# Design Marketing strategy for Divvy bike in Chicago

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# Understanding the data problem

#### Dataset

Lack demographic information of customer:
Gender, age, register date, userID

# => For user types, assume Divvy dataset only divide users into 3 clusters: Single ride/Pass Day and Annual Membership

#### Dataset

- Many null results of start and end station name/id
- End time > start time

- => Exclude NULL results of start and end stations
- => Exclude result trip duration < 0

# **Understanding Divvy**

# Target audience

Currently, Divvy use demographic segmentation for positioning product and targeting a customers.

- Single ride
- Pass day
- Annual membership/Divvy for everyone/University membership/Divvy for Business

# Divvy service

## Single ride

- \$1 to unlock (for ebike)
- \$0.39/min for the duration of a ride

## Pass day

- \$15/Day
- Unlimited 3-hour classic bike rides
- an extra \$0.16/min (>3h) to keep the same bike

## Annual membership

- \$10/month, \$119/annually
- Unlimited 45-min classic bike rides
- An extra \$0.16/min after 45'
- \$0 unlock, extra \$0.16/min during a ride (ebike)
- Speed up with over 50% off ebikes

## Single ride

- => Main target customer in this project
  - Single Ride is designed for spontaneous one-way trips/ 1st

#### Assumption

Casual take a ride < 30 to ensure fee < \$15</li>

## Pass day

- => 2nd target customer in the project
  - Currently, Pass Day targets tourists

#### Assumption

Some locals riding bikes
 occasionally also use Pass Day to
 travel Chicago destination
 (healthy, saving, convenient)

# **Questions?**

- How 2 user types changes over times (in hour, weekday, month)?

- How many casuals take a ride more than 30'

- How many casuals/members take a ride in 45' - 3h?

- How bike types change over time and user types?

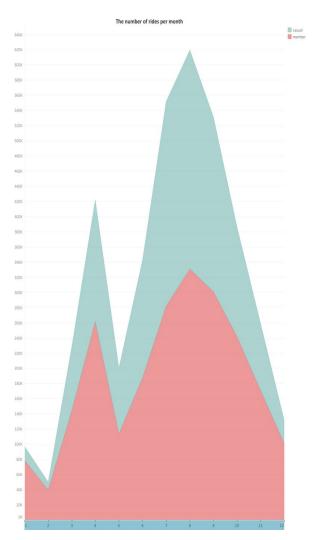
- What are the popular routes of 2 user types?

# Divvy customers' behavior in 1 year period

Check Dashboard here

# How 2 user types changes over months

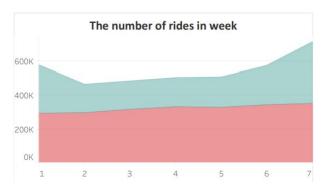
- Ride distribution in monthly basic
  - + #rides gradually increase from June to August and decrease after that
  - + April is higher that might be dataset count April in 2 years (2020, 2021) and other months count once
  - + April, high school reopen after 13 months
- -> Assumption: Weather (temperature, wind, humidity) and Government policy in COVID19 highly influences #rides
  - + #ride trend btw 2 users are similar, bigger effect on casual types

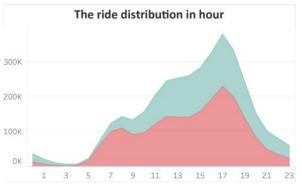


# How 2 user types changes over times in week and hour

#### - Ride distribution in weekday

- No significant change about #ride of members in weekday and weekend (weekday > weekend)
- + A big difference in Friday and weekend about #ride of casual
- + 15 17h is the favorite hour for going outsides in Weekend





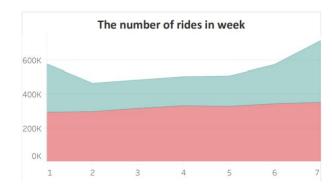
# How 2 user types changes over times (in month, week, hour)?

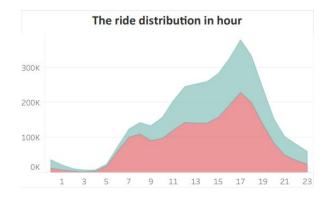
#### Members users

- + #ride > 20000 in 5-8am and 15-19h in weekday (rush hours)
- + #ride is high in weekday in 12-16h
- Members have riding in the evening in Friday and Thursday
- => Assumption: riding habit/back home late after work

#### Casual users

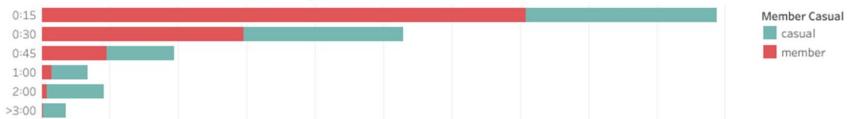
- #rides in weekend are much higher than weekday (10am - 6pm)
- -> assumption: main purpose of using service is visiting Chicago
  - + In weekday, 17-18h has higher #ride ~ other hours
  - + Saturday evening (19-23h), casuals take ride higher than other days in week
  - => Assumption: riding habit





## How many casuals take a ride less than 30'





#### Member users

- + Almost take a ride with less than 30'
- + Reduce from 45' to long time
- + Only > 5000 rides with >3 hours

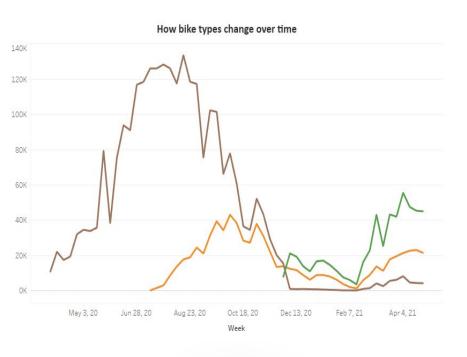
=> Assumption: Members use service for daily activities (works, habit,...)

#### Casual users

- + The majority take a ride with less than 30'
- + #rides > 1h is much higher than members
- + > 66000 rides with > 3 hours

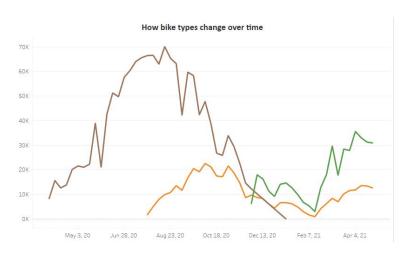
=> Assumption: Pass Day is popular with casuals

# How bike types change over time and user types?



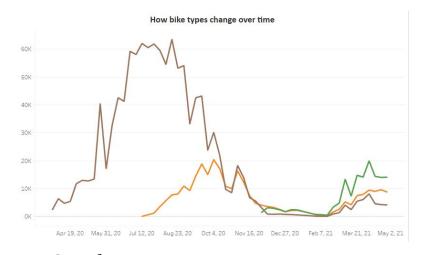
- Docked bike was the primary choice since 12/7 (electric bike launch) and 29/11 (classic bike launch)
- -> The choice of docked bike decrease significantly
- Electric bike is popular in 16/8 22/11 then it is replaced by classic bike

# How bike types change over time and user types?



#### Member users

- + 10/1/2021, members has not used docked bike -> classic + electric
- + Classic bike is a priority choice after 7/2/2021



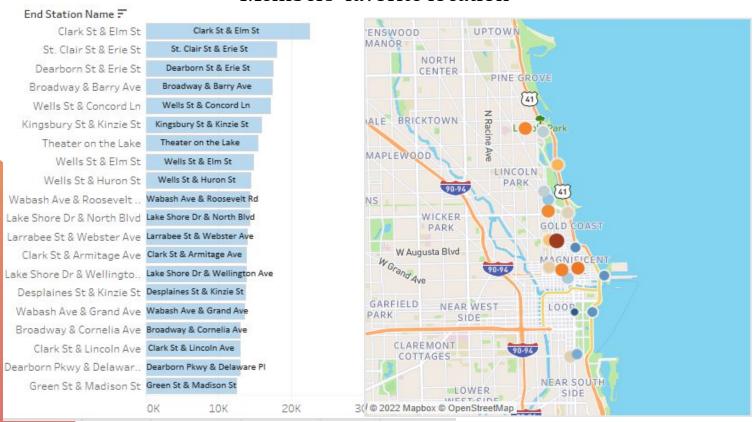
#### Casual users

- + Due to Gov policy + weather, total rides of casual were much lower and increased since 14/2
- + Priority choice: classic, electric, docked

Assumption: Divvy aimed to increase classic + electric bike due to #bike choice + website

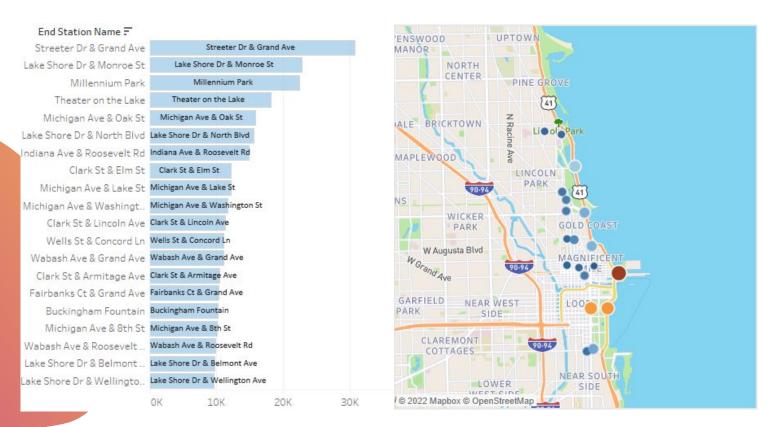
## What are the popular destination for both users?

#### Members' favorite location



## What are the popular destination for both users?

#### Casuals' favorite location



# Marketing Strategy and tactics to convert casual to annual membership

# **Assumptions**

## Assumption 1

- Without restriction of Government (COVID19)
- Exclude University and Business membership
- Casual users use Divvy for riding habit in the evening and going to grocery store

#### Assumption 2

- Without restriction of Government (COVID19)
- Exclude University and Business membership
- Local casual users buy Pass Day to visit Chicago

## Campaign

**WE CARE** 

Your Pocket

Your Health

Your Network

# Rationale

#### Assumption 1 (high #ride in the evening)

- Casuals want to look sporty and care about health
- Casuals see Divvy convenient for short rides, speed (compared to bus/car), reasonable price (compared to car)
- Casual thinks they dont use bike as much as to buy annual membership vs actual spend more
- => Release report about distance, riding time, expense, common visiting places,... weekly

#### Assumption 2 (high #ride in the evening, weekend)

- Casuals find leisure, balance after work but just occasional (after burning out)
- Casuals want to connect with friends, create new network (high #ride in weekend),
   just occasional
- Because of occasional rides, annual membership might not be suitable with them
- => Suggest interesting place, traveling tips, mental caring, expand stations,... help casuals engaged with Chicago and take care physical and mental health

# Strategy

Segmentation	<ul> <li>Demography: 20 - 50 years old</li> <li>Geography: Current stations</li> <li>Behavior: ride for health,</li> <li>Psychology: Create new network, find healthy and balance after work</li> </ul>
Targeting	Mass Marketing
Positioning	Friendly, Connected, Greeny

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# Designing Marketing Experiment

# **Experiment design**

#### Buyer persona

- Demography:
- + 20 50 years old
- + Homemakers
- + White labors
- Geography: Current stations
- Behavior: ride for health,
- Psychology: Create new network, find healthy and balance after work

#### Communication channel

- TV -> homemakers
- Web -> White labors (finds balance after a long-time working in the office)
- billboard -> casual (spotlight and butterfly effect)

# A before-after design experiment

#### Variable

- The independent variable: the advertising budget.
- The dependent variable
- + %increase of new customers
- + %increase in #ride of old customers
- + %increase of sales

#### Market

- The control market: North West community
- The experiment: South community

(The test and control markets were chosen as they were an expanded area of Divvy in 2021)

#### Duration

In 3 months

- Before: May - June

- Experiment: July - September

As 2020 stat, October is the month having the highest #rides

-> the successful before-after campaign will support sales in October.

# **Anticipate issues**

## Not typical results

The before and after experiments are during peak traveling season

-> not apply for the winter season

(#ride in winter << season peak)

## Budget change

Due to financial disruption of company

#### New trends

- New transportation trends (scooter, car, skate,...)
- New pandemic
- Change in Government support

#### Post-COVID19

Unexpected change in customer behaviors



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