

An Exploratory Analysis of Venues in Cabarrus County, NC - A Charlotte Metropolitan Suburb

----Venues Comparison for 2 Popular Zip Code Areas in the City of Concord

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January 1, 2021

3. Data

3.1 Data sources

Master address datasets for all the recorded addresses from the State of North Carolina could be found for both year/version-2009, and most recently -2014 at the website of <https://www.nconemap.gov/datasets/spatial-data-download-nc-emergency-management> [4]. This master address dataset will be used to obtain county and city zip codes and names.

3.2 Data wrangling

At the above website for data source, under filter conditions, only select relevant data for Cabarrus County of North Carolina and save the file as a local csv file named: "NC_Master_Address_Dataset_-_2014_CAB.csv". Explore information and data types of relevant columns and save the unique zip codes to a new pandas dataframe called zipcode, which has only one column named "ZIPCODE" and has 17 rows in total.

Install and import python library pgeocode [5], get geo-coordinates as well as city names for each unique zip code in the dataframe, and populate 3 new columns for the dataframe: Latitude, Longitude, and City. The updated dataframe will be used to generate folium geo-maps of the county, the interested zip code areas, and create url requests to query venue data.