TEAM 17：

Uber – the Success of Shared Economy

**Introduction:**

America has been long blamed for its terrible public transportation, but there is one exception - New York. You can totally reliable on subway, buses and taxi rather than on your own car. With the rapid development of share economy, Uber has also become a popular choice. Having given tons of data about NYC Uber trip, we are able to analyze the demographics feature of Uber user, and Meanwhile, some prediction can also been made about the

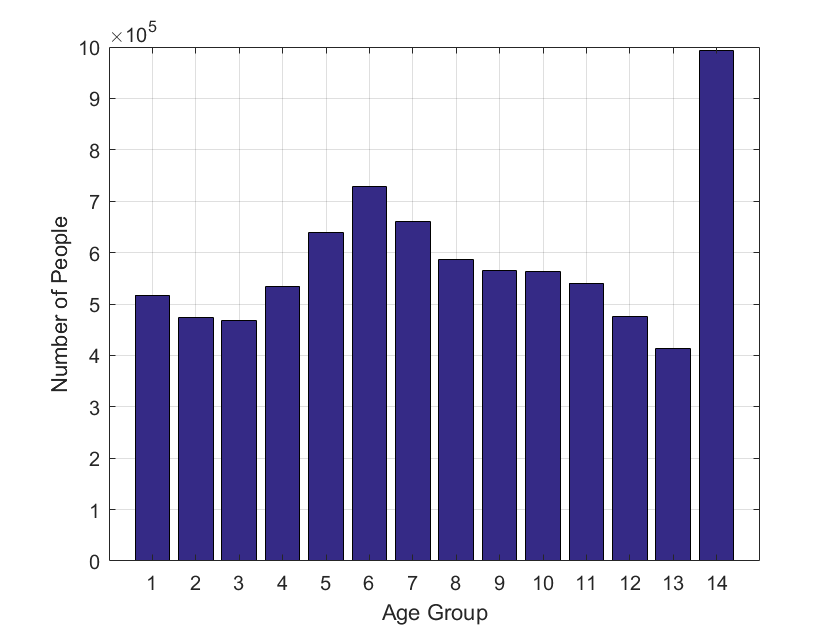
Here are the questions we want to solve:

1. What is the demographics feature of Uber user?
2. Which’s the busiest area in NYC? How many people in total use Uber in that area in 2015?
3. Using linear regression, we try to predict customer behavior and predict the number of potential user in each area?

Guess what? We do find something interesting.

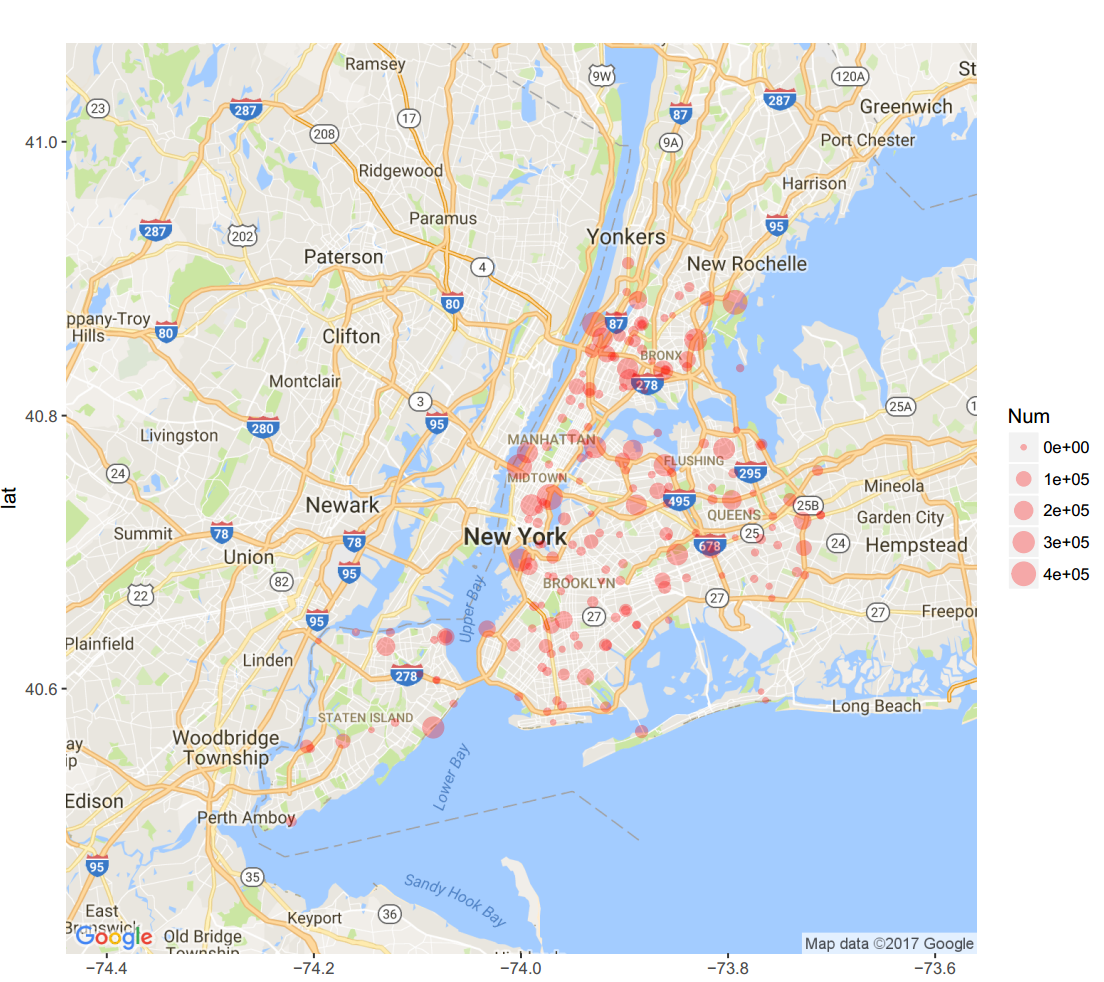
Demographics Feature:

As the society is aging, we can see that the old people in NYC take a large proportion in total population. The trend shows the great need to develop Uber



Busiest Area

Where is the busiest area in NYC? In other words, where can Uber driver pick up more potential rider? Using Uber trip count 2015 dataset, we have the result. By sorting pickup station with zone ID, we visualize the



## Statistics Analysis:

To get the relationship between district’s features like population, income, age distribution, etc, we decided to do multi-linear regression on the relationship between these features and uber trip count. And according to cluster analysis, these relationships can vary a lot across populations with different income level, thus we divided the population according to their income level. We did regression on the population whose annual income is between 40000-50000 dollars. The result is shown as below:

From the results, we can conclude that

## Conclusion:

With the development of autonomous driving and aging population, it can be seen in the near future that the industry would have changed completely. We can have more efficient ways of travelling than ever before.