

1. Introduction

Since I work in The Hague, I would like to reduce my travel time and move to The Hague. As I am not familiar with all Neighborhoods, my main problem/question is:

“Where to find a family friendly Neighborhood to settle and buy a new house”.

The Hague is also known as the International City of Peace and Justice. Therefore, crime rates are an important measurement for me. Because of that the following data will be needed:

1. Lowest crime rates in the Neighborhood
2. Number of venues within 1500 meters of the Neighborhood

2. Data

2.1 Sources

To extract the data needed several sources will be used. The general data of The Hague's Postal codes, District, Neighborhood, Borough will be imported from this URL:

https://ckan.dataplatform.nl/dataset/ed3fbd54-2e8b-4c7a-a9ab-5135db6a60f0/resource/7b8aeab2-ec73-4bdd-b0e1-7f892dd37b9b/download/postcode_bws_20171023.xlsx-postcodes.csv

from the URL <https://opendata.cbs.nl> a selection will be made and converted to csv of the crime rates of The Hague Districts/Neighborhoods. This site is an open data source of the Dutch Center of Statistics. This csv will be imported.

Foursquare API for venues in the surrounding of the Neighborhoods of The Hague.

2.2 Python libraries

The following python libraries will be used/installed to support the project:

- Pandas
- Requests
- BeautifulSoup
- NumPy
- Geopy
- Nominatim
- Matplotlib
- SKLearn
- Folium