

Capstone Project - The Battle of Neighborhoods

For Coursera Data Science Project

BTT

May. 20, 2020

- Introduction

ABC is a company based in Toronto for organizing events, currently it works on a project to organize an event for 5 days for a group of photographers from all over the world. The company has to put a good program, including a hotel of residence, a hall for meetings, places of landscape to visit, stores for shopping, restaurants and cafes. So, the company's purpose is to make a list of places of landscape in Toronto, including the nearest restaurants, cafes, and shopping stores for each place.

- Data source

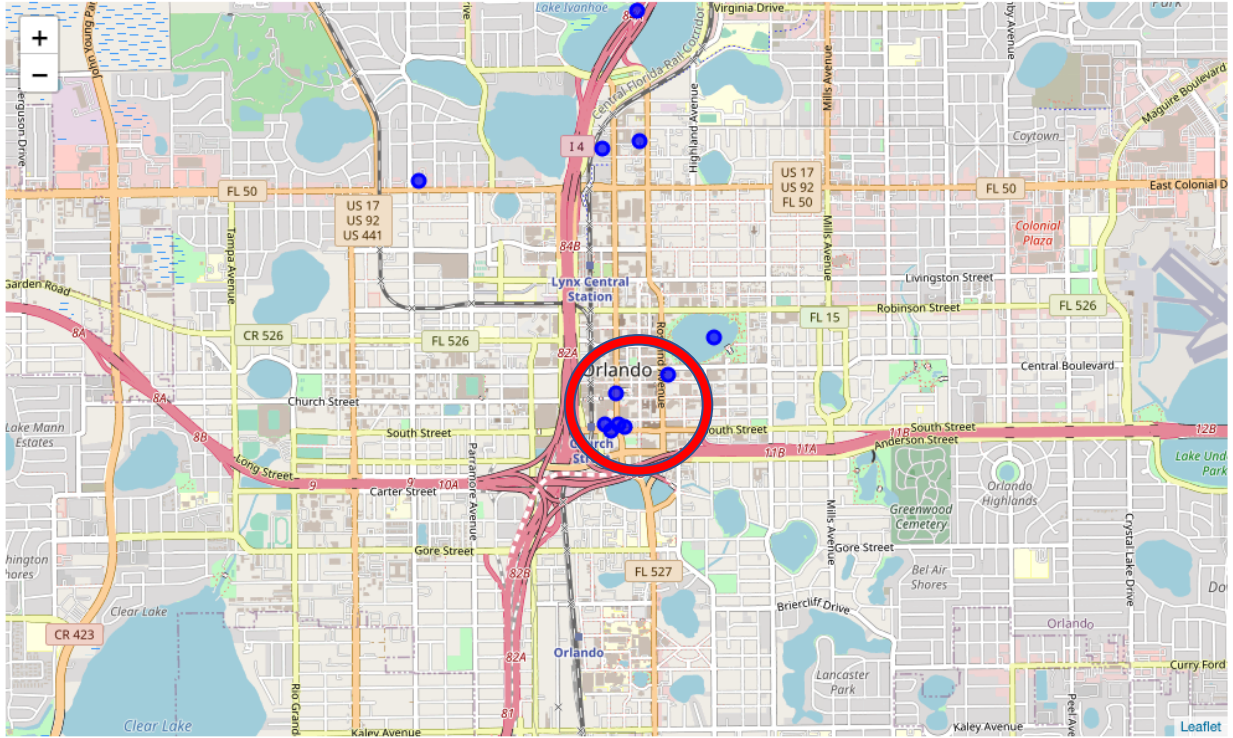
The data used in this project is provided by Foursquare location data. The data are grouped by landscape area, and each area included the information about this area and all information about restaurants, cafes, and stores which in this area.

- Methodology

Majorly relied on Foursquare API to retrieve all venues of each neighborhoods, then group by each neighborhood and to count how many venues before filter top 10 most common venue types of each neighborhood.

- Results and Discussion

After clustering the various information of Orlando, I would like to arrange the even in the central of Orlando next to the highway exit and the airport (in the red circle). Since this area including every place, I need to support various activities like shopping, eating and residence.



| | name | categories | address | lat | lng | postalCode | state |
|----|---|-----------------------------|---------------------------|-----------|------------|------------|---------|
| 0 | Shopping | Boutique | 121 E Welbourne Avenue | 28.596844 | -81.350702 | 32789 | FL |
| 1 | Hollieanna Shopping Center | Shopping Mall | 741 S Orlando Ave | 28.591556 | -81.365662 | 32789 | FL |
| 2 | Shopping! | Eastern European Restaurant | NaN | 28.598329 | -81.288301 | NaN | FL |
| 3 | Southgate Shopping Center | Shopping Plaza | 4649 S Orange Blossom Trl | 28.496095 | -81.395773 | 32839 | FL |
| 4 | Shopping Aricanduva | Shopping Mall | NaN | 28.485120 | -81.431873 | NaN | FL |
| 5 | washington shores shopping plaza | Miscellaneous Shop | NaN | 28.538864 | -81.416622 | 32805 | FL |
| 6 | Orange Blossom Trial Shopping Center Link Supe... | Bus Line | NaN | 28.496820 | -81.397034 | NaN | FL |
| 7 | Publix | Grocery Store | 741 S Orlando Ave | 28.591514 | -81.366182 | 32789 | FL |
| 8 | Aloma Shopping Center | Miscellaneous Shop | NaN | 28.601705 | -81.322544 | 32792 | FL |
| 9 | Publix | Grocery Store | 4402 Curry Ford Rd | 28.521735 | -81.330419 | 32812 | FL |
| 10 | Lee Road Shopping Center | Shopping Mall | 900 Lee Road | 28.605573 | -81.395042 | 32804 | FL |
| 11 | Sprint - (Aloma Shopping Center) | Mobile Phone Shop | 2225 Aloma Ave | 28.602273 | -81.322774 | 32792 | FL |
| 12 | Publix Liquors at Aloma Shopping Center | Liquor Store | 2345 Aloma Ave | 28.602244 | -81.321765 | 32792 | FL |
| 13 | Sun Plaza Shopping Center | Miscellaneous Shop | NaN | 28.552476 | -81.469364 | NaN | FL |
| 14 | Publix | Grocery Store | 4048 S Semoran Blvd | 28.503379 | -81.311609 | 32822 | FL |
| 15 | Food Shopping :-) | Deli / Bodega | NaN | 28.488875 | -81.302877 | 32822 | FL |
| 16 | Life Love Shopping | General Entertainment | NaN | 28.596627 | -81.302517 | NaN | FL |
| 17 | BestBrazil Shopping | Electronics Store | 1233 Sand Lake Rd #8 | 28.450663 | -81.394194 | 32809 | FL |
| 18 | Publix | Grocery Store | 4606 S Kirkman Rd | 28.495325 | -81.460852 | 32811 | FL |
| 19 | Highland Lakes Shopping Center | Shopping Mall | NaN | 28.552661 | -81.480753 | NaN | Florida |
| 20 | Rio Pinar Plaza | Miscellaneous Shop | 515 S Chickasaw Trl | 28.536960 | -81.275582 | 32825 | FL |
| 21 | Unigold Shopping Center | Shopping Plaza | 7530-7762 University Blvd | 28.596066 | -81.285177 | 32792 | FL |
| 22 | Best Pro Shopping | Department Store | NaN | 28.465357 | -81.455043 | 32819 | FL |
| 23 | Publix | Grocery Store | 2295 Aloma Ave | 28.602325 | -81.322011 | 32792 | FL |
| 24 | Park Avenue | Shopping Plaza | Park Ave | 28.597262 | -81.350993 | 32789 | FL |
| 25 | Orlando International Premium Outlets | Outlet Mall | 4951 International Dr | 28.474671 | -81.451529 | 32819 | FL |
| 26 | McDonald's | Fast Food Restaurant | 4066 S Semoran Blvd | 28.503155 | -81.310804 | 32822 | FL |