1. Improve data extract scripts:
2. Store source code of Fish & Chips shops’ websites as file and add file references into the result of the first script (id, coordination, file reference).
3. Fix bugs which caused by regular expression.
4. Add shops’ id into the results of the filter script (id, coordination, word)
5. Improve filter processes, filter most of ‘HTML’ tags and sambals. This procedure reduces the number of results of the filter script from one million rows to two hundred thousand data.
6. Improving the reduce script which can add coordination of different shops in the same city and write the result into csv file (word, coordination).

Problems:

The Numbers can just check 65536 rows of data which caused an illusion that my results were wrong.

1. Select basemap as the plot tool:
2. Install basemap
3. Draw map

Problems and solutions:

1. Fail to install:
2. Need to install GEOS, proj, matplotlib and pillows.
3. Install by setup.py directly will fail (conflict of some packages). Need to configure GEOS first: export the GEOS dir and do make command in the GEOS files and then install.
4. Cannot load the module of mpl\_toolkits.basemap: Configure the .path file of in the Python library. Add the local library path which has basemap into this file.
5. Unable to see the plot result of the map: The plot window will close suddenly after the code has been executed.
6. Draw map:
7. Learning how to use the basemap.
8. Have drawn UK map: Use google map to find longitude of lower left hand and upper right hand corner of the selected map domain, latitude of lower left hand and upper right hand corner of the selected map domain and the central point of the UK.
9. Have not plot points on the map.

Problems:

1. How to improve the resolution of the drawn map: Use drawcoastlines() function of the basemap.
2. The form of ploting points: there are many words whether need a way to select words which need to plot.
3. Create a github repository and upload the code into the repository.
4. Update wiki.