2. Data

2.2. Data requirements

Data containing the boroughs and neighbourhoods is required, as well as data containing neighbourhood locations, crime rates, house prices and venues.

2.3. Data description

The data containing neighbourhoods in London was scraped from Wikipedia. This webpage contains information about neighbourhoods, postcode districts and boroughs in London.

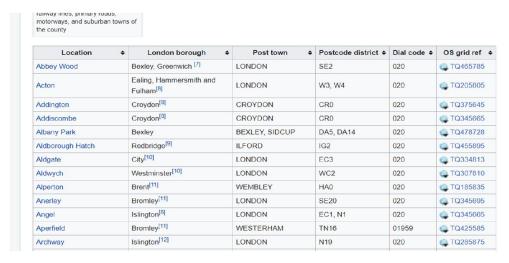


Figure 1: Wikipedia page showing list of areas in London

The Wikipedia page lacked information about the coordinates of the neighbourhoods. Therefore, Geocoder library was used to fetch the coordinates for each neighbourhood.

	Neighbourhood	Borough	Area	Latitude	Longitude
0	Abbey Wood	Bexley, Greenwich	SE2	51.482490	0.119194
1	Acton	Ealing, Hammersmith and Fulham	W3, W4	51.495053	-0.220839
2	Addington	Croydon	CR0	51.344980	-0.012265
3	Addiscombe	Croydon	CR0	51.344980	-0.012265
4	Albany Park	Bexley	DA5, DA14	51.457075	0.184164

Figure 2: Geographical coordinates of neighbourhoods in London

The data containing crime rates in London boroughs was gotten from <u>finder.com</u>. The webpage contained information of the crime rates per 1000 people and the total number of crimes reported for each borough in 2020.



Figure 3: webpage containing crime rates in London

The average housing price, as well as price per square feet in each London neighbourhood was gotten from propertydata.co.uk.



Figure 4: webpage showing average house prices per square feet [£] in each London borough

Foursquare api was used to get data of all the venues and their categories for each London neighbourhood. Foursquare is an American location data provider.

	Neighbourhood	Neighbourhood Latitude	Neighbourhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	Abbey Wood	51.482490	0.119194	Clam Field Recreation Area	51.479830	0.121023	Athletics & Sports
1	Abbey Wood	51.482490	0.119194	Abbey Wood Caravan Club	51.485502	0.120014	Campground
2	Abbey Wood	51.482490	0.119194	Bostall Woods	51.480026	0.115305	Forest
3	Abbey Wood	51.482490	0.119194	99 Bus to WW	51.481398	0.125636	Bus Station
4	Acton	51.495053	-0.220839	The Queen's Head	51.495975	-0.220711	Pub

Figure 5: dataframe containing venues, venue categories and venue coordinates in London