

# Property Price Analysis/Visualization of London

## Business Problem

When someone looks to move from one neighborhood to another in a major city, it can be assumed that they will usually look for neighborhoods similar/dissimilar to the one they have stayed in earlier. This can be a factor when deciding which neighborhood to move to. So, after retrieving property prices and relevant neighborhood data, a system can be designed to cluster/classify neighborhoods and help the stakeholders decide on the best fit according to their preferences.

London being the largest/most populated city in the UK, this can be a very valid use case for people looking to move in London, from any other city or London itself.

## Data

To build this service, we make use of property prices data from [propertydata.co.uk](https://propertydata.co.uk) and Foursquare API for the other venue/amenity details. Combining both, we can make a dataset to compare the amenities/prices of individual neighborhoods and then cluster them based on similarity. The neighborhood/area codes are retrieved from Wikipedia.

1. Neighborhood codes/Area Data: [https://en.wikipedia.org/wiki/List\\_of\\_areas\\_of\\_London](https://en.wikipedia.org/wiki/List_of_areas_of_London)
  - a. Sample:

	Location	London borough	Post town	Postcode district	Dial code	OS grid ref
0	Abbey Wood	Bexley, Greenwich [7]	LONDON	SE2	020	TQ465785
1	Acton	Ealing, Hammersmith and Fulham[8]	LONDON	W3, W4	020	TQ205805
2	Addington	Croydon[8]	CROYDON	CR0	020	TQ375645
3	Addiscombe	Croydon[8]	CROYDON	CR0	020	TQ345665
4	Albany Park	Bexley	BEXLEY, SIDCUP	DA5, DA14	020	TQ478728

2. Property Data for London: <https://propertydata.co.uk/cities/london>

a. Sample:

	Area	Avg yield	Avg price	£/sqft	5yr +/-	Explore data
0	BR1	3.7%	£434,470	£461	+24%	Explore data
1	BR2	3.4%	£480,252	£468	+25%	Explore data
2	BR3	3.6%	£442,642	£493	+25%	Explore data
3	BR5	3.2%	£462,260	£427	+24%	Explore data
4	BR6	2.9%	£570,996	£465	+25%	Explore data

3. Neighborhood Information/Venues/Amenities: <https://api.foursquare.com>