

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

### **CONTENTS**

1) Source of data.....	2
2) Extracting data from the site to .csv format .....	3
3) Creating a personal Google Map .....	6
4) Troubleshooting problems.....	7

# 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).

## Registered restaurants within 5 miles of L39 4QP

Your search results may not include participating restaurants in larger chains.

[Check which chain restaurants have registered](#) for the Eat Out to Help Out Scheme.

Look out for better health choices when selecting somewhere to visit.

**80 results found**

---

**Ormskirk hospital restaurant**

0.36 miles away

Ormskirk & District General Hospita, Wigan Road, Lancashire, L39 2AZ

---

**The Cricketers**

0.58 miles away

24 Chapel Street, Lancashire, L39 4QF

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()
```

After running the code, simply input the post code (Figure 2) that you would like to check the participating restaurants and a .csv file will be automatically created and saved. You will have to locate it in your computer.

```
Please enter your post code.  
Please note that spacing is required.  
E.g. 'L39 4QP'  
  
Enter your post code:
```

Figure 2: Output for entering post code

I usually locate the newly-created .csv file (Figure 3) by just pressing my Windows key and searching for the document "L39 4QP.csv", before moving it to somewhere accessible.

AutoSave 

Off

L39 4QP.csv

Search

FileHomeInsertPage LayoutFormulasDataReviewViewDeveloperHelp

Paste

Cut

Copy

Format Painter

Clipboard

Calibri

11

A<sup>+</sup>

A<sup>-</sup>

**B**

*I*

U

Font

Alignment

Wrap Text

Merge & Center

Number

General

\$

%

POSSIBLE DATA LOSS

Some features might be lost if you save this workbook in the comma-delimited (.csv) format. To preserve these features, use the .xlsx format.

G2

A

B

1

Name

Address

2

Ormskirk hospital restaurant

Ormskirk & District General Hospital, 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

28

The Cherry House Ltd.

150 County Road, Lancashire, L39 1NN

L39 4QP

Ready

Figure 3: .csv file containing “Name” and “Address” of the participating restaurants

### 3) Creating a personal Google Map

- a) Go to [Google Maps](https://www.google.com/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 4)!

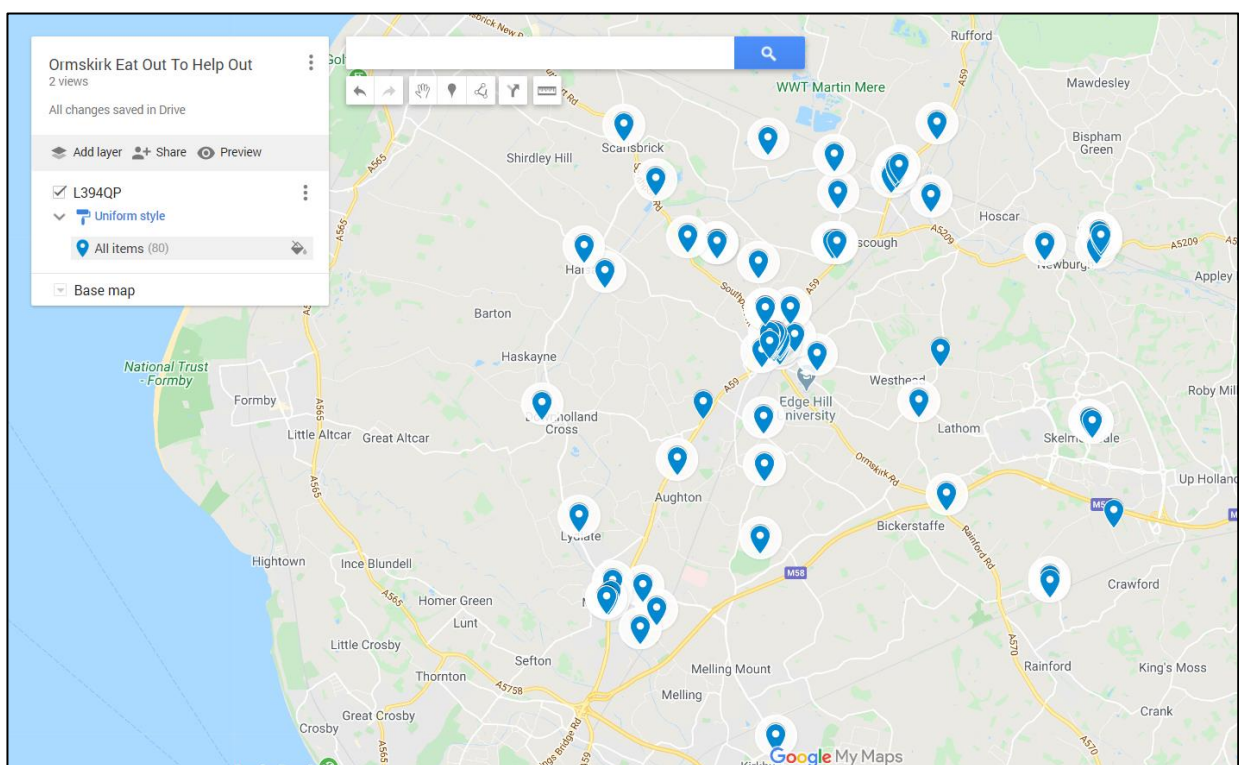


Figure 3: Visualisation of participating restaurants on Google Maps

## 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!