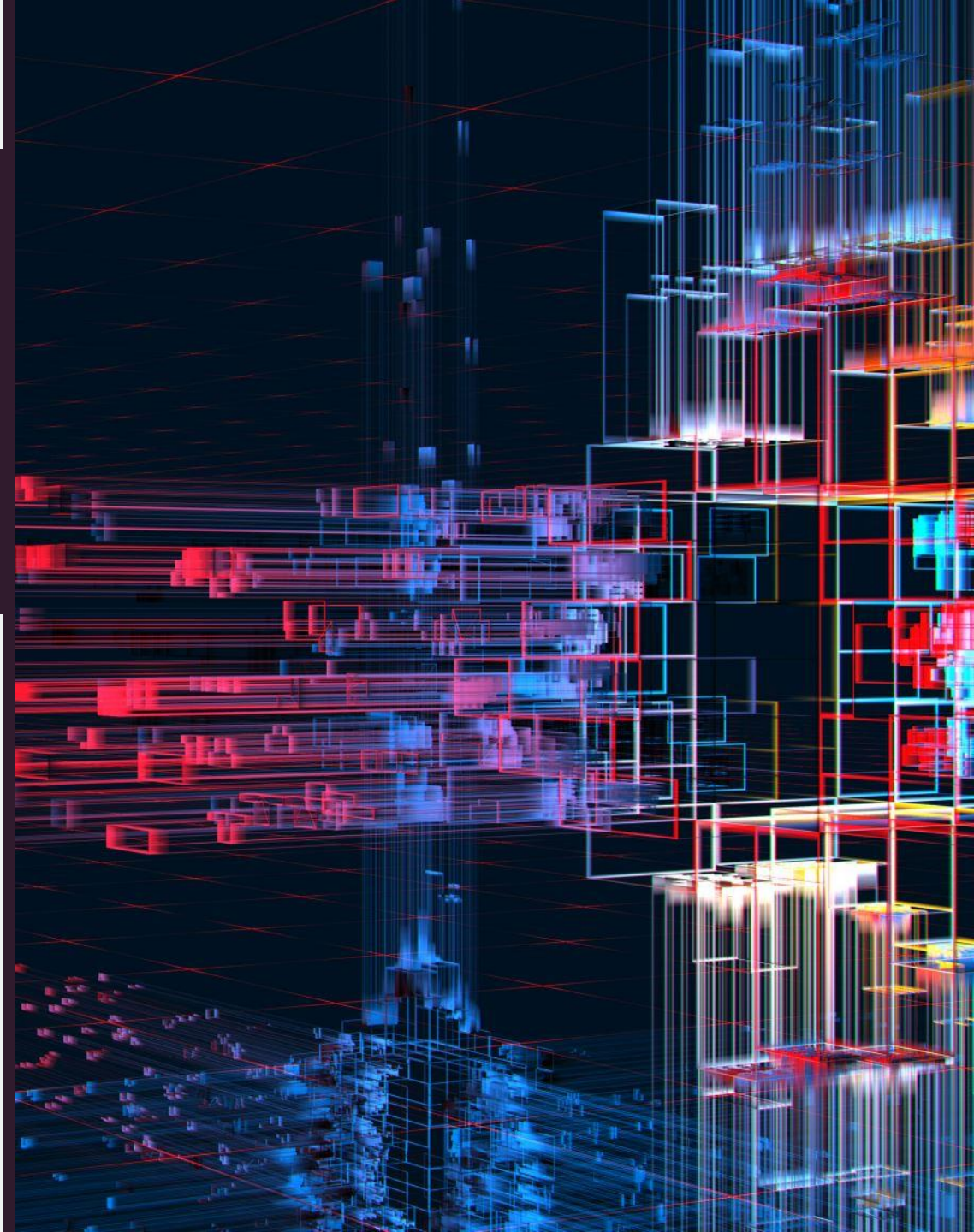


PARIS DISTRICTS

Segmenting Paris Districts
According to venues



DATA ACQUISITION

Foursquare API

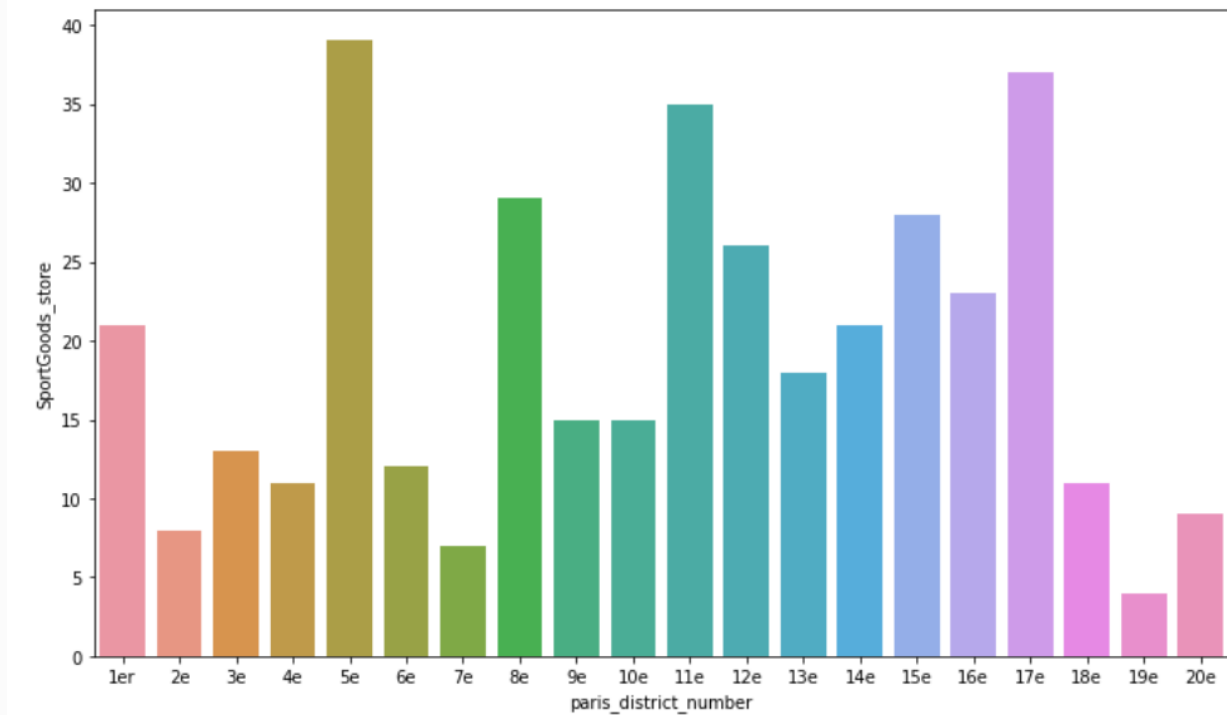
Open-source French government data

<https://www.data.gouv.fr/en/datasets/r/c627e81a-a353-462d-a471-c2e645a9d14c>

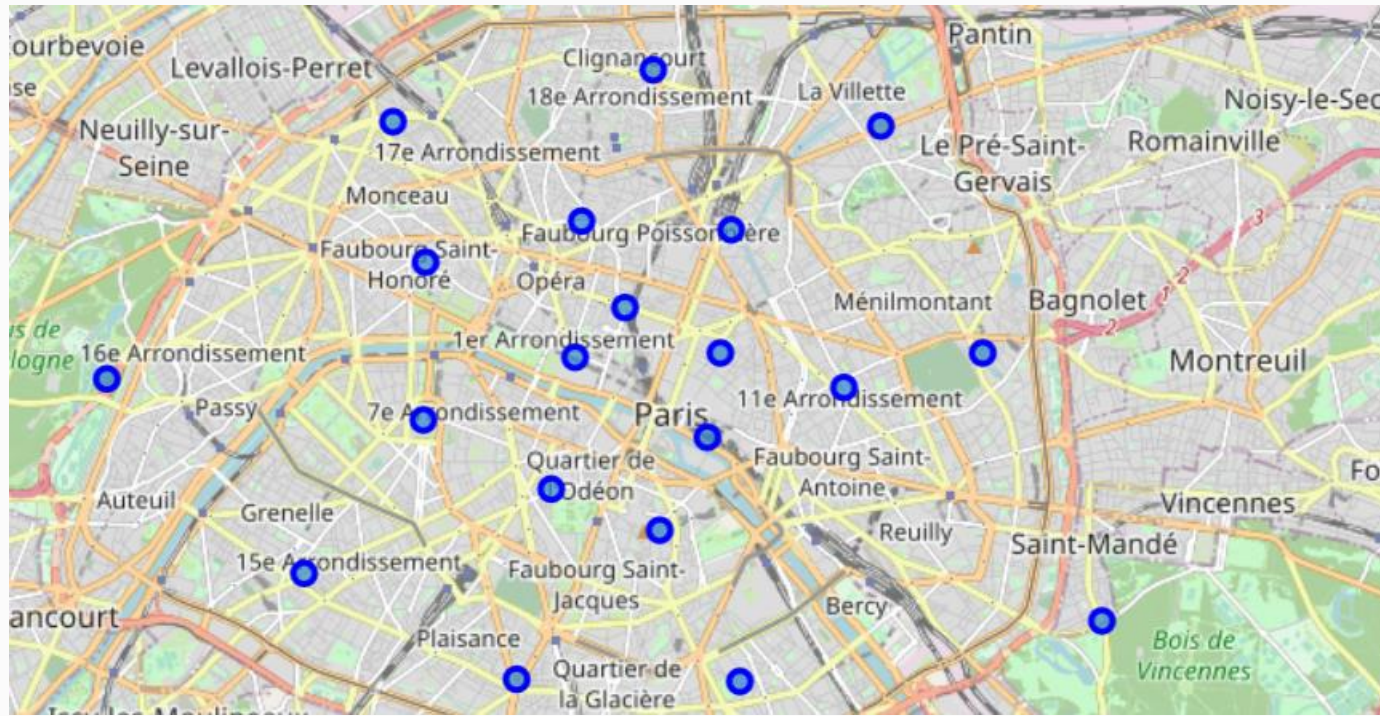
The open-source French government data was already one hot encoded, and the columns were re-name to English, and preliminary assumptions were made about Sports Goods stores large concentrations in 3 districts, that the corresponding districts might contain high frequency of young-middle age individuals

Foursquare API was used subsequently to retrieve data about venues in the 10 districts of Paris, to further explore venues categories and conduct a clustering analysis

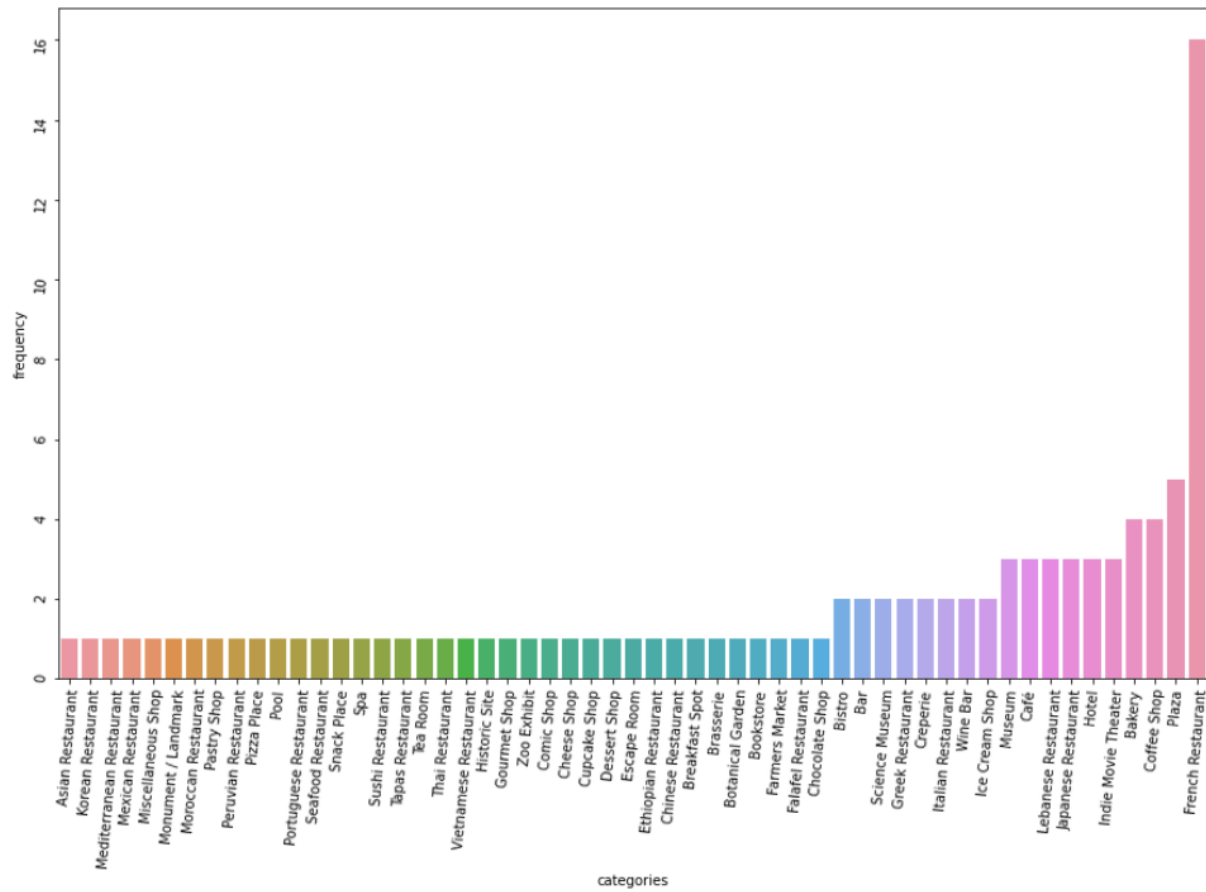
EXPLORATORY DATA ANALYSIS



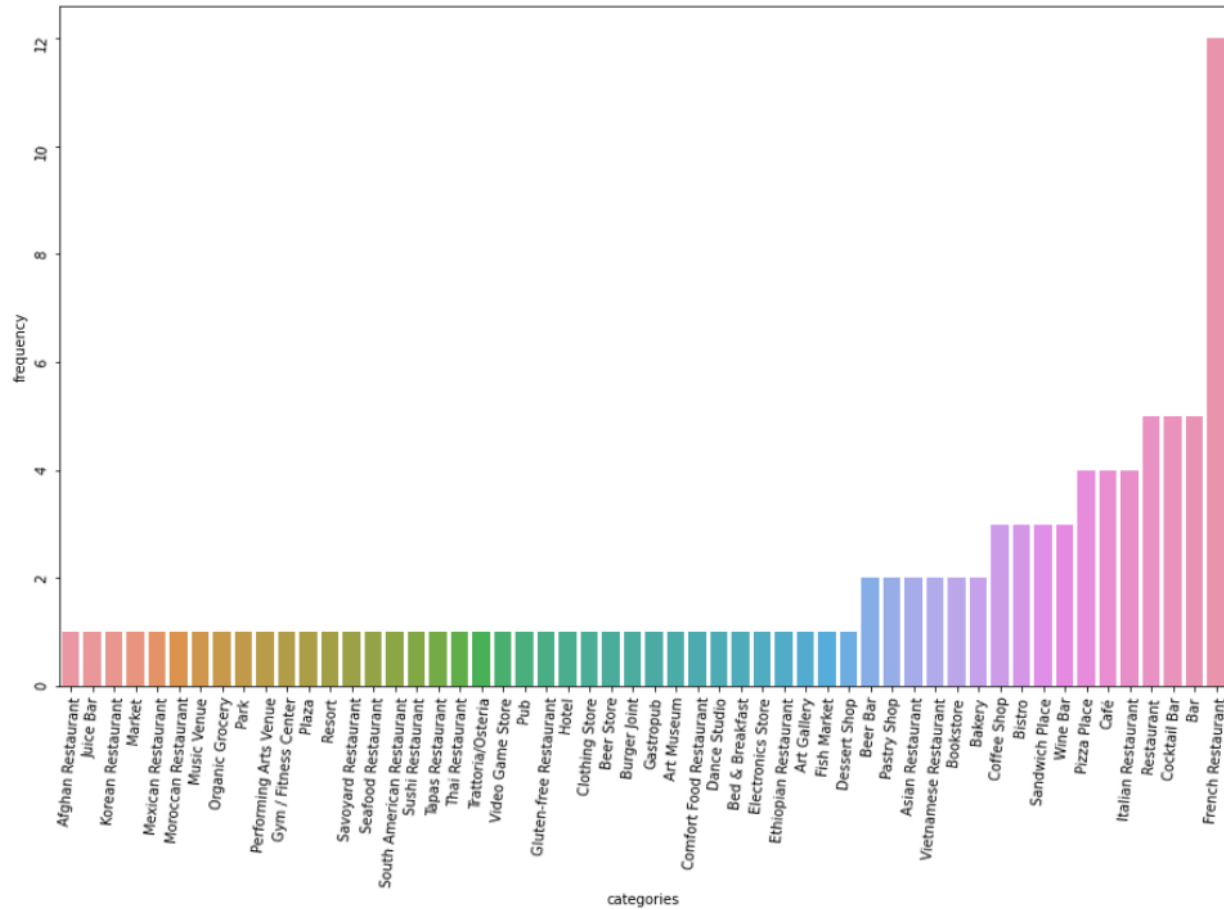
French Govt. Data
Bar plot according to sports goods, presumably Sports goods concentration in districts 5, 11, 17 can presumably give a hint of Young and middle aged individuals concentrations



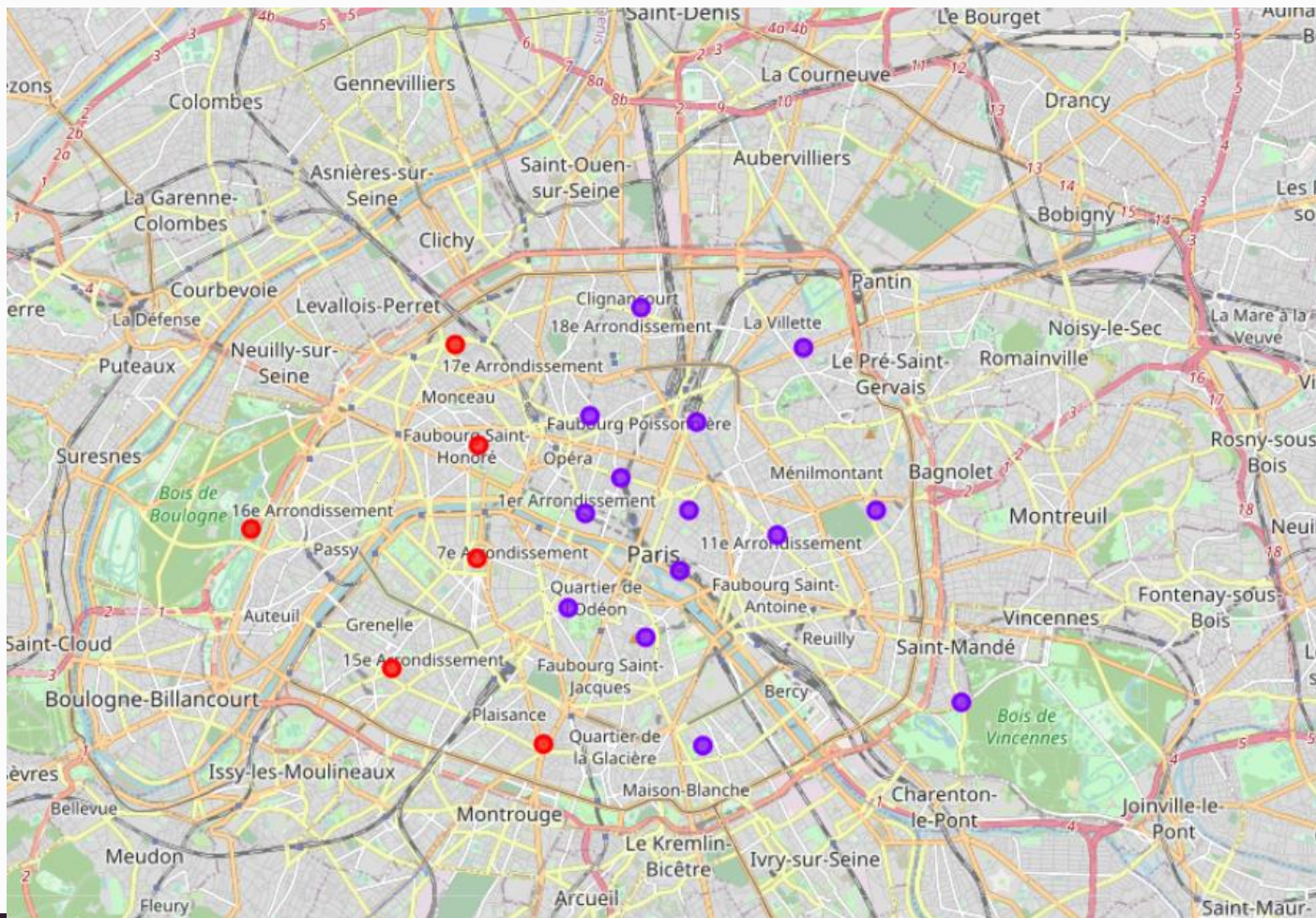
Paris Map districts /arrondissements, noticing that the arrondissements follow a snail pattern going from center to the outer skirts of Paris



Paris 5th district venues on a Bar plot, evidently a large frequency of French restaurants, followed by bakeries, and Plazas



Paris 11th district venues on a Bar plot, exhibits also a large frequency of French resto, and comparing it with the 5th districts, bars comes in second, coffee shops and pizza joints



Paris districts clustered according to venues similarities, resulting into 2 clusters, the east side of the capital cluster comprises more districts, similar in their venues categories, and offer more diversity in districts venues, and richness in choice

Conclusion: The East side cluster is more diverse and has more districts that are similar in venues, that can be a starting point for an in depth study with commercial rent