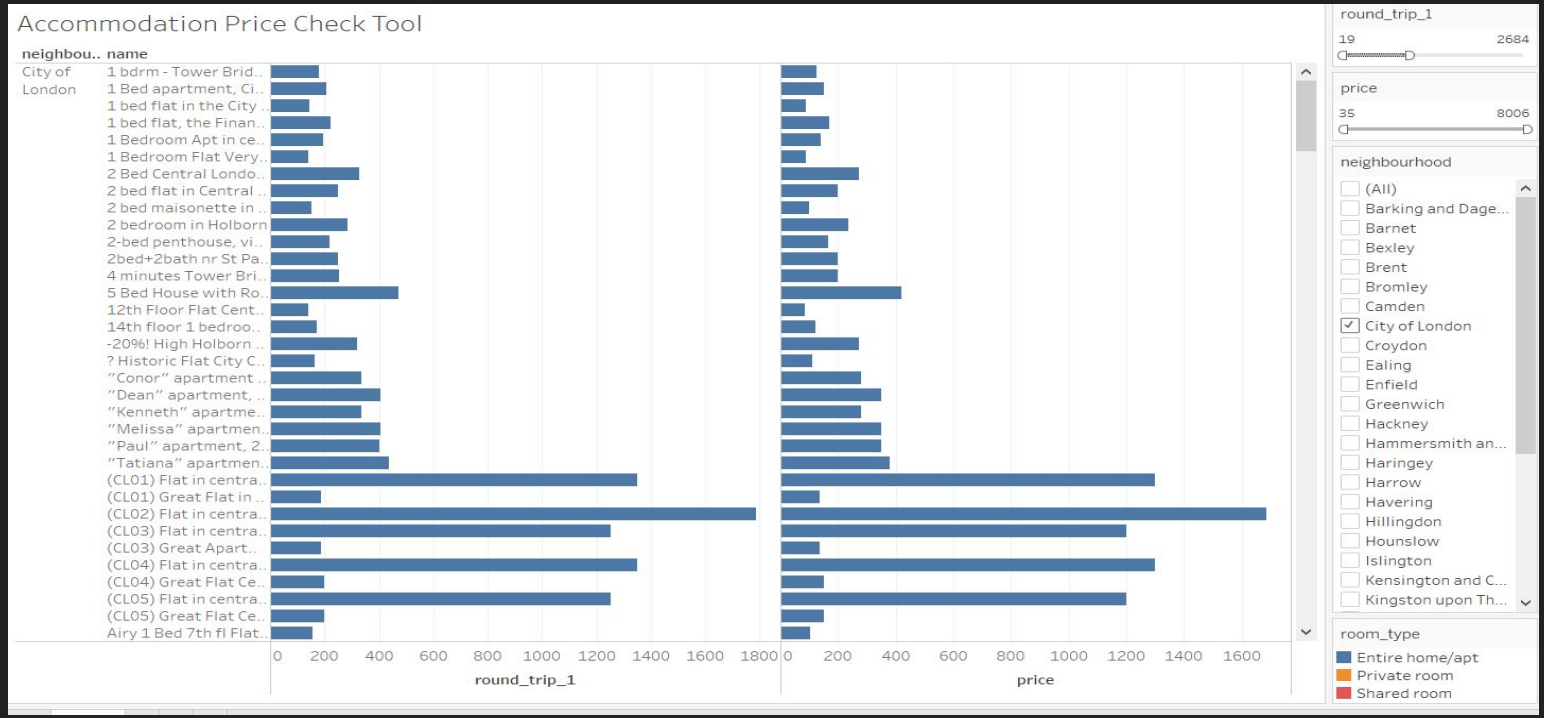
Accommodation Vs Room Type



Deliverable - Check Price Tool (Filter = Newham)

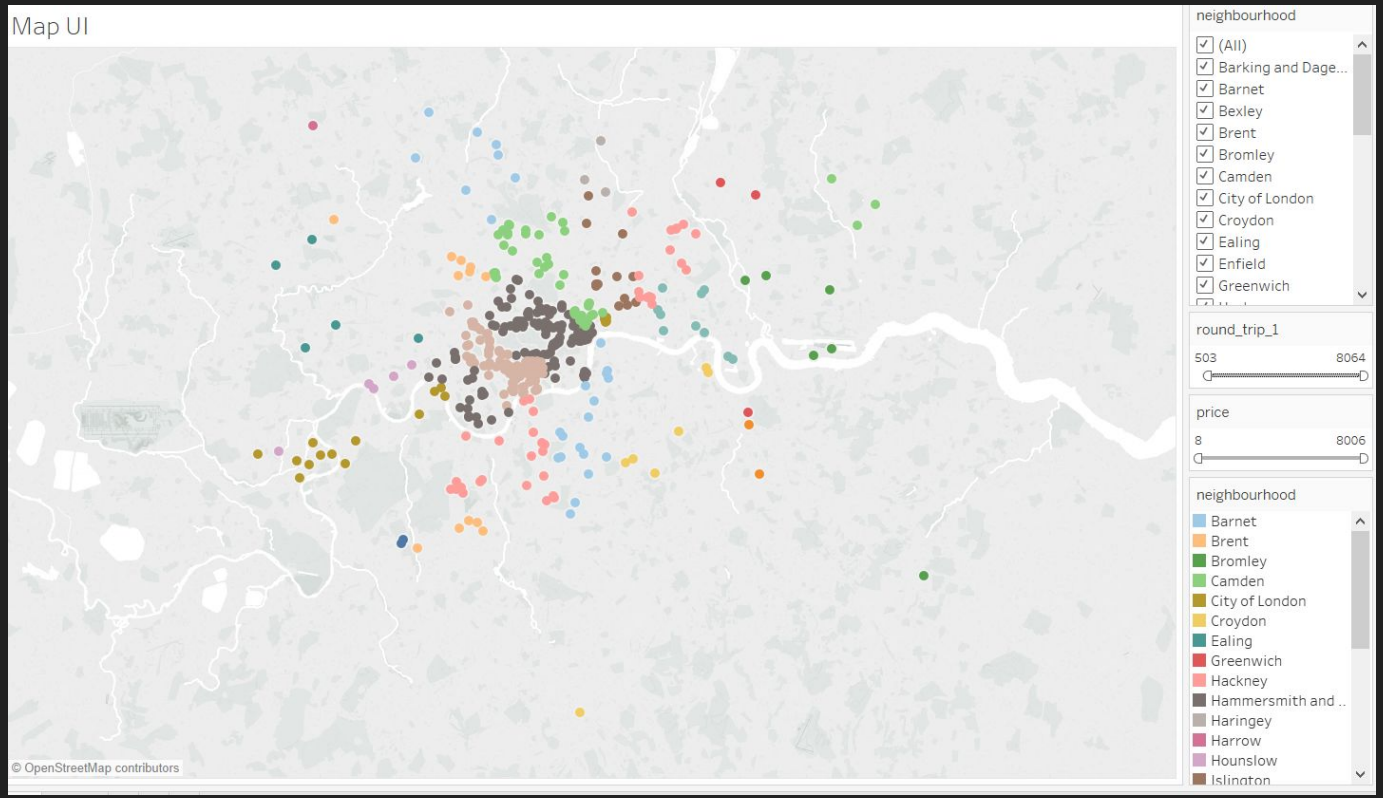


Check Price Tool (Filter = Newham, Round Trip Price Range = 19-2684)



Deliverable - Map UI (No Filter, Colors = neighborhood)

Deliverable - Map UI (Filter = Round Trip Price: 503-8064, Colors = neighborhood)



Deliverable - Map UI Interaction Showing Info