











Starbucks Objectives:

Prototype a Spring breakfast menu in a few stores in New York City

- a. optimize preparation and serving processes
- b. gather feedback about products and services





Starbucks Objectives:

Prototype a Spring breakfast menu in a few stores in NYC

- a. optimize preparation and serving processes
- b. gather feedback about products and services

BDS Outreach Goals:

Get customers in stores
Get customers to try the new products
Get customers to give feedback





Initial Solution Constraints:

Prototype processes in a few stores





Initial Solution Constraints:

Prototype processes in a few stores

Look for new customers with spontaneous foot traffic





BDS Outreach Goals:

Get customers in stores
Get customers to try the new products
Get customers to give feedback

Initial Solution Constraints:

Prototype processes in a few stores Look for new customers with spontaneous foot traffic





BDS Outreach Goals:

Get customers in stores
Get customers to try the new products
Get customers to give feedback

Questions:

Which locations to focus on? Why? What should the outreach look like? Can we limit the outreach?



Initial Solution Constraints:

Prototype processes in a few stores Look for new customers with spontaneous foot traffic



BDS Outreach Goals:

Get customers in stores
Get customers to try the new products
Get customers to give feedback

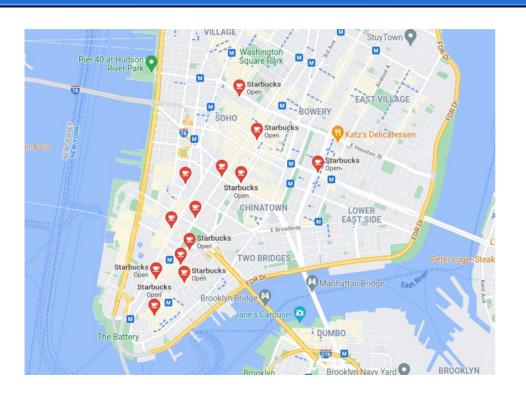
Initial Solution Constraints:

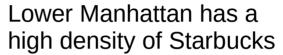
Prototype processes in a few stores Look for new customers with spontaneous foot traffic

Problem statement:

We will use data to choose locations and design outreach model for Starbucks Breakfast menu prototype in NYC.



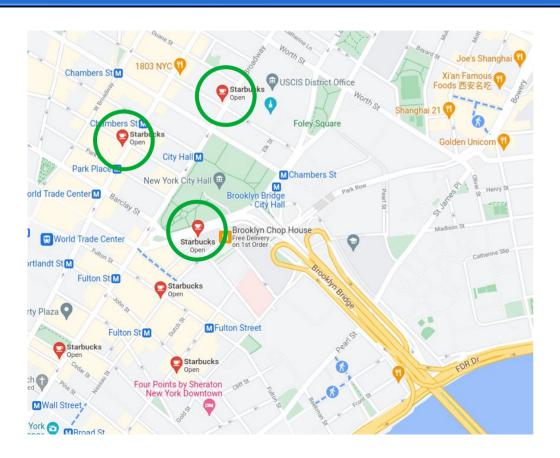




High potential to have focused outreach at only a few stations

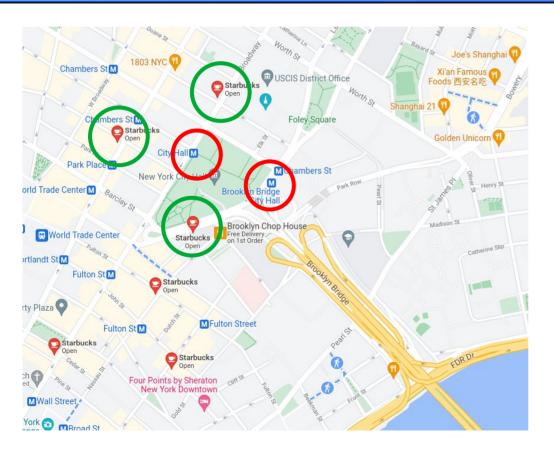
High potential to reach folks from many burrows of NYC (e.g. x-town traffic)





Choose these three Starbucks





Choose these three Starbucks

Choose these stations (after some exploration)



City Hall Brooklyn Bridge



Next Questions:

When (exactly) and How should the outreach happen?



Next Questions:

When (exactly) and How should the outreach happen?

Exploratory data analysis of MTA data will present some constraints and inspiration on how to proceed.



Data:

MTA Turnstile Data – MTA ridership

http://web.mta.info/developers/turnstile.html

Google Maps – location of MTA stops, street views, and Starbucks



Tools:

Ubuntu 20.04 – Operating system

DB browser for SQLite3 – initial data browsing and ideation

Python – for analysis and visualization numpy
Pandas
Matplotlib

Data:

MTA Turnstile Data – MTA ridership

http://web.mta.info/developers/turnstile.html

Google Maps – location of MTA stops, street views, and Starbucks



Description of relevant data:

April data from 2015-2019 4-hourly turnstile entries and exits MTA Line MTA Station



pixabay.com



Description of relevant data:

April data from 2015-2019
4-hourly turnstile entries and exits
MTA Line
MTA Station

Also available: SCP, UNIT, Control Area (C/A)



pixabay.com

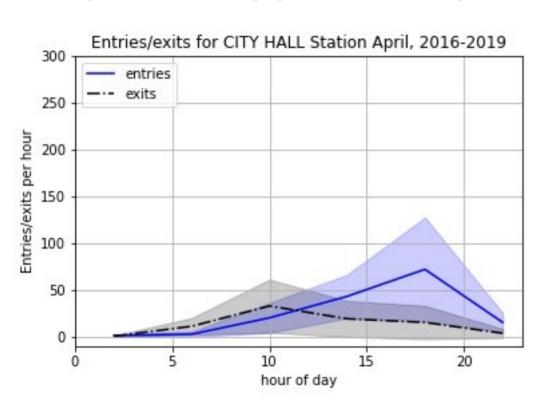
City Hall MTA Stop (Lines = NRW, R):



maps.google.com



City Hall MTA Stop (Lines = NRW, R):



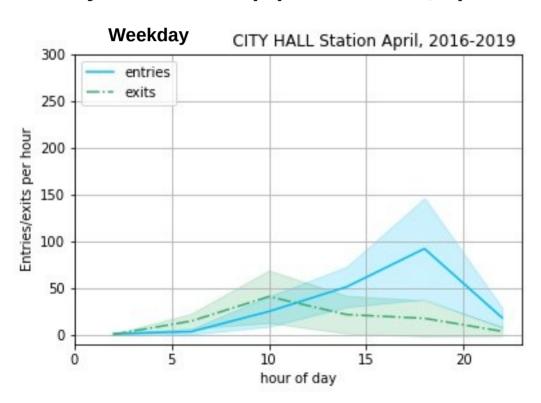


maps.google.com

more entries than exits at this stop



City Hall MTA Stop (Lines = NRW, R):



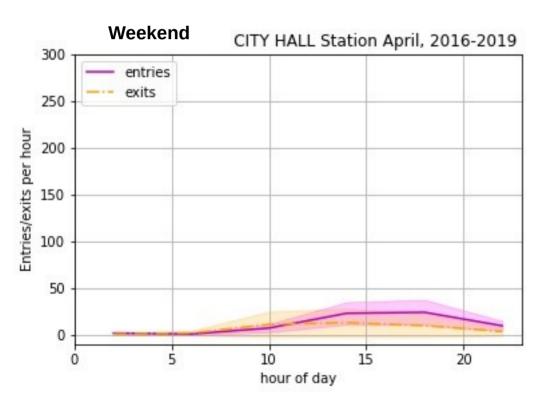


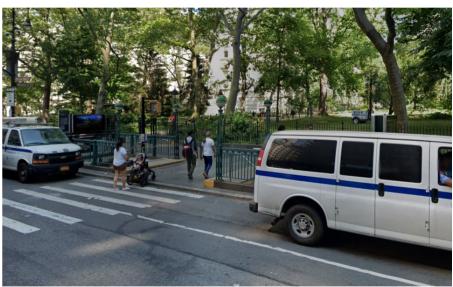
maps.google.com

Weekday exits peak in the morning Although central, not a high flow rate



City Hall MTA Stop (Lines = NRW, R):



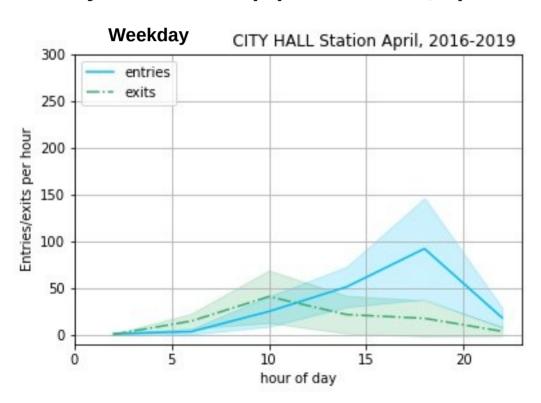


maps.google.com

Very low flow rate during weekends Peaks in late morning/afternoon



City Hall MTA Stop (Lines = NRW, R):



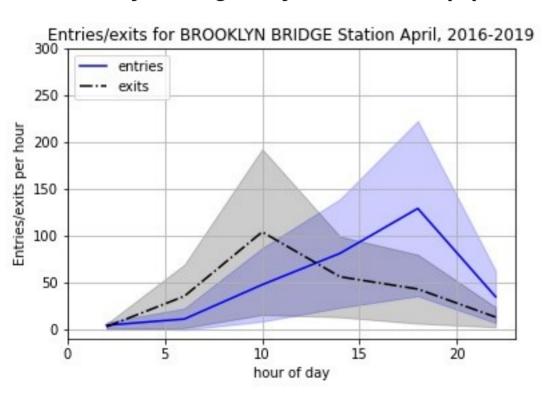


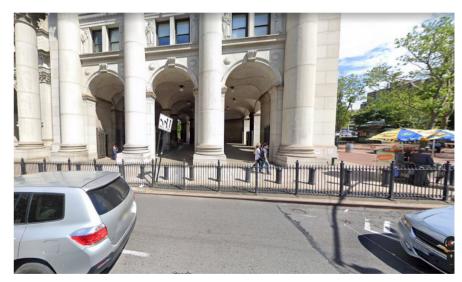
maps.google.com

Weekday exits peak in the morning Although central, not a high flow rate

G III

Brooklyn Bridge-City Hall MTA Stop (Lines = 456JZ):



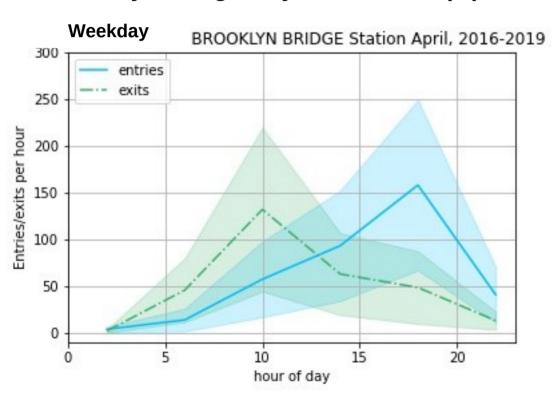


maps.google.com

Exits peak in the morning



Brooklyn Bridge-City Hall MTA Stop (Lines = 456JZ):



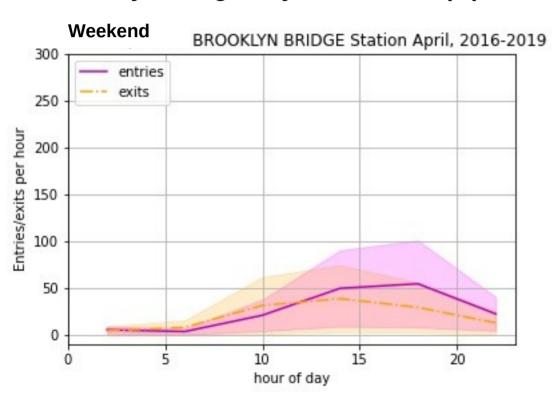


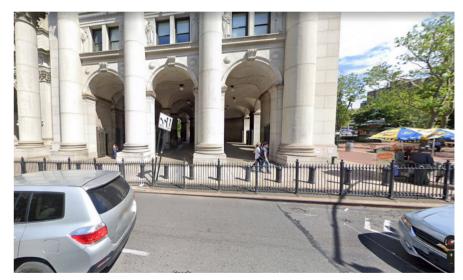
maps.google.com

Exits peak in the morning



Brooklyn Bridge-City Hall MTA Stop (Lines = 456JZ):





maps.google.com

Low flow rate on the weekends Exits peak in the late morning/afternoon



Recommendations for outreach model:

Data indicate a peak in morning exits
Data indicate high weekday traffic
Data indicate low weekend traffic

Recommendations for outreach model:

Data indicate a peak in morning exits

Data indicate high weekday traffic

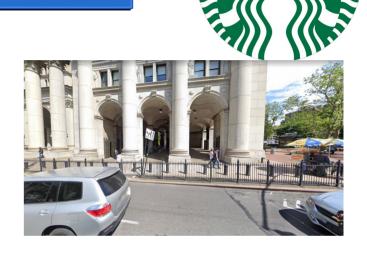
Data indicate low weekend traffic



pinterest.com



ny.curbed.com

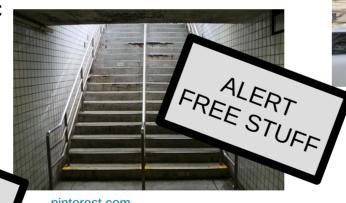


Recommendations for outreach model:

Data indicate a peak in morning exits

Data indicate high weekday traffic

Data indicate low weekend traffic



pinterest.com

Focusing on exit traffic will mitigate nuisance advertizing sentiment

FREE STUFF (e.g. 8 oz drip 5\$ QR Code for focus SBs)

ny.curbed.com

Questions/Comments?









Recommendations for outreach model:

Giveaway to entice new users to enter store and experience new products

Inside station posted signs alerting riders to expect free stuff as they surface.

Streetside, have tables to give away free 8oz drip with a QR code 5\$ credit for the three Starbucks stores.

Deployment only during the morning commute (8 am – 12 pm, weekdays).

Rationale:

(New) customers (w/ incentives) are more likely to be open to new experiences and give feedback.

Stations chosen have (relatively) high exit traffic in the morning.

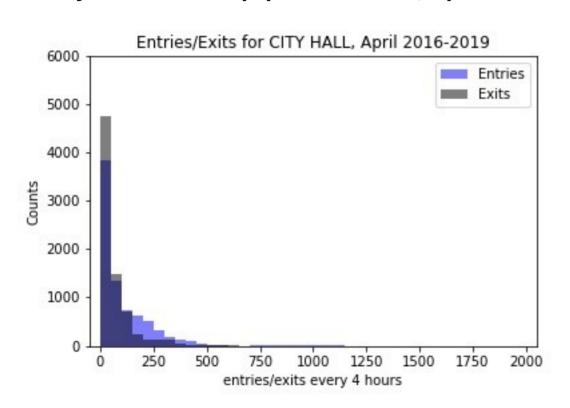
Alert-giveaway model mitigates disruption to traffic flow, which is variable (but often high).

Stations are chosen for complimentary MTA Line (i.e. demographic) coverage

Weekend traffic is low and shifted towards afternoons.



City Hall MTA Stop (Lines = NRW, R):



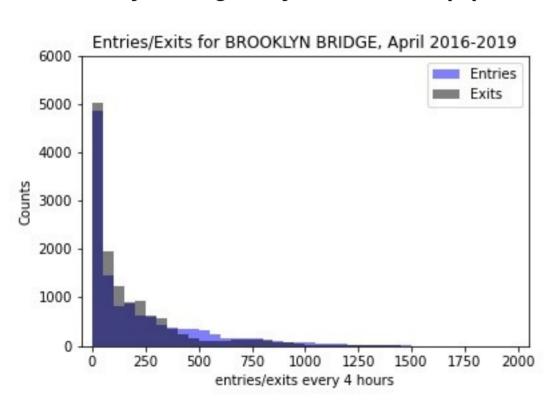


naps.google.com

more entries than exits at this stop



Brooklyn Bridge-City Hall MTA Stop (Lines = 456JZ):





maps.google.com

Higher flow rate than city hall