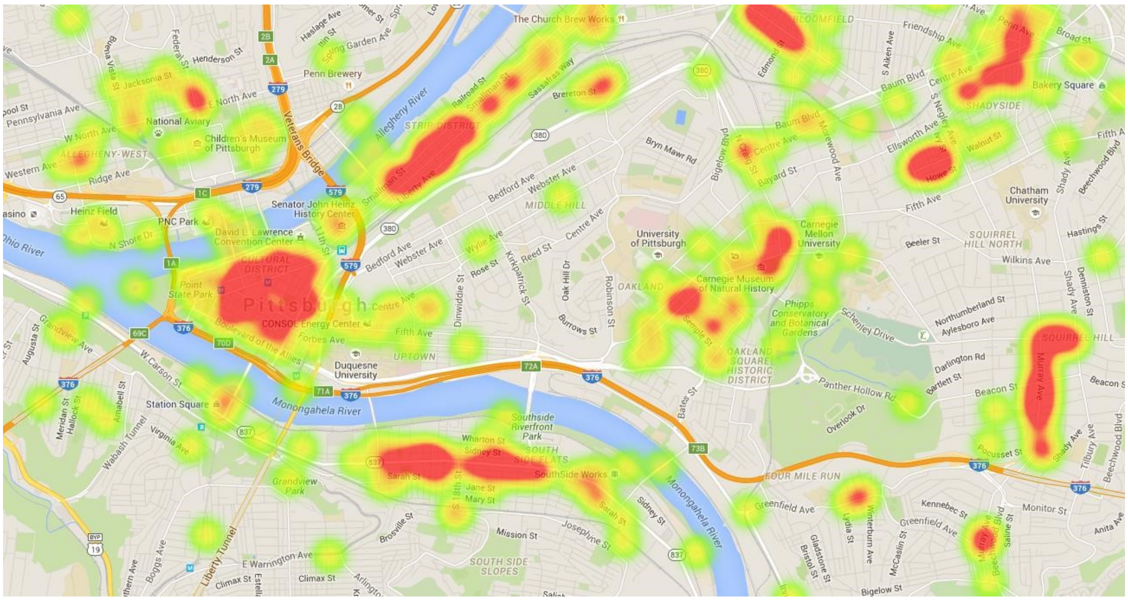
Dataset Analysis Report

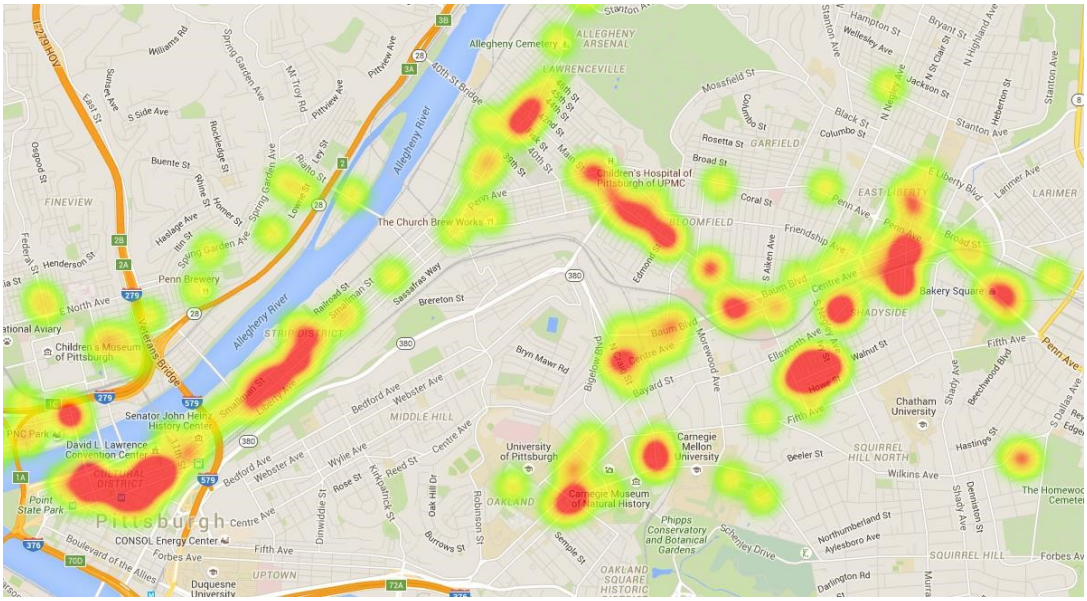
It's nearly impossible to summarize the interesting findings from the huge dataset without making some restrictions. In my case, I restrict the city to only be Pittsburgh. Before I started looking into the dataset, my friend came to me and asked me the question which drove me to the interesting plots of this dataset. He asked suppose I am to travel to a new city, where should I stay if I want the best restaurants in town? Then I thought that we could plot the geolocations of business with highest ratings on map, so that people with the need of staying close to the can make good use of it.

For best restaurants, star >= 4.5, the 'heatmap' plot suggests the best areas:



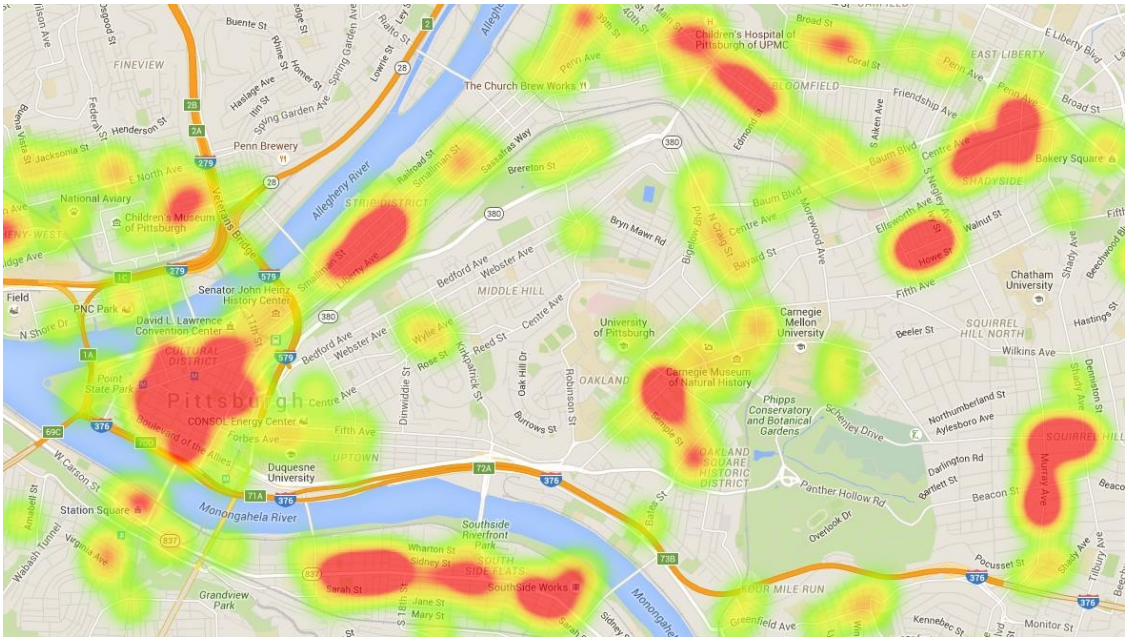
It's clear by the map that there are four major clusters of best restaurants in Pittsburgh. The two clusters on the mid left and top left are downtown Pittsburgh, the one on the right is the CMU and U of Pitt area, and of course the South-Side is most famous for the nightlife.

For best shopping, star >= 4.5, the 'heatmap' plot suggests the best areas:



Based on the map, there isn't any major cluster of the best shopping places comparing to what the restaurant's plot indicates. However, one can still say that the downtown area is the overall best place for shopping.

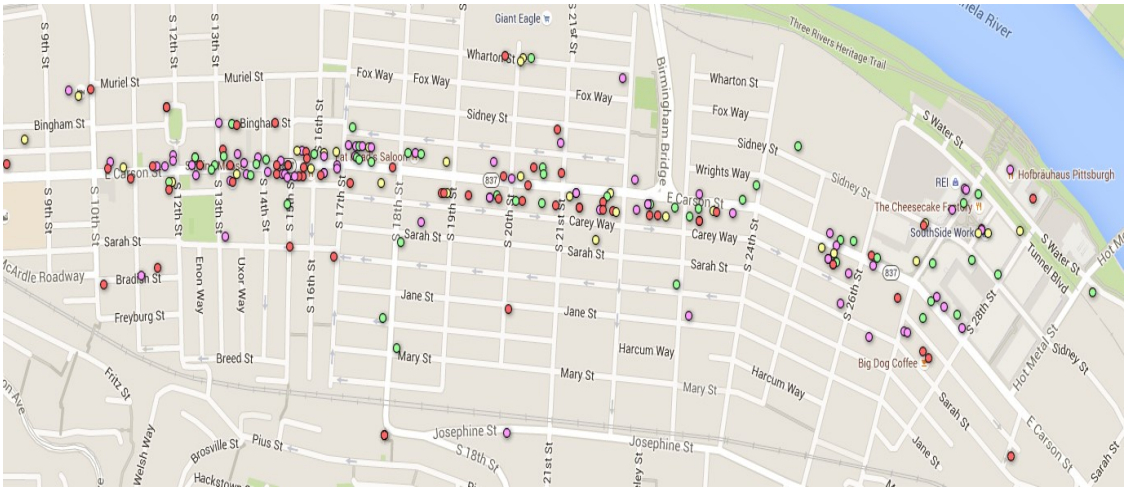
For best shopping, star >= 4.5, the 'heatmap' plot suggests the best areas:



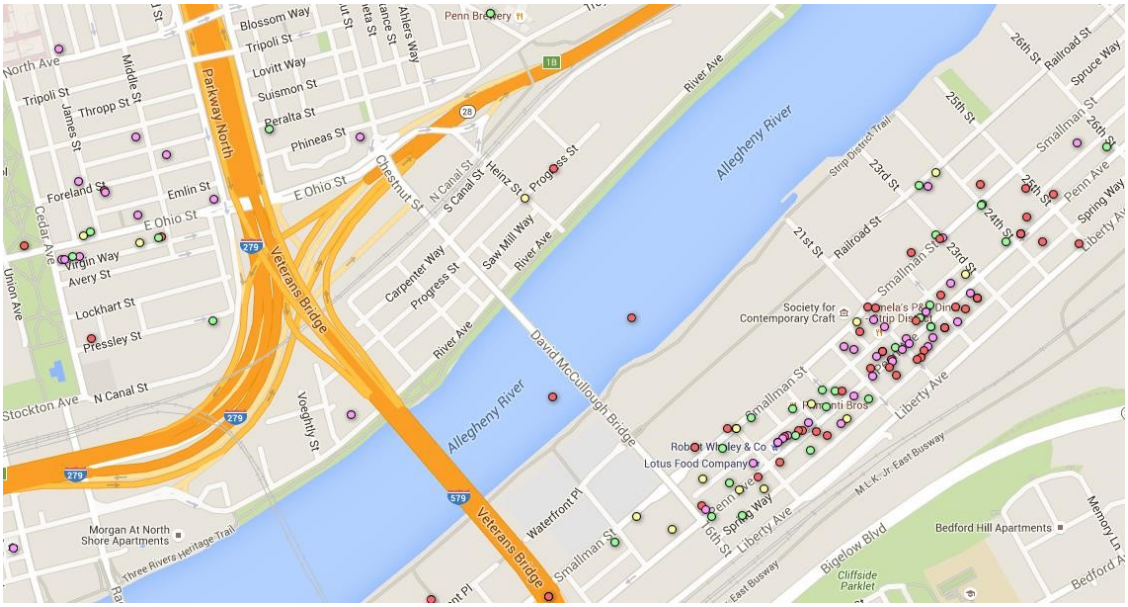
For the nightlife plot, which is based on the ratings of bats, one can easily determine that South-Side and downtown Pittsburgh are the best places.

I have made four plot maps for all business (star >=3) in the most popular places in Pittsburgh.

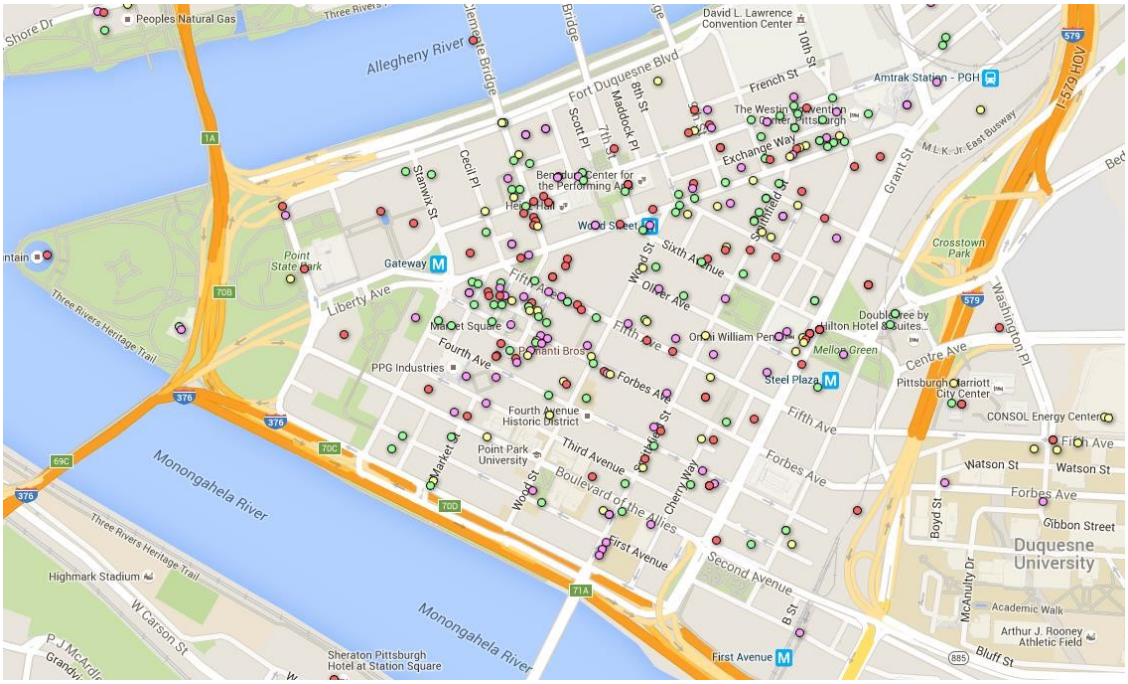
South-Side:



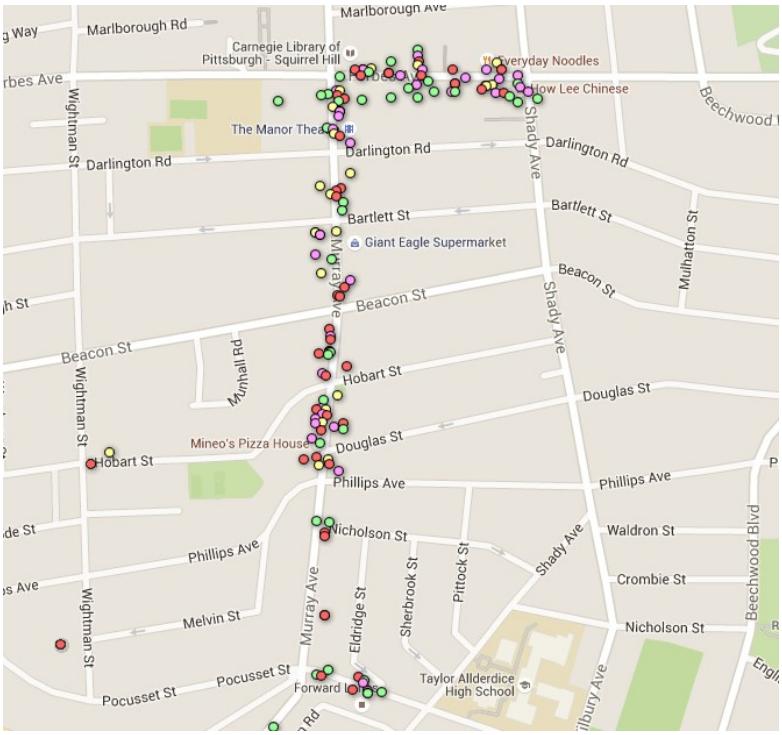
Waterfront (Downtown Pittsburgh)



The Triangle (Downtown Pittsburgh)



CMU + UoP:



Finally, a bigger picture of the business in the great Pittsburgh area: