Project Benson

By: An, Evgeniy, Priyanka, Steven

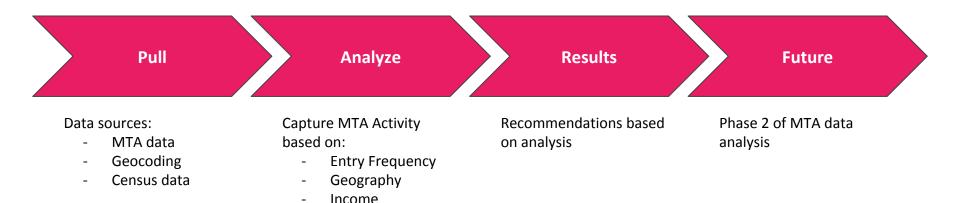
Purpose

To recommend the top MTA stations best suited for soliciting and creating awareness about WTWY Gala by analyzing MTA turnstile data.

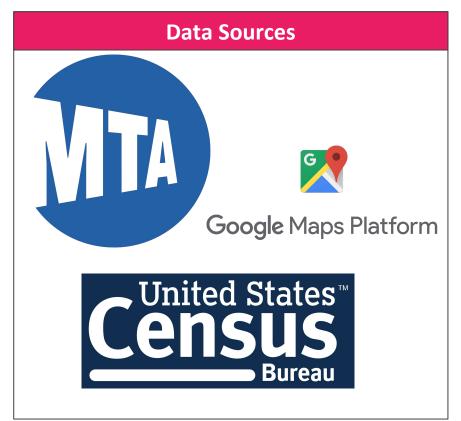


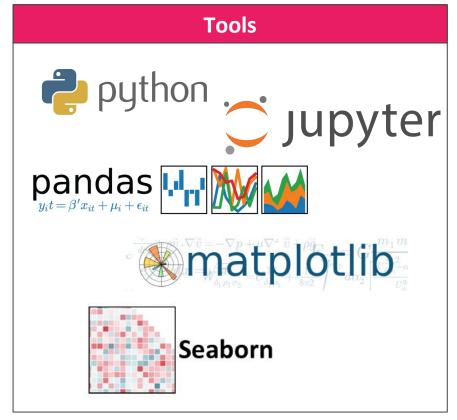
Approach

Investigate 52-weeks of MTA subway data and incorporate census information to consult on placement of street teams at various subway entrances with the goal of reaching out to target audience and maximizing the number of participants at WTWY's gala.

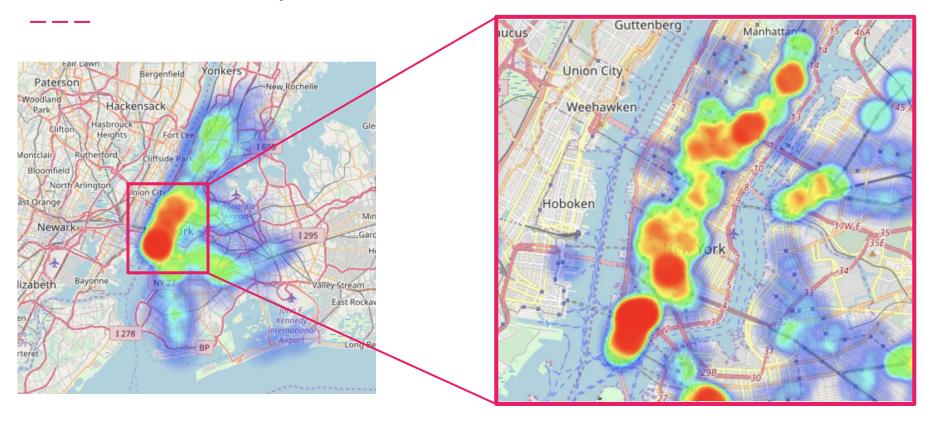


Data Sources, Tools



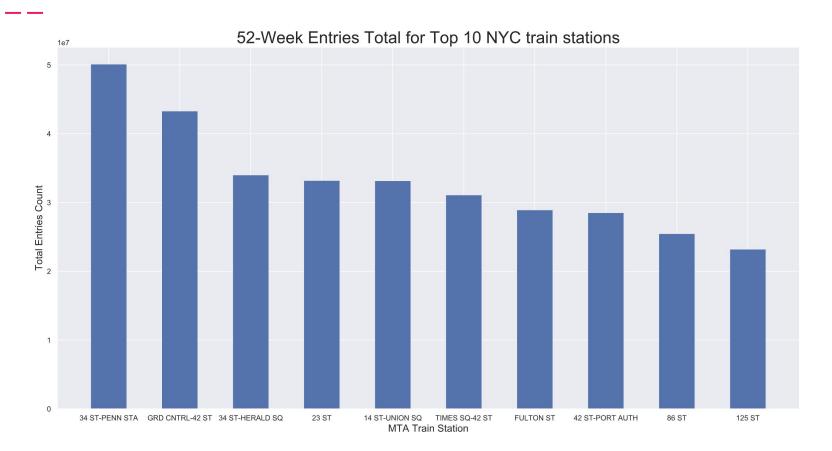


Entries Heatmap



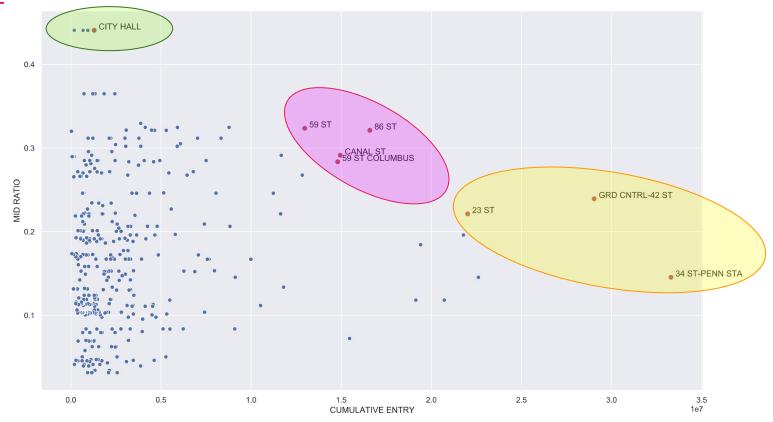
Pull Analyze Results Future

Top 10 Stations





Middle Income Ratio vs. Entry



*Mid ratio is the proportion of \$100k-200k households for the area



Recommendation

Per results, we recommend street team placements at:

- 86th Street
- 59th Street
- Canal Street
- 59th Street Columbus Circle
- 23rd Street
- Grand Central 42nd Street
- 34th Street Penn Station
- City Hall



Next Steps

- Optimal street team sizes and placements relative to resources
- Total station exits
- Identify Tech-centric locations
- Demographic statistics (gender)
- Longitudinal MTA activity

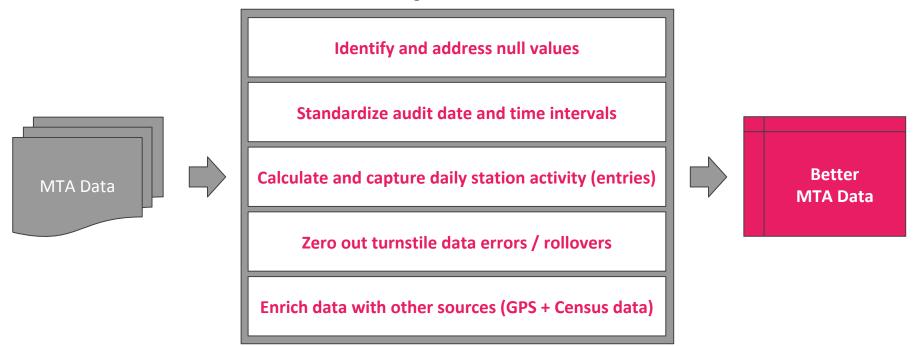
Questions ???

Appendix

Data Cleaning & Wrangling

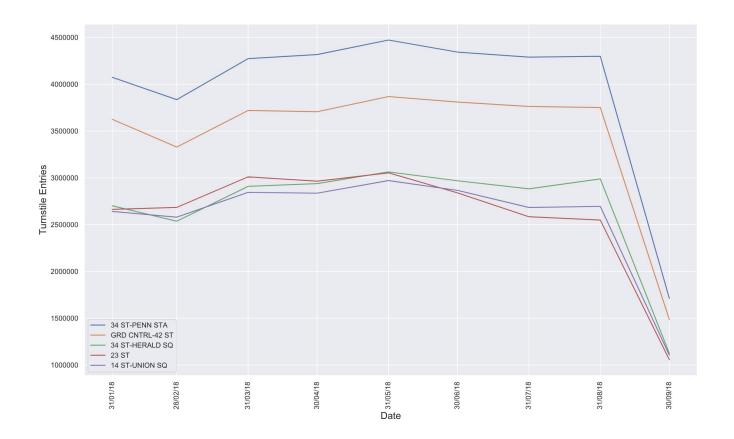
Pull Clean Analyze Results

Data Cleansing & Enrichment Activities



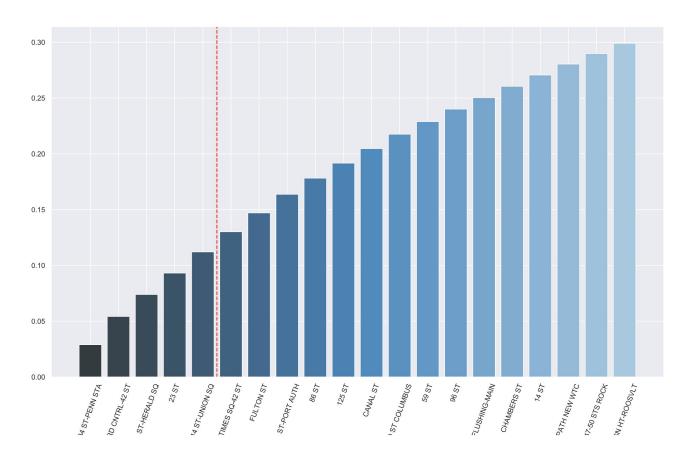
Pull Analyze Results Future

Monthly Trend of busiest stations



Pull Analyze Results Future

Cumulative



Data Dictionary: MTA Turnstile Usage Data

Turnstile Usage Data Data Dictionary

Data Label	DataType	Data Description	Examples
C/A	TEXT	Control Area name/Booth name. This is the internal identification of a booth at a given station.	A002 4 to 5 characters.
		given station.	R001
UNIT	TEXT	Remote unit ID of station	4 characters. A numeric designation preceded by 'R'
SCP	TEXT	Subunit/Channel/position represents a specific address for a given device	01-00-01 Normally six characters in groups of 2 separated by a dash.

Link to Data Dictionary

Link to Github Repo



github.com/RedGeryon/MTA-subway