

Capstone Project - The Battle of Neighborhoods (week 1)

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1. If you have time to visit *one* city in the Netherlands?

1.1 Introduction

The Netherlands is a great country to visit for a short break or a longer holiday. And there are many nice cities known for their restaurants, nightlife, museums, market, squares and parks. So deciding which Netherlands city to visit can be difficult. Especially, if you have time to visit one city. What city would you visit?

The aim of this project is to collect data and provide a recommendation that can help to make a decision which city to visit in the Netherlands.

According to the website <https://www.holland.com/global/tourism.htm> the most popular destinations in the Netherlands are:

Amsterdam	Leeuwarden	Arnhem	Gouda
Rotterdam	Leiden	Breda	Groningen
The Hague	Haarlem	Delft	
Utrecht	Volendam	Den Bosch	
Maastricht	Alkmaar	Eindhoven	
Nijmegen	Roermond	Scheveningen	

1.2 Objective

In this project the idea is to compare the above 20 cities and determine how similar or dissimilar they are. The aim is to determine:

1. The similarity or dissimilarity of the 25 cities in the Netherlands based on tourism venues like; events, food, outdoors & recreation, shop & service, and travel & transport:

- What are the most common venues types (venues count)
- What are the most visited venues based on 'check-ins'
- What are the recommending scores of the top 10 venues based on 'tips'.

2. Clusters these 25 cities performing a K-means clustering.

1.3 Data

For this project the data of foursquare will be used for information about venues, tips and check-ins. The coordinates of the 20 cities will be retrieved using google (API).