Part 1: Description of the problem

Let's imagine that Nick El-Tawil, the user analyzed in the lab 2-2-1 of this course (Learning FourSquare API with Python) is moving from his city to another. As we saw in that lab, Nick is already leaving in New York. So let's suppose that, for work reasons (for example), Nick has moved to Parkwoods neighborhood in Toronto.

So now Nick is in a totally new neighborhood of which he doesn't know any of its venues. However, Nick is looking forward to moving around the new neighborhood and start enjoying its venues as he did in New York.

The problem that we will discuss here is knowing which of the venues in the borough of Parkwoods (North York) could fit Nicks likes. This is a particular case that, however, could be extrapolated to any other client that asked us for help.

So, in short, we could have some kind of business which could help **any person that has moved into our borough to find some venues in which he could be interested**.

Part 2: Data used to solve the problem

So how do we find this venues? I think a **content-based recommendation engine** could be perfect to solve this problem. This engine takes another user or users and find the similarity between their likes and Nicks likes.

But how do we chose those other users in order to compare their likes with Nicks ones? Well, there could be several ways. The method that we will be using is finding which is Nicks favorite type of venue and searching for the best rated venue of that type in our borough. In this venue we are going to pick **up to 10 users** that has commented a tip. This 10 users are those that will be used to fit the content-based recommendation engine.

Now that we have the users selected, what we are going to do is taking **the scores that users have given to the venues** to compare them with Nicks ratings, so we could create our content-based recommendation engine.