```
In [2]: # Import all libraries required
        from bs4 import BeautifulSoup
        import requests
        import pandas as pd
        from sklearn.cluster import KMeans
        import folium
        import geocoder
        # Matplotlib and associated plotting modules
        import matplotlib.cm as cm
        import matplotlib.colors as colors
        # import k-means from clustering stage
        from sklearn.cluster import KMeans
        #!conda install -c conda-forge folium=0.5.0 --yes # uncomment this line if you
        haven't completed the Foursquare API lab
        import folium # map rendering library
        from geopy.geocoders import Nominatim
```

In [3]: # Read the dataset (dataset was downloaded from Kaggle - London crime 2008-201
6)
 CrimeData = pd.read\_csv("C:/Users/ragha/Downloads/london-crime/london\_crime\_by
 \_lsoa.csv")
 CrimeData.head()

#### Out[3]:

	Isoa_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 [7]: CrimeData.drop(CrimeData.index[CrimeData['year']!=2016], inplace = True)
    CrimeData = CrimeData[CrimeData.value != 0]
    CrimeData = CrimeData.reset_index(drop = True)
```

In [9]: CrimeData.shape

Out[9]: (392042, 7)

## In [11]: CrimeData.head()

#### Out[11]:

	Isoa_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

## In [12]: CrimeData.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 392042 entries, 0 to 392041
Data columns (total 7 columns):

lsoa\_code
borough
major\_category
value
392042 non-null object
392042 non-null object
392042 non-null object
392042 non-null object
392042 non-null int64

year 392042 non-null int64 month 392042 non-null int64

dtypes: int64(3), object(4)
memory usage: 20.9+ MB

```
In [13]: CrimeData['borough'].value counts()
Out[13]: 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
                                      9699
         Havering
         Kensington and Chelsea
                                      9653
         Harrow
                                      8257
                                      8245
         Bexley
                                      8223
         Merton
                                      7199
         Richmond upon Thames
         Sutton
                                      6823
         Kingston upon Thames
                                      5374
         City of London
                                      122
         Name: borough, dtype: int64
         CrimeData['major category'].value counts()
In [16]:
          import numpy as np
In [21]:
         LondonCrimeData = pd.pivot_table(CrimeData, values = ['value'], index = ['boro
          ugh'], columns = ['major_category'], aggfunc = np.sum, fill_value = 0)
```

In [22]: LondonCrimeData.head()

Out[22]:

value

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

In [23]: LondonCrimeData.reset\_index(inplace = True)

In [24]: LondonCrimeData['Total'] = LondonCrimeData.sum(axis = 1)

In [25]: LondonCrimeData.head(10)

Out[25]:

borough value

major_category		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	:
4									•

In [26]: LondonCrimeData.columns = LondonCrimeData.columns.map("".join)
 LondonCrimeData.head()

# Out[26]:

	borough	valueBurglary	valueCriminal Damage	valueDrugs	valueOther Notifiable Offences	valueRobbery	valueTheft and Handling	v
0	Barking and Dagenham	1287	1949	919	378	534	5607	
1	Barnet	3402	2183	906	499	464	9731	
2	Bexley	1123	1673	646	294	209	4392	
3	Brent	2631	2280	2096	536	919	9026	
4	Bromley	2214	2202	728	417	369	7584	
4								•

10/5/2019

# Out[27]:

	Borough	Bulgary	Criminal Damage	Drugs	Other Notifiable Offences	Robbery	Theft and handling	Violence against people	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
5	Camden	2652	1935	1493	490	899	14088	7626	29183
6	City of London	2	2	10	6	4	129	25	178
7	Croydon	2738	3219	1367	718	1139	9229	10302	28712
8	Ealing	2492	2562	1355	613	669	10040	9396	27127
9	Enfield	2541	2136	1063	492	807	8037	7409	22485
10	Greenwich	1780	2476	867	521	486	8010	8590	22730
11	Hackney	2719	1981	1353	499	1030	11851	8832	28265
12	Hammersmith and Fulham	1531	1408	1321	474	397	8925	6118	20174
13	Haringey	2474	2233	1540	551	1248	10554	8574	27174
14	Harrow	1994	1212	473	267	377	4537	4293	13153
15	Havering	1826	1804	718	389	311	5919	5936	16903
16	Hillingdon	2229	2470	1042	1305	420	9045	7830	24341
17	Hounslow	1808	2213	1086	665	392	8682	7405	22251
18	Islington	2051	1903	1777	508	936	12077	7840	27092
19	Kensington and Chelsea	1449	1051	1680	326	523	9855	4696	19580
20	Kingston upon Thames	879	1054	743	189	121	3803	3194	9983
21	Lambeth	3087	2764	2738	635	1196	13155	10496	34071
22	Lewisham	2071	2351	1617	485	869	7702	8809	23904
23	Merton	1419	1418	466	249	283	4894	4026	12755
24	Newham	2115	2496	1684	713	1472	11964	9646	30090
25	Redbridge	1997	1650	1017	381	599	7447	6411	19502
26	Richmond upon Thames	1359	1148	320	217	106	4769	3155	11074
27	Southwark	2946	2621	1838	494	1317	12946	9474	31636
28	Sutton	1233	1316	461	253	165	3516	3714	10658
29	Tower Hamlets	2794	2357	1629	678	1234	10953	9608	29253
30	Waltham Forest	1873	1989	1042	444	602	7357	7409	20716

10/5/2019 Capstone Project

	Borough	Bulgary	Criminal Damage	Drugs	Other Notifiable Offences	Robbery	Theft and handling	Violence against people	Total
31	Wandsworth	2351	1836	870	415	609	10789	6809	23679
32	Westminster	3218	2179	2049	708	1822	27520	10834	48330

In [28]: LondonCrimeData.shape

Out[28]: (33, 9)

In [30]: LondonCrimeData.describe()

Out[30]:

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

In [33]: CLIENT\_ID = 'DGAZKXRPMEK22CQC4GONQOFZJD4K2ZEJNKHAPN0WAANLVFNP'
 CLIENT\_SECRET = 'TR2UYMFXDHNHBYRSCN3T4IPLLPKBTCD202TVK1CS1PXGBHTZ'
 VERSION = '20190510'
 LIMIT = 30

```
In [34]: # 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">
  <meta charset="UTF-8"/>
  <title>
   List of London boroughs - Wikipedia
  </title>
  <script>
   document.documentElement.className="client-js";RLCONF={"wgCanonicalNamespa
ce":"","wgCanonicalSpecialPageName":!1,"wgNamespaceNumber":0,"wgPageName":"Li
st_of_London_boroughs","wgTitle":"List of London boroughs","wgCurRevisionId":
881899861, "wgRevisionId": 881899861, "wgArticleId": 28092685, "wgIsArticle": !0, "w
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o","London boroughs","Lists of places in London"],"wgBreakFrames":!1,"wgPageC
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t", "September", "October", "November", "December"], "wgMonthNamesShort":["", "Ja
n", "Feb", "Mar", "Apr", "May", "Jun", "Jul", "Aug", "Sep", "Oct", "Nov", "Dec"],
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5, "wgRequestId": "XZaIyApAICoAACHEOLYAAAAD", "wgCSPNonce": !1, "wgIsProbablyEdita
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dByHHVM":!1, "wgULSCurrentAutonym": "English", "wgNoticeProject": "wikipedia", "wg
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or.styles":"ready"};RLPAGEMODULES=["ext.cite.ux-enhancements","site","mediawi
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t.gadget.ReferenceTooltips","ext.gadget.watchlist-notice","ext.gadget.DRN-wiz
ard","ext.gadget.charinsert","ext.gadget.refToolbar","ext.gadget.extra-toolba
r-buttons", "ext.gadget.switcher", "ext.centralauth.centralautologin", "mmv.hea
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get.init"
,"ext.visualEditor.targetLoader","ext.eventLogging","ext.wikimediaEvents","ex
t.navigationTiming","ext.uls.compactlinks","ext.uls.interface","ext.cx.eventl
ogging.campaigns", "ext.quicksurveys.init", "ext.centralNotice.geoIP", "ext.cent
ralNotice.startUp", "skins.vector.js"];
  </script>
  <script>
   (RLQ=window.RLQ||[]).push(function(){mw.loader.implement("user.tokens@tffi
n",function($,jQuery,require,module){/*@nomin*/mw.user.tokens.set({"editToke")}
```

```
n":"+\\","patrolToken":"+\\","watchToken":"+\\","csrfToken":"+\\"});
});});
  </script>
  <link href="/w/load.php?lang=en&amp;modules=ext.3d.styles%7Cext.cite.style</pre>
s%7Cext.uls.interlanguage%7Cext.visualEditor.desktopArticleTarget.noscript%7C
ext.wikimediaBadges%7Cjquery.makeCollapsible.styles%7Cjquery.tablesorter.styl
es%7Cmediawiki.legacy.commonPrint%2Cshared%7Cmediawiki.skinning.interface%7Cm
ediawiki.toc.styles%7Cskins.vector.styles%7Cwikibase.client.init&only=sty
les& skin=vector" rel="stylesheet"/>
  <script async="" src="/w/load.php?lang=en&amp;modules=startup&amp;only=scri</pre>
pts&raw=1&skin=vector"/>
  <meta content="" name="ResourceLoaderDynamicStyles"/>
  <link href="/w/load.php?lang=en&amp;modules=site.styles&amp;only=styles&am</pre>
p;skin=vector" rel="stylesheet"/>
  <meta content="MediaWiki 1.34.0-wmf.25" name="generator"/>
  <meta content="origin" name="referrer"/>
  <meta content="origin-when-crossorigin" name="referrer"/>
  <meta content="origin-when-cross-origin" name="referrer"/>
  <link href="android-app://org.wikipedia/http/en.m.wikipedia.org/wiki/List o</pre>
f_London_boroughs" rel="alternate"/>
  <link href="/w/index.php?title=List_of_London_boroughs&amp;action=edit" rel</pre>
="alternate" title="Edit this page" type="application/x-wiki"/>
  <link href="/w/index.php?title=List of London boroughs&amp;action=edit" rel</pre>
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  <link href="/static/favicon/wikipedia.ico" rel="shortcut icon"/>
  <link href="/w/opensearch desc.php" rel="search" title="Wikipedia (en)" typ</pre>
e="application/opensearchdescription+xml"/>
  <link href="//en.wikipedia.org/w/api.php?action=rsd" rel="EditURI" type="ap</pre>
plication/rsd+xml"/>
  <link href="//creativecommons.org/licenses/by-sa/3.0/" rel="license"/>
  <link href="https://en.wikipedia.org/wiki/List of London boroughs" rel="can</pre>
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">
  <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">
     Jump to search
    </a>
    <div class="mw-content-ltr" dir="ltr" id="mw-content-text" lang="en">
     <div class="mw-parser-output">
      <div class="thumb tright">
       <div class="thumbinner" style="width:302px;">
        <a class="image" href="/wiki/File:London-boroughs.svg">
         <img alt="" class="thumbimage" data-file-height="386" data-file-widt</pre>
h="489" decoding="async" height="237" src="//upload.wikimedia.org/wikipedia/c
ommons/thumb/2/29/London-boroughs.svg/300px-London-boroughs.svg.png" srcset
="//upload.wikimedia.org/wikipedia/commons/thumb/2/29/London-boroughs.svg/450
px-London-boroughs.svg.png 1.5x, //upload.wikimedia.org/wikipedia/commons/thu
mb/2/29/London-boroughs.svg/600px-London-boroughs.svg.png 2x" width="300"/>
        </a>
        <div class="thumbcaption">
         <div class="magnify">
          <a class="internal" href="/wiki/File:London-boroughs.svg" title="En</pre>
large"/>
         </div>
         Map of the 32 London boroughs and the City of London.
        </div>
       </div>
      </div>
      >
       This is a list of
       <a href="/wiki/Districts_of_England" title="Districts of England">
        local authority districts
       </a>
       within
       <a href="/wiki/Greater_London" title="Greater London">
        Greater London
       </a>
       , including 32
       <a href="/wiki/London boroughs" title="London boroughs">
        London boroughs
       </a>
       and the
       <a href="/wiki/City of London" title="City of London">
        City of London
       </a>
       . The London boroughs were all created on 1 April 1965. Upon creation,
twelve were designated
       <a href="/wiki/Inner London" title="Inner London">
        Inner London
       </a>
       boroughs and the remaining twenty were designated
       <a href="/wiki/Outer London" title="Outer London">
        Outer London
       </a>
```

```
boroughs. The
       <a href="/wiki/Office_for_National_Statistics" title="Office for Natio"</pre>
nal Statistics">
       Office for National Statistics
       </a>
      has amended the designations of three boroughs for statistics purposes
only. Three boroughs have been granted the designation
      <a class="mw-redirect" href="/wiki/Royal borough" title="Royal boroug</pre>
h">
       royal borough
       </a>
       and one has
      <a href="/wiki/City status in the United Kingdom" title="City status i</pre>
n the United Kingdom">
       city status
       </a>
       . For planning purposes, in addition to the boroughs and City there ar
e also two active development corporations, the
       <a href="/wiki/London Legacy Development Corporation" title="London Le
gacy Development Corporation">
       London Legacy Development Corporation
       </a>
      and
       <a href="/wiki/Old Oak and Park Royal Development Corporation" title
="Old Oak and Park Royal Development Corporation">
       Old Oak and Park Royal Development Corporation
      </a>
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        Contents
       </h2>
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        <label class="toctogglelabel" for="toctogglecheckbox"/>
       </span>
       </div>
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          1
         </span>
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          List of boroughs and local authorities
         </span>
        </a>
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         <span class="tocnumber">
          2
         </span>
         <span class="toctext">
```

```
City of London
        </span>
       </a>
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         3
        </span>
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         See also
        </span>
       </a>
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        <span class="tocnumber">
         4
        </span>
        <span class="toctext">
         Notes
        </span>
       </a>
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         5
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         References
        </span>
       </a>
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         6
        </span>
        <span class="toctext">
         External links
        </span>
       </a>
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      List of boroughs and local authorities
      </span>
      <span class="mw-editsection">
      <span class="mw-editsection-bracket">
       [
      </span>
      <a href="/w/index.php?title=List_of_London_boroughs&amp;action=edit&a</pre>
mp;section=1" title="Edit section: List of boroughs and local authorities">
```

</a>

```
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      </span>
     </span>
    </h2>
    Borough
      Inner
      Status
      Local authority
      Political control
      Headquarters
      Area (sq mi)
      Population (2013 est)
       <sup class="reference" id="cite_ref-1">
        <a href="#cite_note-1">
         [1]
        </a>
       </sup>
      Co-ordinates
      <span style="background:#67BCD3">
        Nr. in map
       </span>
      <a href="/wiki/London_Borough_of_Barking_and_Dagenham" title="Londo"</pre>
n Borough of Barking and Dagenham">
        Barking and Dagenham
       </a>
       <sup class="reference" id="cite_ref-2">
        <a href="#cite_note-2">
         [note 1]
        </a>
```

```
</sup>
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Borough Council">
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(UK)">
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          </a>
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Borough Council">
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(UK)">
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n Borough Council">
          Bromley London Borough Council
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Croydon">
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               </span>
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aling">
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B type:city&title=Hammersmith+and+Fulham">
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               Hammersmith and Fulham
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Haringey">
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arrow">
          Harrow
          </a>
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         <a href="/wiki/Harrow_London_Borough_Council" title="Harrow London</pre>
Borough Council">
```

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Harrow London Borough Council
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B_type:city&title=Harrow">
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               </span>
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Havering">
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don Borough Council">
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(UK)">
          Conservative
         </a>
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              </span>
              )
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of Hillingdon">
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          </a>
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London Borough Council">
          Hillingdon London Borough Council
```

```
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(UK)">
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          </a>
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tre">
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          </a>
          , High Street
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Hounslow">
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t)">
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          Υ
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          </a>
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(
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1 Borough of Kensington and Chelsea">
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         </a>
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(UK)">
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         </a>
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Hall, London">
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ugh">
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K)">
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Thames Guildhall">
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              <span class="fn org">
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              )
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n Borough Council">
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```

```
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          </a>
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               </span>
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don Borough Council">
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         </a>
        <a href="/wiki/Labour_Party_(UK)" title="Labour Party (UK)">
          Labour
         </a>
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B type:city&title=Lewisham">
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for this location">
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               Lewisham
              </span>
              )
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               Merton
               </span>
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```

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        <a href="/wiki/London_Borough_of_Newham" title="London Borough of N
ewham">
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Borough Council">
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         </a>
        <a href="/wiki/Labour_Party_(UK)" title="Labour Party (UK)">
          Labour
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         , 1000 Dockside Road
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         </span>
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         27
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f Redbridge">
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        <a href="/wiki/Redbridge London Borough Council" title="Redbridge L</pre>
ondon Borough Council">
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        <a href="/wiki/Labour_Party_(UK)" title="Labour Party (UK)">
```

```
Labour
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               </span>
               )
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n Borough of Richmond upon Thames">
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K)">
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ondon Borough Council">
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```
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               </span>
               )
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```

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        7
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```
0°11'40"W
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               <span class="geo">
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               </span>
               )
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         18
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g/wikipedia/en/thumb/f/fb/Yes check.svg/40px-Yes check.svg.png 2x" width="2
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```
amlets London Borough Council">
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          </a>
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           Labour
          </a>
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```
Tower Hamlets
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ugh of Waltham Forest">
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              </span>
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a for this location">
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              </span>
              )
             </span>
            </span>
           </span>
          </a>
         </span>
        5
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uncil">
          Westminster City Council
         </a>
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 (UK)">
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                (
               <span class="fn org">
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               </span>
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      </span>
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mp;section=2" title="Edit section: City of London">
      edit
      </a>
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    </h2>
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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.
    <i>>
        'Borough'
       </i>
      Inner
      Status
      Local authority
      Political control
      Headquarters
      Area
       <br/>
       (sq mi)
```

```
Population
         <br/>
         (2011 est)
         Co-ordinates
        <span style="background:#67BCD3">
          Nr. in
          <br/>
          map
         </span>
        <a href="/wiki/City_of_London" title="City of London">
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         </a>
        >
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          </a>
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s in the United Kingdom">
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         </a>
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unties of England">
```

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Ceremonial county
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          </a>
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          </a>
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              </span>
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Categories
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      <u1>
       <
        <a href="/wiki/Category:London_boroughs" title="Category:London borou</pre>
ghs">
         London boroughs
        </a>
       <
        <a href="/wiki/Category:Lists_of_places_in_London" title="Category:Li</pre>
sts of places in London">
         Lists of places in London
        </a>
       </div>
     <div class="mw-hidden-catlinks mw-hidden-cats-hidden" id="mw-hidden-catl</pre>
inks">
      Hidden categories:
      <l
       <1i>>
        <a href="/wiki/Category:Use_dmy_dates_from_August_2015" title="Catego"
</pre>
ry:Use dmy dates from August 2015">
         Use dmy dates from August 2015
        </a>
       <
        <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>
       <
        <a href="/wiki/Category:Lists_of_coordinates" title="Category:Lists o</pre>
f coordinates">
         Lists of coordinates
        </a>
       <
        <a href="/wiki/Category:Geographic coordinate lists" title="Category:</pre>
Geographic coordinate lists">
        Geographic coordinate lists
        </a>
       <
        <a href="/wiki/Category:Articles_with_Geo" title="Category:Articles w</pre>
ith Geo">
         Articles with Geo
        </a>
       </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">
   <div aria-labelledby="p-personal-label" id="p-personal" role="navigatio</pre>
n">
    <h3 id="p-personal-label">
     Personal tools
    </h3>
    <l
     Not logged in
     id="pt-anontalk">
      <a accesskey="n" href="/wiki/Special:MyTalk" title="Discussion about e</pre>
dits from this IP address [n]">
       Talk
      </a>
     <a accesskey="y" href="/wiki/Special:MyContributions" title="A list of</pre>
edits made from this IP address [y]">
       Contributions
      </a>
     <a href="/w/index.php?title=Special:CreateAccount&amp;returnto=List+of</pre>
+London+boroughs" title="You are encouraged to create an account and log in;
however, it is not mandatory">
       Create account
      </a>
     id="pt-login">
      <a accesskey="o" href="/w/index.php?title=Special:UserLogin&amp;return</pre>
to=List+of+London+boroughs" title="You're encouraged to log in; however, it's
not mandatory. [o]">
       Log in
      </a>
     </div>
   <div id="left-navigation">
    <div aria-labelledby="p-namespaces-label" class="vectorTabs" id="p-names</pre>
paces" role="navigation">
     <h3 id="p-namespaces-label">
      Namespaces
     </h3>
     <l
      <span>
        <a accesskey="c" href="/wiki/List_of_London_boroughs" title="View th</pre>
e content page [c]">
```

```
Article
        </a>
       </span>
      id="ca-talk">
       <span>
        <a accesskey="t" href="/wiki/Talk:List of London boroughs" rel="disc</pre>
ussion" title="Discussion about the content page [t]">
        Talk
        </a>
       </span>
      </div>
    <div aria-labelledby="p-variants-label" class="vectorMenu emptyPortlet"</pre>
id="p-variants" role="navigation">
     <input aria-labelledby="p-variants-label" class="vectorMenuCheckbox" ty</pre>
pe="checkbox"/>
     <h3 id="p-variants-label">
      <span>
       Variants
      </span>
     </h3>
     </div>
   </div>
   <div id="right-navigation">
    <div aria-labelledby="p-views-label" class="vectorTabs" id="p-views" rol</pre>
e="navigation">
     <h3 id="p-views-label">
      Views
     </h3>
     <l
      <a href="/wiki/List_of_London_boroughs">
        Read
        </a>
       </span>
      <span>
        <a accesskey="e" href="/w/index.php?title=List of London boroughs&am</pre>
p;action=edit" title="Edit this page [e]">
        Edit
        </a>
       </span>
      <a accesskey="h" href="/w/index.php?title=List of London boroughs&am</pre>
p;action=history" title="Past revisions of this page [h]">
        View history
        </a>
       </span>
```

```
</div>
     <div aria-labelledby="p-cactions-label" class="vectorMenu emptyPortlet"</pre>
 id="p-cactions" role="navigation">
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pe="checkbox"/>
      <h3 id="p-cactions-label">
      <span>
       More
      </span>
      </h3>
      </div>
     <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</pre>
ch Wikipedia" title="Search Wikipedia [f]" type="search"/>
        <input name="title" type="hidden" value="Special:Search"/>
        <input class="searchButton mw-fallbackSearchButton" id="mw-searchButt</pre>
on" name="fulltext" title="Search Wikipedia for this text" type="submit" valu
e="Search"/>
        <input class="searchButton" id="searchButton" name="go" title="Go to</pre>
 a page with this exact name if it exists "type="submit" value="Go"/>
       </div>
      </form>
     </div>
    </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 pag</pre>
e"/>
    </div>
    <div aria-labelledby="p-navigation-label" class="portal" id="p-navigatio"</pre>
n" role="navigation">
     <h3 id="p-navigation-label">
     Navigation
     </h3>
     <div class="body">
      <l
      <a accesskey="z" href="/wiki/Main Page" title="Visit the main page</pre>
 [z]">
        Main page
        </a>
       <a href="/wiki/Portal:Contents" title="Guides to browsing Wikipedia">
        Contents
        </a>
```

```
<a href="/wiki/Portal:Featured_content" title="Featured content - the</pre>
best of Wikipedia">
        Featured content
       </a>
      <a href="/wiki/Portal:Current_events" title="Find background informat</pre>
ion on current events">
       Current events
       </a>
      <a accesskey="x" href="/wiki/Special:Random" title="Load a random art</pre>
icle [x]">
        Random article
       </a>
      <a href="https://donate.wikimedia.org/wiki/Special:FundraiserRedirect</pre>
or?utm source=donate&utm medium=sidebar&utm campaign=C13 en.wikipedi
a.org&uselang=en" title="Support us">
       Donate to Wikipedia
       </a>
      id="n-shoplink">
       <a href="//shop.wikimedia.org" title="Visit the Wikipedia store">
        Wikipedia store
       </a>
      </div>
   </div>
   <div aria-labelledby="p-interaction-label" class="portal" id="p-interacti</pre>
on" role="navigation">
    <h3 id="p-interaction-label">
     Interaction
    </h3>
    <div class="body">
     <l
      id="n-help">
       <a href="/wiki/Help:Contents" title="Guidance on how to use and edit
Wikipedia">
        Help
       </a>
      <a href="/wiki/Wikipedia:About" title="Find out about Wikipedia">
        About Wikipedia
       </a>
      id="n-portal">
       <a href="/wiki/Wikipedia:Community portal" title="About the project,</pre>
what you can do, where to find things">
        Community portal
```

```
<a accesskey="r" href="/wiki/Special:RecentChanges" title="A list of</pre>
recent changes in the wiki [r]">
        Recent changes
       </a>
      <a href="//en.wikipedia.org/wiki/Wikipedia:Contact us" title="How to
 contact Wikipedia">
       Contact page
       </a>
      </div>
   </div>
   <div aria-labelledby="p-tb-label" class="portal" id="p-tb" role="navigati</pre>
on">
    <h3 id="p-tb-label">
     Tools
    </h3>
    <div class="body">
     <u1>
      <a accesskey="j" href="/wiki/Special:WhatLinksHere/List_of_London_bor</pre>
oughs" title="List of all English Wikipedia pages containing links to this pa
ge [j]">
        What links here
       </a>
      <a accesskey="k" href="/wiki/Special:RecentChangesLinked/List of Lond</pre>
on_boroughs" rel="nofollow" title="Recent changes in pages linked from this p
age [k]">
        Related changes
       </a>
      id="t-upload">
       <a accesskey="u" href="/wiki/Wikipedia:File Upload Wizard" title="Upl</pre>
oad files [u]">
       Upload file
       </a>
      <a accesskey="q" href="/wiki/Special:SpecialPages" title="A list of a</pre>
11 special pages [q]">
        Special pages
       </a>
      <a href="/w/index.php?title=List of London boroughs&amp;oldid=8818998</pre>
61" title="Permanent link to this revision of the page">
        Permanent link
       </a>
      id="t-info">
       <a href="/w/index.php?title=List of London boroughs&amp;action=info"</pre>
```

```
title="More information about this page">
        Page information
       </a>
      <a accesskey="g" href="https://www.wikidata.org/wiki/Special:EntityPa</pre>
ge/Q6577004" title="Link to connected data repository item [g]">
        Wikidata item
       </a>
      id="t-cite">
       <a href="/w/index.php?title=Special:CiteThisPage&amp;page=List of Lon</pre>
don boroughs&id=881899861" title="Information on how to cite this page">
        Cite this page
       </a>
      </div>
   </div>
   <div aria-labelledby="p-coll-print export-label" class="portal" id="p-col</pre>
l-print_export" role="navigation">
    <h3 id="p-coll-print export-label">
     Print/export
    </h3>
    <div class="body">
     <l
      id="coll-create a book">
       <a href="/w/index.php?title=Special:Book&amp;bookcmd=book creator&am</pre>
p;referer=List+of+London+boroughs">
        Create a book
       </a>
      <a href="/w/index.php?title=Special:ElectronPdf&amp;page=List+of+Lond</pre>
on+boroughs&action=show-download-screen">
        Download as PDF
       </a>
      <a accesskey="p" href="/w/index.php?title=List of London boroughs&am</pre>
p;printable=yes" title="Printable version of this page [p]">
        Printable version
       </a>
      </div>
   </div>
   <div aria-labelledby="p-lang-label" class="portal" id="p-lang" role="navi</pre>
gation">
    <h3 id="p-lang-label">
     Languages
    </h3>
    <div class="body">
     <l
      <a class="interlanguage-link-target" href="https://ru.wikipedia.org/w</pre>
iki/%D0%A1%D0%BF%D0%B8%D1%81%D0%BE%D0%BA %D0%BB%D0%BE%D0%BD%D0%B4%D0%BE%D0%B
```

```
D%D1%81%D0%BA%D0%B8%D1%85 %D0%B1%D0%BE%D1%80%D0%BE" hreflang="ru" lang="ru" t
itle="Список лондонских боро - Russian">
        Русский
       </a>
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      <span class="wb-langlinks-edit wb-langlinks-link">
       <a class="wbc-editpage" href="https://www.wikidata.org/wiki/Special:E</pre>
ntityPage/06577004#sitelinks-wikipedia" title="Edit interlanguage links">
        Edit links
       </a>
      </span>
     </div>
    </div>
   </div>
  </div>
  </div>
 <div id="footer" role="contentinfo">
  This page was last edited on 5 February 2019, at 14:50
    <span class="anonymous-show">
     (UTC)
    </span>
   Text is available under the
    <a href="//en.wikipedia.org/wiki/Wikipedia:Text of Creative Commons Attr
ibution-ShareAlike_3.0_Unported_License" rel="license">
     Creative Commons Attribution-ShareAlike License
    <a href="//creativecommons.org/licenses/by-sa/3.0/" rel="license" style</pre>
="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
    . Wikipedia® is a registered trademark of the
    <a href="//www.wikimediafoundation.org/">
     Wikimedia Foundation, Inc.
    </a>
    , a non-profit organization.
   d="footer-places">
   <a class="extiw" href="https://foundation.wikimedia.org/wiki/Privacy pol</pre>
icy" title="wmf:Privacy policy">
     Privacy policy
    </a>
```

```
<a href="/wiki/Wikipedia:About" title="Wikipedia:About">
    About Wikipedia
    </a>
   <a href="/wiki/Wikipedia:General_disclaimer" title="Wikipedia:General di</p>
sclaimer">
    Disclaimers
    </a>
   <a href="//en.wikipedia.org/wiki/Wikipedia:Contact_us">
    Contact Wikipedia
    </a>
   <a href="https://www.mediawiki.org/wiki/Special:MyLanguage/How to contri</p>
bute">
    Developers
    </a>
   <a href="https://foundation.wikimedia.org/wiki/Cookie_statement">
    Cookie statement
    </a>
   <a class="noprint stopMobileRedirectToggle" href="//en.m.wikipedia.org/</pre>
w/index.php?title=List_of_London_boroughs&mobileaction=toggle_view_mobil
e">
    Mobile view
    </a>
   <a href="https://wikimediafoundation.org/">
     <img alt="Wikimedia Foundation" height="31" src="/static/images/wikimed</pre>
ia-button.png" srcset="/static/images/wikimedia-button-1.5x.png 1.5x, /stati
c/images/wikimedia-button-2x.png 2x" width="88"/>
    </a>
   <a href="https://www.mediawiki.org/">
    <img alt="Powered by MediaWiki" height="31" src="/static/images/powered</pre>
by mediawiki 88x31.png" srcset="/static/images/poweredby mediawiki 132x47.png
1.5x, /static/images/poweredby mediawiki 176x62.png 2x" width="88"/>
    </a>
   <div style="clear: both;"/>
 </div>
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  (RLQ=window.RLQ||[]).push(function(){mw.config.set({"wgPageParseReport":
{"limitreport":{"cputime":"0.640","walltime":"0.746","ppvisitednodes":{"valu
```

```
e":5144, "limit":1000000}, "ppgeneratednodes":{"value":0, "limit":1500000}, "post
expandincludesize":{"value":80158,"limit":2097152},"templateargumentsize":{"v
alue":991,"limit":2097152},"expansiondepth":{"value":12,"limit":40},"expensiv
efunctioncount":{"value":2,"limit":500},"unstrip-depth":{"value":1,"limit":2
0}, "unstrip-size": {"value": 10101, "limit": 5000000}, "entityaccesscount": {"valu
e":0,"limit":400},"timingprofile":["100.00% 479.860
                                                           1 -total"," 35.30%
             2 Template:Reflist"," 27.93% 134.044
169.410
                                                         2 Template:London Gaz
                             2 Template:Cite magazine", 22.40% 107.477
ette"," 26.32% 126.312
 33 Template:Coord"," 14.49% 69.544
                                          33 Template: English district contro
                          1 Template: Use dmy dates", 5.05%
1"," 9.94%
              47.719
                                         2 Template:DMCA"," 4.10%
Template:London"," 4.83%
                             23.168
2 Template:Dated_maintenance_category"]}, "scribunto":{"limitreport-timeusag
e":{"value":"0.183","limit":"10.000"},"limitreport-memusage":{"value":302539
9,"limit":52428800}},"cachereport":{"origin":"mw1241","timestamp":"2019090705
4827","ttl":2592000,"transientcontent":false}});});
  </script>
  <script type="application/ld+json">
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n boroughs", "url": "https:\/\/en.wikipedia.org\/wiki\/List of London borough
s", "sameAs": "http:\/\/www.wikidata.org\/entity\/Q6577004", "mainEntity": "htt
p:\/\/www.wikidata.org\/entity\/Q6577004","author":{"@type":"Organization","n
ame":"Contributors to Wikimedia projects"},"publisher":{"@type":"Organizatio
n", "name": "Wikimedia Foundation, Inc.", "logo": { "@type": "ImageObject", "url": "h
ttps:\/\/www.wikimedia.org\/static\/images\/wmf-hor-googpub.png"}},"datePubli
shed":"2010-07-20T07:28:35Z","dateModified":"2019-02-05T14:50:59Z","headlin
e":"Wikimedia list article"}
  </script>
  <script>
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e":96, "wgHostname": "mw1321"});});
  </script>
 </body>
</html>
```

```
In [42]: # extracting the raw table inside that webpage
  table = soup.find_all('table', {'class':'wikitable sortable'})
  print(table)
London_table = pd.read_html(str(table[0]), index_col = None, header= 0)[0]
```

10/5/2019

```
[
Borough
Inner
Status
Local authority
Political control
Headquarters
Area (sq mi)
>Population (2013 est)<sup class="reference" id="cite ref-1"><a href="#cit
e_note-1">[1]</a></sup>
Co-ordinates
<span style="background:#67BCD3"> Nr. in map </span>
<a href="/wiki/London_Borough_of_Barking_and_Dagenham" title="London Boro
ugh of Barking and Dagenham">Barking and Dagenham</a> <sup class="reference"
id="cite ref-2"><a href="#cite note-2">[note 1]</a></sup>
<a href="/wiki/Barking and Dagenham London Borough Council" title="Barkin
g and Dagenham London Borough Council">Barking and Dagenham London Borough Co
uncil</a>
<a href="/wiki/Labour_Party_(UK)" title="Labour Party (UK)">Labour</a>
<a class="new" href="/w/index.php?title=Barking Town Hall&amp;action=edit
&redlink=1" title="Barking Town Hall (page does not exist)">Town Hall</a</pre>
>, 1 Town Square
13.93
194,352
<span class="plainlinks nourlexpansion"><a class="external text" href="//
tools.wmflabs.org/geohack/geohack.php?pagename=List of London boroughs&pa
rams=51.5607 N 0.1557 E region:GB type:city&title=Barking+and+Dagenham"><
span class="geo-nondefault"><span class="geo-dms" title="Maps, aerial photos,</pre>
and other data for this location"><span class="latitude">51°33'39"N</span> <s
pan class="longitude">0°09'21"E</span></span></span><span class="geo-multi-pu
nct"> / </span><span class="geo-default"><span class="vcard"><span class="geo</pre>
-dec" title="Maps, aerial photos, and other data for this location">51.5607°N
0.1557°E</span><span style="display:none"> / <span class="geo">51.5607; 0.155
7</span></span><span style="display:none"> (<span class="fn org">Barking and
Dagenham</span>)</span></span></a></span></pan>
```

```
>25
<a href="/wiki/London Borough of Barnet" title="London Borough of Barne
t">Barnet</a>
<a href="/wiki/Barnet_London_Borough_Council" title="Barnet London Borough_Council" title="Barnet London
h Council">Barnet London Borough Council</a>
<a href="/wiki/Conservative_Party_(UK)" title="Conservative Party (UK)">C
onservative</a>
<a class="new" href="/w/index.php?title=North London Business Park&amp;ac
tion=edit&redlink=1" title="North London Business Park (page does not exi
st)">North London Business Park</a>, Oakleigh Road South
33.49
369,088
<span class="plainlinks nourlexpansion"><a class="external text" href="//
tools.wmflabs.org/geohack/geohack.php?pagename=List of London boroughs&pa
rams=51.6252 N 0.1517 W region:GB type:city&title=Barnet"><span class="ge
o-nondefault"><span class="geo-dms" title="Maps, aerial photos, and other dat
a for this location"><span class="latitude">51°37'31"N</span> <span class="lo
ngitude">0°09′06"W</span></span></span><span class="geo-multi-punct"> / </spa
n><span class="geo-default"><span class="vcard"><span class="geo-dec" title
="Maps, aerial photos, and other data for this location">51.6252°N 0.1517°W</
span><span style="display:none"> / <span class="geo">51.6252; -0.1517</span>
</span><span style="display:none"> (<span class="fn org">Barnet</span>)</span
></span></span></a></span>
31
<a href="/wiki/London Borough of Bexley" title="London Borough of Bexle
y">Bexley</a>
<a href="/wiki/Bexley London Borough Council" title="Bexley London
h Council">Bexley London Borough Council</a>
<a href="/wiki/Conservative Party (UK)" title="Conservative Party (UK)">C
onservative</a>
<a class="new" href="/w/index.php?title=Civic Offices&amp;action=edit&am
p;redlink=1" title="Civic Offices (page does not exist)">Civic Offices</a>, 2
Watling Street
```

```
23.38
236,687
<span class="plainlinks nourlexpansion"><a class="external text" href="//
tools.wmflabs.org/geohack/geohack.php?pagename=List of London boroughs&pa
rams=51.4549 N 0.1505 E region:GB type:city&title=Bexley"><span class="ge
o-nondefault"><span class="geo-dms" title="Maps, aerial photos, and other dat
a for this location"><span class="latitude">51°27'18"N</span> <span class="lo
ngitude">0°09'02"E</span></span></span><span class="geo-multi-punct"> / </spa
n><span class="geo-default"><span class="vcard"><span class="geo-dec" title
="Maps, aerial photos, and other data for this location">51.4549°N 0.1505°E</
span><span style="display:none"> / <span class="geo">51.4549; 0.1505</span></
span><span style="display:none"> (<span class="fn org">Bexley</span>)</span>
</span></span></a></span>
23
<a href="/wiki/London_Borough_of_Brent" title="London Borough of Brent">B
rent</a>
<a href="/wiki/Brent London Borough Council" title="Brent London Borough
Council">Brent London Borough Council</a>
<a href="/wiki/Labour_Party_(UK)" title="Labour Party (UK)">Labour</a>
<a href="/wiki/Brent Civic Centre" title="Brent Civic Centre">Brent Civic
Centre</a>, Engineers Way
16.70
317,264
<span class="plainlinks nourlexpansion"><a class="external text" href="//
tools.wmflabs.org/geohack/geohack.php?pagename=List of London boroughs&pa
rams=51.5588 N 0.2817 W region:GB type:city&title=Brent"><span class="geo
-nondefault"><span class="geo-dms" title="Maps, aerial photos, and other data
for this location"><span class="latitude">51°33'32"N</span> <span class="long
itude">0°16′54″W</span></span></span>class="geo-multi-punct"> / </span>
<span class="geo-default"><span class="vcard"><span class="geo-dec" title="Ma</pre>
ps, aerial photos, and other data for this location">51.5588°N 0.2817°W</span
><span style="display:none"> / <span class="geo">51.5588; -0.2817</span></spa
n><span style="display:none"> (<span class="fn org">Brent</span>)</span></spa</pre>
n></span></a></span>
>12
<a href="/wiki/London Borough of Bromley" title="London Borough of Bromle
y">Bromley</a>
```

```
<a href="/wiki/Bromley_London_Borough_Council" title="Bromley London Boro
ugh Council">Bromley London Borough Council</a>
<a href="/wiki/Conservative Party (UK)" title="Conservative Party (UK)">C
onservative</a>
<a class="new" href="/w/index.php?title=Bromley Civic Centre&amp;action=e
dit& redlink=1" title="Bromley Civic Centre (page does not exist)">Civic C
entre</a>, Stockwell Close
57.97
317,899
<span class="plainlinks nourlexpansion"><a class="external text" href="//
tools.wmflabs.org/geohack/geohack.php?pagename=List of London boroughs&pa
rams=51.4039 N 0.0198 E region:GB type:city&title=Bromley"><span class="g
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10/5/2019 Capstone Project

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320,524
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178,685
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27
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226,841
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Political control
Headquarters
Area<br/>(sq mi)
Population<br/>(2011 est)
Co-ordinates
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/ </span><span class="geo-default"><span class="vcard"><span class="geo-dec"
title="Maps, aerial photos, and other data for this location">51.5155°N 0.092
2°W</span><span style="display:none"> / <span class="geo">51.5155; -0.0922</s
pan></span><span style="display:none"> (<span class="fn org">City of London</
span>)</span></span></a></span>
1
]
```

London\_table.head() In [43]:

### Out[43]:

	Borough	Inner	Status	Local authority	Political control	Headquarters	Area (sq mi)	Population (2013 est) [1]	Co ordinates
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	North London Business Park, Oakleigh Road South	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	Labour	Brent Civic Centre, Engineers	16.70	317264	51°33′32″N 0°16′54″V
				Council		Way			51.5588°N 0.2817°V
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
4									<b>•</b>

```
In [44]:
         # 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','Politic
         al control',
                                   'Headquarters','Area (sq mi)','Population (2013 est)
         [1]','Co-ordinates','Nr. in map']
         # View the table
         London_table1
```

### Out[44]:

	Borough	Inner	Status	Local authority	Political control	Headquarters	Area (sq mi)	Populatio (2013 esi [1
C	City of London	([note 5]	Sui generis;City;Ceremonial county	Corporation of London;Inner Temple;Middle Temple	?	Guildhall	1.12	700

In [45]: # 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[45]:

	Borough	Inner	Status	Local authority	Political control	Headquarters	Area (sq mi)	Population (2013 est) [1]	Co ordinates
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	North London Business Park, Oakleigh Road South	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
4	Bromley	NaN	NaN	Bromley London Borough Council	Conservative	Civic Centre, Stockwell Close	57.97	317899	0.2817°V 51°24'14"N 0°01'11"E 51.4039°N 0.0198°E
4									<b>•</b>

# In [46]: London\_table.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 33 entries, 0 to 32
Data columns (total 10 columns):
```

Borough 33 non-null object 4 non-null object Inner 5 non-null object Status 33 non-null object Local authority Political control 33 non-null object 33 non-null object Headquarters Area (sq mi) 33 non-null float64 Population (2013 est)[1] 33 non-null int64 Co-ordinates 33 non-null object 33 non-null int64 Nr. in map

dtypes: float64(1), int64(2), object(7)

memory usage: 2.7+ KB

```
In [47]: 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[47]:

	Borough	Inner	Status	Local authority	Political control	Headquarters	Area (sq mi)	Population (2013 est) [1]	Co ordinates
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	North London Business Park, Oakleigh Road South	33.49	369088	51°37′31″N 0°09′06″V 51.6252°N 0.1517°V
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
4									<b>•</b>

```
In [48]: # Shape of the data frame
London_table.shape
```

Out[48]: (33, 10)

```
In [52]: set(CrimeData.borough) - set(London_table.Borough)
```

Out[52]: {'Barking and Dagenham', 'Greenwich', 'Hammersmith and Fulham'}

In [55]: Ld\_crime = pd.merge(LondonCrimeData, London\_table, on='Borough')
Ld\_crime.head(10)

Out[55]:

	Borough	Bulgary	Criminal Damage	Drugs	Other Notifiable Offences	Robbery	Theft and handling	Violence against people	Total	Inner	
0	Barnet	3402	2183	906	499	464	9731	7499	24684	NaN	
1	Bexley	1123	1673	646	294	209	4392	4503	12840	NaN	
2	Brent	2631	2280	2096	536	919	9026	9205	26693	NaN	
3	Bromley	2214	2202	728	417	369	7584	6650	20164	NaN	
4	Camden	2652	1935	1493	490	899	14088	7626	29183	NaN	
5	City of London	2	2	10	6	4	129	25	178	(0	ge
6	Croydon	2738	3219	1367	718	1139	9229	10302	28712	NaN	
7	Ealing	2492	2562	1355	613	669	10040	9396	27127	NaN	
8	Enfield	2541	2136	1063	492	807	8037	7409	22485	NaN	
9	Hackney	2719	1981	1353	499	1030	11851	8832	28265	NaN	
4											•

```
In [58]: set(CrimeData.borough) - set(Ld_crime.Borough)
Out[58]: {'Barking and Dagenham', 'Greenwich', 'Hammersmith and Fulham'}
In [59]:
         list(Ld_crime)
Out[59]: ['Borough',
           'Bulgary',
           'Criminal Damage',
           'Drugs',
           'Other Notifiable Offences',
           'Robbery',
           'Theft and handling',
           ' Violence against people',
           'Total',
           'Inner',
           'Status',
           'Local authority',
           'Political control',
           'Headquarters',
           'Area (sq mi)',
           'Population (2013 est)[1]',
           'Co-ordinates',
           'Nr. in map']
```

```
columnsTitles = ['Borough','Local authority','Political control','Headquarter
In [60]:
         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[60]:

	Borough	Local authority	Political control	Headquarters	Area (sq mi)	Population (2013 est) [1]	Co- ordinates	Burglary	Crim Dam
0	Barnet	Barnet London Borough Council	Conservative	North London Business Park, Oakleigh Road South	33.49	369088	51°37′31″N 0°09′06″W / 51.6252°N 0.1517°W	NaN	2
1	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	NaN	1
2	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	NaN	2
3	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	NaN	2
4	Camden	Camden London Borough Council	Labour	Camden Town Hall, Judd Street	8.40	229719	51°31'44"N 0°07'32"W / 51.5290°N 0.1255°W	NaN	1
4									<b>&gt;</b>

In [62]: LondonCrimeData.describe()

Out[62]:

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

```
In [63]: 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
```

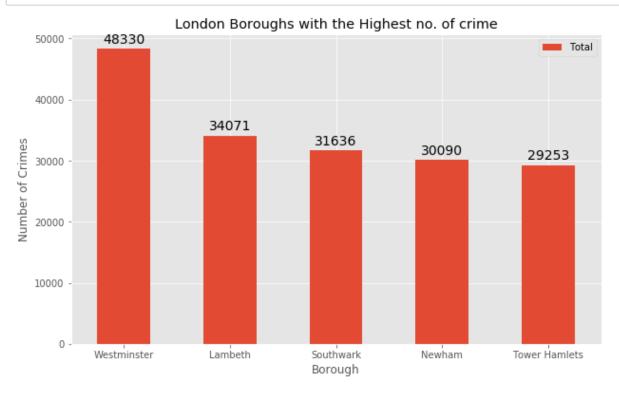
Matplotlib version: 3.0.3

```
In [64]: Ld_crime.columns = list(map(str, Ld_crime.columns))
```

# Out[65]:

	Borough	Local authority	Political control	Headquarters	Area (sq mi)	Population (2013 est) [1]	Co- ordinates	Burglary
29	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	NaN
18	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	NaN
24	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	NaN
21	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	NaN
26	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	NaN
4								•

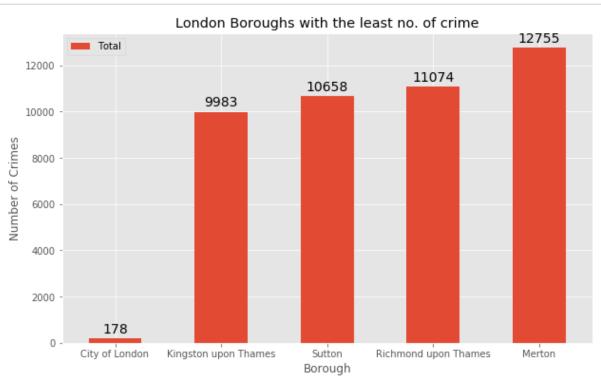
```
In [66]: df tt = df top5[['Borough','Total']]
         df_tt.set_index('Borough',inplace = True)
         ax = df_tt.plot(kind='bar', figsize=(10, 6), rot=0)
         ax.set ylabel('Number of Crimes') # add to x-label to the plot
         ax.set xlabel('Borough') # add y-label to the plot
         ax.set title('London Boroughs with the Highest no. of crime') # add title to t
         he 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()
```



# Out[67]:

	Borough	Local authority	Political control	Headquarters	Area (sq mi)	Population (2013 est) [1]	Co- ordinates	Burgl
5	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	٨
17	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	٨
25	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	٨
23	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	٨
20	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	٨
4								•

```
In [68]: 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()
```

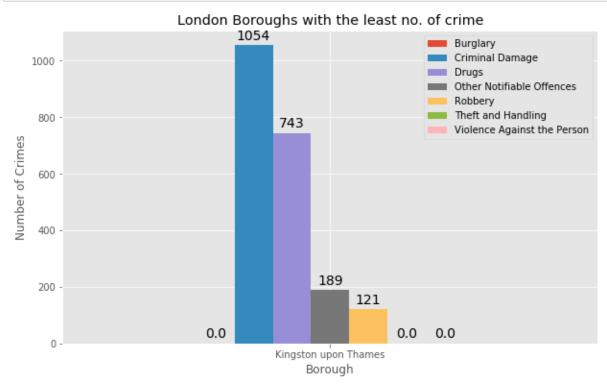


```
In [69]: df_col = df_bot5[df_bot5['Borough'] == 'City of London']
    df_col = df_col[['Borough','Total','Area (sq mi)','Population (2013 est)[1]']]
    df_col
```

Out[69]:

	Borough	Iotal	Area (sq mı)	Population (2013 est)[1]
5	City of London	178	1.12	7000

```
In [70]: df bc1 = df bot5[df bot5['Borough'] == 'Kingston upon Thames']
         df_bc = df_bc1[['Borough','Burglary','Criminal Damage','Drugs','Other Notifiab
         le 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()
```



```
Neighborhood = ['Berrylands','Canbury','Chessington','Coombe','Hook','Kingston
In [71]:
         upon Thames',
         'Kingston Vale', 'Malden Rushett', 'Motspur Park', 'New Malden', 'Norbiton',
         'Old Malden', 'Seething Wells', 'Surbiton', 'Tolworth']
         Borough = ['Kingston upon Thames', 'Kingston upon Thames', 'Kingston upon Thame
         s', 'Kingston upon Thames',
                   'Kingston upon Thames', 'Kingston upon Thames', 'Kingston upon Thames'
         ,'Kingston upon Thames',
                   'Kingston upon Thames', 'Kingston upon Thames', 'Kingston upon Thames'
         ,'Kingston upon Thames',
                   'Kingston upon Thames', 'Kingston upon Thames', 'Kingston upon Thames'
         ]
         df neigh = {'Neighborhood': Neighborhood, 'Borough':Borough, 'Latitude': Latitud
         e,'Longitude':Longitude}
         kut neig = pd.DataFrame(data=df neigh, columns=['Neighborhood', 'Borough', 'La
         titude', 'Longitude'], index=None)
         kut neig
```

#### Out[71]:

	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		

```
In [72]: 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, 51.38177625, 51. 43185, 51.3410523, 51.3909852, 51.4053347, 51.4099994, 51.382484, 51.3926421, 51.3937557, 51.3788758] [-0.2848024, -0.305552805049262, -0.2986216, -0.26539 85, -0.3071453, -0.276987233701663, -0.2581379, -0.3190757, -0.2488979, -0.26 34066, -0.2873963, -0.2590897, -0.3143662, -0.3033105, -0.2828604]

```
In [73]: df_neigh = {'Neighborhood': Neighborhood,'Borough':Borough,'Latitude': Latitud
    e,'Longitude':Longitude}
    kut_neig = pd.DataFrame(data=df_neigh, columns=['Neighborhood', 'Borough', 'La
    titude', 'Longitude'], index=None)
    kut_neig
```

#### Out[73]:

	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	51.381776	-0.276987
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

10/5/2019 Capstone Project

```
In [74]: address = 'Berrylands, London, United Kingdom'

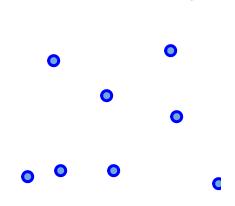
geolocator = Nominatim(user_agent="ld_explorer")
    location = geolocator.geocode(address)
    latitude = location.latitude
    longitude = location.longitude
    print('The geograpical coordinate of Berrylands, London are {}, {}.'.format(latitude, longitude))
```

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

```
In [76]:
         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['Lon
         gitude'], 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[76]:





Leaflet (htp://leafletjs.com)

```
In [77]: 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={}&clie
         nt 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)
```

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

```
In [79]: print(kut_venues.shape)
kut_venues.head()
```

(155, 7)

## Out[79]:

	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

10/5/2019 Capstone Project

In [80]: kut\_venues.groupby('Neighborhood').count()

Out[80]:

	Neighborhood Latitude	Neighborhood Longitude	Venu	ue	Venue Latitude	Venue Longitude	Venue Category
Neighborhood							
Berrylands	3	;	3	3	3	3	3
Canbury	14	1	1 .	14	14	14	14
Hook	4		1	4	4	4	4
Kingston Vale	4		1	4	4	4	4
Kingston upon Thames	13	1	3	13	13	13	13
Malden Rushett	4		1	4	4	4	4
Motspur Park	4		1	4	4	4	4
New Malden	9	!	9	9	9	9	9
Norbiton	28	2	3 2	28	28	28	28
Old Malden	3	:	3	3	3	3	3
Seething Wells	21	2	1 2	21	21	21	21
Surbiton	30	3	) ;	30	30	30	30
Tolworth	18	1	3	18	18	18	18

In [81]: print('There are {} uniques categories.'.format(len(kut\_venues['Venue Categor
y'].unique())))

There are 54 uniques categories.

```
In [84]: # 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[84]:

	Neighborhood	Athletics & Sports	Auto Garage	Bakery	Bar	Bistro	Bowling Alley	Breakfast Spot	Bus Stop	Café	 S
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	1	0	
3	Canbury	0	0	0	0	0	0	0	0	0	
4	Canbury	0	0	0	0	0	0	0	0	0	

5 rows × 55 columns

localhost:8888/nbconvert/html/Capstone Project.ipynb?download=false

In [85]: kut\_grouped = kut\_onehot.groupby('Neighborhood').mean().reset\_index()
kut\_grouped

# Out[85]:

	Neighborhood	Athletics & Sports	Auto Garage	Bakery	Bar	Bistro	Bowling Alley	Breakfast Spot	E Si
0	Berrylands	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.3333
1	Canbury	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000
2	Hook	0.000000	0.000000	0.250000	0.000000	0.000000	0.000000	0.000000	0.0000
3	Kingston Vale	0.000000	0.000000	0.000000	0.250000	0.000000	0.000000	0.000000	0.0000
4	Kingston upon Thames	0.000000	0.000000	0.000000	0.000000	0.000000	0.076923	0.000000	0.0769
5	Malden Rushett	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000
6	Motspur Park	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000
7	New Malden	0.000000	0.000000	0.000000	0.111111	0.000000	0.000000	0.000000	0.0000
8	Norbiton	0.035714	0.035714	0.000000	0.000000	0.000000	0.000000	0.035714	0.0000
9	Old Malden	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000
10	Seething Wells	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.0000
11	Surbiton	0.000000	0.000000	0.033333	0.033333	0.033333	0.000000	0.033333	0.0000
12	Tolworth	0.000000	0.000000	0.000000	0.000000	0.000000	0.055556	0.000000	0.055

13 rows × 55 columns

In [86]: kut\_grouped.shape

Out[86]: (13, 55)

```
In [87]: 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
   Gym / Fitness Center
                         0.33
1
               Bus Stop
                         0.33
2
                   Park
                        0.33
3
                    Pub
                         0.00
4
                  Hotel 0.00
----Canbury----
               venue freq
0
                 Pub 0.29
1
                Café
                     0.07
2
               Hotel
                      0.07
3
  Indian Restaurant
                      0.07
4
                Park
                     0.07
----Hook----
                venue freq
               Bakery 0.25
0
1
   Indian Restaurant 0.25
2
   Convenience Store 0.25
3
   Fish & Chips Shop 0.25
  Athletics & Sports 0.00
----Kingston Vale----
                venue freq
                  Bar 0.25
0
1
        Grocery Store
                       0.25
2
   Italian Restaurant
         Soccer Field
                       0.25
  Athletics & Sports 0.00
----Kingston upon Thames----
             venue freq
0
    Grocery Store 0.23
1
          Pharmacy 0.15
2
   Sandwich Place 0.08
3
   Thai Restaurant 0.08
        Restaurant 0.08
----Malden Rushett----
               venue freq
0
                 Pub 0.25
1
       Garden Center
                     0.25
2
   Convenience Store
                     0.25
3
          Restaurant 0.25
4
               Plaza 0.00
----Motspur Park----
          venue freq
            Gym 0.25
```

```
Soccer Field 0.25
1
2
           Park 0.25
3
     Restaurant 0.25
4
       Platform 0.00
----New Malden----
               venue freq
   Indian Restaurant
                      0.11
1
                 Bar
                      0.11
2
                      0.11
                 Gym
3
    Sushi Restaurant
                      0.11
4
         Supermarket
                      0.11
----Norbiton----
                venue
                       freq
    Indian Restaurant 0.11
1
   Italian Restaurant 0.07
2
             Platform 0.07
3
                 Food
                       0.07
4
                  Pub 0.07
----Old Malden----
              venue freq
      Train Station 0.33
0
1
                     0.33
               Food
2
                Pub
                     0.33
3
           Tea Room
                     0.00
  Sushi Restaurant
                     0.00
----Seething Wells----
               venue freq
  Indian Restaurant 0.19
1
         Coffee Shop
                      0.14
2
                 Pub
                      0.10
3
                Café
                      0.10
4
          Restaurant
                      0.05
----Surbiton----
                  venue
                        freq
0
            Coffee Shop
                         0.20
1
                    Pub
                         0.13
2
          Grocery Store
                         0.07
3
   Gym / Fitness Center
                         0.03
         Farmers Market 0.03
----Tolworth----
                venue
                       freq
        Grocery Store
0
                       0.17
1
             Pharmacy
                       0.11
2
        Train Station 0.06
3
          Coffee Shop 0.06
```

4 Italian Restaurant 0.06

```
In [88]:
         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]
In [89]: | 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[89]:

	Neighborhood	Common Common Commo		3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue
0	Berrylands	Gym / Fitness Center	Bus Stop	Park	Train Station	Dry Cleaner	Gastropub	Garden Center
1	Canbury	Pub	Plaza	Park	Supermarket	Spa	Fish & Chips Shop	Shop & Service
2	Hook	Bakery	Indian Restaurant	Fish & Chips Shop	Convenience Store	Train Station	Dry Cleaner	Gastropub
3	Kingston Vale	Bar	Soccer Field	Italian Restaurant	Grocery Store	Train Station	Dry Cleaner	Gastropub
4	Kingston upon Thames	Grocery Store	Pharmacy	Pizza Place	Bus Stop	Coffee Shop	Restaurant	Discount Store
4								<b>&gt;</b>

```
In [90]: 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[90]: array([0, 2, 2, 1, 1, 2, 3, 2, 2, 4])

```
In [91]: 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 n
    eighborhood
    kut_merged = kut_merged.join(neighborhoods_venues_sorted.set_index('Neighborho
    od'), on='Neighborhood')

kut_merged.head()
```

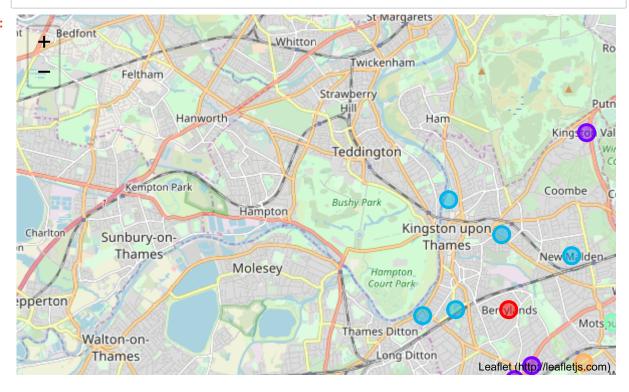
### Out[91]:

	Neighborhood	Borough	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4t Cc
0	Berrylands	Kingston upon Thames	51.393781	-0.284802	0.0	Gym / Fitness Center	Bus Stop	Park	Train
1	Canbury	Kingston upon Thames	51.417499	-0.305553	2.0	Pub	Plaza	Park	Supei
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	Bakery	Indian Restaurant	Fish & Chips Shop	Conve
4									•

```
In [92]: kut_merged.info()
         <class 'pandas.core.frame.DataFrame'>
         RangeIndex: 15 entries, 0 to 14
         Data columns (total 15 columns):
         Neighborhood
                                    15 non-null object
                                    15 non-null object
         Borough
         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
                                    13 non-null object
         3rd Most Common Venue
         4th Most Common Venue
                                    13 non-null object
                                    13 non-null object
         5th Most Common Venue
         6th Most Common Venue
                                    13 non-null object
         7th Most Common Venue
                                    13 non-null object
         8th Most Common Venue
                                    13 non-null object
                                    13 non-null object
         9th Most Common Venue
         10th Most Common Venue
                                    13 non-null object
         dtypes: float64(3), object(12)
         memory usage: 1.8+ KB
In [93]:
         kut merged.dropna(inplace = True)
In [94]:
         kut_merged['Cluster Labels'] = kut_merged['Cluster Labels'].astype(int)
In [95]: kut merged.info()
         <class 'pandas.core.frame.DataFrame'>
         Int64Index: 13 entries, 0 to 14
         Data columns (total 15 columns):
         Neighborhood
                                    13 non-null object
                                    13 non-null object
         Borough
         Latitude
                                    13 non-null float64
         Longitude
                                    13 non-null float64
                                    13 non-null int32
         Cluster Labels
         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
                                    13 non-null object
         7th Most Common Venue
         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), int32(1), object(12)
         memory usage: 1.6+ KB
```

```
In [96]:
         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['Longitud'])
         e'], kut_merged['Neighborhood'], kut_merged['Cluster Labels']):
             label = folium.Popup(str(poi) + ' Cluster ' + str(cluster), parse html=Tru
         e)
             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[96]:



10/5/2019 Capstone Project

In [97]: kut\_merged[kut\_merged['Cluster Labels'] == 0]

# Out[97]:

		Neighborhood	Borough	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	
	0	Berrylands	Kingston upon Thames	51.393781	-0.284802	0	Gym / Fitness Center	Bus Stop	Park	Tra Stati
	4									•
In [98]:	kut	_merged[kut_	_merged['	Cluster I	_abels'] =	= 1]				

# Out[98]:

	Neighborhood	Borough	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Con \
5	Kingston upon Thames	Kingston upon Thames	51.381776	-0.276987	1	Grocery Store	Pharmacy	Pizza Place	Bus
6	Kingston Vale	Kingston upon Thames	51.431850	-0.258138	1	Bar	Soccer Field	Italian Restaurant	Gr
14	Tolworth	Kingston upon Thames	51.378876	-0.282860	1	Grocery Store	Pharmacy	Train Station	Bus
4									•

10/5/2019 Capstone Project

In [99]: kut\_merged[kut\_merged['Cluster Labels'] == 2]

Out[99]:

	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	Plaza	Park
4	Hook	Kingston upon Thames	51.367898	-0.307145	2	Bakery	Indian Restaurant	Fish & Chips Shop
7	Malden Rushett	Kingston upon Thames	51.341052	-0.319076	2	Convenience Store	Garden Center	Restaurant
9	New Malden	Kingston upon Thames	51.405335	-0.263407	2	Gym	Bar	Indian Restaurant
10	Norbiton	Kingston upon Thames	51.409999	-0.287396	2	Indian Restaurant	Pub	Platform
12	Seething Wells	Kingston upon Thames	51.392642	-0.314366	2	Indian Restaurant	Coffee Shop	Café
13	Surbiton	Kingston upon Thames	51.393756	-0.303310	2	Coffee Shop	Pub	Grocery Store
4								•

In [100]: kut\_merged[kut\_merged['Cluster Labels'] == 3]

Out[100]:

	Neighborhood	Borough	Latitude	Longitude	Cluster Labels	1st Most Common Venue	Most Common Venue	3rd Most Common Venue	4th M Comn Ve
8	Motspur Park	Kingston upon Thames	51.390985	-0.248898	3	Gym	Soccer Field	Restaurant	F

In [101]: kut\_merged[kut\_merged['Cluster Labels'] == 4]

Out[101]:

	Neighborhood	Borough	Latitude	Longitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th M Comn Vei
11	Old Malden	Kingston upon Thames	51.382484	-0.25909	4	Train Station	Food	Pub	D Bod
4									<b>&gt;</b>

# **Results and Discussion**

When we look at the clusters, Cluster 4 neighborhood might be prefered by people who choose to stay closer to train station, Food places. However, when someone prefers Indian Restaurent, he/she may prefer to choose the neighborhood of cluster 2 (Kingston upon Thames). A lot can be derived from the above listing based on preferences and choices

# Conculsion

This report would help people make well informed decisions based on understading the geography and the neighborhood of borough. It would also save a significant amount of time for people searching for pressing answers.