

## Introduction: Business Problem

This project aims to select the safest borough in London based on the total crimes, explore the neighborhoods of that borough to find the 10 most common venues in each neighborhood and finally cluster the neighborhoods using k-mean clustering.

This report will be targeted to people who are looking to relocate to London. In order to finalise a neighborhood to hunt for an apartment, safety is considered as a top concern when moving to a new place. If you don't feel safe in your own home, you're not going to be able to enjoy living there. The crime statistics will provide an insight into this issue.

We will focus on the safest borough and explore its neighborhoods and the 10 most common venues in each neighborhood so that the best neighborhood suited to an individual's needs can be selected.

Data Based on definition of our problem, factors that will influence our decision are:

The total number of crimes committed in each of the borough during the last year. The most common venues in each of the neighborhood in the safest borough selected. Following data sources will be needed to extract/generate the required information:

Part 1: Preprocessing a real world data set from Kaggle showing the London Crimes from 2008 to 2016: A dataset consisting of the crime statistics of each borough in London obtained from Kaggle

Part 2: Scraping additional information of the different Boroughs in London from a Wikipedia page.: More information regarding the boroughs of London is scraped using the BeautifulSoup library

Part 3: Creating a new dataset of the Neighborhoods of the safest borough in London and generating their co-ordinates.: Co-ordinate of neighborhood will be obtained using Google Maps API geocoding

### ***Part 1: Preprocessing a real world data set from Kaggle showing the London Crimes from 2008 to 2016***

London Crime Data About this file

lsoa\_code: code for Lower Super Output Area in Greater London. borough: Common name for London borough. major\_category: High level categorization of crime minor\_category: Low level categorization of crime within major category. value: monthly reported count of categorical crime in given borough year: Year of reported counts, 2008-2016 month: Month of reported counts, 1-12 Data set URL:

<https://www.kaggle.com/jboysen/london-crime> (<https://www.kaggle.com/jboysen/london-crime>)

## 2. Methodology

Download all the dependencies.

```
In [7]: import requests # library to handle requests
import pandas as pd # library for data analysis
import numpy as np # library to handle data in a vectorized manner
import random # library for random number generation
from bs4 import BeautifulSoup # library for web scrapping

#!conda install -c conda-forge geopy --yes
from geopy.geocoders import Nominatim # module to convert an address into latitude and longitude values

# libraries for displaying images
from IPython.display import Image
from IPython.core.display import HTML

# tranforming json file into a pandas dataframe Library
from pandas.io.json import json_normalize

#!conda install -c conda-forge folium=0.5.0 --yes
import folium # plotting library

print('Folium installed')
print('Libraries imported.')
```

Folium installed  
Libraries imported.

In [6]: !pip install geocoder

```
Collecting geocoder
  Downloading https://files.pythonhosted.org/packages/4f/6b/13166c909ad2f2d76
b929a4227c952630ebaf0d729f6317eb09cbceccbab/geocoder-1.38.1-py2.py3-none-any.
whl (98kB)
    |████████████████████████████████████████| 102kB 8.5MB/s ta 0:00:011
Requirement already satisfied: future in /opt/conda/envs/Python36/lib/python
3.6/site-packages (from geocoder) (0.17.1)
Requirement already satisfied: requests in /opt/conda/envs/Python36/lib/pytho
n3.6/site-packages (from geocoder) (2.21.0)
Requirement already satisfied: click in /opt/conda/envs/Python36/lib/python3.
6/site-packages (from geocoder) (7.0)
Collecting ratelim (from geocoder)
  Downloading https://files.pythonhosted.org/packages/f2/98/7e6d147fd16a10a5f
821db6e25f192265d6ecca3d82957a4fdd592cad49c/ratelim-0.1.6-py2.py3-none-any.wh
l
Requirement already satisfied: six in /opt/conda/envs/Python36/lib/python3.6/
site-packages (from geocoder) (1.12.0)
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in /opt/conda/envs/Pytho
n36/lib/python3.6/site-packages (from requests->geocoder) (3.0.4)
Requirement already satisfied: certifi>=2017.4.17 in /opt/conda/envs/Python3
6/lib/python3.6/site-packages (from requests->geocoder) (2020.6.20)
Requirement already satisfied: idna<2.9,>=2.5 in /opt/conda/envs/Python36/li
b/python3.6/site-packages (from requests->geocoder) (2.8)
Requirement already satisfied: urllib3<1.25,>=1.21.1 in /opt/conda/envs/Pytho
n36/lib/python3.6/site-packages (from requests->geocoder) (1.24.1)
Requirement already satisfied: decorator in /opt/conda/envs/Python36/lib/pyth
on3.6/site-packages (from ratelim->geocoder) (4.3.2)
Installing collected packages: ratelim, geocoder
Successfully installed geocoder-1.38.1 ratelim-0.1.6
```

## Define Foursquare Credentials and Version

Make sure that you have created a Foursquare developer account and have your credentials handy

```
In [8]: CLIENT_ID = 'R01LINGO2WC45KLRLKT3ZHU2QENAO2IPRK2N2ELOHRNK4P3K' # your Foursqua
re ID
CLIENT_SECRET = '4JT1TWRMXMPLX5IOKNBAFU3L3ARXK4D5JJDPFK1CLRZM2ZVW' # your Four
square Secret

VERSION = '20180604'
LIMIT = 30

print('Your credentials:')
print('CLIENT_ID: ' + CLIENT_ID)
print('CLIENT_SECRET: ' + CLIENT_SECRET)
```

```
Your credentials:
CLIENT_ID: R01LINGO2WC45KLRLKT3ZHU2QENAO2IPRK2N2ELOHRNK4P3K
CLIENT_SECRET: 4JT1TWRMXMPLX5IOKNBAFU3L3ARXK4D5JJDPFK1CLRZM2ZVW
```

## Read the Dataset

```
In [33]: import types
import pandas as pd
from boto3.client import Config
import boto3

def __iter__(self): return 0

# @hidden_cell
# The following code accesses a file in your IBM Cloud Object Storage. It includes your credentials.
# You might want to remove those credentials before you share the notebook.

body = client_8220351bc0004e91b24046ea654af42b.get_object(Bucket='capstoneprojectthebattleofneighbo-donotdelete-pr-lrkfnbfbe2uomd',Key='london_crime_by_losa.csv')['Body']
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType( __iter__, body )

df = pd.read_csv(body)
df.head()
```

Out[33]:

	Isao_code	borough	major_category	minor_category	value	year	month
0	E01001116	Croydon	Burglary	Burglary in Other Buildings	0	2016	11
1	E01001646	Greenwich	Violence Against the Person	Other violence	0	2016	11
2	E01000677	Bromley	Violence Against the Person	Other violence	0	2015	5
3	E01003774	Redbridge	Burglary	Burglary in Other Buildings	0	2016	3
4	E01004563	Wandsworth	Robbery	Personal Property	0	2008	6

```
In [34]: # Taking only the most recent year (2016) and dropping the rest
df.drop(df.index[df['year'] != 2016], inplace = True)

# Removing all the entires where crime values are null
df = df[df.value != 0]

# Reset the index and dropping the previous index
df = df.reset_index(drop=True)
```

```
In [35]: df.shape
```

Out[35]: (392042, 7)

In [36]: *# View the top of the dataset*  
df.head()

Out[36]:

	Isao_code	borough	major_category	minor_category	value	year	month
0	E01004177	Sutton	Theft and Handling	Theft/Taking of Pedal Cycle	1	2016	8
1	E01000733	Bromley	Criminal Damage	Criminal Damage To Motor Vehicle	1	2016	4
2	E01003989	Southwark	Theft and Handling	Theft From Shops	4	2016	8
3	E01002276	Havering	Burglary	Burglary in a Dwelling	1	2016	8
4	E01003674	Redbridge	Drugs	Possession Of Drugs	2	2016	11

### Change the column names

In [37]: df.columns = ['LSOA\_Code', 'Borough', 'Major\_Category', 'Minor\_Category', 'No\_of\_Crimes', 'Year', 'Month']  
df.head()

Out[37]:

	LSOA_Code	Borough	Major_Category	Minor_Category	No_of_Crimes	Year	Month
0	E01004177	Sutton	Theft and Handling	Theft/Taking of Pedal Cycle	1	2016	8
1	E01000733	Bromley	Criminal Damage	Criminal Damage To Motor Vehicle	1	2016	4
2	E01003989	Southwark	Theft and Handling	Theft From Shops	4	2016	8
3	E01002276	Havering	Burglary	Burglary in a Dwelling	1	2016	8
4	E01003674	Redbridge	Drugs	Possession Of Drugs	2	2016	11

In [38]: df.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 392042 entries, 0 to 392041
Data columns (total 7 columns):
LSOA_Code      392042 non-null object
Borough        392042 non-null object
Major_Category  392042 non-null object
Minor_Category  392042 non-null object
No_of_Crimes    392042 non-null int64
Year           392042 non-null int64
Month          392042 non-null int64
dtypes: int64(3), object(4)
memory usage: 20.9+ MB
```

### Total number of crimes in each Borough

```
In [39]: df['Borough'].value_counts()
```

```
Out[39]: Lambeth                17605
Southwark                16560
Croydon                  16254
Newham                   15622
Ealing                   15284
Tower Hamlets            15219
Brent                    14980
Barnet                   14668
Hackney                  14392
Lewisham                 14235
Haringey                 14202
Enfield                  13658
Wandsworth               13498
Westminster              13383
Islington                13116
Greenwich                12750
Camden                   12632
Hillingdon               12417
Hounslow                 12316
Waltham Forest           12121
Bromley                  11980
Redbridge                11490
Hammersmith and Fulham   10281
Barking and Dagenham     9784
Havering                 9699
Kensington and Chelsea   9653
Harrow                   8257
Bexley                   8245
Merton                   8223
Richmond upon Thames     7199
Sutton                   6823
Kingston upon Thames     5374
City of London           122
Name: Borough, dtype: int64
```

### The total crimes per major category

```
In [40]: df['Major_Category'].value_counts()
```

```
Out[40]: Theft and Handling      129159
Violence Against the Person    123050
Criminal Damage                48584
Burglary                       43020
Drugs                          21782
Robbery                        14889
Other Notifiable Offences      11558
Name: Major_Category, dtype: int64
```

### Pivoting the table to view the no. of crimes for each major category in each Borough

```
In [41]: London_crime = pd.pivot_table(df, values=['No_of_Crimes'],
                                         index=['Borough'],
                                         columns=['Major_Category'],
                                         aggfunc=np.sum, fill_value=0)

London_crime.head()
```

Out[41]:

Major_Category	No_of_Crimes						
	Burglary	Criminal Damage	Drugs	Other Notifiable Offences	Robbery	Theft and Handling	Violence Against the Person
Borough							
<b>Barking and Dagenham</b>	1287	1949	919	378	534	5607	6067
<b>Barnet</b>	3402	2183	906	499	464	9731	7499
<b>Bexley</b>	1123	1673	646	294	209	4392	4503
<b>Brent</b>	2631	2280	2096	536	919	9026	9205
<b>Bromley</b>	2214	2202	728	417	369	7584	6650

## Reset the index

```
In [42]: London_crime.reset_index(inplace = True)
```

```
In [43]: London_crime['Total'] = London_crime.sum(axis=1)
London_crime.head(33)
```



Out[43]:

Major_Category	Borough	No_of_Crimes						
		Burglary	Criminal Damage	Drugs	Other Notifiable Offences	Robbery	Theft and Handling	Violence Against the Person
0	Barking and Dagenham	1287	1949	919	378	534	5607	6067
1	Barnet	3402	2183	906	499	464	9731	7499
2	Bexley	1123	1673	646	294	209	4392	4503
3	Brent	2631	2280	2096	536	919	9026	9205
4	Bromley	2214	2202	728	417	369	7584	6650
5	Camden	2652	1935	1493	490	899	14088	7626
6	City of London	2	2	10	6	4	129	25
7	Croydon	2738	3219	1367	718	1139	9229	10302
8	Ealing	2492	2562	1355	613	669	10040	9396
9	Enfield	2541	2136	1063	492	807	8037	7409
10	Greenwich	1780	2476	867	521	486	8010	8590
11	Hackney	2719	1981	1353	499	1030	11851	8832
12	Hammersmith and Fulham	1531	1408	1321	474	397	8925	6118
13	Haringey	2474	2233	1540	551	1248	10554	8572
14	Harrow	1994	1212	473	267	377	4537	4293
15	Havering	1826	1804	718	389	311	5919	5936
16	Hillingdon	2229	2470	1042	1305	420	9045	7830
17	Hounslow	1808	2213	1086	665	392	8682	7405
18	Islington	2051	1903	1777	508	936	12077	7840
19	Kensington and Chelsea	1449	1051	1680	326	523	9855	4696
20	Kingston upon Thames	879	1054	743	189	121	3803	3192
21	Lambeth	3087	2764	2738	635	1196	13155	10496
22	Lewisham	2071	2351	1617	485	869	7702	8809
23	Merton	1419	1418	466	249	283	4894	4026
24	Newham	2115	2496	1684	713	1472	11964	9646
25	Redbridge	1997	1650	1017	381	599	7447	6417
26	Richmond upon Thames	1359	1148	320	217	106	4769	3155
27	Southwark	2946	2621	1838	494	1317	12946	9472
28	Sutton	1233	1316	461	253	165	3516	3712

Major_Category	Borough	No_of_Crimes						
		Burglary	Criminal Damage	Drugs	Other Notifiable Offences	Robbery	Theft and Handling	Violence Against the Person
29	Tower Hamlets	2794	2357	1629	678	1234	10953	9608
30	Waltham Forest	1873	1989	1042	444	602	7357	7409
31	Wandsworth	2351	1836	870	415	609	10789	6809
32	Westminster	3218	2179	2049	708	1822	27520	10834

## Removing the multi index so that it will be easier to merge

```
In [44]: London_crime.columns = London_crime.columns.map(' '.join)
London_crime.head()
```

Out[44]:

	Borough	No_of_CrimesBurglary	No_of_CrimesCriminal Damage	No_of_CrimesDrugs	No_of_CrimesOther Notifiable Offences
0	Barking and Dagenham	1287	1949	919	
1	Barnet	3402	2183	906	
2	Bexley	1123	1673	646	
3	Brent	2631	2280	2096	
4	Bromley	2214	2202	728	

## Renaming the columns

```
In [45]: London_crime.columns = ['Borough', 'Burglary', 'Criminal Damage', 'Drugs', 'Other
Notifiable Offences',
                                'Robbery', 'Theft and Handling', 'Violence Against the P
erson', 'Total']
London_crime.head()
```

Out[45]:

	Borough	Burglary	Criminal Damage	Drugs	Other Notifiable Offences	Robbery	Theft and Handling	Violence Against the Person	Total
0	Barking and Dagenham	1287	1949	919	378	534	5607	6067	16741
1	Barnet	3402	2183	906	499	464	9731	7499	24684
2	Bexley	1123	1673	646	294	209	4392	4503	12840
3	Brent	2631	2280	2096	536	919	9026	9205	26693
4	Bromley	2214	2202	728	417	369	7584	6650	20164

```
In [46]: # Shape of the data set
London_crime.shape
```

Out[46]: (33, 9)

```
In [47]: # View the Columns in the data frame
# London_crime.columns.toList()
```

## Part 2: Scraping additional information of the different Boroughs in London from a Wikipedia page

Using Beautiful soup to scrap the latitude and longitude of the boroughs in London

URL: [https://en.wikipedia.org/wiki/List\\_of\\_London\\_boroughs](https://en.wikipedia.org/wiki/List_of_London_boroughs)  
([https://en.wikipedia.org/wiki/List\\_of\\_London\\_boroughs](https://en.wikipedia.org/wiki/List_of_London_boroughs))

```
In [48]: # getting data from internet
wikipedia_link='https://en.wikipedia.org/wiki/List_of_London_boroughs'
raw_wikipedia_page= requests.get(wikipedia_link).text

# using beautiful soup to parse the HTML/XML codes.
soup = BeautifulSoup(raw_wikipedia_page,'xml')
print(soup.prettify())
```

```

<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html>
<html class="client-nojs" dir="ltr" lang="en">
  <head>
    <meta charset="UTF-8"/>
    <title>
      List of London boroughs - Wikipedia
    </title>
    <script>
      document.documentElement.className="client-js";RLCONF={
"wgBreakFrames":!1,"wgSeparatorTransformTable":["",""],
"wgDigitTransformTable":["",""],"wgDefaultDateFormat":
"dmy","wgMonthNames":["","January","February","March","
April","May","June","July","August","September","October",
"November","December"],"wgRequestId":"a01a86ab-7987-41bd-93af-799c6e97af64",
"wgCSPNonce":!1,"wgCanonicalNamespace":"","wgCanonicalSpecialPageName":!1,
"wgNamespaceNumber":0,"wgPageName":"List_of_London_boroughs",
"wgTitle":"List of London boroughs","wgCurRevisionId":958873870,
"wgRevisionId":958873870,"wgArticleId":28092685,"wgIsArticle":!0,
"wgIsRedirect":!1,"wgAction":"view","wgUserName":null,"wgUserGroups":
["*"],"wgCategories":["Use dmy dates from August 2015","Use British English from August 2015",
"Lists of coordinates","Geographic coordinate lists","Articles with Geo","London boroughs",
"Lists of places in London"],"wgPageContentLanguage":"en",
"wgPageContentModel":"wikitext","wgRelevantPageName":"List_of_London_boroughs",
"wgRelevantArticleId":28092685,"wgIsProbablyEditable":!0,
"wgRelevantPageIsProbablyEditable":!0,"wgRestrictionEdit":[],
"wgRestrictionMove":[],
"wgMediaViewerOnClick":!0,"wgMediaViewerEnabledByDefault":!0,
"wgPopupsReferencePreviews":!1,"wgPopupsConflictsWithNavPopupGadget":!1,
"wgVisualEditor":{"pageLanguageCode":"en","pageLanguageDir":"ltr",
"pageVariantFallbacks":"en"},"wgMFDisplayWikibaseDescriptions":{"search":!0,
"nearby":!0,"watchlist":!0,"tagline":!1},"wgWMESESchemaEditAttemptStepOversample":!1,
"wgULSCurrentAutonym":"English","wgNoticeProject":"wikipedia",
"wgWikibaseItemId":"Q6577004","wgCentralAuthMobileDomain":!1,
"wgEditSubmitButtonLabelPublish":!0,"wgULSPosition":"interlanguage"},
RLSTATE={"ext.globalCssJs.user.styles":"ready","site.styles":"ready",
"noscript":"ready","user.styles":"ready","ext.globalCssJs.user":"ready",
"user":"ready","user.options":"loading","ext.cite.styles":"ready",
"skins.vector.styles.legacy":"ready","jquery.tablesorter.styles":"ready",
"jquery.makeCollapsible.styles":"ready","mediawiki.toc.styles":"ready",
"wikibase.client.init":"ready","ext.visualEditor.desktopArticleTarget.noscript":
"ready","ext.uls.interlanguage":"ready","ext.wikimediaBadges":"ready"},
RLPAGEMODULES=["ext.cite.ux-enhancements","site","mediawiki.page.startup",
"mediawiki.page.ready","jquery.tablesorter","jquery.makeCollapsible",
"mediawiki.toc","skins.vector.legacy.js","ext.gadget.ReferenceTooltips",
"ext.gadget.charinsert","ext.gadget.extra-toolbar-buttons",
"ext.gadget.refToolbar","ext.gadget.switcher","ext.centralauth.centralautologin",
"mmv.head","mmv.bootstrap.autostart","ext.popups","ext.visualEditor.desktopArticleTarget.init",
"ext.visualEditor.targetLoader","ext.eventlogging","ext.wikimediaEvents",
"ext.navigationTiming","ext.uls.compactlinks","ext.uls.interface",
"ext.cx.eventlogging.campaigns","ext.quicksurveys.init","ext.centralNotice.geoIP",
"ext.centralNotice.startUp"];
    </script>
    <script>
      (RLQ=window.RLQ||[]).push(function(){mw.loader.implement("user.options@1hzi",function($,jQuery,require,module){/*@nomin*/mw.user.tokens.set({"patrolToken":"+\\","watchToken":"+\\","csrfToken":"+\\"});});});
    </script>
    <link href="/w/load.php?lang=en&modules=ext.cite.styles%7Cext.uls.interlanguage%7Cext.visualEditor.desktopArticleTarget.noscript%7Cext.wikimediaBadg

```

```

es%7Cjquery.makeCollapsible.styles%7Cjquery.tablesorter.styles%7Cmediawiki.to
c.styles%7Cskins.vector.styles.legacy%7Cwikibase.client.init&only=styles&
&skin=vector" rel="stylesheet"/>
<script async="" src="/w/load.php?lang=en&modules=startup&only=scri
pts&raw=1&skin=vector"/>
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p;skin=vector" rel="stylesheet"/>
<meta content="MediaWiki 1.35.0-wmf.38" name="generator"/>
<meta content="origin" name="referrer"/>
<meta content="origin-when-crossorigin" name="referrer"/>
<meta content="origin-when-cross-origin" name="referrer"/>
<link href="/w/index.php?title=List_of_London_boroughs&action=edit" rel
="alternate" title="Edit this page" type="application/x-wiki"/>
<link href="/w/index.php?title=List_of_London_boroughs&action=edit" rel
="edit" title="Edit this page"/>
<link href="/static/apple-touch/wikipedia.png" rel="apple-touch-icon"/>
<link href="/static/favicon/wikipedia.ico" rel="shortcut icon"/>
<link href="/w/opensearch_desc.php" rel="search" title="Wikipedia (en)" typ
e="application/opensearchdescription+xml"/>
<link href="//en.wikipedia.org/w/api.php?action=rsd" rel="EditURI" type="ap
plication/rsd+xml"/>
<link href="//creativecommons.org/licenses/by-sa/3.0/" rel="license"/>
<link href="/w/index.php?title=Special:RecentChanges&feed=atom" rel="al
ternate" title="Wikipedia Atom feed" type="application/atom+xml"/>
<link href="https://en.wikipedia.org/wiki/List_of_London_boroughs" rel="can
onical"/>
<link href="//login.wikimedia.org" rel="dns-prefetch"/>
<link href="//meta.wikimedia.org" rel="dns-prefetch"/>
<!--[if lt IE 9]><script src="/w/resources/lib/html5shiv/html5shiv.js"></sc
ript><![endif]>-->
</head>
<body class="mediawiki ltr sitedir-ltr mw-hide-empty-elt ns-0 ns-subject mw-
editable page-List_of_London_boroughs rootpage-List_of_London_boroughs skin-v
ector action-view skin-vector-legacy minerva--history-page-action-enabled">
<div class="noprint" id="mw-page-base"/>
<div class="noprint" id="mw-head-base"/>
<div class="mw-body" id="content" role="main">
<a id="top"/>
<div class="mw-body-content" id="siteNotice">
<!-- CentralNotice -->
</div>
<div class="mw-indicators mw-body-content">
</div>
<h1 class="firstHeading" id="firstHeading" lang="en">
List of London boroughs
</h1>
<div class="mw-body-content" id="bodyContent">
<div class="noprint" id="siteSub">
From Wikipedia, the free encyclopedia
</div>
<div id="contentSub"/>
<div id="jump-to-nav"/>
<a class="mw-jump-link" href="#mw-head">
Jump to navigation
</a>
<a class="mw-jump-link" href="#p-search">

```

twelve

[illegible]



```

<a href="#See_also">
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    3
  </span>
  <span class="toctext">
    See also
  </span>
</a>
</li>
<li class="toclevel-1 tocsection-4">
  <a href="#Notes">
    <span class="tocnumber">
      4
    </span>
    <span class="toctext">
      Notes
    </span>
  </a>
</li>
<li class="toclevel-1 tocsection-5">
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    <span class="tocnumber">
      5
    </span>
    <span class="toctext">
      References
    </span>
  </a>
</li>
<li class="toclevel-1 tocsection-6">
  <a href="#External_links">
    <span class="tocnumber">
      6
    </span>
    <span class="toctext">
      External links
    </span>
  </a>
</li>
</ul>
</div>
<h2>
  <span class="mw-headline" id="List_of_boroughs_and_local_authorities">
    List of boroughs and local authorities
  </span>
  <span class="mw-editsection">
    <span class="mw-editsection-bracket">
      [
    </span>
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Waltham Forest London Borough Council
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  The
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    City of London
  </a>
  is the 33rd principal division of Greater London but it is not a Londo
n borough.
</p>

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<th>
  Political control
</th>
<th width="120px">
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<th>
  Area (sq mi)
</th>
<th>
  Population
  <br/>
  (2011 est)
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  Co-ordinates
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<th>
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    <br/>
    map
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    City of London
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            /
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            </span>
          </span>
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            (
              <span class="fn org">
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        . 4 December 1979. p. 15280.
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ghs"/>

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        5 February
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      2019
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</li>
<li>
  <a href="/wiki/City_of_Westminster" title="City of Westminster"
r">
    Westminster
  </a>
</li>
</ul>
</div>
</td>
</tr>
<tr>
  <th class="navbox-group" scope="row" style="width:1%">
    Ceremonial
  </th>
  <td class="navbox-list navbox-odd" style="text-align:left;border-le
ft-width:2px;border-left-style:solid;width:100%;padding:0px">
    <div style="padding:0em 0.25em">

```

```

<ul>
<li>
  City of London
  <ul>
    <li>
      <a href="/wiki/Lord_Mayor_of_London" title="Lord Mayor of Lon
don">
        Lord Mayor
      </a>
    </li>
    <li>
      <a href="/wiki/Lord_Lieutenant_of_the_City_of_London" title
="Lord Lieutenant of the City of London">
        Lord Lieutenant
      </a>
    </li>
    <li>
      <a href="/wiki/Sheriffs_of_the_City_of_London" title="Sheriff
s of the City of London">
        Sheriffs
      </a>
    </li>
  </ul>
</li>
<li>
  Greater London
  <ul>
    <li>
      <a class="mw-redirect" href="/wiki/Lord_Lieutenant_of_Greater
_London" title="Lord Lieutenant of Greater London">
        Lord Lieutenant
      </a>
    </li>
    <li>
      <a href="/wiki/High_Sheriff_of_Greater_London" title="High Sh
eriff of Greater London">
        High Sheriff
      </a>
    </li>
  </ul>
</li>
</ul>
</div>
</td>
</tr>
<tr>
  <th class="navbox-group" scope="row" style="width:1%">
    <a href="/wiki/History_of_local_government_in_London" title="Histo
ry of local government in London">
      Historical
    </a>
  </th>
  <td class="navbox-list navbox-even" style="text-align:left;border-l
eft-width:2px;border-left-style:solid;width:100%;padding:0px">
    <div style="padding:0em 0.25em">
      <ul>
        <li>

```

```

        <a href="/wiki/Metropolitan_Board_of_Works" title="Metropolitan
Board of Works">
            Metropolitan Board of Works
        </a>
        <span style="font-size:85%;">
            (MBW) 1855-1889
        </span>
    </li>
    <li>
        <a href="/wiki/London_County_Council" title="London County Coun
cil">
            London County Council
        </a>
        <span style="font-size:85%;">
            (LCC) 1889-1965
        </span>
    </li>
    <li>
        <a href="/wiki/Greater_London_Council" title="Greater London Co
uncil">
            Greater London Council
        </a>
        <span style="font-size:85%;">
            (GLC) 1965-1986
        </span>
    </li>
    <li>
        <a href="/wiki/List_of_heads_of_London_government" title="List
of heads of London government">
            Leaders
        </a>
    </li>
</ul>
</div>
</td>
</tr>
</tbody>
</table>
</div>
<!--

```

NewPP limit report

Parsed by mw1366

Cached time: 20200627111458

Cache expiry: 2592000

Dynamic content: false

Complications: [vary-revision-sha1]

CPU time usage: 0.328 seconds

Real time usage: 0.415 seconds

Preprocessor visited node count: 5111/1000000

Post-expand include size: 79923/2097152 bytes

Template argument size: 1057/2097152 bytes

Highest expansion depth: 13/40

Expensive parser function count: 2/500

Unstrip recursion depth: 1/20

Unstrip post-expand size: 12959/5000000 bytes

Number of Wikibase entities loaded: 0/400

Lua time usage: 0.119/10.000 seconds

Lua memory usage: 3.33 MB/50 MB

```
-->
    <!--
Transclusion expansion time report (%,ms,calls,template)
100.00% 316.801      1 -total
 41.52% 131.527      2 Template:Reflist
 35.17% 111.426      2 Template:London_Gazette
 33.22% 105.236      2 Template:Cite_magazine
 18.68%  59.178     33 Template:Coord
 13.11%  41.531      1 Template:Use_dmy_dates
  9.84%  31.180     33 Template:English_district_control
  6.03%  19.109      1 Template:London
  5.58%  17.673      2 Template:DMCA
  4.85%  15.360      2 Template:Dated_maintenance_category
-->
    <!-- Saved in parser cache with key enwiki:pcache:idhash:28092685-0!canonical and timestamp 20200627111458 and revision id 958873870
-->
        </div>
        <noscript>
            
        </noscript>
    </div>
    <div class="printfooter">
        Retrieved from "
        <a dir="ltr" href="https://en.wikipedia.org/w/index.php?title=List_of_London_boroughs&oldid=958873870">
            https://en.wikipedia.org/w/index.php?title=List_of_London_boroughs&oldid=958873870
        </a>
        "
    </div>
    <div class="catlinks" data-mw="interface" id="catlinks">
        <div class="mw-normal-catlinks" id="mw-normal-catlinks">
            <a href="/wiki/Help:Category" title="Help:Category">
                Categories
            </a>
            :
            <ul>
                <li>
                    <a href="/wiki/Category:London_boroughs" title="Category:London boroughs">
                        London boroughs
                    </a>
                </li>
                <li>
                    <a href="/wiki/Category:Lists_of_places_in_London" title="Category:Lists of places in London">
                        Lists of places in London
                    </a>
                </li>
            </ul>
        </div>
        <div class="mw-hidden-catlinks mw-hidden-cats-hidden" id="mw-hidden-catlinks">
```

```

Hidden categories:
<ul>
  <li>
    <a href="/wiki/Category:Use_dmy_dates_from_August_2015" title="Category:Use dmy dates from August 2015">
      Use dmy dates from August 2015
    </a>
  </li>
  <li>
    <a href="/wiki/Category:Use_British_English_from_August_2015" title="Category:Use British English from August 2015">
      Use British English from August 2015
    </a>
  </li>
  <li>
    <a href="/wiki/Category:Lists_of_coordinates" title="Category:Lists of coordinates">
      Lists of coordinates
    </a>
  </li>
  <li>
    <a href="/wiki/Category:Geographic_coordinate_lists" title="Category:Geographic coordinate lists">
      Geographic coordinate lists
    </a>
  </li>
  <li>
    <a href="/wiki/Category:Articles_with_Geo" title="Category:Articles with Geo">
      Articles with Geo
    </a>
  </li>
</ul>
</div>
</div>
<div class="visualClear"/>
</div>
</div>
<div id="mw-data-after-content">
  <div class="read-more-container"/>
</div>
<div id="mw-navigation">
  <h2>
    Navigation menu
  </h2>
  <div id="mw-head">
    <!-- Please do not use role attribute as CSS selector, it is deprecated. -->
    <nav aria-labelledby="p-personal-label" class="vector-menu" id="p-personal-label" role="navigation">
      <h3 id="p-personal-label">
        <span>
          Personal tools
        </span>
      </h3>
      <!-- Please do not use the .body class, it is deprecated. -->
      <div class="body vector-menu-content">

```

```

<!-- Please do not use the .menu class, it is deprecated. -->
<ul class="vector-menu-content-list">
  <li id="pt-anonuserpage">
    Not logged in
  </li>
  <li id="pt-anontalk">
    <a accesskey="n" href="/wiki/Special:MyTalk" title="Discussion about
edits from this IP address [n]">
      Talk
    </a>
  </li>
  <li id="pt-anoncontribs">
    <a accesskey="y" href="/wiki/Special:MyContributions" title="A list o
f edits made from this IP address [y]">
      Contributions
    </a>
  </li>
  <li id="pt-createaccount">
    <a href="/w/index.php?title=Special:CreateAccount&returnto=List+o
f+London+boroughs" title="You are encouraged to create an account and log in;
however, it is not mandatory">
      Create account
    </a>
  </li>
  <li id="pt-login">
    <a accesskey="o" href="/w/index.php?title=Special:UserLogin&retur
nto=List+of+London+boroughs" title="You're encouraged to log in; however, i
t's not mandatory. [o]">
      Log in
    </a>
  </li>
</ul>
</div>
</nav>
<div id="left-navigation">
  <!-- Please do not use role attribute as CSS selector, it is deprecated.
-->
  <nav aria-labelledby="p-namespaces-label" class="vector-menu vector-menu
-tabs vectorTabs" id="p-namespaces" role="navigation">
    <h3 id="p-namespaces-label">
      <span>
        Namespaces
      </span>
    </h3>
    <!-- Please do not use the .body class, it is deprecated. -->
    <div class="body vector-menu-content">
      <!-- Please do not use the .menu class, it is deprecated. -->
      <ul class="vector-menu-content-list">
        <li class="selected" id="ca-nstab-main">
          <a accesskey="c" href="/wiki/List_of_London_boroughs" title="View th
e content page [c]">
            Article
          </a>
        </li>
        <li id="ca-talk">
          <a accesskey="t" href="/wiki/Talk:List_of_London_boroughs" rel="disc
ussion" title="Discuss improvements to the content page [t]">

```

```

        Talk
      </a>
    </li>
  </ul>
</div>
</nav>
<!-- Please do not use role attribute as CSS selector, it is deprecated.
-->
  <nav aria-labelledby="p-variants-label" class="vector-menu-empty emptyPortlet vector-menu vector-menu-dropdown vectorMenu" id="p-variants" role="navigation">
    <input aria-labelledby="p-variants-label" class="vector-menu-checkbox vectorMenuCheckbox" type="checkbox"/>
    <h3 id="p-variants-label">
      <span>
        Variants
      </span>
    </h3>
    <!-- Please do not use the .body class, it is deprecated. -->
    <div class="body vector-menu-content">
      <!-- Please do not use the .menu class, it is deprecated. -->
      <ul class="menu vector-menu-content-list"/>
    </div>
  </nav>
</div>
<div id="right-navigation">
  <!-- Please do not use role attribute as CSS selector, it is deprecated.
-->
  <nav aria-labelledby="p-views-label" class="vector-menu vector-menu-tabs vectorTabs" id="p-views" role="navigation">
    <h3 id="p-views-label">
      <span>
        Views
      </span>
    </h3>
    <!-- Please do not use the .body class, it is deprecated. -->
    <div class="body vector-menu-content">
      <!-- Please do not use the .menu class, it is deprecated. -->
      <ul class="vector-menu-content-list">
        <li class="collapsible selected" id="ca-view">
          <a href="/wiki/List_of_London_boroughs">
            Read
          </a>
        </li>
        <li class="collapsible" id="ca-edit">
          <a accesskey="e" href="/w/index.php?title=List_of_London_boroughs&mp;action=edit" title="Edit this page [e]">
            Edit
          </a>
        </li>
        <li class="collapsible" id="ca-history">
          <a accesskey="h" href="/w/index.php?title=List_of_London_boroughs&mp;action=history" title="Past revisions of this page [h]">
            View history
          </a>
        </li>
      </ul>

```



```

    </div>
  </nav>
  <!-- Please do not use role attribute as CSS selector, it is deprecated.
-->
  <nav aria-labelledby="p-cactions-label" class="vector-menu-empty emptyPo
rtlet vector-menu vector-menu-dropdown vectorMenu" id="p-cactions" role="navi
gation">
    <input aria-labelledby="p-cactions-label" class="vector-menu-checkbox v
ectorMenuCheckbox" type="checkbox"/>
    <h3 id="p-cactions-label">
      <span>
        More
      </span>
    </h3>
    <!-- Please do not use the .body class, it is deprecated. -->
    <div class="body vector-menu-content">
      <!-- Please do not use the .menu class, it is deprecated. -->
      <ul class="menu vector-menu-content-list"/>
    </div>
  </nav>
  <div id="p-search" role="search">
    <h3>
      <label for="searchInput">
        Search
      </label>
    </h3>
    <form action="/w/index.php" id="searchform">
      <div id="simpleSearch">
        <input accesskey="f" id="searchInput" name="search" placeholder="Sear
ch Wikipedia" title="Search Wikipedia [f]" type="search"/>
        <input name="title" type="hidden" value="Special:Search">
        <input class="searchButton mw-fallbackSearchButton" id="mw-searchBut
ton" name="fulltext" title="Search Wikipedia for this text" type="submit" val
ue="Search"/>
        <input class="searchButton" id="searchButton" name="go" title="Go to
a page with this exact name if it exists" type="submit" value="Go"/>
      </input>
    </div>
  </form>
</div>
</div>
<div id="mw-panel">
  <div id="p-logo" role="banner">
    <a class="mw-wiki-logo" href="/wiki/Main_Page" title="Visit the main pa
ge"/>
  </div>
  <!-- Please do not use role attribute as CSS selector, it is deprecated.
-->
  <nav aria-labelledby="p-navigation-label" class="vector-menu vector-menu
-portal portal portal-first" id="p-navigation" role="navigation">
    <h3 id="p-navigation-label">
      <span>
        Navigation
      </span>
    </h3>
    <!-- Please do not use the .body class, it is deprecated. -->
    <div class="body vector-menu-content">

```

```

<!-- Please do not use the .menu class, it is deprecated. -->
<ul class="vector-menu-content-list">
  <li id="n-mainpage-description">
    <a accesskey="z" href="/wiki/Main_Page" title="Visit the main page
[z]">
      Main page
    </a>
  </li>
  <li id="n-contents">
    <a href="/wiki/Wikipedia:Contents" title="Guides to browsing Wikiped
ia">
      Contents
    </a>
  </li>
  <li id="n-currentevents">
    <a href="/wiki/Portal:Current_events" title="Find background informa
tion on current events">
      Current events
    </a>
  </li>
  <li id="n-randompage">
    <a accesskey="x" href="/wiki/Special:Random" title="Visit a randomly
selected article [x]">
      Random article
    </a>
  </li>
  <li id="n-aboutsite">
    <a href="/wiki/Wikipedia:About" title="Learn about Wikipedia and how
it works">
      About Wikipedia
    </a>
  </li>
  <li id="n-contactpage">
    <a href="//en.wikipedia.org/wiki/Wikipedia:Contact_us" title="How to
contact Wikipedia">
      Contact us
    </a>
  </li>
  <li id="n-sitesupport">
    <a href="https://donate.wikimedia.org/wiki/Special:FundraiserRedirec
tor?utm_source=donate&utm_medium=sidebar&utm_campaign=C13_en.wikipedi
a.org&uselang=en" title="Support us by donating to the Wikimedia Foundati
on">
      Donate
    </a>
  </li>
  <li id="n-shoplink">
    <a href="//shop.wikimedia.org" title="Visit the Wikipedia store">
      Wikipedia store
    </a>
  </li>
</ul>
</div>
</nav>
<!-- Please do not use role attribute as CSS selector, it is deprecated.
-->
<nav aria-labelledby="p-interaction-label" class="vector-menu vector-men

```

```

u-portal portal" id="p-interaction" role="navigation">
  <h3 id="p-interaction-label">
    <span>
      Contribute
    </span>
  </h3>
  <!-- Please do not use the .body class, it is deprecated. -->
  <div class="body vector-menu-content">
    <!-- Please do not use the .menu class, it is deprecated. -->
    <ul class="vector-menu-content-list">
      <li id="n-help">
        <a href="/wiki/Help:Contents" title="Guidance on how to use and edit
Wikipedia">
          Help
        </a>
      </li>
      <li id="n-portal">
        <a href="/wiki/Wikipedia:Community_portal" title="About the project,
what you can do, where to find things">
          Community portal
        </a>
      </li>
      <li id="n-recentchanges">
        <a accesskey="r" href="/wiki/Special:RecentChanges" title="A list of
recent changes to Wikipedia [r]">
          Recent changes
        </a>
      </li>
      <li id="n-upload">
        <a href="/wiki/Wikipedia:File_Upload_Wizard" title="Add images or ot
her media for use on Wikipedia">
          Upload file
        </a>
      </li>
    </ul>
  </div>
</nav>
<!-- Please do not use role attribute as CSS selector, it is deprecated.
-->
  <nav aria-labelledby="p-tb-label" class="vector-menu vector-menu-portal
portal" id="p-tb" role="navigation">
    <h3 id="p-tb-label">
      <span>
        Tools
      </span>
    </h3>
    <!-- Please do not use the .body class, it is deprecated. -->
    <div class="body vector-menu-content">
      <!-- Please do not use the .menu class, it is deprecated. -->
      <ul class="vector-menu-content-list">
        <li id="t-whatlinkshere">
          <a accesskey="j" href="/wiki/Special:WhatLinksHere/List_of_London_bo
roughs" title="List of all English Wikipedia pages containing links to this p
age [j]">
            What links here
          </a>
        </li>

```

```

<li id="t-recentchangeslinked">
  <a accesskey="k" href="/wiki/Special:RecentChangesLinked/List_of_Lon
don_boroughs" rel="nofollow" title="Recent changes in pages linked from this
page [k]">
    Related changes
  </a>
</li>
<li id="t-upload">
  <a accesskey="u" href="/wiki/Wikipedia:File_Upload_Wizard" title="Up
load files [u]">
    Upload file
  </a>
</li>
<li id="t-specialpages">
  <a accesskey="q" href="/wiki/Special:SpecialPages" title="A list of
all special pages [q]">
    Special pages
  </a>
</li>
<li id="t-permalink">
  <a href="/w/index.php?title=List_of_London_boroughs&oldid=958873
870" title="Permanent link to this revision of this page">
    Permanent link
  </a>
</li>
<li id="t-info">
  <a href="/w/index.php?title=List_of_London_boroughs&action=info"
title="More information about this page">
    Page information
  </a>
</li>
<li id="t-wikibase">
  <a accesskey="g" href="https://www.wikidata.org/wiki/Special:EntityP
age/Q6577004" title="Structured data on this page hosted by Wikidata [g]">
    Wikidata item
  </a>
</li>
<li id="t-cite">
  <a href="/w/index.php?title=Special:CiteThisPage&page=List_of_Lo
ndon_boroughs&id=958873870&wpFormIdentifier=titleform" title="Informa
tion on how to cite this page">
    Cite this page
  </a>
</li>
</ul>
</div>
</nav>
<!-- Please do not use role attribute as CSS selector, it is deprecated.
-->
<nav aria-labelledby="p-coll-print_export-label" class="vector-menu vect
or-menu-portal portal" id="p-coll-print_export" role="navigation">
  <h3 id="p-coll-print_export-label">
    <span>
      Print/export
    </span>
  </h3>
  <!-- Please do not use the .body class, it is deprecated. -->

```

```

<div class="body vector-menu-content">
  <!-- Please do not use the .menu class, it is deprecated. -->
  <ul class="vector-menu-content-list">
    <li id="coll-download-as-rl">
      <a href="/w/index.php?title=Special:ElectronPdf&page=List+of+Lon
don+boroughs&action=show-download-screen" title="Download this page as a
PDF file">
        Download as PDF
      </a>
    </li>
    <li id="t-print">
      <a accesskey="p" href="/w/index.php?title=List_of_London_boroughs&
p;printable=yes" title="Printable version of this page [p]">
        Printable version
      </a>
    </li>
  </ul>
</div>
</nav>
<!-- Please do not use role attribute as CSS selector, it is deprecated.
-->
<nav aria-labelledby="p-lang-label" class="vector-menu vector-menu-porta
l portal" id="p-lang" role="navigation">
  <h3 id="p-lang-label">
    <span>
      Languages
    </span>
  </h3>
  <!-- Please do not use the .body class, it is deprecated. -->
  <div class="body vector-menu-content">
    <!-- Please do not use the .menu class, it is deprecated. -->
    <ul class="vector-menu-content-list">
      <li class="interlanguage-link interwiki-ru">
        <a class="interlanguage-link-target" href="https://ru.wikipedia.org/
wiki/%D0%A1%D0%BF%D0%B8%D1%81%D0%BE%D0%BA_%D0%BB%D0%BE%D0%BD%D0%B4%D0%BE%D0%BD%D1%81%D0%BA%D0%B8%D1%85_%D0%B1%D0%BE%D1%80%D0%BE" hreflang="ru" lang="ru" title="Список лондонских боро – Russian">
          Русский
        </a>
      </li>
    </ul>
    <div class="after-portlet after-portlet-lang">
      <span class="wb-langlinks-edit wb-langlinks-link">
        <a class="wbc-editpage" href="https://www.wikidata.org/wiki/Special:
EntityPage/Q6577004#sitelinks-wikipedia" title="Edit interlanguage links">
          Edit links
        </a>
      </span>
    </div>
  </div>
</nav>
</div>
</div>
<div>
  <div class="mw-footer" id="footer" role="contentinfo">
    <ul id="footer-info">
      <li id="footer-info-lastmod">
        This page was last edited on 26 May 2020, at 03:30
      </li>
    </ul>
  </div>

```

```

<span class="anonymous-show">
  (UTC)
</span>
.
</li>
<li id="footer-info-copyright">
  Text is available under the
  <a href="//en.wikipedia.org/wiki/Wikipedia:Text_of_Creative_Commons_Attribution-ShareAlike_3.0_Unported_License" rel="license">
    Creative Commons Attribution-ShareAlike License
  </a>
  <a href="//creativecommons.org/licenses/by-sa/3.0/" rel="license" style="display:none;" />
  ;
  additional terms may apply. By using this site, you agree to the
  <a href="//foundation.wikimedia.org/wiki/Terms_of_Use">
    Terms of Use
  </a>
  and
  <a href="//foundation.wikimedia.org/wiki/Privacy_policy">
    Privacy Policy
  </a>
  . Wikipedia® is a registered trademark of the
  <a href="//www.wikimediafoundation.org/">
    Wikimedia Foundation, Inc.
  </a>
  , a non-profit organization.
</li>
</ul>
<ul id="footer-places">
  <li id="footer-places-privacy">
    <a class="extiw" href="https://foundation.wikimedia.org/wiki/Privacy_policy" title="wmf:Privacy policy">
      Privacy policy
    </a>
  </li>
  <li id="footer-places-about">
    <a href="/wiki/Wikipedia:About" title="Wikipedia:About">
      About Wikipedia
    </a>
  </li>
  <li id="footer-places-disclaimer">
    <a href="/wiki/Wikipedia:General_disclaimer" title="Wikipedia:General disclaimer">
      Disclaimers
    </a>
  </li>
  <li id="footer-places-contact">
    <a href="//en.wikipedia.org/wiki/Wikipedia:Contact_us">
      Contact Wikipedia
    </a>
  </li>
  <li id="footer-places-developers">
    <a href="https://www.mediawiki.org/wiki/Special:MyLanguage/How_to_contribute">
      Developers
    </a>

```

```

</li>
<li id="footer-places-statslink">
  <a href="https://stats.wikimedia.org/#/en.wikipedia.org">
    Statistics
  </a>
</li>
<li id="footer-places-cookistatement">
  <a href="https://foundation.wikimedia.org/wiki/Cookie_statement">
    Cookie statement
  </a>
</li>
<li id="footer-places-mobileview">
  <a class="noprint stopMobileRedirectToggle" href="//en.m.wikipedia.org/w/index.php?title=List_of_London_boroughs&mobileaction=toggle_view_mobile">
    Mobile view
  </a>
</li>
</ul>
<ul class="noprint" id="footer-icons">
<li id="footer-copyrightico">
  <a href="https://wikimediafoundation.org/">
    
  </a>
</li>
<li id="footer-poweredbyico">
  <a href="https://www.mediawiki.org/">
    
  </a>
</li>
</ul>
<div style="clear: both;">
</footer>
<script>
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In [49]: # extracting the raw table inside that webpage  
table = soup.find_all('table', {'class': 'wikitable sortable'})  
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</th>
<th>Inner
</th>
<th>Status
</th>
<th>Local authority
</th>
<th>Political control
</th>
<th>Headquarters
</th>
<th>Area (sq mi)
</th>
<th>Population (2013 est)<sup class="reference" id="cite_ref-1"><a href="#cite_note-1">[1]</a></sup>
</th>
<th>Co-ordinates
</th>
<th><span style="background:#67BCD3"> Nr. in map </span>
</th></tr>
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</span></span></a></span>
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</td>
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```

```

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<td><a href="/wiki/Conservative_Party_(UK)" title="Conservative Party (UK)">Conservative</a>
</td>
<td><a href="/wiki/Wandsworth_Town_Hall" title="Wandsworth Town Hall">The Town Hall</a>, <a href="/wiki/Wandsworth_High_Street" title="Wandsworth High Street">Wandsworth High Street</a>

```

```

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n></span><span style="display:none"> (<span class="fn org">Westminster</span>
)</span></span></span></a></span>

```

```

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</th>
<th width="100px">Status
</th>
<th>Local authority
</th>
<th>Political control
</th>
<th width="120px">Headquarters
</th>
<th>Area (sq mi)
</th>
<th>Population<br/>(2011 est)
</th>
<th width="20px">Co-ordinates
</th>
<th><span style="background:#67BCD3"> Nr. in<br/>map </span>
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</td>
<td><span style="display:none">Y</span><br/><sup class="reference" id="cite_ref-6"><a href="#cite_note-6">[note 5]</a></sup>
</td>
<td><i><a href="/wiki/Sui_generis" title="Sui generis">Sui generis</a></i><br/><a href="/wiki/City_status_in_the_United_Kingdom" title="City status in the United Kingdom">City</a>;<br/><a href="/wiki/Ceremonial_counties_of_England" title="Ceremonial counties of England">Ceremonial county</a>
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<td><a class="mw-redirect" href="/wiki/Corporation_of_London" title="Corporation of London">Corporation of London</a>;<br/><a href="/wiki/Inner_Temple" title="Inner Temple">Inner Temple</a>;<br/><a href="/wiki/Middle_Temple" title="Middle Temple">Middle Temple</a>
</td>
<td>?
</td>
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<td>1.12
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<td>7,000
</td>
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```

```

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ther data for this location"><span class="latitude">51°30'56"N</span> <span c
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pan></span><span style="display:none"> (<span class="fn org">City of London</
span></span></span></span></span></a></span>
</td>
<td>1
</td></tr></tbody></table>]

```

## Converting the table into a data frame

```
In [50]: London_table = pd.read_html(str(table[0]), index_col=None, header=0)[0]
London_table.head()
```

Out[50]:

	Borough	Inner	Status	Local authority	Political control	Headquarters	Area (sq mi)	Population (2013 est) [1]	Co ordinate:
0	Barking and Dagenham [note 1]	NaN	NaN	Barking and Dagenham London Borough Council	Labour	Town Hall, 1 Town Square	13.93	194352	51°33'39"N 0°09'21"E 51.5607°N 0.1557°E
1	Barnet	NaN	NaN	Barnet London Borough Council	Conservative	Barnet House, 2 Bristol Avenue, Colindale	33.49	369088	51°37'31"N 0°09'06"W 51.6252°N 0.1517°W
2	Bexley	NaN	NaN	Bexley London Borough Council	Conservative	Civic Offices, 2 Watling Street	23.38	236687	51°27'18"N 0°09'02"E 51.4549°N 0.1505°E
3	Brent	NaN	NaN	Brent London Borough Council	Labour	Brent Civic Centre, Engineers Way	16.70	317264	51°33'32"N 0°16'54"W 51.5588°N 0.2817°W
4	Bromley	NaN	NaN	Bromley London Borough Council	Conservative	Civic Centre, Stockwell Close	57.97	317899	51°24'14"N 0°01'11"E 51.4039°N 0.0198°E

The second table on the site contains the addition Borough i.e. City of London



```
In [51]: # Read in the second table
London_table1 = pd.read_html(str(table[1]), index_col=None, header=0)[0]

# Rename the columns to match the previous table to append the tables.

London_table1.columns = ['Borough', 'Inner', 'Status', 'Local authority', 'Political control',
                          'Headquarters', 'Area (sq mi)', 'Population (2013 est)']
London_table1
```

Out[51]:

	Borough	Inner	Status	Local authority	Political control	Headquarters	Area (sq mi)	Population (2013 est)
0	City of London	(note 5]	generis;City;Ceremonial county	Sui Corporation of London;Inner Temple;Middle Temple	?	Guildhall	1.12	700

**Append the data frame together**

In [52]: *# A continuous index value will be maintained  
# across the rows in the new appended data frame.*

```
London_table = London_table.append(London_table1, ignore_index = True)
London_table.head()
```

Out[52]:

	Borough	Inner	Status	Local authority	Political control	Headquarters	Area (sq mi)	Population (2013 est) [1]	Co ordinate:
0	Barking and Dagenham [note 1]	NaN	NaN	Barking and Dagenham London Borough Council	Labour	Town Hall, 1 Town Square	13.93	194352	51°33'39"N 0°09'21"E 51.5607°N 0.1557°E
1	Barnet	NaN	NaN	Barnet London Borough Council	Conservative	Barnet House, 2 Bristol Avenue, Colindale	33.49	369088	51°37'31"N 0°09'06"W 51.6252°N 0.1517°W
2	Bexley	NaN	NaN	Bexley London Borough Council	Conservative	Civic Offices, 2 Watling Street	23.38	236687	51°27'18"N 0°09'02"E 51.4549°N 0.1505°E
3	Brent	NaN	NaN	Brent London Borough Council	Labour	Brent Civic Centre, Engineers Way	16.70	317264	51°33'32"N 0°16'54"W 51.5588°N 0.2817°W
4	Bromley	NaN	NaN	Bromley London Borough Council	Conservative	Civic Centre, Stockwell Close	57.97	317899	51°24'14"N 0°01'11"E 51.4039°N 0.0198°E

Check if the last row was appended correctly

In [53]: London\_table.tail()

Out[53]:

	Borough	Inner	Status	Local authority	Political control	Headquarters	Area (sq mi)
28	Tower Hamlets	NaN	NaN	Tower Hamlets London Borough Council	Labour	Town Hall, Mulberry Place, 5 Clove Crescent	7.63
29	Waltham Forest	NaN	NaN	Waltham Forest London Borough Council	Labour	Waltham Forest Town Hall, Forest Road	14.99
30	Wandsworth	NaN	NaN	Wandsworth London Borough Council	Conservative	The Town Hall, Wandsworth High Street	13.23
31	Westminster	NaN	City	Westminster City Council	Conservative	Westminster City Hall, 64 Victoria Street	8.29
32	City of London	([note 5]	Sui generis; City; Ceremonial county	Corporation of London; Inner Temple; Middle Temple	?	Guildhall	1.12

### View the information of the data set

In [54]: London\_table.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 33 entries, 0 to 32
Data columns (total 10 columns):
Borough                33 non-null object
Inner                  4 non-null object
Status                 5 non-null object
Local authority         33 non-null object
Political control       33 non-null object
Headquarters           33 non-null object
Area (sq mi)           33 non-null float64
Population (2013 est)[1] 33 non-null int64
Co-ordinates           33 non-null object
Nr. in map             33 non-null int64
dtypes: float64(1), int64(2), object(7)
memory usage: 2.7+ KB
```

## Removing Unnecessary string in the Data set

```
In [55]: London_table = London_table.replace('note 1', '', regex=True)
London_table = London_table.replace('note 2', '', regex=True)
London_table = London_table.replace('note 3', '', regex=True)
London_table = London_table.replace('note 4', '', regex=True)
London_table = London_table.replace('note 5', '', regex=True)

# View the top of the data set
London_table.head()
```

Out[55]:

	Borough	Inner	Status	Local authority	Political control	Headquarters	Area (sq mi)	Population (2013 est) [1]	Co ordinate:
0	Barking and Dagenham	NaN	NaN	Barking and Dagenham London Borough Council	Labour	Town Hall, 1 Town Square	13.93	194352	51°33'39"N 0°09'21"E 51.5607°N 0.1557°E
1	Barnet	NaN	NaN	Barnet London Borough Council	Conservative	Barnet House, 2 Bristol Avenue, Colindale	33.49	369088	51°37'31"N 0°09'06"W 51.6252°N 0.1517°W
2	Bexley	NaN	NaN	Bexley London Borough Council	Conservative	Civic Offices, 2 Watling Street	23.38	236687	51°27'18"N 0°09'02"E 51.4549°N 0.1505°E
3	Brent	NaN	NaN	Brent London Borough Council	Labour	Brent Civic Centre, Engineers Way	16.70	317264	51°33'32"N 0°16'54"W 51.5588°N 0.2817°W
4	Bromley	NaN	NaN	Bromley London Borough Council	Conservative	Civic Centre, Stockwell Close	57.97	317899	51°24'14"N 0°01'11"E 51.4039°N 0.0198°E

## Check the type of the newly created table

```
In [57]: type(London_table)
```

Out[57]: pandas.core.frame.DataFrame

```
In [58]: # Shape of the data frame
London_table.shape
```

Out[58]: (33, 10)

### Check if the Borough in both the data frames match.

```
In [59]: set(df.Borough) - set(London_table.Borough)
```

```
Out[59]: {'Barking and Dagenham', 'Greenwich', 'Hammersmith and Fulham'}
```

### Find the index of the Boroughs that didn't match

```
In [60]: print("The index of first borough is", London_table.index[London_table['Borough'] == 'Barking and Dagenham'].tolist())
print("The index of second borough is", London_table.index[London_table['Borough'] == 'Greenwich'].tolist())
print("The index of third borough is", London_table.index[London_table['Borough'] == 'Hammersmith and Fulham'].tolist())
```

```
The index of first borough is [0]
```

```
The index of second borough is [9]
```

```
The index of third borough is [11]
```

### Changing the Borough names to match the other data frame

```
In [61]: London_table.iloc[0,0] = 'Barking and Dagenham'
London_table.iloc[9,0] = 'Greenwich'
London_table.iloc[11,0] = 'Hammersmith and Fulham'
```

### Check if the Borough names in both data sets match

```
In [63]: set(df.Borough) - set(London_table.Borough)
```

```
Out[63]: set()
```

### We can combine both the data frames together

```
In [64]: Ld_crime = pd.merge(London_crime, London_table, on='Borough')
Ld_crime.head(10)
```

Out[64]:

	Borough	Burglary	Criminal Damage	Drugs	Other Notifiable Offences	Robbery	Theft and Handling	Violence Against the Person	Total	Inner
0	Barking and Dagenham	1287	1949	919	378	534	5607	6067	16741	NaN
1	Barnet	3402	2183	906	499	464	9731	7499	24684	NaN
2	Bexley	1123	1673	646	294	209	4392	4503	12840	NaN
3	Brent	2631	2280	2096	536	919	9026	9205	26693	NaN
4	Bromley	2214	2202	728	417	369	7584	6650	20164	NaN
5	Camden	2652	1935	1493	490	899	14088	7626	29183	NaN
6	City of London	2	2	10	6	4	129	25	178	([]
7	Croydon	2738	3219	1367	718	1139	9229	10302	28712	NaN
8	Ealing	2492	2562	1355	613	669	10040	9396	27127	NaN
9	Enfield	2541	2136	1063	492	807	8037	7409	22485	NaN

```
In [65]: # List of Column names of the data frame  
list(Ld_crime)
```

```
Out[65]: ['Borough',  
          'Burglary',  
          'Criminal Damage',  
          'Drugs',  
          'Other Notifiable Offences',  
          'Robbery',  
          'Theft and Handling',  
          'Violence Against the Person',  
          'Total',  
          'Inner',  
          'Status',  
          'Local authority',  
          'Political control',  
          'Headquarters',  
          'Area (sq mi)',  
          'Population (2013 est)[1]',  
          'Co-ordinates',  
          'Nr. in map']
```

```

In [66]: columnsTitles = ['Borough', 'Local authority', 'Political control', 'Headquarter
s',
                        'Area (sq mi)', 'Population (2013 est)[1]',
                        'Inner', 'Status',
                        'Burglary', 'Criminal Damage', 'Drugs', 'Other Notifiable Offenc
es',
                        'Robbery', 'Theft and Handling', 'Violence Against the Person',
                        'Total', 'Co-ordinates']

Ld_crime = Ld_crime.reindex(columns=columnsTitles)

Ld_crime = Ld_crime[['Borough', 'Local authority', 'Political control', 'Headquar
ters',
                    'Area (sq mi)', 'Population (2013 est)[1]', 'Co-ordinates',
                    'Burglary', 'Criminal Damage', 'Drugs', 'Other Notifiable Offenc
es',
                    'Robbery', 'Theft and Handling', 'Violence Against the Person',
                    'Total']]

Ld_crime.head()

```

Out[66]:

	Borough	Local authority	Political control	Headquarters	Area (sq mi)	Population (2013 est) [1]	Co-ordinates	Burglary	Cr Di
0	Barking and Dagenham	Barking and Dagenham London Borough Council	Labour	Town Hall, 1 Town Square	13.93	194352	51°33'39"N 0°09'21"E / 51.5607°N 0.1557°E	1287	
1	Barnet	Barnet London Borough Council	Conservative	Barnet House, 2 Bristol Avenue, Colindale	33.49	369088	51°37'31"N 0°09'06"W / 51.6252°N 0.1517°W	3402	
2	Bexley	Bexley London Borough Council	Conservative	Civic Offices, 2 Watling Street	23.38	236687	51°27'18"N 0°09'02"E / 51.4549°N 0.1505°E	1123	
3	Brent	Brent London Borough Council	Labour	Brent Civic Centre, Engineers Way	16.70	317264	51°33'32"N 0°16'54"W / 51.5588°N 0.2817°W	2631	
4	Bromley	Bromley London Borough Council	Conservative	Civic Centre, Stockwell Close	57.97	317899	51°24'14"N 0°01'11"E / 51.4039°N 0.0198°E	2214	



## Methodology

The methodology in this project consists of two parts:

Exploratory Data Analysis: Visualise the crime rates in the London boroughs to identify the safest borough and extract the neighborhoods in that borough to find the 10 most common venues in each neighborhood. Modelling: To help people find similar neighborhoods in the safest borough we will be clustering similar neighborhoods using K - means clustering which is a form of unsupervised machine learning algorithm that clusters data based on predefined cluster size. We will use a cluster size of 5 for this project that will cluster the 15 neighborhoods into 5 clusters. The reason to conduct a K- means clustering is to cluster neighborhoods with similar venues together so that people can shortlist the area of their interests based on the venues/amenities around each neighborhood.

## Exploratory Data Analysis

Descriptive statistics of the data

In [68]: `London_crime.describe()`

Out[68]:

	Burglary	Criminal Damage	Drugs	Other Notifiable Offences	Robbery	Theft and Handling	Viol Against Pe
<b>count</b>	33.000000	33.000000	33.000000	33.000000	33.000000	33.000000	33.00
<b>mean</b>	2069.242424	1941.545455	1179.212121	479.060606	682.666667	8913.121212	7041.84
<b>std</b>	737.448644	625.207070	586.406416	223.298698	441.425366	4620.565054	2513.60
<b>min</b>	2.000000	2.000000	10.000000	6.000000	4.000000	129.000000	25.00
<b>25%</b>	1531.000000	1650.000000	743.000000	378.000000	377.000000	5919.000000	5936.00
<b>50%</b>	2071.000000	1989.000000	1063.000000	490.000000	599.000000	8925.000000	7409.00
<b>75%</b>	2631.000000	2351.000000	1617.000000	551.000000	936.000000	10789.000000	8832.00
<b>max</b>	3402.000000	3219.000000	2738.000000	1305.000000	1822.000000	27520.000000	10834.00

```
In [69]: # use the inline backend to generate the plots within the browser
%matplotlib inline

import matplotlib as mpl
import matplotlib.pyplot as plt

mpl.style.use('ggplot') # optional: for ggplot-like style

# check for latest version of Matplotlib
print ('Matplotlib version: ', mpl.__version__) # >= 2.0.0

# Matplotlib and associated plotting modules
import matplotlib.cm as cm
import matplotlib.colors as colors
```

Matplotlib version: 3.0.2

### Check if the column names are strings

```
In [70]: Ld_crime.columns = list(map(str, Ld_crime.columns))

# Let's check the column labels types now
all(isinstance(column, str) for column in Ld_crime.columns)
```

Out[70]: True

### Sort the total crimes in descending order to see 5 boroughs with the highest number of crimes

```
In [71]: Ld_crime.sort_values(['Total'], ascending = False, axis = 0, inplace = True )

df_top5 = Ld_crime.head()
df_top5
```

Out[71]:

	Borough	Local authority	Political control	Headquarters	Area (sq mi)	Population (2013 est) [1]	Co-ordinates	Burglary
32	Westminster	Westminster City Council	Conservative	Westminster City Hall, 64 Victoria Street	8.29	226841	51°29'50"N 0°08'14"W / 51.4973°N 0.1372°W	3218
21	Lambeth	Lambeth London Borough Council	Labour	Lambeth Town Hall, Brixton Hill	10.36	314242	51°27'39"N 0°06'59"W / 51.4607°N 0.1163°W	3087
27	Southwark	Southwark London Borough Council	Labour	160 Tooley Street	11.14	298464	51°30'13"N 0°04'49"W / 51.5035°N 0.0804°W	2946
24	Newham	Newham London Borough Council	Labour	Newham Dockside, 1000 Dockside Road	13.98	318227	51°30'28"N 0°02'49"E / 51.5077°N 0.0469°E	2115
29	Tower Hamlets	Tower Hamlets London Borough Council	Labour	Town Hall, Mulberry Place, 5 Clove Crescent	7.63	272890	51°30'36"N 0°00'21"W / 51.5099°N 0.0059°W	2794

Visualize the five boroughs with the highest number of crimes

```
In [72]: df_tt = df_top5[['Borough', 'Total']]

df_tt.set_index('Borough', inplace = True)

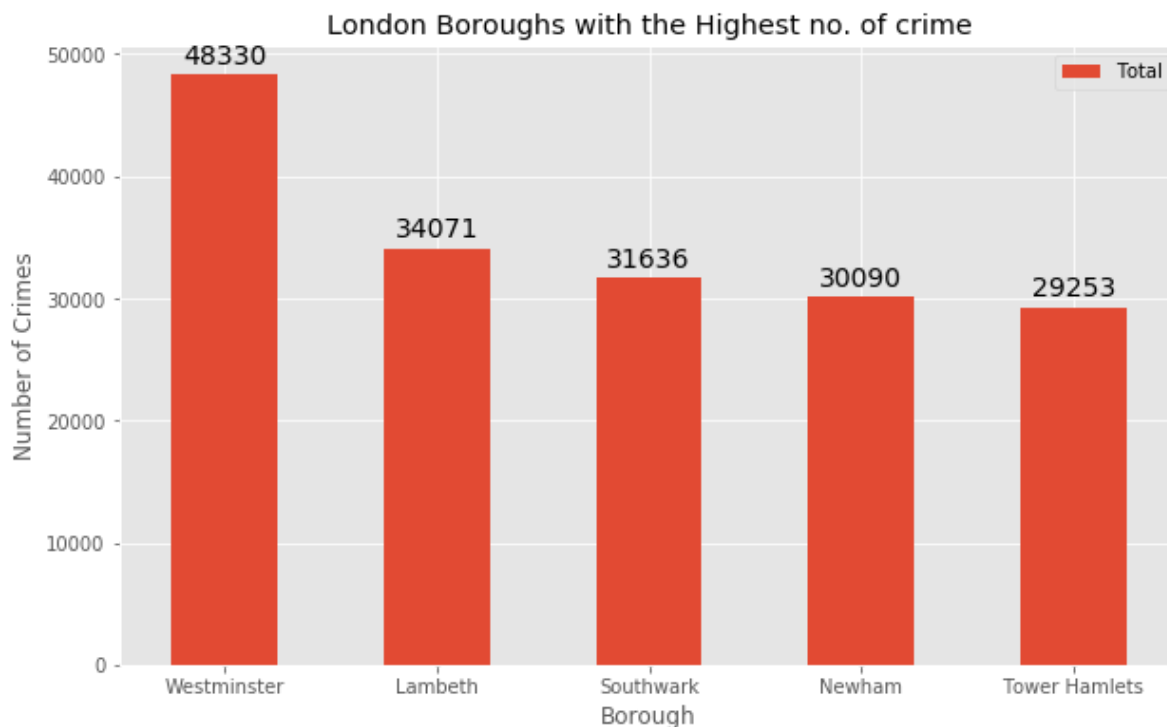
ax = df_tt.plot(kind='bar', figsize=(10, 6), rot=0)

ax.set_ylabel('Number of Crimes') # add to x-label to the plot
ax.set_xlabel('Borough') # add y-label to the plot
ax.set_title('London Boroughs with the Highest no. of crime') # add title to the plot

# Creating a function to display the percentage.

for p in ax.patches:
    ax.annotate(np.round(p.get_height(), decimals=2),
                (p.get_x()+p.get_width()/2., p.get_height()),
                ha='center',
                va='center',
                xytext=(0, 10),
                textcoords='offset points',
                fontsize = 14
    )

plt.show()
```



**We'll stay clear from these places :)**

**Sort the total crimes in ascending order to see 5 boroughs with the highest number of crimes**

```
In [74]: Ld_crime.sort_values(['Total'], ascending = True, axis = 0, inplace = True )

df_bot5 = Ld_crime.head()
df_bot5
```

Out[74]:

	Borough	Local authority	Political control	Headquarters	Area (sq mi)	Population (2013 est) [1]	Co-ordinates	Burgl
6	City of London	Corporation of London;Inner Temple;Middle Temple	?	Guildhall	1.12	7000	51°30'56"N 0°05'32"W / 51.5155°N 0.0922°W	
20	Kingston upon Thames	Kingston upon Thames London Borough Council	Liberal Democrat	Guildhall, High Street	14.38	166793	51°24'31"N 0°18'23"W / 51.4085°N 0.3064°W	
28	Sutton	Sutton London Borough Council	Liberal Democrat	Civic Offices, St Nicholas Way	16.93	195914	51°21'42"N 0°11'40"W / 51.3618°N 0.1945°W	1:
26	Richmond upon Thames	Richmond upon Thames London Borough Council	Liberal Democrat	Civic Centre, 44 York Street	22.17	191365	51°26'52"N 0°19'34"W / 51.4479°N 0.3260°W	1:
23	Merton	Merton London Borough Council	Labour	Civic Centre, London Road	14.52	203223	51°24'05"N 0°11'45"W / 51.4014°N 0.1958°W	1:

```

In [75]: df_bt = df_bot5[['Borough', 'Total']]

df_bt.set_index('Borough', inplace = True)

ax = df_bt.plot(kind='bar', figsize=(10, 6), rot=0)

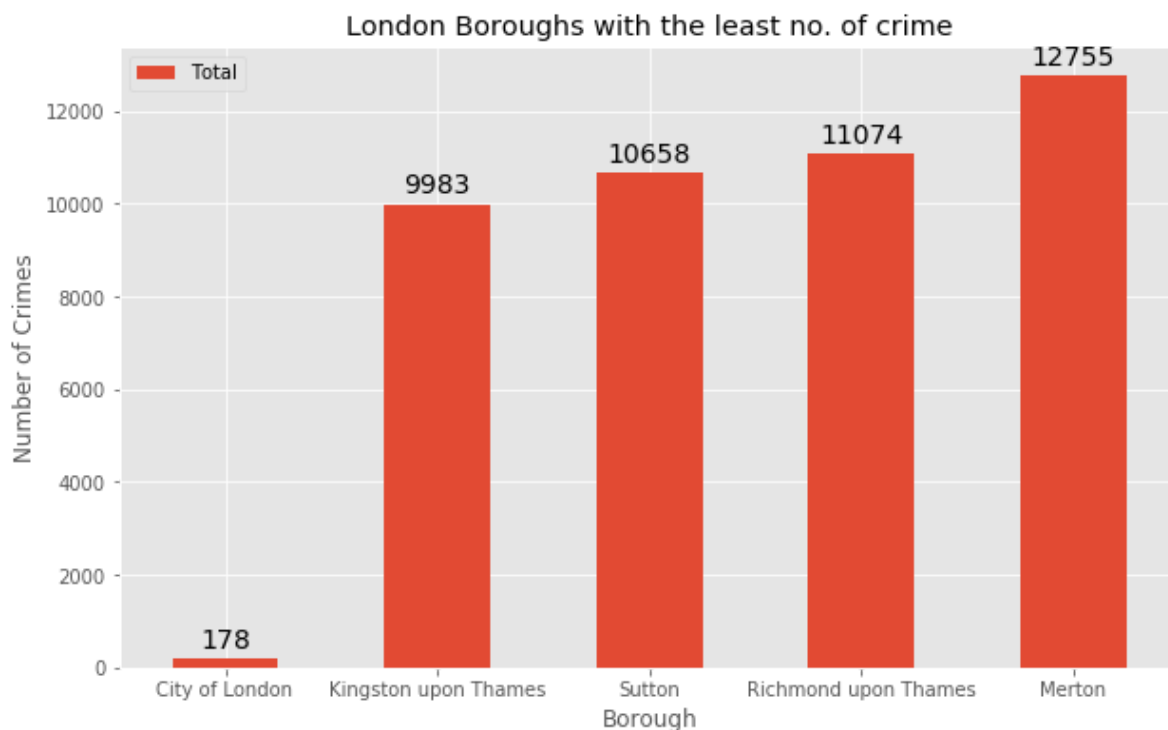
ax.set_ylabel('Number of Crimes') # add to x-label to the plot
ax.set_xlabel('Borough') # add y-label to the plot
ax.set_title('London Boroughs with the least no. of crime') # add title to the plot

# Creating a function to display the percentage.

for p in ax.patches:
    ax.annotate(np.round(p.get_height(), decimals=2),
                (p.get_x()+p.get_width()/2., p.get_height()),
                ha='center',
                va='center',
                xytext=(0, 10),
                textcoords='offset points',
                fontsize = 14
    )

plt.show()

```



The borough City of London has the lowest no. of crimes recorded for the year 2016, Looking into the details of the borough:

```
In [76]: df_col = df_bot5[df_bot5['Borough'] == 'City of London']
df_col = df_col[['Borough', 'Total', 'Area (sq mi)', 'Population (2013 est)[1]']]
df_col
```

Out[76]:

	Borough	Total	Area (sq mi)	Population (2013 est)[1]
6	City of London	178	1.12	7000

**As per the wikipedia page, The City of London is the 33rd principal division of Greater London but it is not a London borough.**

URL: [https://en.wikipedia.org/wiki/List\\_of\\_London\\_boroughs](https://en.wikipedia.org/wiki/List_of_London_boroughs)  
([https://en.wikipedia.org/wiki/List\\_of\\_London\\_boroughs](https://en.wikipedia.org/wiki/List_of_London_boroughs))

Hence we will focus on the next borough with the least crime i.e. Kingston upon Thames

**Visualizing different types of crimes in the borough 'Kingston upon Thames'**

```
In [77]: df_bc1 = df_bot5[df_bot5['Borough'] == 'Kingston upon Thames']

df_bc = df_bc1[['Borough', 'Burglary', 'Criminal Damage', 'Drugs', 'Other Notifiable Offences',
                'Robbery', 'Theft and Handling', 'Violence Against the Person']]

df_bc.set_index('Borough', inplace = True)

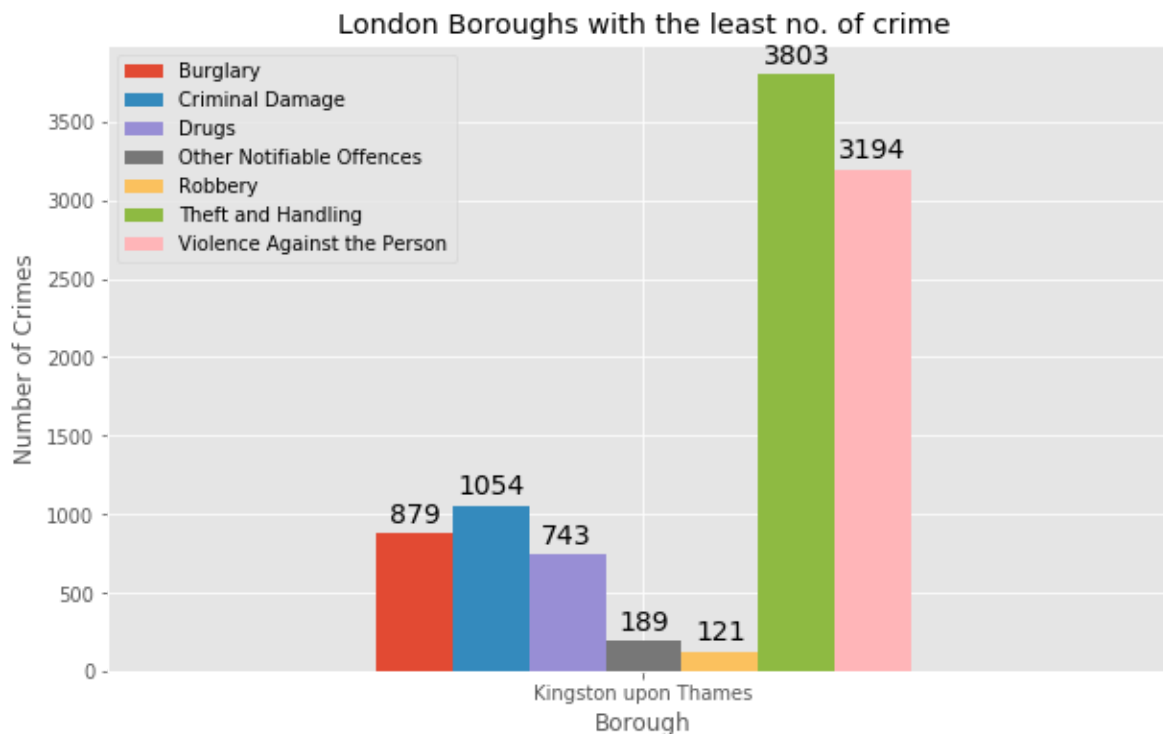
ax = df_bc.plot(kind='bar', figsize=(10, 6), rot=0)

ax.set_ylabel('Number of Crimes') # add to x-label to the plot
ax.set_xlabel('Borough') # add y-label to the plot
ax.set_title('London Boroughs with the least no. of crime') # add title to the plot

# Creating a function to display the percentage.

for p in ax.patches:
    ax.annotate(np.round(p.get_height(), decimals=2),
                (p.get_x()+p.get_width()/2., p.get_height()),
                ha='center',
                va='center',
                xytext=(0, 10),
                textcoords='offset points',
                fontsize = 14
    )

plt.show()
```





We can conclude that Kingston upon Thames is the safest borough when compared to the other boroughs in London.

### **Part 3: Creating a new dataset of the Neighborhoods of the safest borough in London and generating their co-ordinates.**

The list of Neighborhoods in the Royal Borough of Kingston upon Thames was found on a wikipedia page:

[https://en.wikipedia.org/wiki/List\\_of\\_districts\\_in\\_the\\_Royal\\_Borough\\_of\\_Kingston\\_upon\\_Thames](https://en.wikipedia.org/wiki/List_of_districts_in_the_Royal_Borough_of_Kingston_upon_Thames)

([https://en.wikipedia.org/wiki/List\\_of\\_districts\\_in\\_the\\_Royal\\_Borough\\_of\\_Kingston\\_upon\\_Thames](https://en.wikipedia.org/wiki/List_of_districts_in_the_Royal_Borough_of_Kingston_upon_Thames))

Out[78]:

	Neighborhood	Borough	Latitude	Longitude
0	Berrylands	Kingston upon Thames		
1	Canbury	Kingston upon Thames		
2	Chessington	Kingston upon Thames		
3	Coombe	Kingston upon Thames		
4	Hook	Kingston upon Thames		
5	Kingston upon Thames	Kingston upon Thames		
6	Kingston Vale	Kingston upon Thames		
7	Malden Rushett	Kingston upon Thames		
8	Motspur Park	Kingston upon Thames		
9	New Malden	Kingston upon Thames		
10	Norbiton	Kingston upon Thames		
11	Old Malden	Kingston upon Thames		
12	Seething Wells	Kingston upon Thames		
13	Surbiton	Kingston upon Thames		
14	Tolworth	Kingston upon Thames		

<https://datapatform.cloud.ibm.com/data/jupyter2/runtimeenv2/v1/wdpx/service/notebook/conda2py36e7f4fada21284c3fa3a7fc4e8c92d397/dsxjpy...> 138/158

```
In [80]: Latitude = []
Longitude = []

for i in range(len(Neighborhood)):
    address = '{} ,London,United Kingdom'.format(Neighborhood[i])
    geolocator = Nominatim(user_agent="London_agent")
    location = geolocator.geocode(address)
    Latitude.append(location.latitude)
    Longitude.append(location.longitude)
print(Latitude, Longitude)
```

```
[51.3937811, 51.41749865, 51.358336, 51.4194499, 51.3678984, 51.4096275, 51.43185, 51.3410523, 51.3909852, 51.4053347, 51.4099994, 51.382484, 51.3926421, 51.3937557, 51.3788758] [-0.2848024, -0.30555280504926163, -0.2986216, -0.2653985, -0.3071453, -0.3062621, -0.2581379, -0.3190757, -0.2488979, -0.2634066, -0.2873963, -0.2590897, -0.3143662, -0.3033105, -0.2828604]
```

```
In [81]: df_neigh = {'Neighborhood': Neighborhood, 'Borough':Borough, 'Latitude': Latitude, 'Longitude':Longitude}
kut_neig = pd.DataFrame(data=df_neigh, columns=['Neighborhood', 'Borough', 'Latitude', 'Longitude'], index=None)

kut_neig
```

Out[81]:

	Neighborhood	Borough	Latitude	Longitude
0	Berrylands	Kingston upon Thames	51.393781	-0.284802
1	Canbury	Kingston upon Thames	51.417499	-0.305553
2	Chessington	Kingston upon Thames	51.358336	-0.298622
3	Coombe	Kingston upon Thames	51.419450	-0.265398
4	Hook	Kingston upon Thames	51.367898	-0.307145
5	Kingston upon Thames	Kingston upon Thames	51.409627	-0.306262
6	Kingston Vale	Kingston upon Thames	51.431850	-0.258138
7	Malden Rushett	Kingston upon Thames	51.341052	-0.319076
8	Motspur Park	Kingston upon Thames	51.390985	-0.248898
9	New Malden	Kingston upon Thames	51.405335	-0.263407
10	Norbiton	Kingston upon Thames	51.409999	-0.287396
11	Old Malden	Kingston upon Thames	51.382484	-0.259090
12	Seething Wells	Kingston upon Thames	51.392642	-0.314366
13	Surbiton	Kingston upon Thames	51.393756	-0.303310
14	Tolworth	Kingston upon Thames	51.378876	-0.282860

**Get the co-ordinates of Berrylands, London, United Kingdom (The center neighborhood of Kingston upon Thames)**

```
In [82]: address = 'Berrylands, London, United Kingdom'

geolocator = Nominatim(user_agent="ld_explorer")
location = geolocator.geocode(address)
latitude = location.latitude
longitude = location.longitude
print('The geograpical coordinate of Berrylands, London are {}, {}'.format(latitude, longitude))
```

The geograpical coordinate of Berrylands, London are 51.3937811, -0.2848024.

## Visualize the Neighborhood of Kingston upon Thames Borough

```
In [83]: # create map of New York using Latitude and Longitude values
map_lon = folium.Map(location=[latitude, longitude], zoom_start=12)

# add markers to map
for lat, lng, borough, neighborhood in zip(kut_neig['Latitude'], kut_neig['Longitude'], kut_neig['Borough'], kut_neig['Neighborhood']):
    label = '{} , {}'.format(neighborhood, borough)
    label = folium.Popup(label, parse_html=True)
    folium.CircleMarker(
        [lat, lng],
        radius=5,
        popup=label,
        color='blue',
        fill=True,
        fill_color='#3186cc',
        fill_opacity=0.7,
        parse_html=False).add_to(map_lon)

map_lon
```

Out[83]: Make this Notebook Trusted to load map: File -> Trust Notebook

## Modelling

Finding all the venues within a 500 meter radius of each neighborhood.

Perform one hot encoding on the venues data.

Grouping the venues by the neighborhood and calculating their mean.

Performing a K-means clustering (Defining K = 5)

## Create a function to extract the venues from each Neighborhood

```
In [84]: def getNearbyVenues(names, latitudes, longitudes, radius=500):

    venues_list=[]
    for name, lat, lng in zip(names, latitudes, longitudes):
        print(name)

        # create the API request URL
        url = 'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret={}&v={}&ll={},{}&radius={}&limit={}'.format(
            CLIENT_ID,
            CLIENT_SECRET,
            VERSION,
            lat,
            lng,
            radius,
            LIMIT)

        # make the GET request
        results = requests.get(url).json()["response"]["groups"][0]["items"]

        # return only relevant information for each nearby venue
        venues_list.append([
            name,
            lat,
            lng,
            v['venue']['name'],
            v['venue']['location']['lat'],
            v['venue']['location']['lng'],
            v['venue']['categories'][0]['name']) for v in results])

    nearby_venues = pd.DataFrame([item for venue_list in venues_list for item
in venue_list])
    nearby_venues.columns = ['Neighborhood',
                            'Neighborhood Latitude',
                            'Neighborhood Longitude',
                            'Venue',
                            'Venue Latitude',
                            'Venue Longitude',
                            'Venue Category']

    return(nearby_venues)
```

```
In [85]: kut_venues = getNearbyVenues(names=kut_neig['Neighborhood'],
                                     latitudes=kut_neig['Latitude'],
                                     longitudes=kut_neig['Longitude']
                                     )
```

Berrylands  
 Canbury  
 Chessington  
 Coombe  
 Hook  
 Kingston upon Thames  
 Kingston Vale  
 Malden Rushett  
 Motspur Park  
 New Malden  
 Norbiton  
 Old Malden  
 Seething Wells  
 Surbiton  
 Tolworth

```
In [86]: print(kut_venues.shape)
kut_venues.head()
```

(166, 7)

Out[86]:

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	Berrylands	51.393781	-0.284802	Surbiton Racket & Fitness Club	51.392676	-0.290224	Gym / Fitness Center
1	Berrylands	51.393781	-0.284802	Alexandra Park	51.394230	-0.281206	Park
2	Berrylands	51.393781	-0.284802	K2 Bus Stop	51.392302	-0.281534	Bus Stop
3	Canbury	51.417499	-0.305553	Canbury Gardens	51.417409	-0.305300	Park
4	Canbury	51.417499	-0.305553	The Boater's Inn	51.418546	-0.305915	Pub

In [87]: `kut_venues.groupby('Neighborhood').count()`

Out[87]:

	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
Neighborhood						
Berrylands	3	3	3	3	3	3
Canbury	13	13	13	13	13	13
Hook	4	4	4	4	4	4
Kingston Vale	4	4	4	4	4	4
Kingston upon Thames	30	30	30	30	30	30
Malden Rushett	4	4	4	4	4	4
Motspur Park	4	4	4	4	4	4
New Malden	7	7	7	7	7	7
Norbiton	27	27	27	27	27	27
Old Malden	3	3	3	3	3	3
Seething Wells	20	20	20	20	20	20
Surbiton	30	30	30	30	30	30
Tolworth	17	17	17	17	17	17

In [88]: `print('There are {} uniques categories.'.format(len(kut_venues['Venue Category'].unique())))`

There are 70 uniques categories.

## One hot encoding

URL: <https://hackernoon.com/what-is-one-hot-encoding-why-and-when-do-you-have-to-use-it-e3c6186d008f>  
(<https://hackernoon.com/what-is-one-hot-encoding-why-and-when-do-you-have-to-use-it-e3c6186d008f>)



```
In [89]: # one hot encoding
kut_onehot = pd.get_dummies(kut_venues[['Venue Category']], prefix="", prefix_sep="")

# add neighborhood column back to dataframe
kut_onehot['Neighborhood'] = kut_venues['Neighborhood']

# move neighborhood column to the first column
fixed_columns = [kut_onehot.columns[-1]] + list(kut_onehot.columns[:-1])
kut_onehot = kut_onehot[fixed_columns]

kut_onehot.head()
```

Out[89]:

	Neighborhood	Asian Restaurant	Athletics & Sports	Auto Garage	Bagel Shop	Bakery	Bar	Beer Bar	Bistro	Bowling Alley	Br
0	Berrylands	0	0	0	0	0	0	0	0	0	
1	Berrylands	0	0	0	0	0	0	0	0	0	
2	Berrylands	0	0	0	0	0	0	0	0	0	
3	Canbury	0	0	0	0	0	0	0	0	0	
4	Canbury	0	0	0	0	0	0	0	0	0	

**Grouping rows by neighborhood and by taking the mean of the frequency of occurrence of each category**

```
In [90]: kut_grouped = kut_onehot.groupby('Neighborhood').mean().reset_index()
kut_grouped
```

Out[90]:

	Neighborhood	Asian Restaurant	Athletics & Sports	Auto Garage	Bagel Shop	Bakery	Bar	Beer Bar	B
0	Berrylands	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1	Canbury	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2	Hook	0.000000	0.000000	0.000000	0.000000	0.250000	0.000000	0.000000	0.000000
3	Kingston Vale	0.000000	0.000000	0.000000	0.000000	0.000000	0.250000	0.000000	0.000000
4	Kingston upon Thames	0.033333	0.000000	0.000000	0.000000	0.033333	0.000000	0.033333	0.000000
5	Malden Rushett	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
6	Motspur Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
7	New Malden	0.000000	0.000000	0.000000	0.000000	0.000000	0.142857	0.000000	0.000000
8	Norbiton	0.000000	0.037037	0.037037	0.037037	0.000000	0.000000	0.000000	0.000000
9	Old Malden	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
10	Seething Wells	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
11	Surbiton	0.000000	0.000000	0.000000	0.000000	0.033333	0.033333	0.000000	0.033333
12	Tolworth	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

```
In [91]: kut_grouped.shape
```

Out[91]: (13, 71)

```
In [92]: num_top_venues = 5

for hood in kut_grouped['Neighborhood']:
    print("-----"+hood+"-----")
    temp = kut_grouped[kut_grouped['Neighborhood'] == hood].T.reset_index()
    temp.columns = ['venue', 'freq']
    temp = temp.iloc[1:]
    temp['freq'] = temp['freq'].astype(float)
    temp = temp.round({'freq': 2})
    print(temp.sort_values('freq', ascending=False).reset_index(drop=True).head(num_top_venues))
    print('\n')
```

## ----Berrylands----

	venue	freq
0	Gym / Fitness Center	0.33
1	Park	0.33
2	Bus Stop	0.33
3	Portuguese Restaurant	0.00
4	Platform	0.00

## ----Canbury----

	venue	freq
0	Pub	0.31
1	Gym / Fitness Center	0.08
2	Supermarket	0.08
3	Park	0.08
4	Fish & Chips Shop	0.08

## ----Hook----

	venue	freq
0	Bakery	0.25
1	Indian Restaurant	0.25
2	Supermarket	0.25
3	Fish & Chips Shop	0.25
4	Asian Restaurant	0.00

## ----Kingston Vale----

	venue	freq
0	Grocery Store	0.25
1	Soccer Field	0.25
2	Bar	0.25
3	Sandwich Place	0.25
4	Pizza Place	0.00

## ----Kingston upon Thames----

	venue	freq
0	Café	0.10
1	Sushi Restaurant	0.07
2	Coffee Shop	0.07
3	Pub	0.07
4	Burger Joint	0.07

## ----Malden Rushett----

	venue	freq
0	Grocery Store	0.25
1	Pub	0.25
2	Garden Center	0.25
3	Restaurant	0.25
4	Market	0.00

## ----Motspur Park----

	venue	freq
0	Soccer Field	0.25

1	Gym	0.25
2	Construction & Landscaping	0.25
3	Park	0.25
4	Market	0.00

----New Malden----

	venue	freq
0	Indian Restaurant	0.14
1	Bar	0.14
2	Gastropub	0.14
3	Sushi Restaurant	0.14
4	Supermarket	0.14

----Norbiton----

	venue	freq
0	Indian Restaurant	0.11
1	Food	0.07
2	Platform	0.07
3	Italian Restaurant	0.07
4	Pub	0.07

----Old Malden----

	venue	freq
0	Food	0.33
1	Train Station	0.33
2	Pub	0.33
3	Asian Restaurant	0.00
4	Pharmacy	0.00

----Seething Wells----

	venue	freq
0	Indian Restaurant	0.20
1	Pub	0.10
2	Coffee Shop	0.10
3	Chinese Restaurant	0.05
4	Gym / Fitness Center	0.05

----Surbiton----

	venue	freq
0	Coffee Shop	0.20
1	Pub	0.10
2	Grocery Store	0.07
3	Pharmacy	0.07
4	Italian Restaurant	0.07

----Tolworth----

	venue	freq
0	Grocery Store	0.18
1	Restaurant	0.12
2	Soccer Field	0.06
3	Pharmacy	0.06

4 Discount Store 0.06

### Create a data frame of the venues

Function to sort the venues in descending order

```
In [93]: def return_most_common_venues(row, num_top_venues):  
    row_categories = row.iloc[1:]  
    row_categories_sorted = row_categories.sort_values(ascending=False)  
  
    return row_categories_sorted.index.values[0:num_top_venues]
```

Create the new dataframe and display the top 10 venues for each neighborhood

```

In [94]: num_top_venues = 10

indicators = ['st', 'nd', 'rd']

# create columns according to number of top venues
columns = ['Neighborhood']
for ind in np.arange(num_top_venues):
    try:
        columns.append('{}{} Most Common Venue'.format(ind+1, indicators[ind
]))
    except:
        columns.append('{}th Most Common Venue'.format(ind+1))

# create a new dataframe
neighborhoods_venues_sorted = pd.DataFrame(columns=columns)
neighborhoods_venues_sorted['Neighborhood'] = kut_grouped['Neighborhood']

for ind in np.arange(kut_grouped.shape[0]):
    neighborhoods_venues_sorted.iloc[ind, 1:] = return_most_common_venues(kut_
grouped.iloc[ind, :], num_top_venues)

neighborhoods_venues_sorted.head()

```

Out[94]:

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue
0	Berrylands	Park	Gym / Fitness Center	Bus Stop	Turkish Restaurant	Fast Food Restaurant	Discount Store	Dry Cleaner
1	Canbury	Pub	Fish & Chips Shop	Supermarket	Plaza	Gym / Fitness Center	Shop & Service	Café
2	Hook	Fish & Chips Shop	Bakery	Supermarket	Indian Restaurant	Turkish Restaurant	Department Store	Discount Store
3	Kingston Vale	Sandwich Place	Grocery Store	Bar	Soccer Field	Turkish Restaurant	Department Store	Discount Store
4	Kingston upon Thames	Café	Pub	Burger Joint	Sushi Restaurant	Coffee Shop	Turkish Restaurant	Electronics Store

## Clustering similar neighborhoods together using k - means clustering

```
In [95]: # import k-means from clustering stage
from sklearn.cluster import KMeans

# set number of clusters
kclusters = 5

kut_grouped_clustering = kut_grouped.drop('Neighborhood', 1)

# run k-means clustering
kmeans = KMeans(n_clusters=kclusters, random_state=0).fit(kut_grouped_clustering)

# check cluster labels generated for each row in the dataframe
kmeans.labels_[0:10]
```

Out[95]: array([0, 2, 2, 1, 2, 1, 3, 2, 2, 4], dtype=int32)

```
In [96]: # add clustering labels
neighborhoods_venues_sorted.insert(0, 'Cluster Labels', kmeans.labels_)

kut_merged = kut_neig

# merge toronto_grouped with toronto_data to add latitude/longitude for each neighborhood
kut_merged = kut_merged.join(neighborhoods_venues_sorted.set_index('Neighborhood'), on='Neighborhood')

kut_merged.head() # check the last columns!
```

Out[96]:

	Neighborhood	Borough	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue
0	Berrylands	Kingston upon Thames	51.393781	-0.284802	0.0	Park	Gym / Fitness Center	Bus Stop	Res
1	Canbury	Kingston upon Thames	51.417499	-0.305553	2.0	Pub	Fish & Chips Shop	Supermarket	
2	Chessington	Kingston upon Thames	51.358336	-0.298622	NaN	NaN	NaN	NaN	
3	Coombe	Kingston upon Thames	51.419450	-0.265398	NaN	NaN	NaN	NaN	
4	Hook	Kingston upon Thames	51.367898	-0.307145	2.0	Fish & Chips Shop	Bakery	Supermarket	Res



In [97]: kut\_merged.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 15 entries, 0 to 14
Data columns (total 15 columns):
Neighborhood      15 non-null object
Borough           15 non-null object
Latitude          15 non-null float64
Longitude         15 non-null float64
Cluster Labels    13 non-null float64
1st Most Common Venue  13 non-null object
2nd Most Common Venue  13 non-null object
3rd Most Common Venue  13 non-null object
4th Most Common Venue  13 non-null object
5th Most Common Venue  13 non-null object
6th Most Common Venue  13 non-null object
7th Most Common Venue  13 non-null object
8th Most Common Venue  13 non-null object
9th Most Common Venue  13 non-null object
10th Most Common Venue 13 non-null object
dtypes: float64(3), object(12)
memory usage: 1.8+ KB
```

In [98]: *# Dropping the row with the NaN value*  
kut\_merged.dropna(inplace = **True**)

In [99]: kut\_merged.shape

Out[99]: (13, 15)

In [100]: kut\_merged['Cluster Labels'] = kut\_merged['Cluster Labels'].astype(int)

In [101]: kut\_merged.info()

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 13 entries, 0 to 14
Data columns (total 15 columns):
Neighborhood      13 non-null object
Borough           13 non-null object
Latitude          13 non-null float64
Longitude         13 non-null float64
Cluster Labels    13 non-null int64
1st Most Common Venue  13 non-null object
2nd Most Common Venue  13 non-null object
3rd Most Common Venue  13 non-null object
4th Most Common Venue  13 non-null object
5th Most Common Venue  13 non-null object
6th Most Common Venue  13 non-null object
7th Most Common Venue  13 non-null object
8th Most Common Venue  13 non-null object
9th Most Common Venue  13 non-null object
10th Most Common Venue 13 non-null object
dtypes: float64(2), int64(1), object(12)
memory usage: 1.6+ KB
```

## Visualize the clusters

```
In [102]: # create map
map_clusters = folium.Map(location=[latitude, longitude], zoom_start=11.5)

# set color scheme for the clusters
x = np.arange(kclusters)
ys = [i + x + (i*x)**2 for i in range(kclusters)]
colors_array = cm.rainbow(np.linspace(0, 1, len(ys)))
rainbow = [colors.rgb2hex(i) for i in colors_array]

# add markers to the map
markers_colors = []
for lat, lon, poi, cluster in zip(kut_merged['Latitude'], kut_merged['Longitude'], kut_merged['Neighborhood'], kut_merged['Cluster Labels']):
    label = folium.Popup(str(poi) + ' Cluster ' + str(cluster), parse_html=True)
    folium.CircleMarker(
        [lat, lon],
        radius=8,
        popup=label,
        color=rainbow[cluster-1],
        fill=True,
        fill_color=rainbow[cluster-1],
        fill_opacity=0.5).add_to(map_clusters)

map_clusters
```

Out[102]: Make this Notebook Trusted to load map: File -> Trust Notebook

Each cluster is color coded for the ease of presentation, we can see that majority of the neighborhood falls in the red cluster which is the first cluster. Three neighborhoods have their own cluster (Blue, Purple and Yellow), these are clusters two three and five. The green cluster consists of two neighborhoods which is the 4th cluster.

## Analysis

Analyse each of the clusters to identify the characteristics of each cluster and the neighborhoods in them.

### Examine the first cluster

```
In [104]: kut_merged[kut_merged['Cluster Labels'] == 0]
```

Out[104]:

	Neighborhood	Borough	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue
0	Berrylands	Kingston upon Thames	51.393781	-0.284802	0	Park	Gym / Fitness Center	Bus Stop	Tur Restau

The cluster one is the biggest cluster with 9 of the 15 neighborhoods in the borough Kingston upon Thames. Upon closely examining these neighborhoods we can see that the most common venues in these neighborhoods are Restaurants, Pubs, Cafe, Supermarkets, and stores.

### Examine the second cluster

```
In [105]: kut_merged[kut_merged['Cluster Labels'] == 1]
```

Out[105]:

	Neighborhood	Borough	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue
6	Kingston Vale	Kingston upon Thames	51.431850	-0.258138	1	Sandwich Place	Grocery Store	Bar	
7	Malden Rushett	Kingston upon Thames	51.341052	-0.319076	1	Grocery Store	Garden Center	Pub	Res
14	Tolworth	Kingston upon Thames	51.378876	-0.282860	1	Grocery Store	Restaurant	Sandwich Place	

The second cluster has one neighborhood which consists of Venues such as Restaurants, Golf courses, and wine shops.

### Examine the third cluster

```
In [106]: kut_merged[kut_merged['Cluster Labels'] == 2]
```

Out[106]:

	Neighborhood	Borough	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue
1	Canbury	Kingston upon Thames	51.417499	-0.305553	2	Pub	Fish & Chips Shop	Supermarket
4	Hook	Kingston upon Thames	51.367898	-0.307145	2	Fish & Chips Shop	Bakery	Supermarket
5	Kingston upon Thames	Kingston upon Thames	51.409627	-0.306262	2	Café	Pub	Burger Joint
9	New Malden	Kingston upon Thames	51.405335	-0.263407	2	Gastropub	Indian Restaurant	Chinese Restaurant
10	Norbiton	Kingston upon Thames	51.409999	-0.287396	2	Indian Restaurant	Italian Restaurant	Food
12	Seething Wells	Kingston upon Thames	51.392642	-0.314366	2	Indian Restaurant	Coffee Shop	Pub
13	Surbiton	Kingston upon Thames	51.393756	-0.303310	2	Coffee Shop	Pub	Pharmacy

The third cluster has one neighborhood which consists of Venues such as Train stations, Restaurants, and Furniture shops.

### Examine the forth cluster

```
In [108]: kut_merged[kut_merged['Cluster Labels'] == 3]
```

```
Out[108]:
```

	Neighborhood	Borough	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Common Venue
8	Motspur Park	Kingston upon Thames	51.390985	-0.248898	3	Construction & Landscaping	Gym	Park	S

The fourth cluster has two neighborhoods in it, these neighborhoods have common venues such as Parks, Gym/Fitness centers, Bus Stops, Restaurants, Electronics Stores and Soccer fields etc.

### Examine the fifth cluster

```
In [109]: kut_merged[kut_merged['Cluster Labels'] == 4]
```

```
Out[109]:
```

	Neighborhood	Borough	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Common Venue
11	Old Malden	Kingston upon Thames	51.382484	-0.25909	4	Train Station	Pub	Food	Fast Resta

The fifth cluster has one neighborhood which consists of Venues such as Grocery shops, Bars, Restaurants, Furniture shops, and Department stores.

## Results and Discussion

The aim of this project is to help people who want to relocate to the safest borough in London, expats can chose the neighborhoods to which they want to relocate based on the most common venues in it. For example if a person is looking for a neighborhood with good connectivity and public transportation we can see that Clusters 3 and 4 have Train stations and Bus stops as the most common venues. If a person is looking for a neighborhood with stores and restaurants in a close proximity then the neighborhoods in the first cluster is suitable. For a family I feel that the neighborhoods in Cluster 4 are more suitable dues to the common venues in that cluster, these neighborhoods have common venues such as Parks, Gym/Fitness centers, Bus Stops, Restaurants, Electronics Stores and Soccer fields which is ideal for a family.

## Conclusion

This project helps a person get a better understanding of the neighborhoods with respect to the most common venues in that neighborhood. It is always helpful to make use of technology to stay one step ahead i.e. finding out more about places before moving into a neighborhood. We have just taken safety as a primary concern to shortlist the borough of London. The future of this project includes taking other factors such as cost of living in the areas into consideration to shortlist the borough based on safety and a predefined budget.

**Thank You!!!**