



# Lily Goldwasser

# Agenda

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## Project Objective:

Use data analytics to provide NYC DOHMH with insight into MTA's busiest stations to anticipate Spring 2022 trends

# Overview

## Client

NYC Department of Public Health

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## Key Deliverables

Identify the busiest stations, busiest days of the week, and busiest overall weeks, and clinic names nearest to the top 3 busiest stations

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## Purpose

Help client prepare for Spring 2022 resource demands by looking at data from March - June 2021.

# Methods & Tools

02

## Data Used

- MTA turnstile data from March - June 2021, 4 pm - 8 pm Monday - Friday.
- NYC OpenData: NYC DOHMH

## Data Integration & Storage

- Pandas
- SQLite

## Project Timeline

- Python libraries (Pandas, Numpy)
- Removed extraneous data, reversed counters

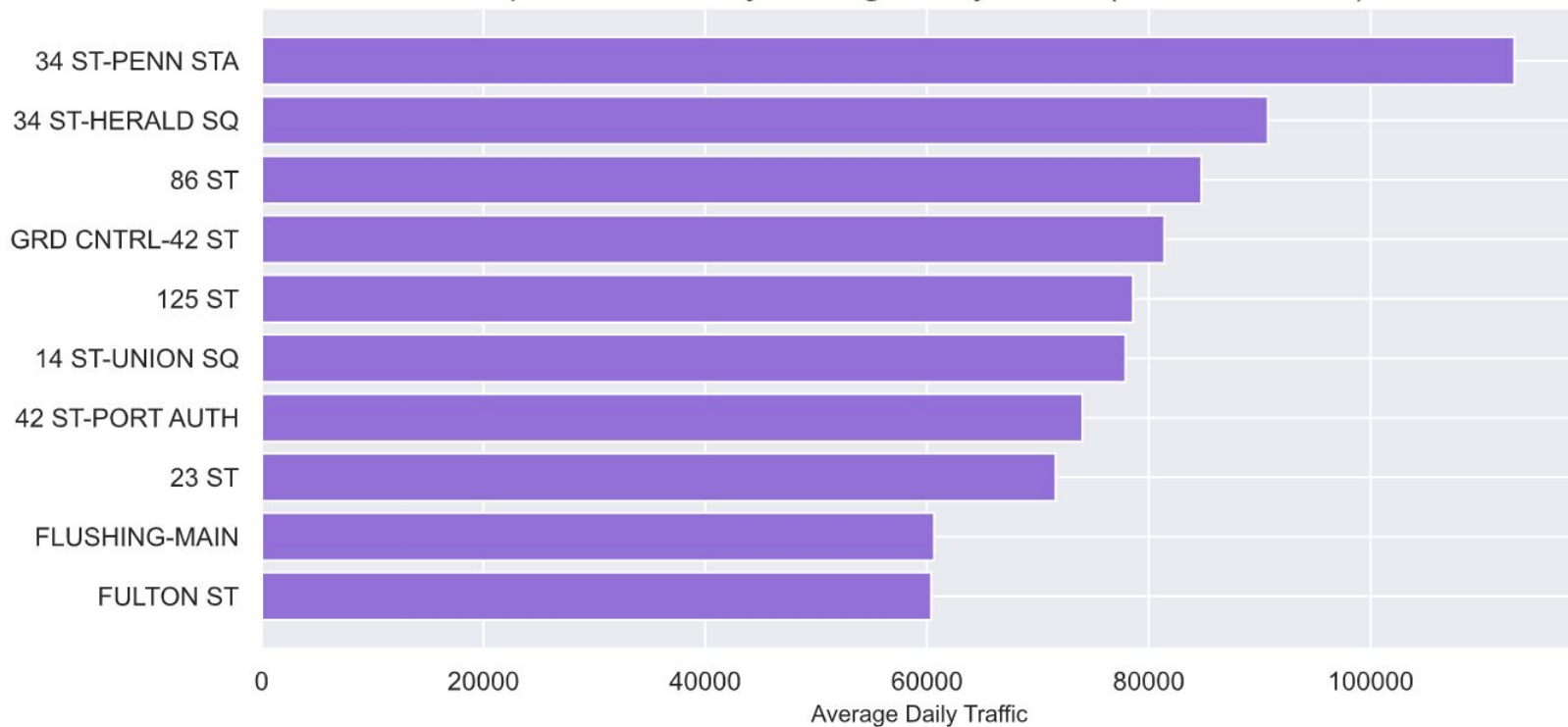
## Presentation Tools

- Python libraries (Matplotlib, Seaborn, Geopy)
- Google Sheets (Geocode)

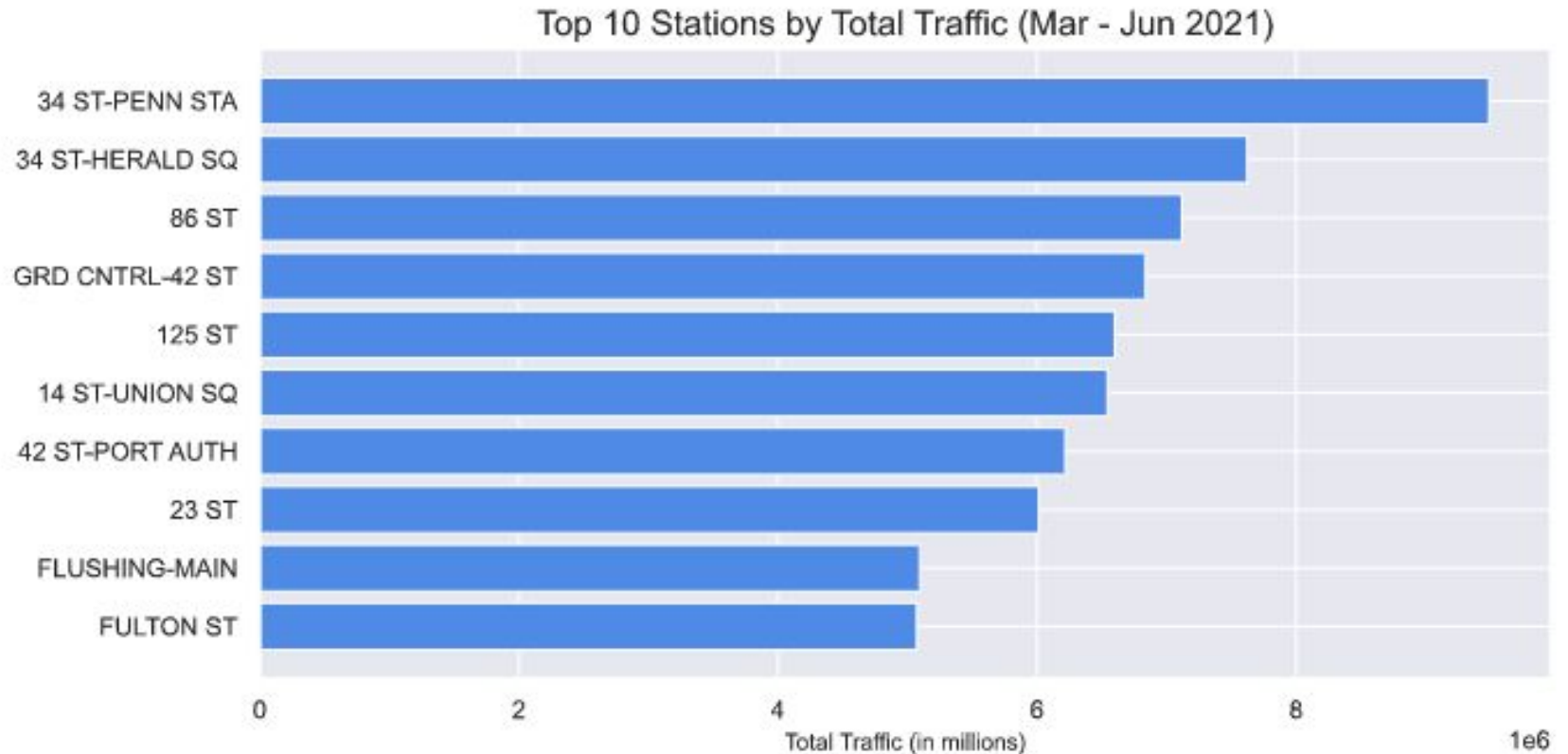


# Average Daily Traffic

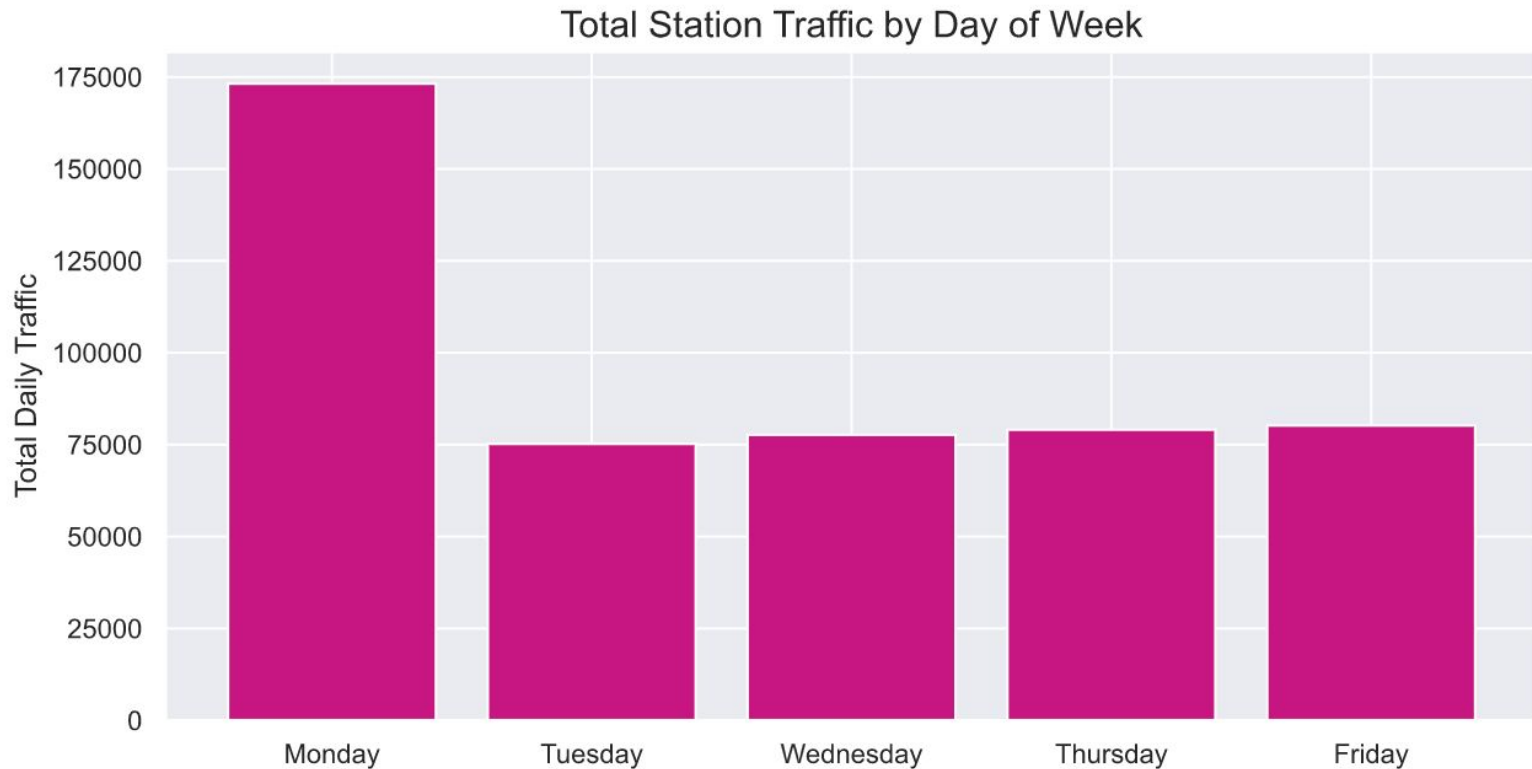
Top 10 Stations by Average Daily Traffic (Mar - Jun 2021)



# Total Traffic



# Busiest Day of Week





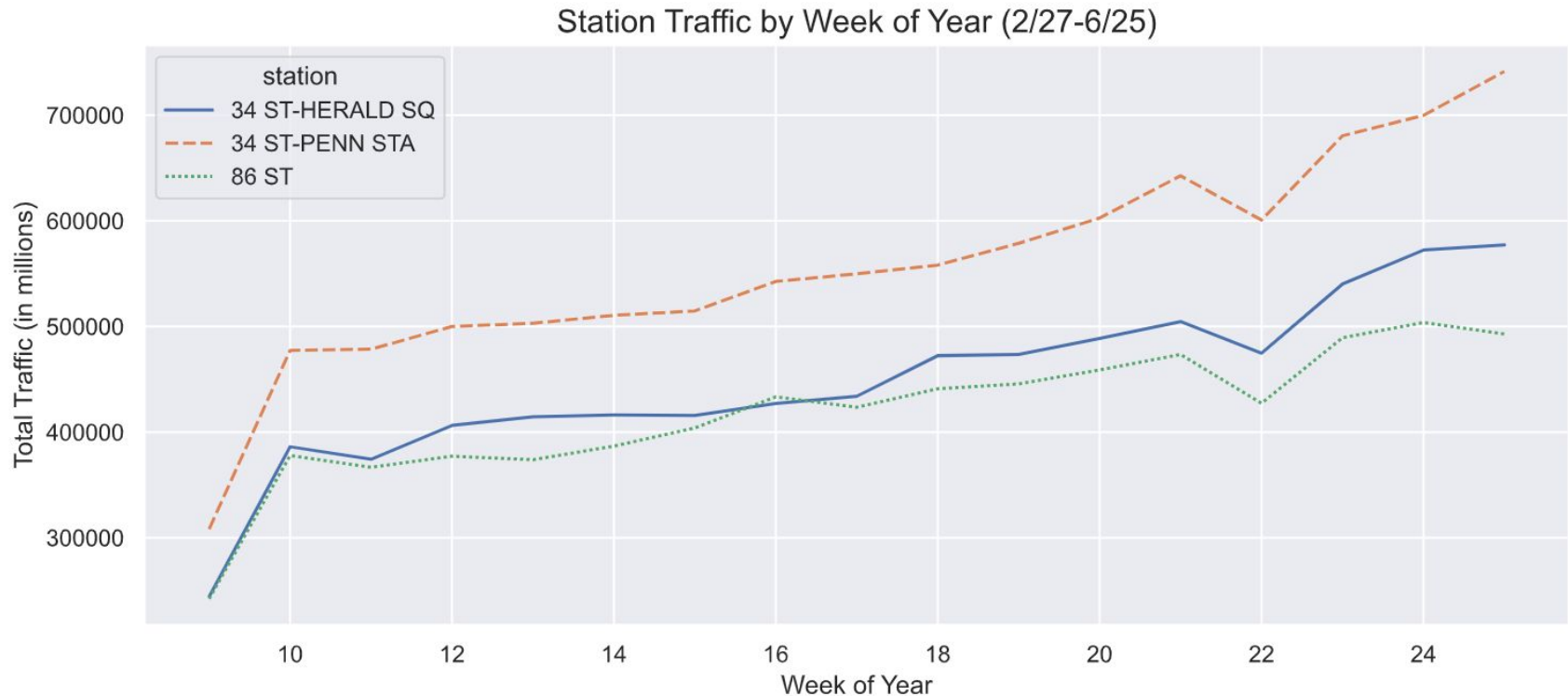
## Top 3 Stations

34 ST-PENN STA

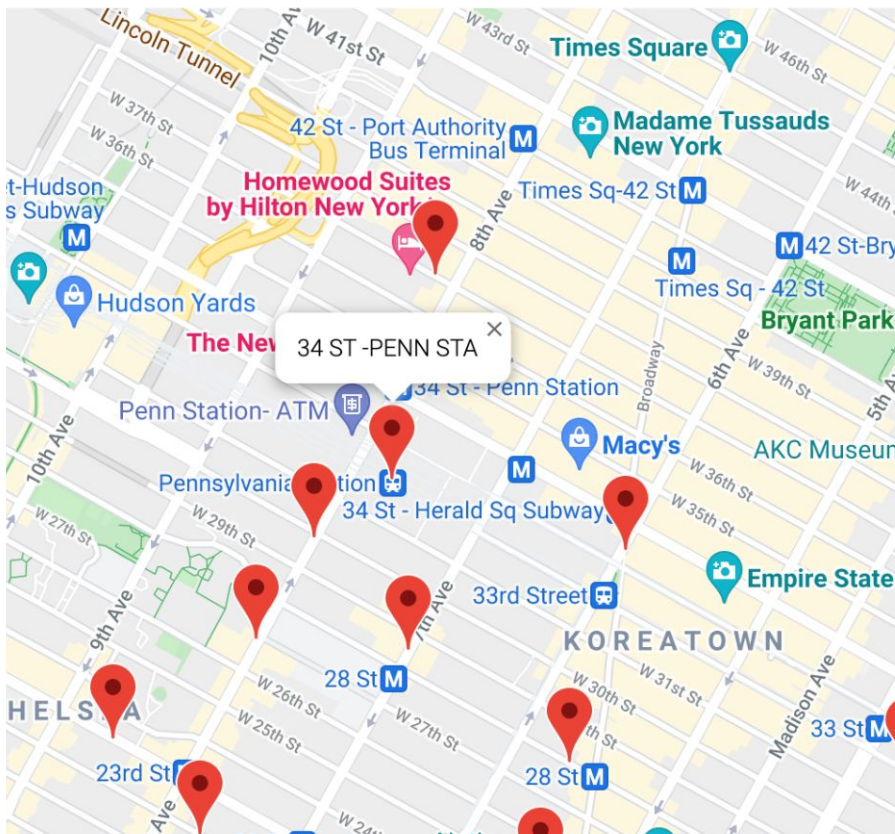
34 ST-HERALD SQ

86 ST

# Weekly Spring Traffic Trends



# Clinics closest to 34 ST -PENN STA

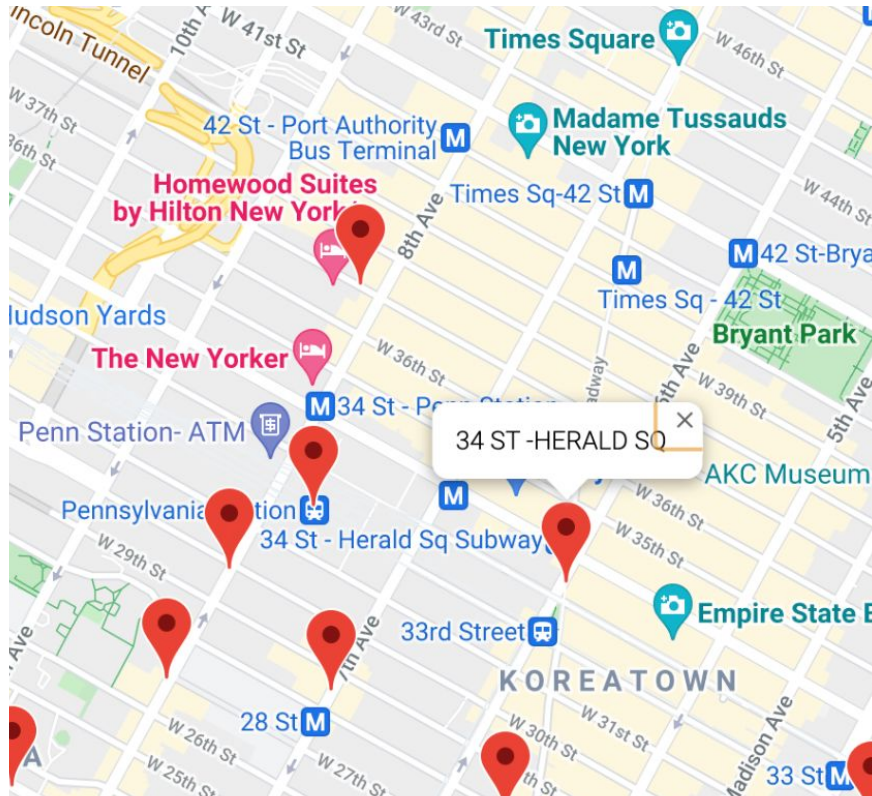


HASA Center #24 Amsterdam

Oasis Latino LGBTQS Wellness Center

Housing Works Positive Health Project

# Clinics closest to 34 ST - HERALD SQ

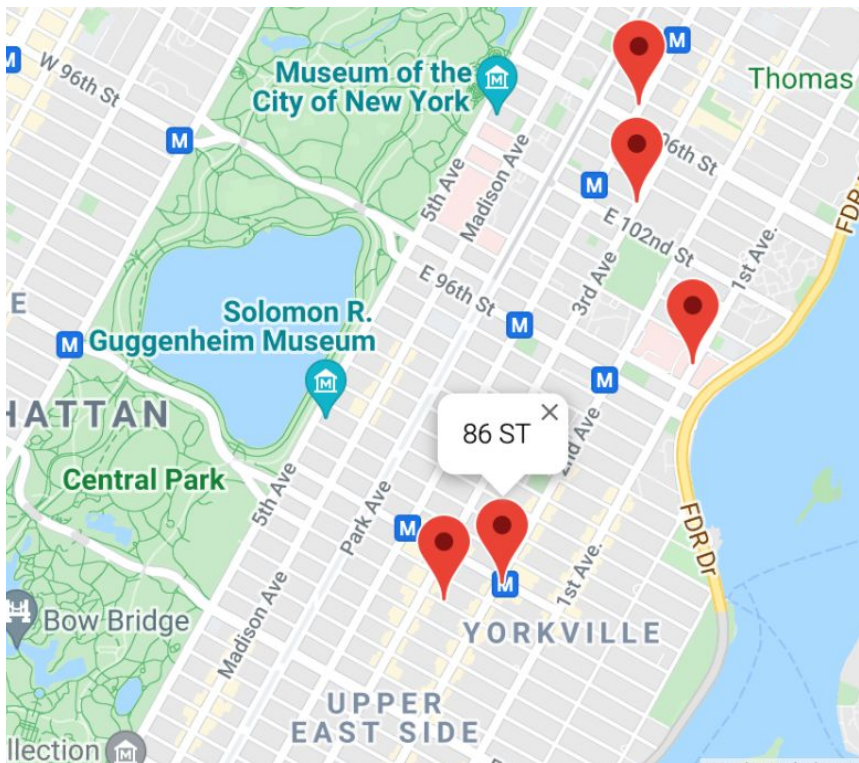


A&J LINGERIE

Oasis Latino LGBTQ Wellness Center

Housing Works Positive Health Project

# Clinics closest to 86 ST



Brandy's Piano Bar

Metropolitan Medical Center Primary  
Care Facility

Blake Pharmacy

# Conclusions

## When:

### **DAY OF WEEK**

Anticipate the most traffic in 2022 on Mondays

### **WEEKS OF YEAR:**

Anticipate the most Spring traffic in weeks 23-25 of 2022 (June 6 - June 25)

04

## Where:

### **86 ST**

Brandy's Piano Bar  
Metropolitan Medical Center Primary Care Facility  
Blake Pharmacy

### **34 ST PENN STA**

HASA Center #24 Amsterdam  
Oasis Latino LBGTBS Wellness Center  
Housing Works Positive Health Project

### **34 ST HERALD SQ**

A&J LINGERIE  
Oasis Latino LBGTBS Wellness Center  
Housing Works Positive Health Project



# Future Work



Top Stations per  
Borough

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Seasonal traffic

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Later hours/  
weekends

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# Appendix

## Photos

- <https://stackoverflow.com/questions/27607092/get-city-state-country-from-latitude-and-longitude-in-google-sheets>
- [https://app.awesome-table.com/-MtM9YScH8ozcpJj\\_SbJ/view](https://app.awesome-table.com/-MtM9YScH8ozcpJj_SbJ/view)
- <https://data.cityofnewyork.us/Health/NYC-Condom-Availability-Program-HIV-condom-distrib/4kpn-sezh>



# Thanks!

CREDITS: This presentation template was created by Slidesgo, including icons by Flaticon, and infographics & images by Freepik