**Finding the Best Places to Open a Coffee Shop in Moscow**

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# Introduction

Moscow is the capital and most populous city of Russia, with approximately 15.1 million residents and 10 million non-residents. The city is served by a transit network, which includes four international [airports](https://en.wikipedia.org/wiki/Airports), nine railway terminals, numerous trams, [a monorail system](https://en.wikipedia.org/wiki/Moscow_monorail) and one of the deepest underground rapid transit systems in the world, the [Moscow Metro](https://en.wikipedia.org/wiki/Moscow_Metro), the fourth-largest in the world and largest outside [Asia](https://en.wikipedia.org/wiki/Asia) in terms of passenger numbers, and the busiest in Europe. Moscow Subway (Metro) system covers the whole urban area and we can use their location to locate the place, in another words, the neighborhood surrounding a subway station.

Coffee shops are very popular in Moscow and business acumens are interested where are the places to open coffee shops.

In this project, the Moscow urban area will be clustered by the most common venues surrounding each subway station. Using this data, we can define the clusters and figure out the best places to open a Coffee shop in Moscow.

# Data Collection

# Data resources

The list of subway stations and their locations are stored in Wikipedia. Foursquare API is used to get the most common venues.

# Data collecting and cleaning

Data Processing includes following steps

1. Re-format wiki data in tabular form for further analysis. This includes subway station name and location in longitude and latitude
2. Re-format longitude and latitude from wiki to work with Foursquare data
3. Get venues near subway station using Foursquare API
4. Clean and get the most common venues per subway stations