Eat Out to Help Out Guide (Created by Simray, 4 Aug 2020)

CONTENTS

1) Source of data

The data we will use is retrieved from the UK government's official website:

https://www.tax.service.gov.uk/eat-out-to-help-out/find-a-restaurant

The website allows users to input their postcode. It will return the list of restaurants participating in the Eat Out to Help Out scheme within 5 miles of the specified postcode.

In this example, we will be using the postcode "L39 4QP" for demonstration purposes.

Results obtained shows 80 restaurants within 5 miles of L39 4QP (Figure 1).

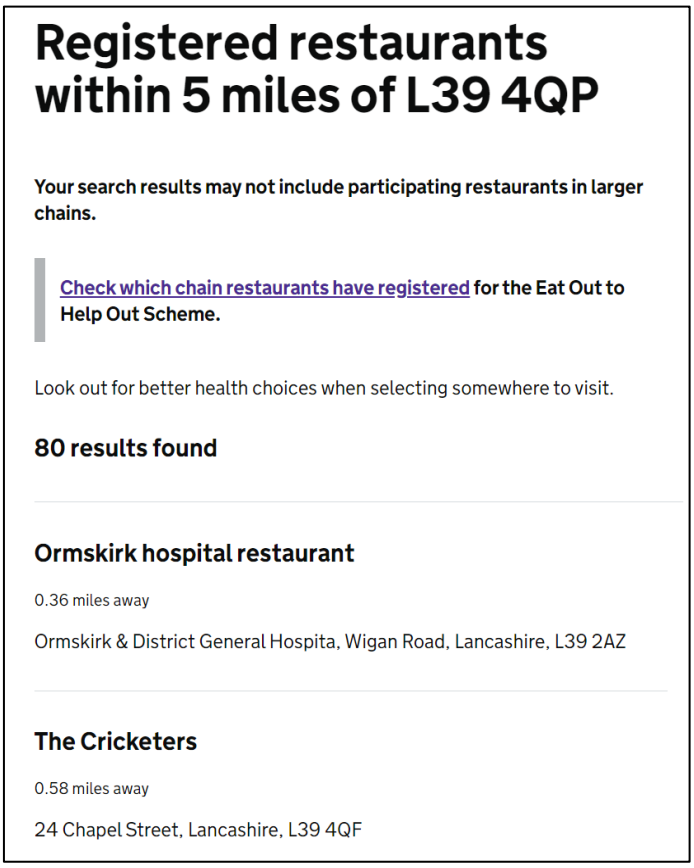


Figure 1: Participating restaurants within 5 miles of the specified postcode.

2) Extracting data from the site to .csv format

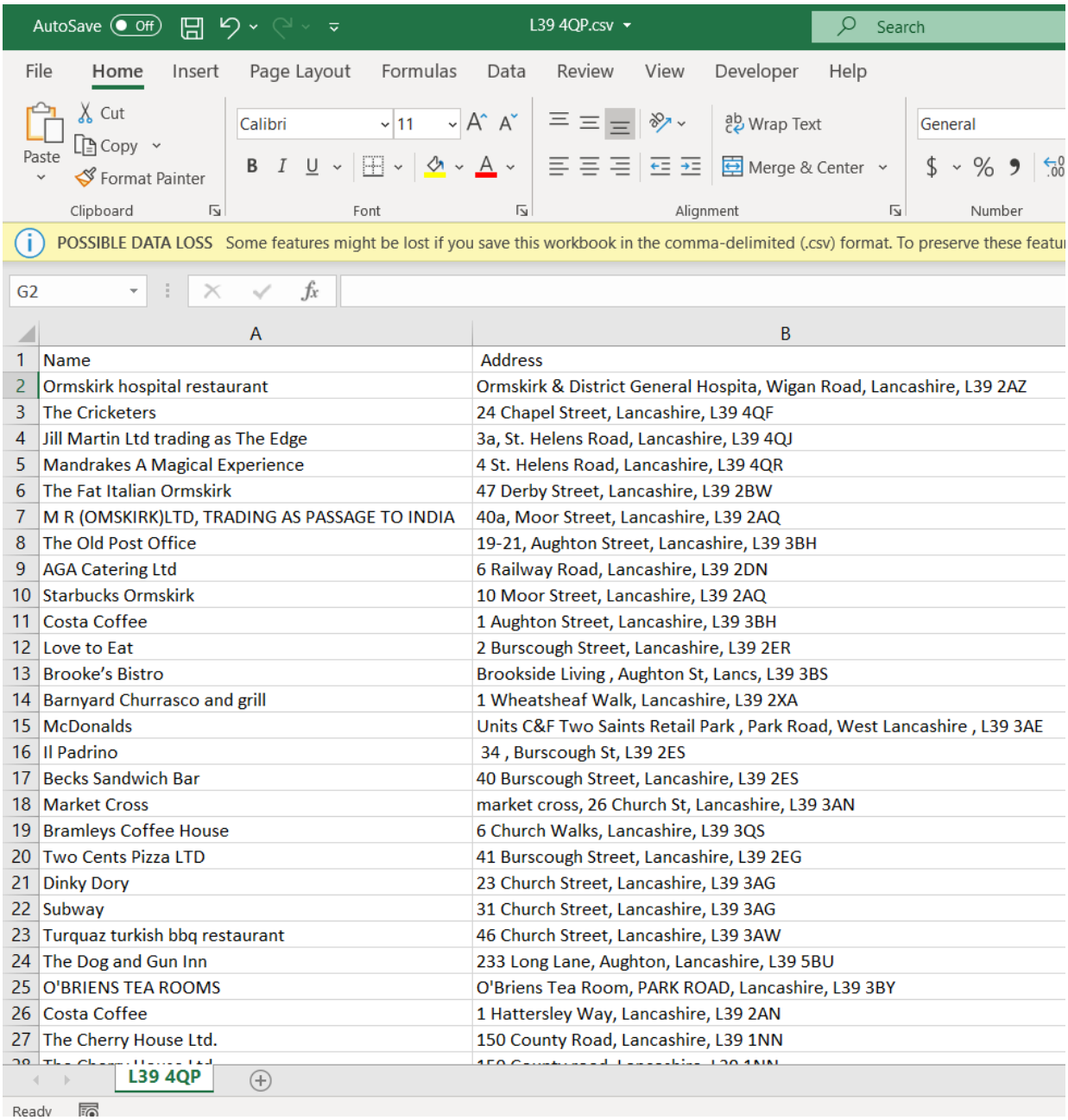
Now, we will have to use the code from the code file "EatOutToHelpOut.py" located in the repo and run it through a python platform to extract and parse the "Name" and "Address" of the participating eateries into a .csv file. All you need to do is to run it and input your postcode.

Note: You will have to do a pip install of the modules (csv, requests, html) that are required if you do not have them!

```
import requests
import html
import csv

# The script will ask you to input your post code.
print("Please enter your post code.")
print("Please note that spacing is required.")
print("E.g. 'L39 4QP'\n")
print('Enter your post code:')
postcode = input()
postcode = str(postcode)

# This is to create a .csv file in the script's directory, with the file
name being the post code specified.
f = open(postcode + '.csv', 'w', newline='')
csvwriter = csv.writer(f, delimiter=",")
f.write("Name, Address\n")

# The list of registered restaurants within 5 miles of the specified
postcode will be obtained from the government website.
postcode = postcode.split(' ')
url = 'https://www.tax.service.gov.uk/eat-out-to-help-out/find-a-
restaurant/results?postcode=' + \
    postcode[0] + '+' + postcode[1]

r = requests.get(url)
r = r.text

# The script will extract the site's data to obtain the restaurant's name
and its corresponding address.
for line in r.splitlines():
    if '<h3 class="govuk-heading-m"' in line:
        y = line.split('>')[1]
        y = y.split('<')[0]
        y = html.unescape(y)
    if 'govuk-results-address govuk-body' in line:
        x = line.split('>')[1]
        x = x.split('<')[0]
        x = html.unescape(x)
        result = (y, x)
        print(result)
        csvwriter.writerow(result)
print('\n')
print(str(postcode[0] + ' '+postcode[1]) +
```

```
        '.csv has been created on your computer. You may now import the .csv
file into google maps.')
print('If your .csv file is empty, please check if there are indeed
participating restaurants in your area.')
f.close()
```

I usually locate the newly-created .csv file (Figure 2) by just pressing my Windows key and searching for the document "L39 4QP.csv", before moving it to somewhere accessible.



	A	B
1	Name	Address
2	Ormskirk hospital restaurant	Ormskirk & District General Hospita, Wigan Road, Lancashire, L39 2AZ
3	The Cricketers	24 Chapel Street, Lancashire, L39 4QF
4	Jill Martin Ltd trading as The Edge	3a, St. Helens Road, Lancashire, L39 4QJ
5	Mandrakes A Magical Experience	4 St. Helens Road, Lancashire, L39 4QR
6	The Fat Italian Ormskirk	47 Derby Street, Lancashire, L39 2BW
7	M R (OMSKIRK)LTD, TRADING AS PASSAGE TO INDIA	40a, Moor Street, Lancashire, L39 2AQ
8	The Old Post Office	19-21, Aughton Street, Lancashire, L39 3BH
9	AGA Catering Ltd	6 Railway Road, Lancashire, L39 2DN
10	Starbucks Ormskirk	10 Moor Street, Lancashire, L39 2AQ
11	Costa Coffee	1 Aughton Street, Lancashire, L39 3BH
12	Love to Eat	2 Burscough Street, Lancashire, L39 2ER
13	Brooke's Bistro	Brookside Living , Aughton St, Lancs, L39 3BS
14	Barnyard Churrasco and grill	1 Wheatsheaf Walk, Lancashire, L39 2XA
15	McDonalds	Units C&F Two Saints Retail Park , Park Road, West Lancashire , L39 3AE
16	Il Padrino	34 , Burscough St, L39 2ES
17	Becks Sandwich Bar	40 Burscough Street, Lancashire, L39 2ES
18	Market Cross	market cross, 26 Church St, Lancashire, L39 3AN
19	Bramleys Coffee House	6 Church Walks, Lancashire, L39 3QS
20	Two Cents Pizza LTD	41 Burscough Street, Lancashire, L39 2EG
21	Dinky Dory	23 Church Street, Lancashire, L39 3AG
22	Subway	31 Church Street, Lancashire, L39 3AG
23	Turquaz turkish bbq restaurant	46 Church Street, Lancashire, L39 3AW
24	The Dog and Gun Inn	233 Long Lane, Aughton, Lancashire, L39 5BU
25	O'BRIENS TEA ROOMS	O'Briens Tea Room, PARK ROAD, Lancashire, L39 3BY
26	Costa Coffee	1 Hattersley Way, Lancashire, L39 2AN
27	The Cherry House Ltd.	150 County Road, Lancashire, L39 1NN

Figure 2: .csv file containing "Name" and "Address" of the participating restaurants

3) Creating a personal Google Map

a) Go to Google Maps, select the "Menu" tab on the top left, select "Your places", go to the "MAPS" tab and select "CREATE MAP"

b) Click on "Import", "Select a file from your device", find your .csv file and open it

c) For "Choose columns to position your placemarks", select "Address" and click on "Continue"

d) For "Choose a column to title your markers", select "Name" and click on "Finish". Now it will show all the places that was listed on the website (Figure 3)!

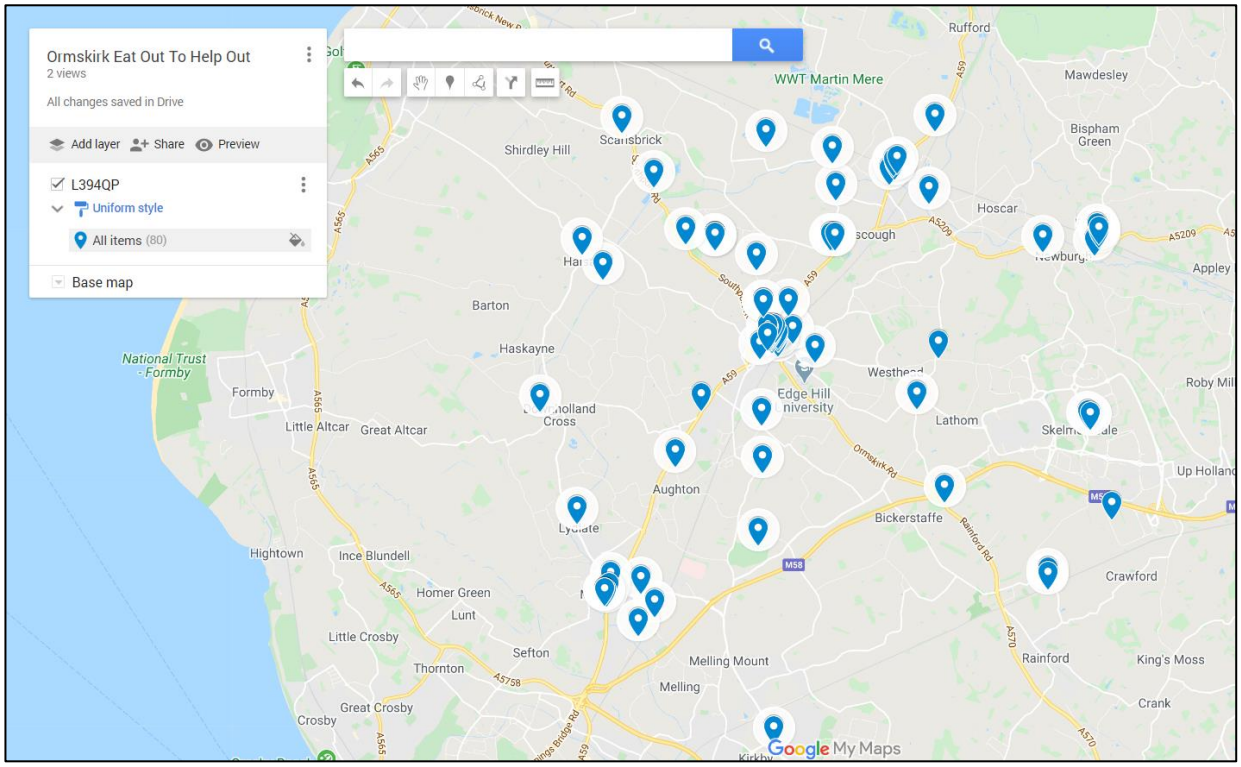


Figure 3: Visualisation of participating restaurants on Google Maps

4) Troubleshooting problems

There were a few situations where I was helping my friend load the places near them and there were some that were not loaded. This can be rectified manually and it is usually around 0-3 incidences per 100 samples.

Unfortunately, we have not found a way to link these destinations with the actual Google Maps business page. We will need to take a look at this and perhaps if someone in the community knows how to solve this issue that would be great!

For now, what we have is a code that can visualize the restaurants participating in the scheme!