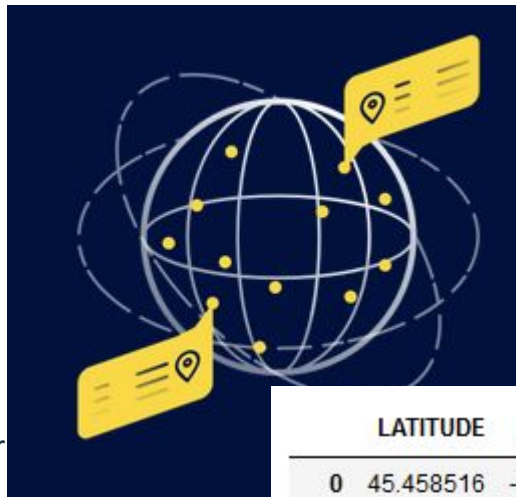# Metropolitan Moving in the PNW

Data

-Neighborhood and Location data
    (gov't websites and geolocator)

-Foursquare venue data

	LATITUDE	LONGITUDE	NAME
0	45.458516	-122.627539	Ardenwald-Johnson Creek
1	45.468707	-122.597633	Brentwood-Darlington
2	45.494819	-122.651552	Brooklyn
3	45.517381	-122.651954	Buckman
4	45.493679	-122.623111	Creston-Kenilworth
5	45.473553	-122.630899	Eastmoreland
6	45.493188	-122.589231	Foster-Powell
7	45.506644	-122.649419	Hosford-Abernethy
8	45.526763	-122.644549	Kerns

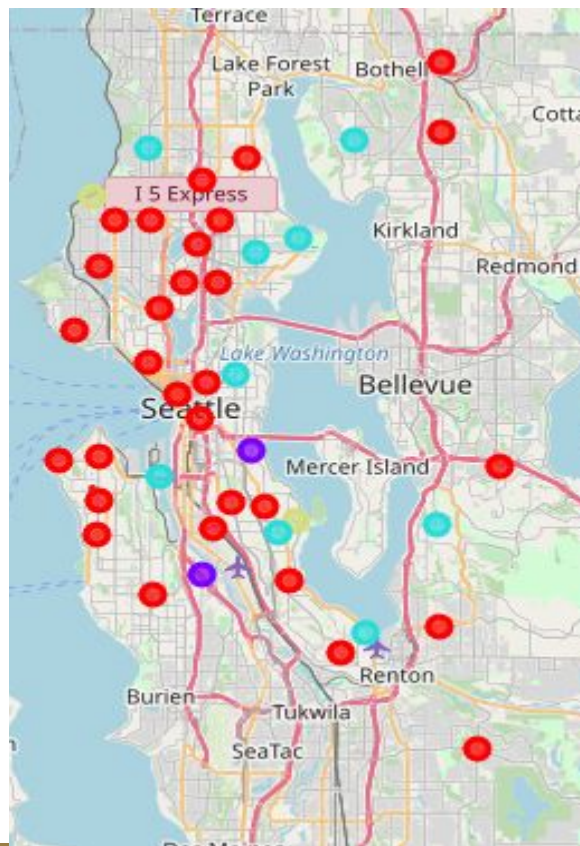# Methods

-k clustering
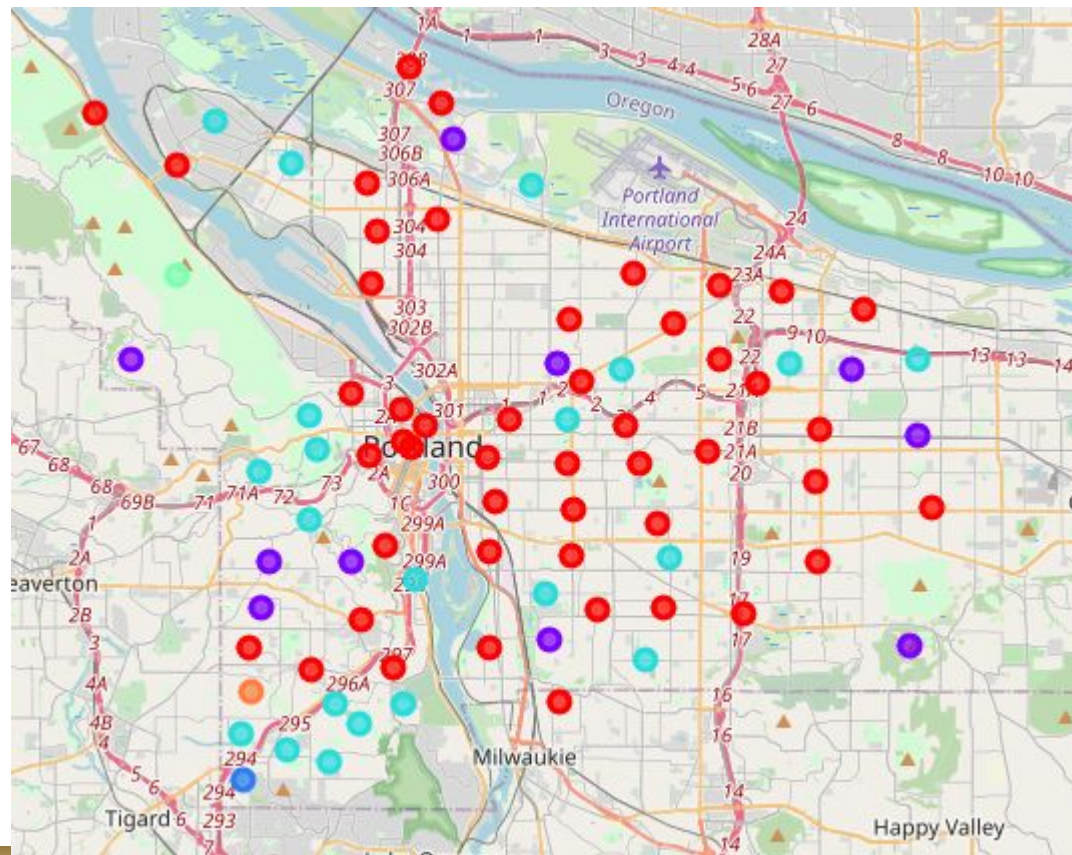
-k = 7

-combine neighborhood,
        venue, and
        cluster information

	Latitude	Longitude	Neighborhood	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue
0	45.458516	-122.627539	Ardenwald-Johnson Creek	0	Food & Drink Shop	Coffee Shop	Grocery Store
1	45.468707	-122.597633	Brentwood-Darlington	3	Deli / Bodega	Summer Camp	Historic Site
2	45.494819	-122.651552	Brooklyn	0	Bar	Light Rail Station	Thrift / Vintage Store
3	45.517381	-122.651954	Buckman	0	Coffee Shop	Bar	Brewery
4	45.493679	-122.623111	Creston-Kenilworth	0	Coffee Shop	Bus Stop	Pizza Place

SEA

PDX

Going forward....

Opportunities for further analysis:

        -housing costs

        -demographics

        -additional exploration of clusters

References

-Foursquare

-IBM Data Science labs and course work

-https://en.wikipedia.org/wiki/Neighborhoods_of_Portland,_Oregon

-https://gis-kingcounty.opendata.arcgis.com/datasets/neighborhood-centers-in-king-county-neighborhood-centers-point/data