
G2M Cab Insight Case

virtual internship
-Yitong Lu

Background

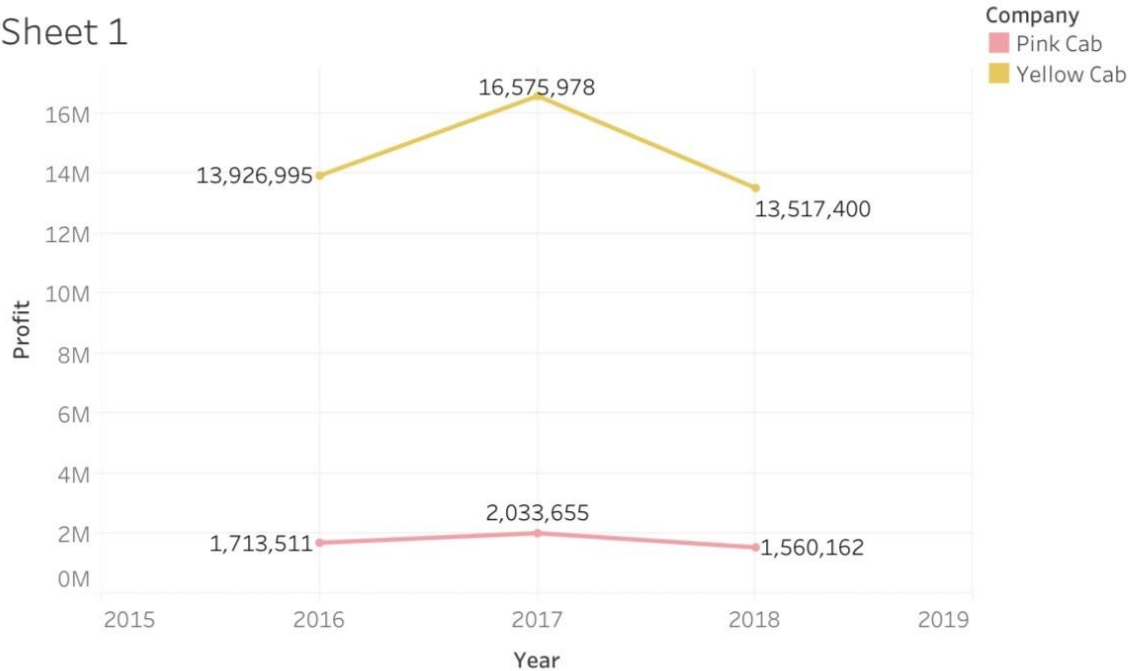
- Our client XYZ is planning for an investment in Cab industry. They want to understand the market better before they make final decision.
- We have the information of two cab companies: one is Pink cab, the other one is Yellow cab. XYZ will choose the better company which can bring them more benefits to invest.
- focus: we will analyze the data of two companies to see which company is better.

Data Exploration

- total 5 cvs files: Cabdata, ID of customers, ID of transaction, City, US holidays.
- total 20 variables: date, city, population, age, payment mode, etc.
- number of observations: 359392

Year vs. profit in each company

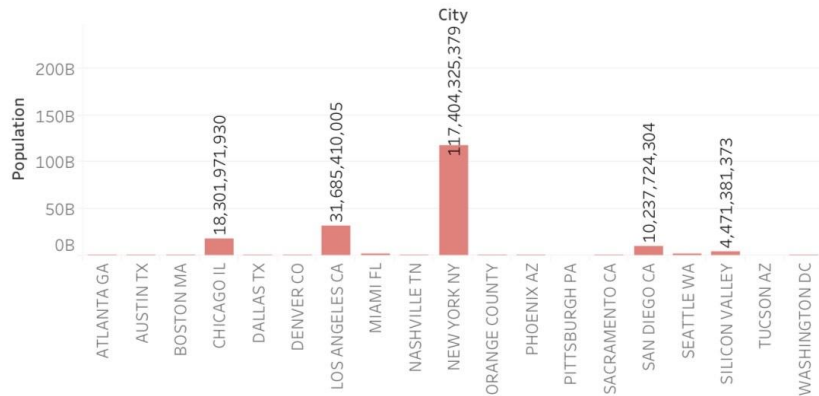
Sheet 1



- both companies have the best profits in 2017
- Compare the two companies' profits in 2016, 2017, 2018:
- Yellow Cab has profits 8 to 10 times bigger than Pink Cab's profits.

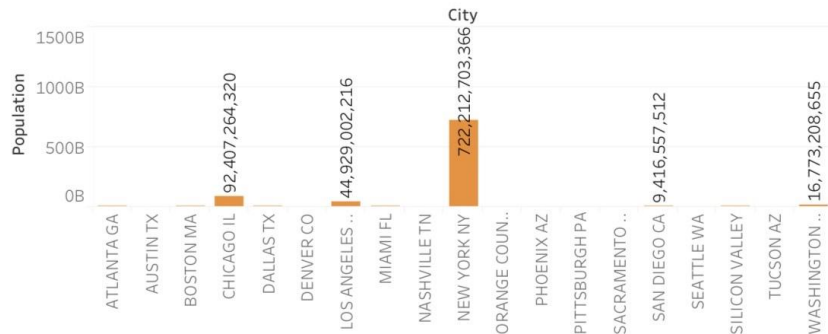
City vs. Population

city vs population (pink cab)



- This plot is showing each city activated customers base on each company.
- from the pink cab's plot, we can see the top 5 activated cities during 2016-2018 were: Chicago, Los Angeles, New York, San Diego, Silicon Valley

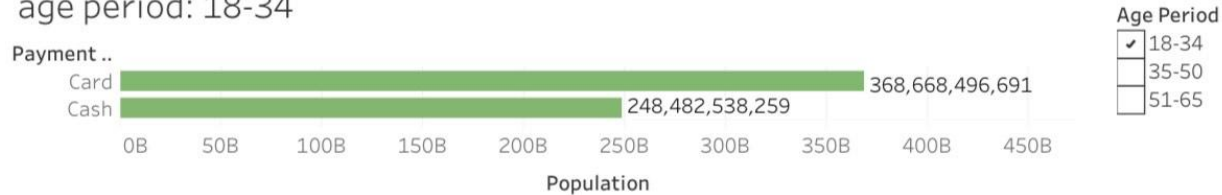
yellow cab



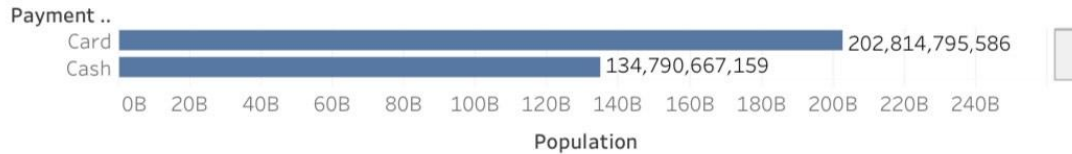
- from the yellow cab's plot, we can see the top 5 activated cities during 2016-2018 were: Chicago, Los Angeles, New York, San Diego, Washington

payment method vs population within different age periods

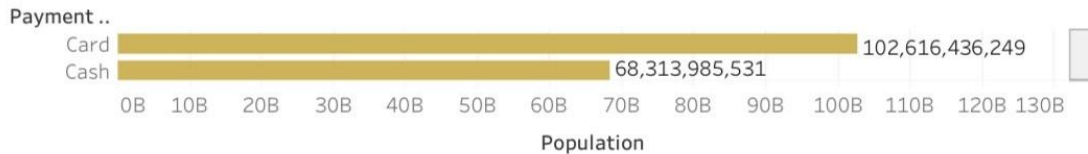
age period: 18-34



35-50

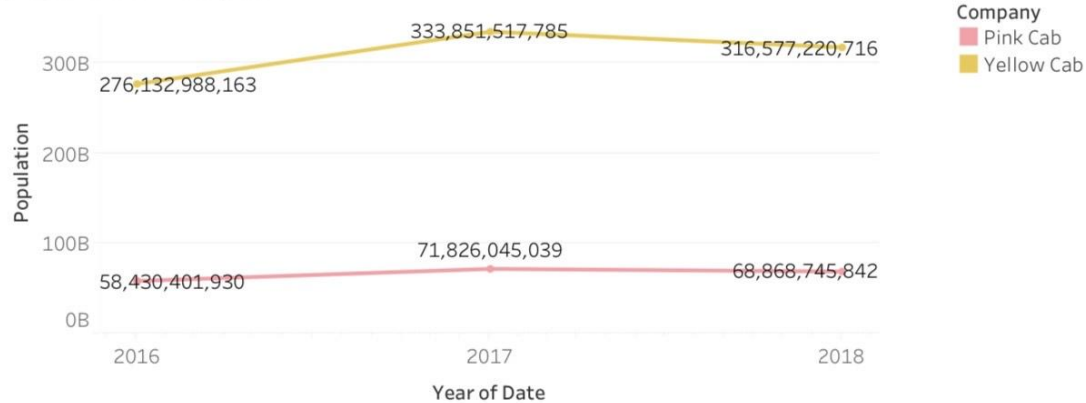


51-65

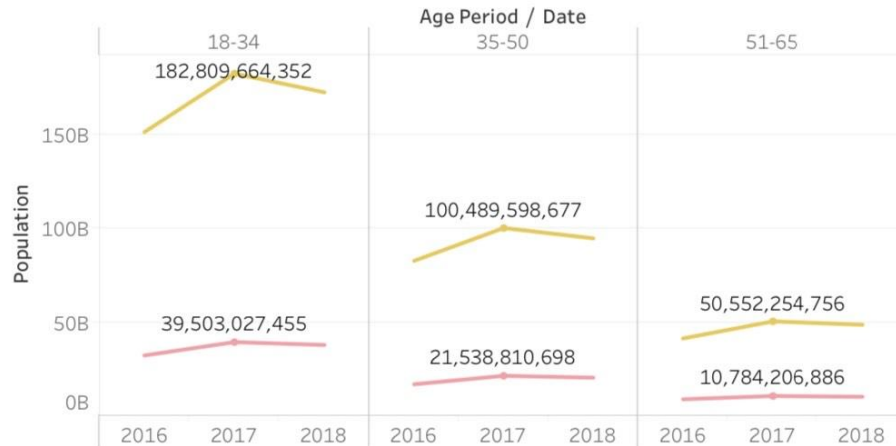


- From the plot we can see all 3 age periods all prefer to use card more than cash
- apparently, young people(18-34) use card relatively often comparing to other 2 age periods

population vs.year

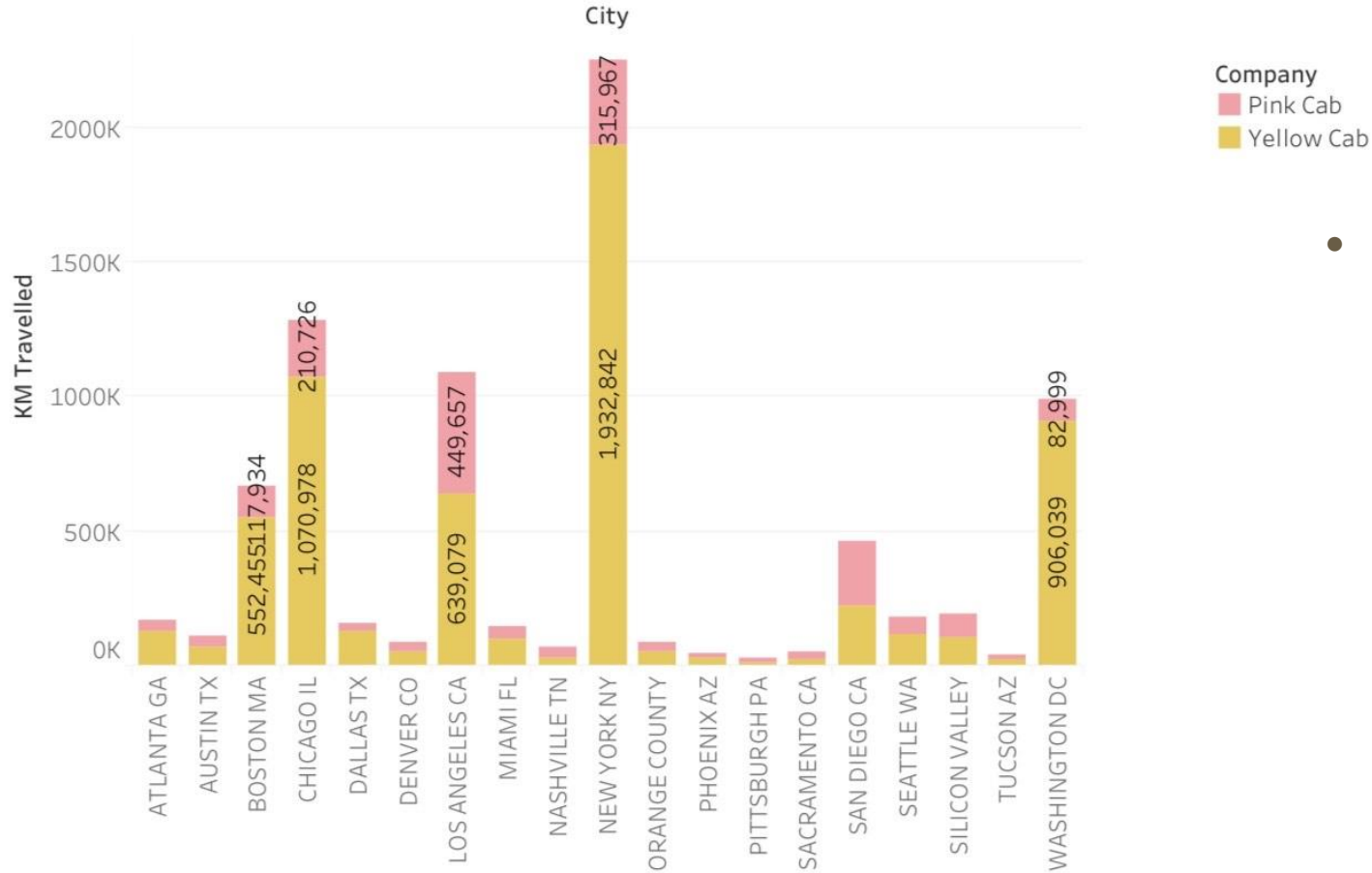


population vs. date within different age periods



- for both companies, the total users were increasing from 2016 to 2017 and were decreasing from 2017 to 2018
- the fluctuation of pink cab total customers from 2016 to 2018 is smaller than Yellow cab.

City vs. KM Travelled



- New York, Los Angeles, Chicago and Boston have bigger accumulated travelled KM than other cities.

- Company should be aware of the fluctuation of yellow cab total users. Maybe can make a questionnaire survey to see the satisfied level of how customers think about the Yellow cab service.
- the total users of Yellow cab are 8-10 times bigger than Pink cab.
- base on travelled KM, population, Citie with high user activity are: Los Angeles, Washington, New York, Chicago. Company can focus on maintaining the users on these city. (discount, coupon, etc.)
- the most important we should focus on is the profit part, the data shows that Yellow cab has larger profit than Pink cab
- overall, XYZ should invest Yellow cab since it has larger user base and makes better profits.