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Capstone Project

The Battle of the Neighborhoods

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Introduction

This section contains the description of the business problem, some background information, as well as a brief explanation of the data and methodology that will be used to solve this problem.

Business Problem

A man and his wife, like many other expats, will be relocating to Amsterdam, Netherlands. They are relocating from Toronto, Canada and want to find neighborhoods that are similar to what they are used to. They are, unfortunately, not familiar with the Amsterdam's neighborhoods and need some help.

Data and Methodology

Firstly, the neighborhoods in Toronto, Canada will be clustered (using k-Means clustering) according to the types of venues within 500m radius of their centroids. The Explore function of Foursquare's API will be used to retrieve the data for the venues. Secondly, the neighborhoods in Amsterdam, Netherlands will be clustered (using k-Means clustering) on the same basis (venues within 500m radius of centroids) using the same API to retrieve the data. Lastly, a similarity index will be calculated between the neighborhoods in Toronto, Canada vs Amsterdam, Netherlands to find neighborhoods that are the most similar.