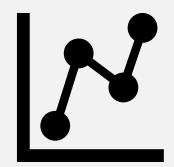


What exactly gives a city its character?

- Population
- Politics
- Health
- Jobs
- Venues\*



Why would you care?

- Moving to a new city
- Opening a new business
- Travel industry

What are we trying to do?

 Unsupervised learning algorithm to cluster U.S. cities based primarily on the distribution of different venues.

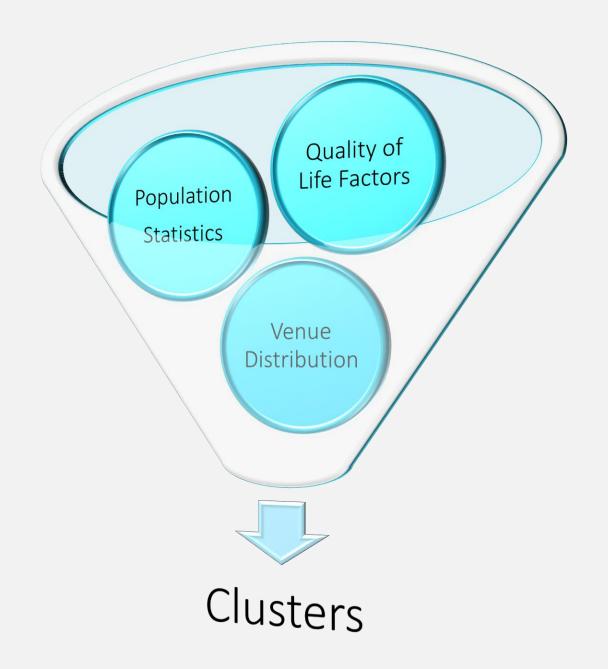
#### Introduction

Lorem ipsum dolor sit amet, consectetur adipiscing elit

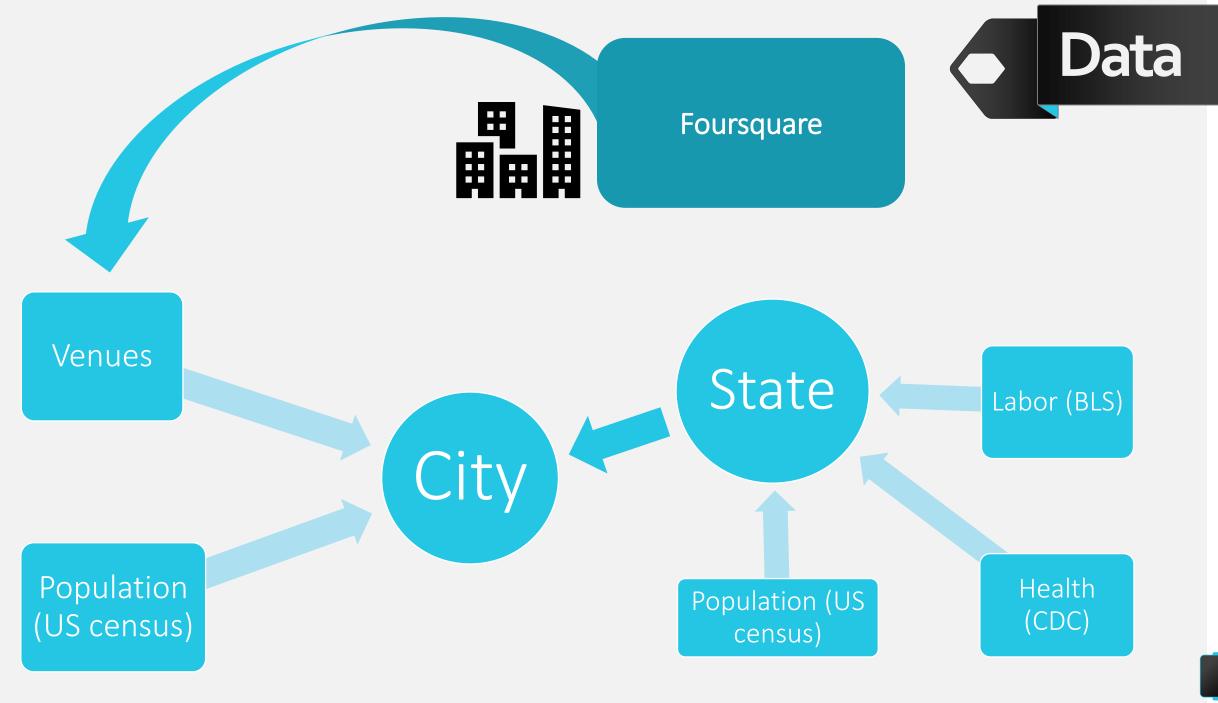
How do we define a city's character?

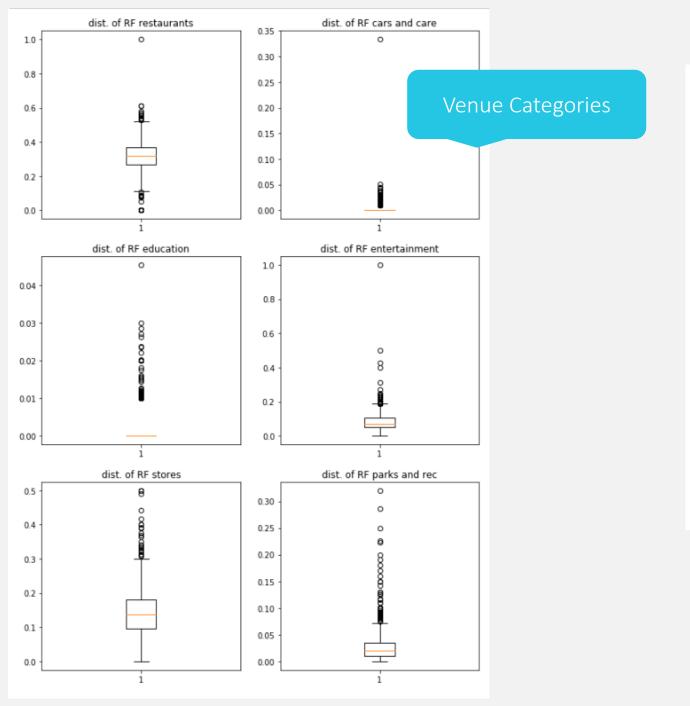


- Size?

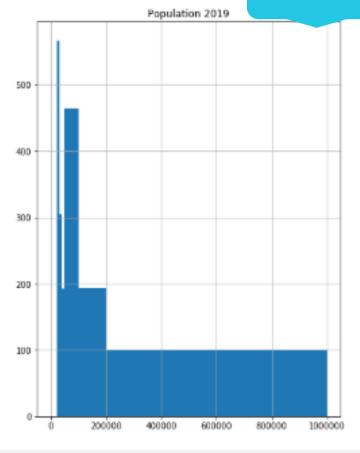




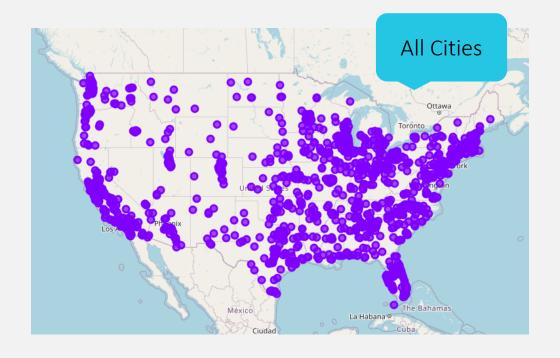








### Exploratory Data Analysis

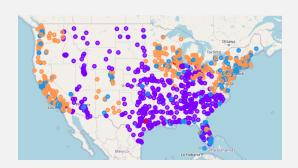








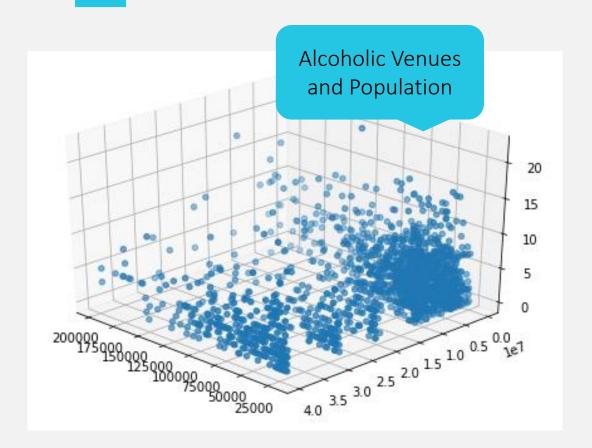


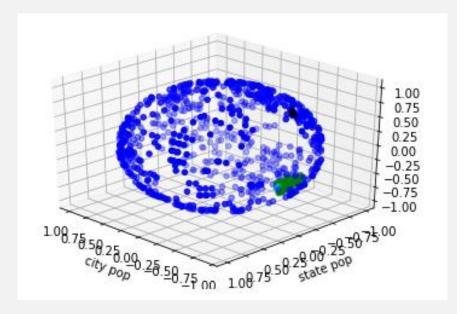




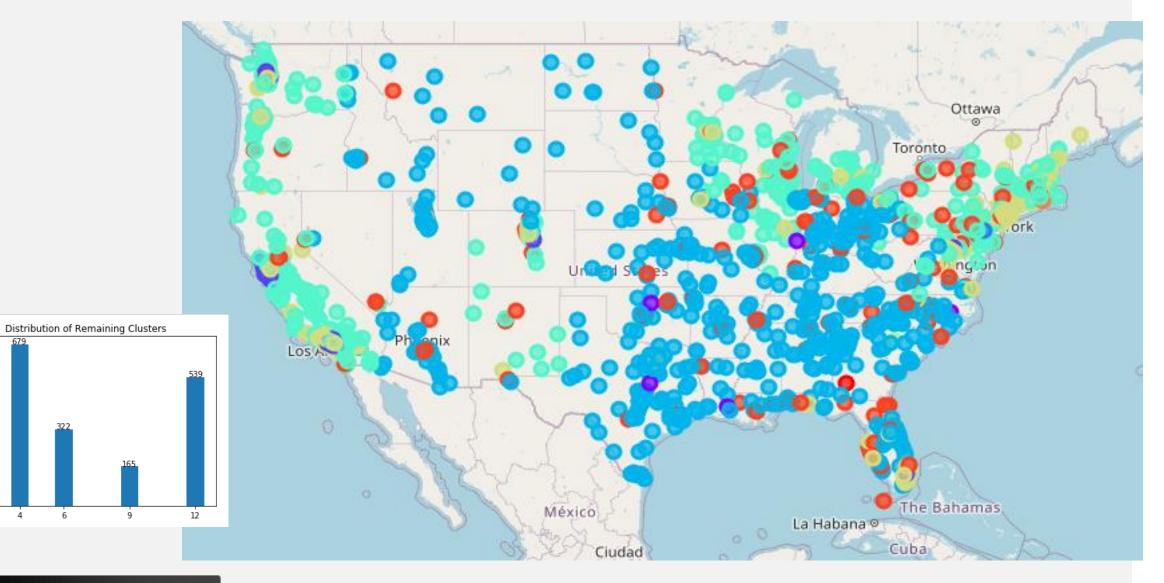
# Modelling I

#### **DBSCAN**



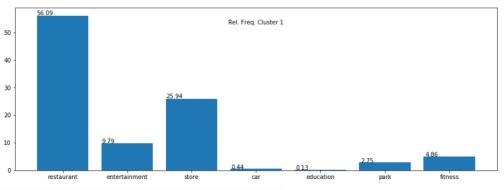


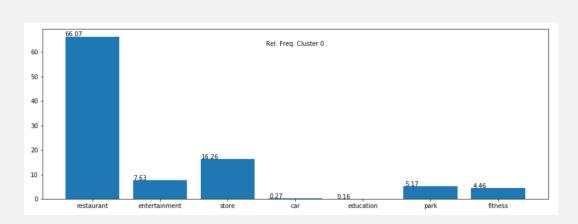
## Modelling II

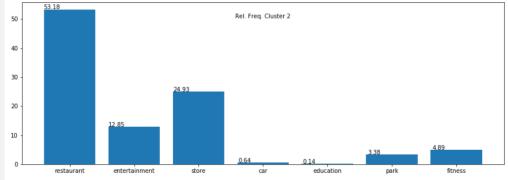


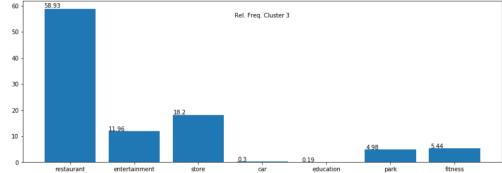


Comparing Clusters

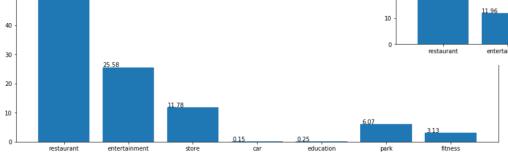








Results



Rel. Freq. Cluster 4

Deeper exploration of what features are most relevant Beginning to a larger body of work Clusters Found Entertainment Shopping Restaurant

Conclusion

