



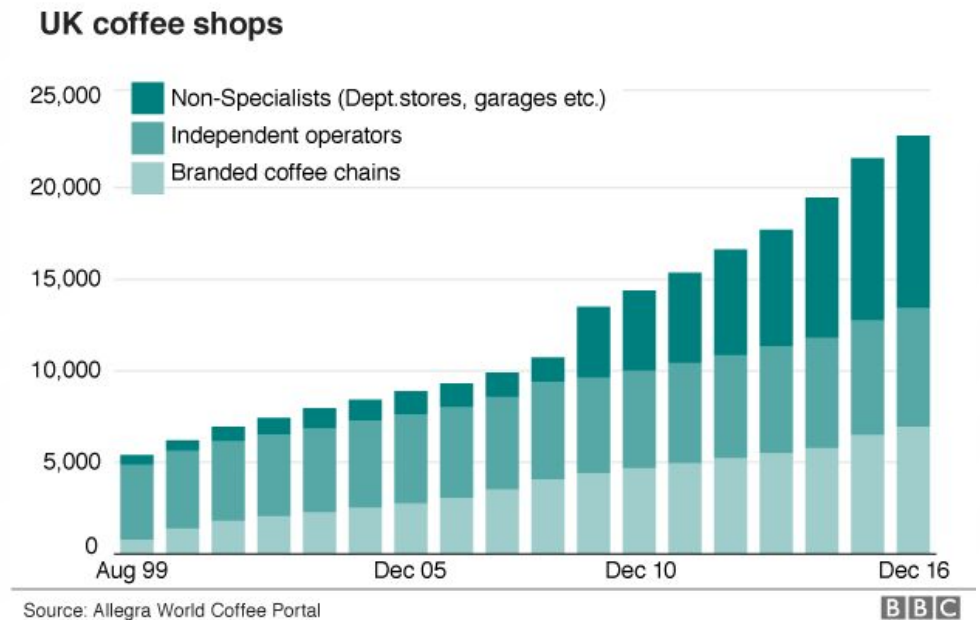
# BEST LONDON NEIGHBOURHOOD FOR A COFFEE SHOP

ALBERTO LAPEDRIZA, SEPTEMBER 2019

*BATTLE OF NEIGHBOURHOODS PRESENTATION*


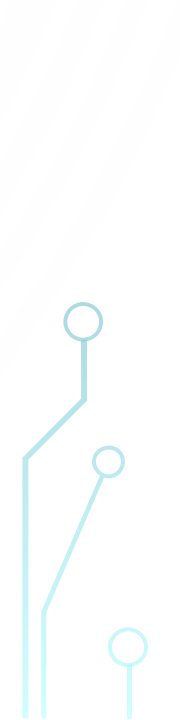
# INTRODUCTION & BUSINESS PROBLEM

- UK's coffee consumption has soared to 95 million cups a day in 2018, up from 70 million in 2008.
- This has translated in a big increase in both chain coffee shops and independent cafés in London.
- Independent and speciality coffee shops are on the rise.





# AIM AND AUDIENCE

- The **aim** of this project is to find out which neighbourhood in London would be the best to open a new café.
  - The **target audience** would be an entrepreneur or group of entrepreneurs that are looking to set up their new independent café in London. This project would help them to find out the less saturated neighbourhood to open their café.
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# DATA

- Dataset 1:

London neighbourhood and borough data comes for the Wikipedia page "List of areas of London": [https://en.wikipedia.org/wiki/List\\_of\\_areas\\_of\\_London](https://en.wikipedia.org/wiki/List_of_areas_of_London)

|   | Neighbourhood | Borough                        |
|---|---------------|--------------------------------|
| 0 | Abbey Wood    | Bexley, Greenwich              |
| 1 | Acton         | Ealing, Hammersmith and Fulham |
| 2 | Aldgate       | City                           |
| 3 | Aldwych       | Westminster                    |
| 4 | Anerley       | Bromley                        |

- Dataset 2:

Geographical coordinates of the London neighbourhoods (latitude and longitude) using the Geocoder package.

|   | Neighbourhood | Borough                        | Latitude  | Longitude |
|---|---------------|--------------------------------|-----------|-----------|
| 0 | Abbey Wood    | Bexley, Greenwich              | 51.492450 | 0.121270  |
| 1 | Acton         | Ealing, Hammersmith and Fulham | 51.513240 | -0.267460 |
| 2 | Aldgate       | City                           | 51.513308 | -0.077762 |
| 3 | Aldwych       | Westminster                    | 51.513307 | -0.117092 |
| 4 | Anerley       | Bromley                        | 51.412330 | -0.065390 |


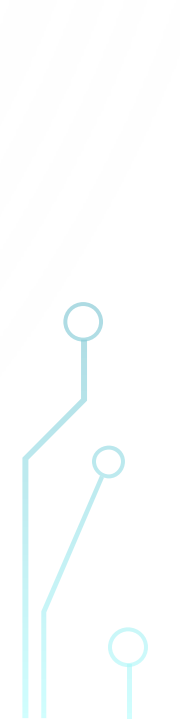
- Dataset 3:

Foursquare API to search the cafés and coffee shops for the geographical location data for each London neighbourhood.

|   | Neighbourhood | Neighbourhood Latitude | Neighbourhood Longitude | Venue                           | Venue Latitude | Venue Longitude | Venue Category |
|---|---------------|------------------------|-------------------------|---------------------------------|----------------|-----------------|----------------|
| 0 | Abbey Wood    | 51.492450              | 0.121270                | Bean @ Work                     | 51.491172      | 0.120649        | Coffee Shop    |
| 1 | Abbey Wood    | 51.492450              | 0.121270                | Abbey Cafe                      | 51.489754      | 0.120822        | Café           |
| 2 | Aldgate       | 51.513308              | -0.077762               | The Association                 | 51.513733      | -0.079132       | Coffee Shop    |
| 3 | Aldgate       | 51.513308              | -0.077762               | Kahaila Aldgate                 | 51.514046      | -0.077001       | Coffee Shop    |
| 4 | Aldgate       | 51.513308              | -0.077762               | Notes Coffee Roaster & Wine Bar | 51.514643      | -0.080671       | Coffee Shop    |



# RESULTS

- We are searching for cafés and coffee shops in 299 neighbourhoods in London.
  - The number of cafés and coffee shops obtained using the Foursquare API was 2215.
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- The top 10 neighbourhoods with more cafés ranged from Pentonville with 29 to Bedford Park with 22.

|     | Neighbourhood   | Count |
|-----|-----------------|-------|
| 184 | Pentonville     | 29    |
| 144 | Lisson Grove    | 26    |
| 178 | Paddington      | 26    |
| 1   | Aldgate         | 24    |
| 177 | Oval            | 23    |
| 8   | Barbican        | 23    |
| 126 | Islington       | 22    |
| 200 | Shepherd's Bush | 22    |
| 22  | Bloomsbury      | 22    |
| 13  | Bedford Park    | 22    |


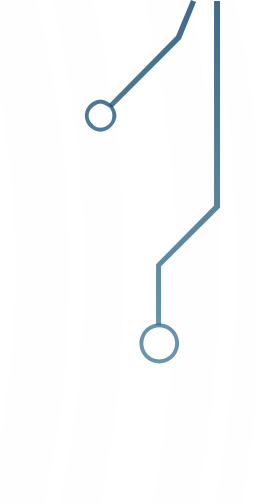
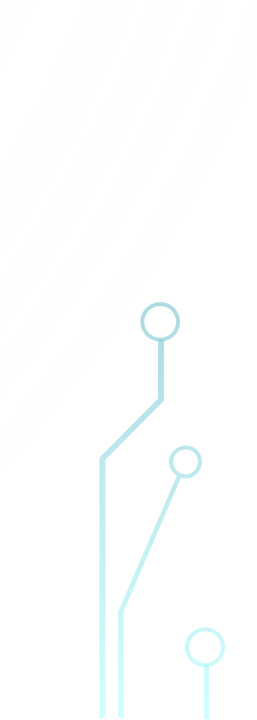
- The bottom 10 neighbourhoods with less number of cafés in London all had 1 only.

|     | Neighbourhood   | Count |
|-----|-----------------|-------|
| 174 | Oakleigh Park   | 1     |
| 145 | Little Ilford   | 1     |
| 43  | Catford         | 1     |
| 103 | Hackney Marshes | 1     |
| 240 | Totteridge      | 1     |
| 155 | Middle Park     | 1     |
| 66  | Dartford        | 1     |
| 234 | The Hyde        | 1     |
| 164 | Neasden         | 1     |
| 122 | Honor Oak       | 1     |





## Clustering:

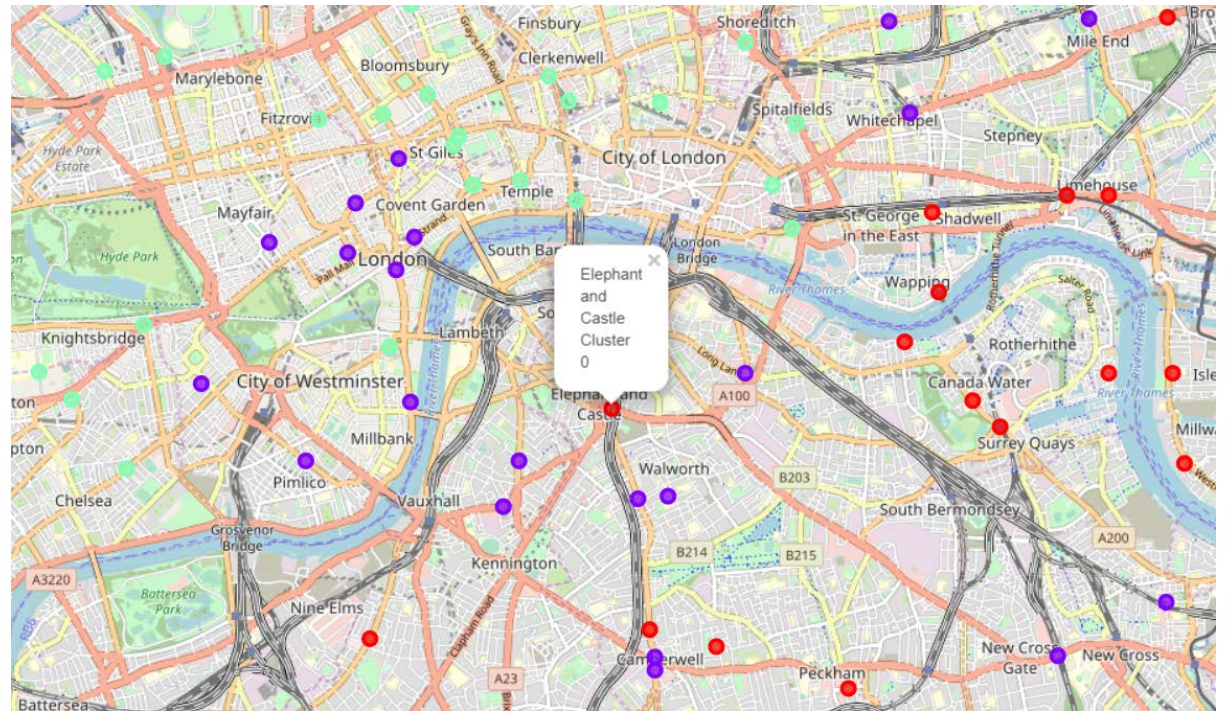
- The K-means algorithm grouped the neighbourhoods in 3 clusters:
    - Cluster 0: those neighbourhoods with a minimum number of cafes of 1 and a maximum of 7. These are residential neighbourhoods in the outskirts where people commute to the city centre for work and leisure.
    - Cluster 1: those neighbourhoods with a minimum number of cafes of 8 and a maximum of 15. Closer to central London, and are a mixture of residential, work and leisure areas.
    - Cluster 2: those neighbourhoods with a minimum number of cafes of 16 and a maximum of 29. Part of central London with all the shopping, cultural and leisure centres of the city as well as business centres. These are also the most touristic neighbourhoods.
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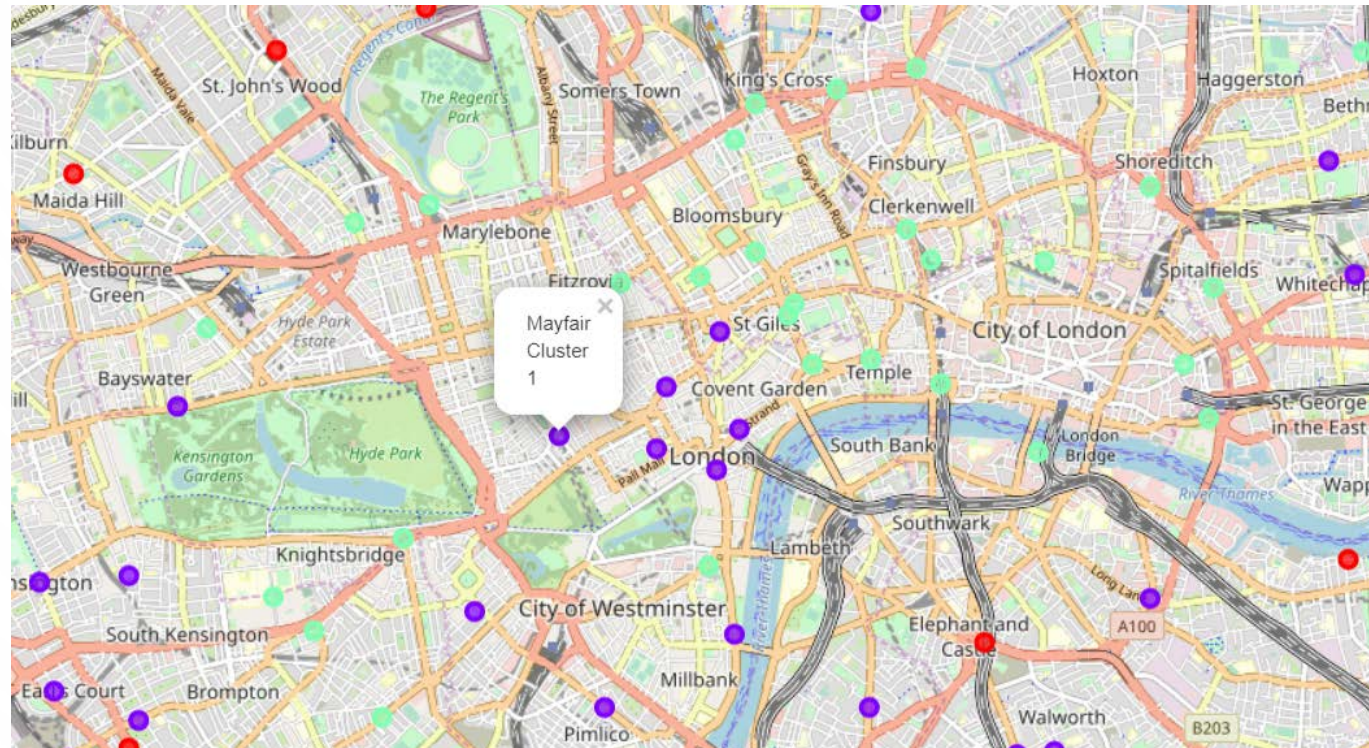


# DISCUSSION

- One of the best neighbourhoods is Elephant and Castle:
  - Part of Cluster 0 (low number of cafes)
  - Has 6 cafés.
  - Close to central London and is undergoing urban regeneration with a lot of investment. Up and coming neighbourhood

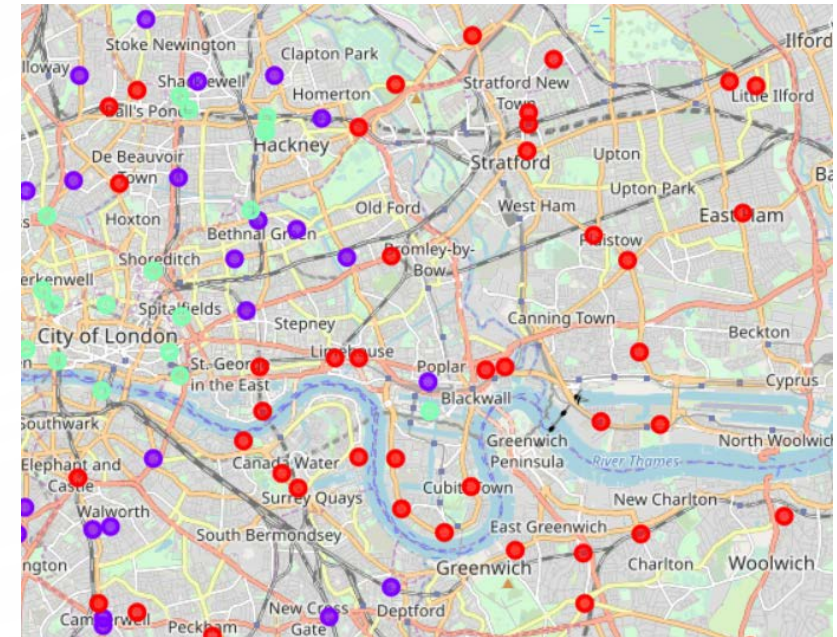
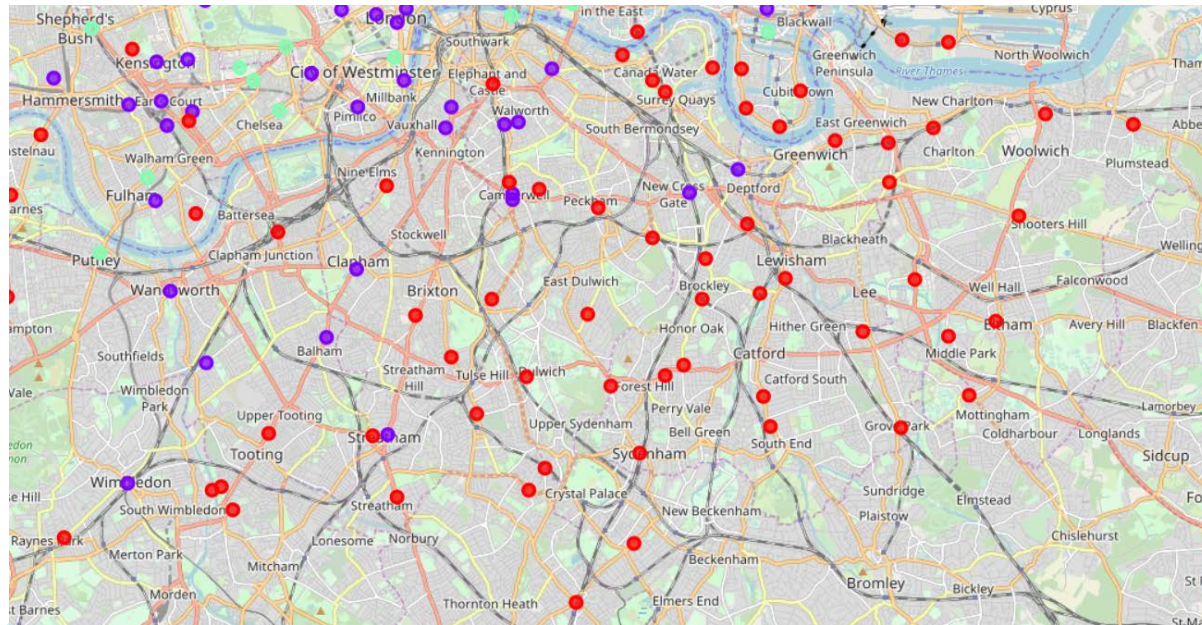


- Another great neighbourhood would be Mayfair:
  - Part of Cluster 1 (medium number of cafés)
  - Has 13 cafés.
  - Famous for high-end restaurants and hotels, and luxury shops. Good location for an upper-end speciality café.





- Two areas with a high number of neighbourhoods belonging to cluster 0:
  - South London.
  - East London.
- These have been traditionally less touristic and have less leisure and work centres, however they are becoming trendier and undergoing significant regeneration. Hence these would be areas with potential.
  - A great example is Stratford (has 4 cafés): suffered great developed for the London 2012 Olympic Games and has become a shopping and leisure destination.



# CONCLUSION

- By using data from Wikipedia, Geocoder and Foursquare API, we have clustered London neighbourhoods in low, medium and high number of cafés and coffee shops.
- This allowed us to identify two neighbourhoods with potential for a new cafés (Elephant and Castle and Mayfair) and two general areas (South and East London)
- Additional data such as proximity to parks, tube stations, or major roads, real estate availability, prices, economic power of every neighbourhood etc. needs to be taken into account for final decision.