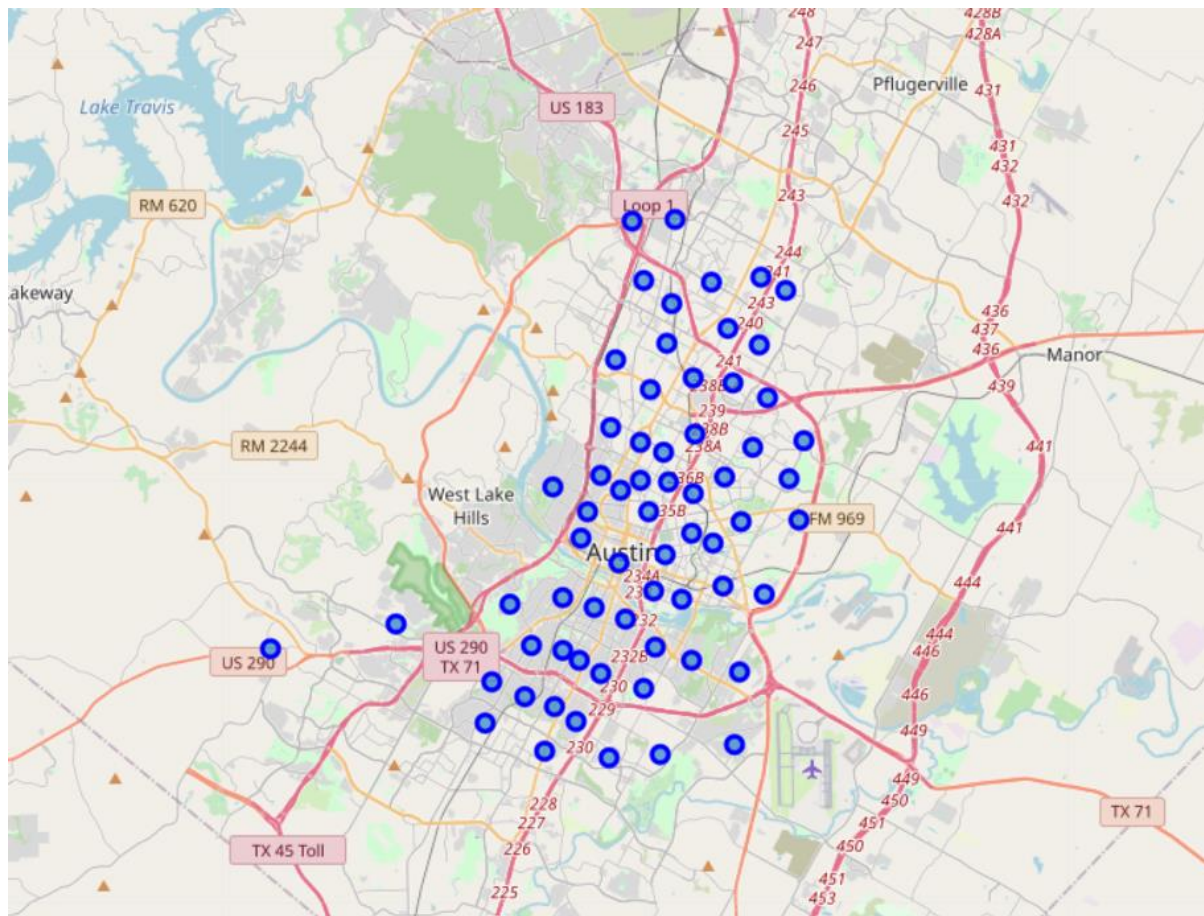# Austin Neighborhood Restaurant Preferences
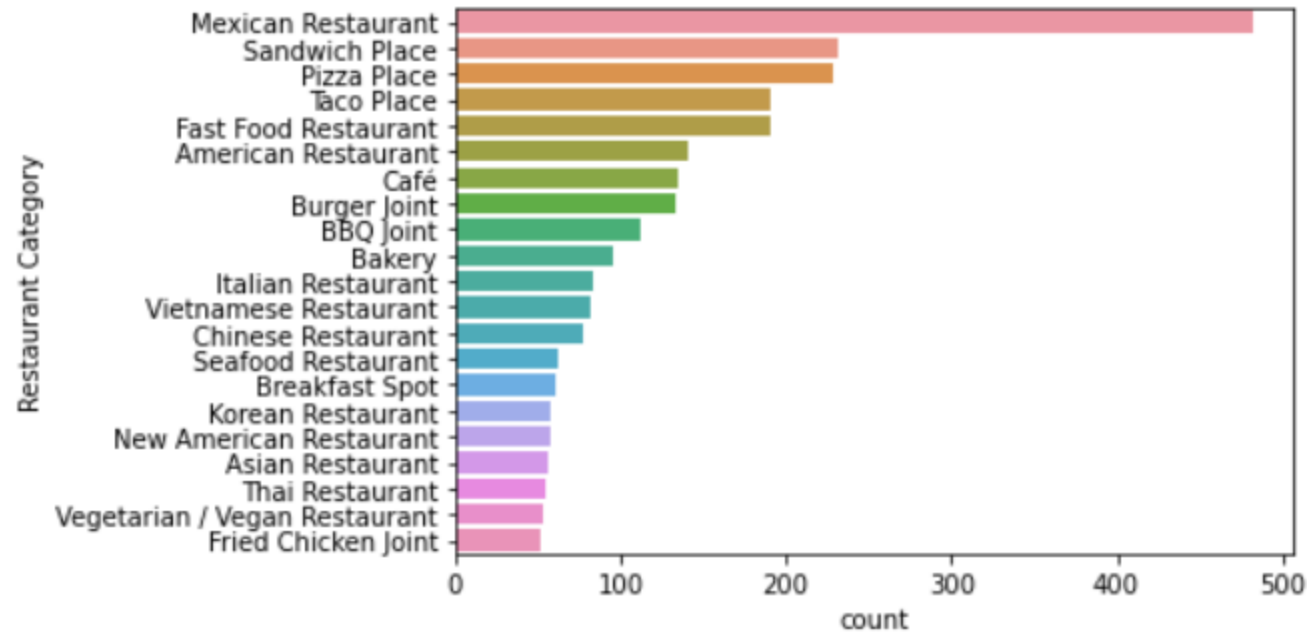
Introduction

- Find types of restaurants in each neighborhood
- Are there any groups of neighborhoods that have similar preferences
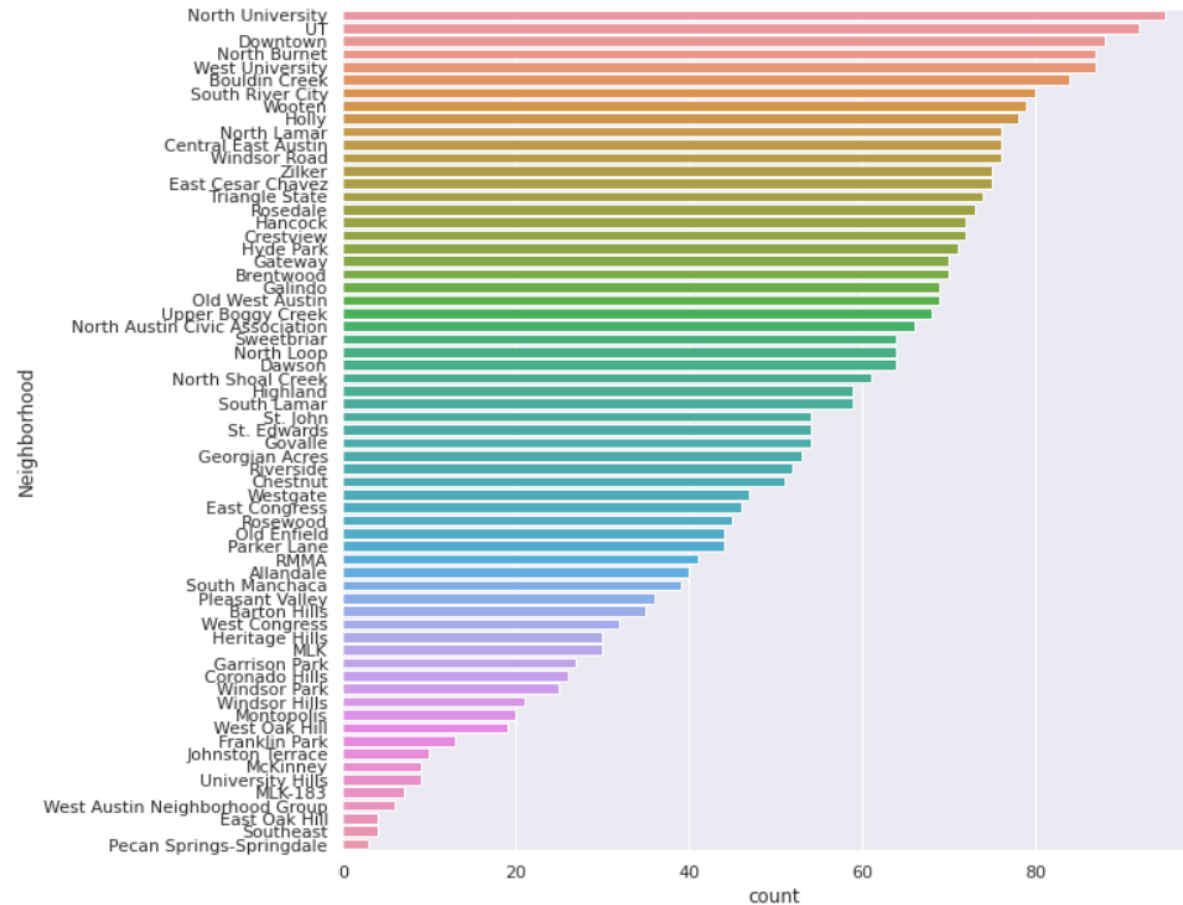
Austin neighborhoods

Types of restaurants in Austin

Number of restaurants by neighborhood

Results of k-mean clustering
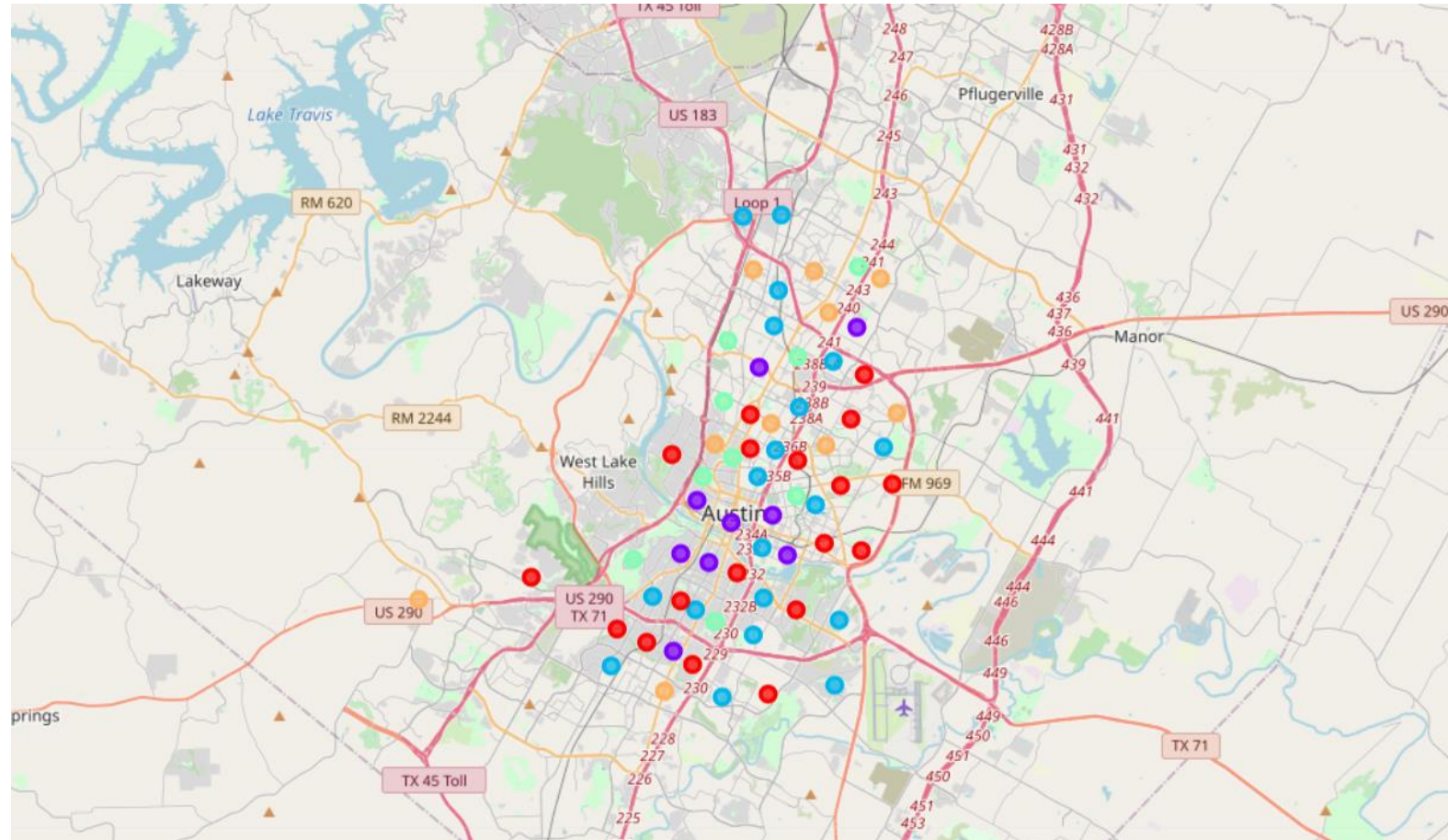
Cluster 0

	Avg	%
Mexican Restaurant	2.888889	0.171053
Fast Food Restaurant	2.055556	0.121711
Pizza Place	1.555556	0.092105
Taco Place	1.000000	0.059211
Sandwich Place	0.944444	0.055921

Cluster 1

	Avg	%
Mexican Restaurant	10.333333	0.133813
Pizza Place	5.222222	0.067626
BBQ Joint	4.333333	0.056115
American Restaurant	3.666667	0.047482
Burger Joint	3.555556	0.046043

Cluster 2

	Avg	%
Mexican Restaurant	11.789474	0.207600
Taco Place	3.736842	0.065802
Pizza Place	3.684211	0.064875
Fast Food Restaurant	3.631579	0.063948
Sandwich Place	3.368421	0.059314

Cluster 3

	Avg	%
Mexican Restaurant	5.444444	0.108889
Fast Food Restaurant	3.777778	0.075556
Sandwich Place	3.333333	0.066667
Pizza Place	3.111111	0.062222
Taco Place	2.888889	0.057778

Cluster 4

	Avg	%
Sandwich Place	9.3	0.116981
Mexican Restaurant	6.4	0.080503
Pizza Place	5.6	0.07044
Café	5.3	0.066667
Taco Place	4.6	0.057862

Conclusion

- Mostly Mexican restaurants, Sandwich places, Taco places, Pizza places, and Fast Food restaurants
- Cluster 0, 2, and 3 had these 5 restaurant categories in it's top 5
- Only cluster 1 had BBQ, American, and Burgers in it's top 5
- Only cluster 4 had cafés in it's top 5