

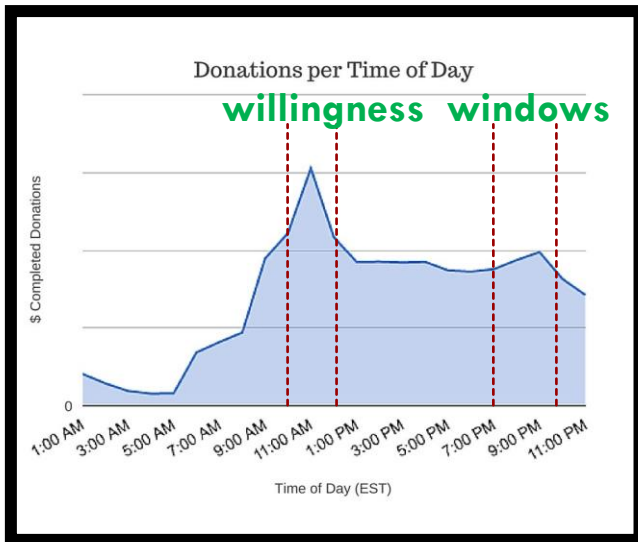
WOMEN TECH WOMEN YES: GALA FUNDRAISING

OPTIMAL STRATEGY FOR STREET TEAMS

TEAM MEMBERS: ALLEN KIM, IAN LIVINGSTON, BAO NGUYEN



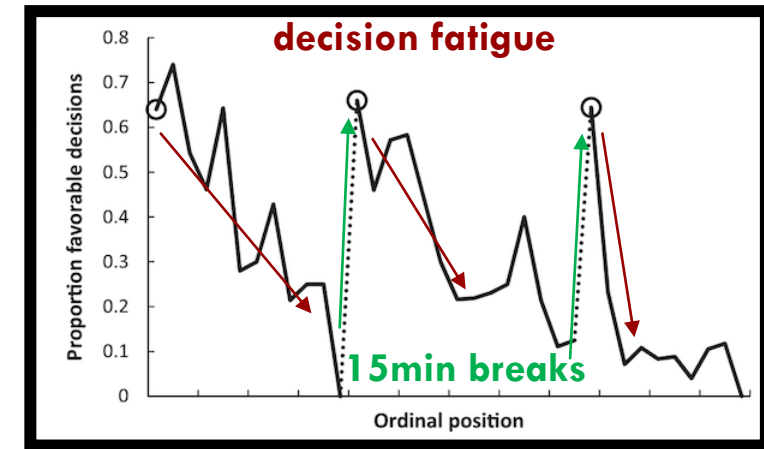
PROJECT: GOODWILL HUNTING



<https://blog.goodworld.me/the-optimal-day-and-time-for-social-media-fundraising-cb8eae3ed515>

TIMING IS EVERYTHING

- The more time we're willing to invest, the more likely our commitments become
- People are more amenable around mealtimes
- Mental fatigue affects favorable decisions



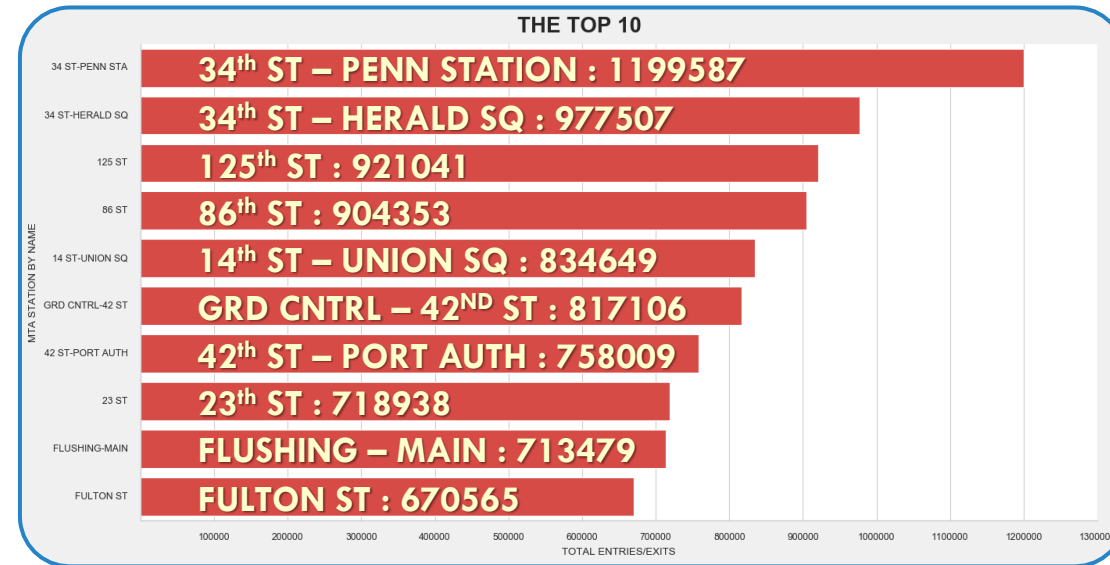
<http://nautil.us/blog/impossibly-hungry-judges>

INITIAL DATA REVIEW

C/A	UNIT	SCP	STATION	LINE	AREA	DATE	TIME	ENTRIES	EXITS	Latitude	Longitude	ZIPCODE	POPULATION	POPULATION_DEN	MEDIAN_INCOME
TRAM2	R469	00-05-01	RIT-ROOSEVELT	R	RIT	9/18/2020	21:00:00	5554	541	43.0844	-77.6749	14623	27173	1424	46149
TRAM2	R469	00-05-01	RIT-ROOSEVELT	R	RIT	9/18/2020	17:00:00	5554	541	43.0844	-77.6749	14623	27173	1424	46149
TRAM2	R469	00-05-01	RIT-ROOSEVELT	R	RIT	9/18/2020	13:00:00	5554	541	43.0844	-77.6749	14623	27173	1424	46149
TRAM2	R469	00-05-01	RIT-ROOSEVELT	R	RIT	9/18/2020	9:00:00	5554	541	43.0844	-77.6749	14623	27173	1424	46149
TRAM2	R469	00-05-01	RIT-ROOSEVELT	R	RIT	9/18/2020	5:00:00	5554	541	43.0844	-77.6749	14623	27173	1424	46149

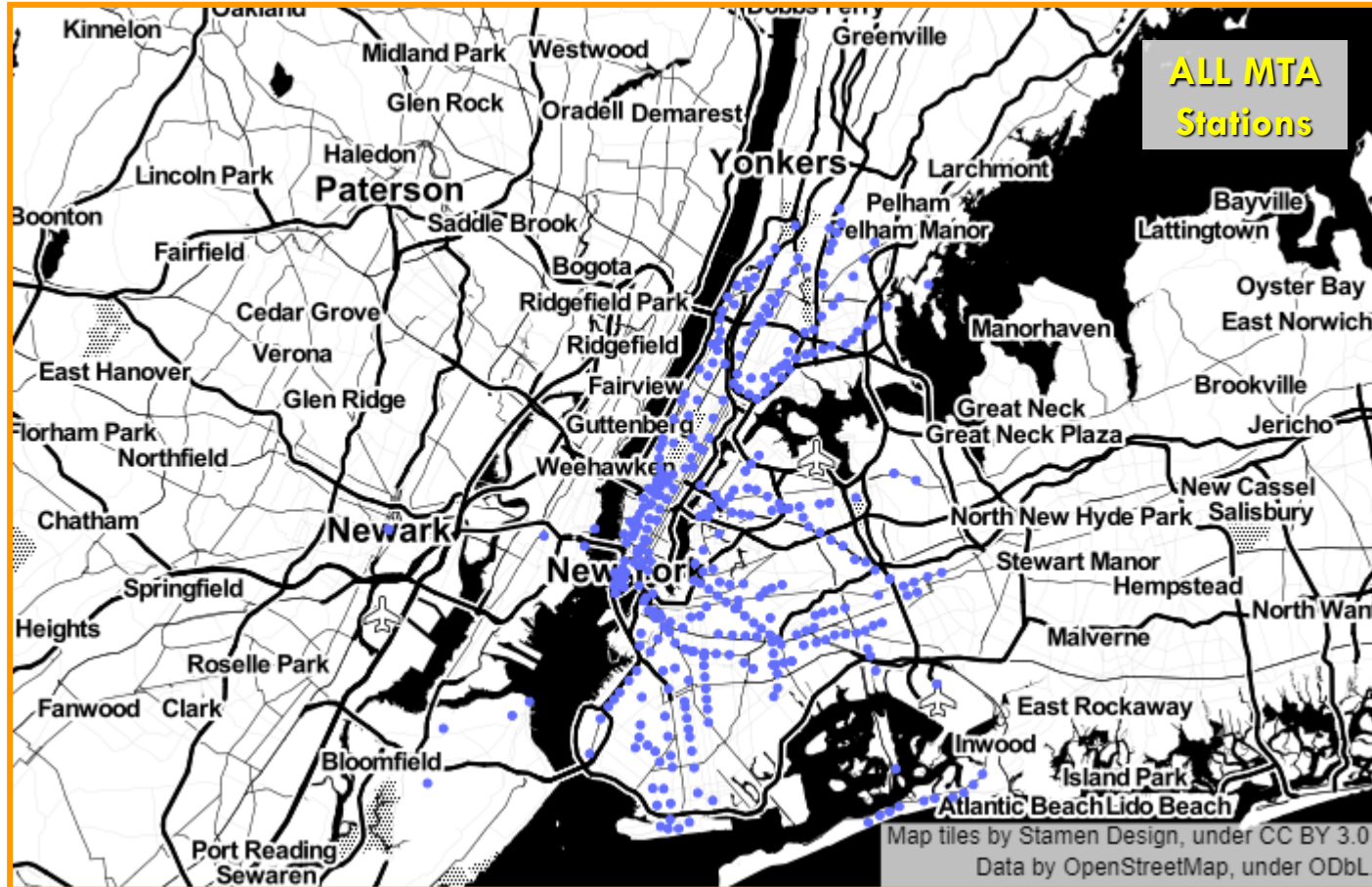
- 6 Unique identifiers for each station
- Location data (Latitude, Longitude, Zip Code)
- Demographic data (Population, Population Density, Median Income)

NARROWING DOWN RESULTS

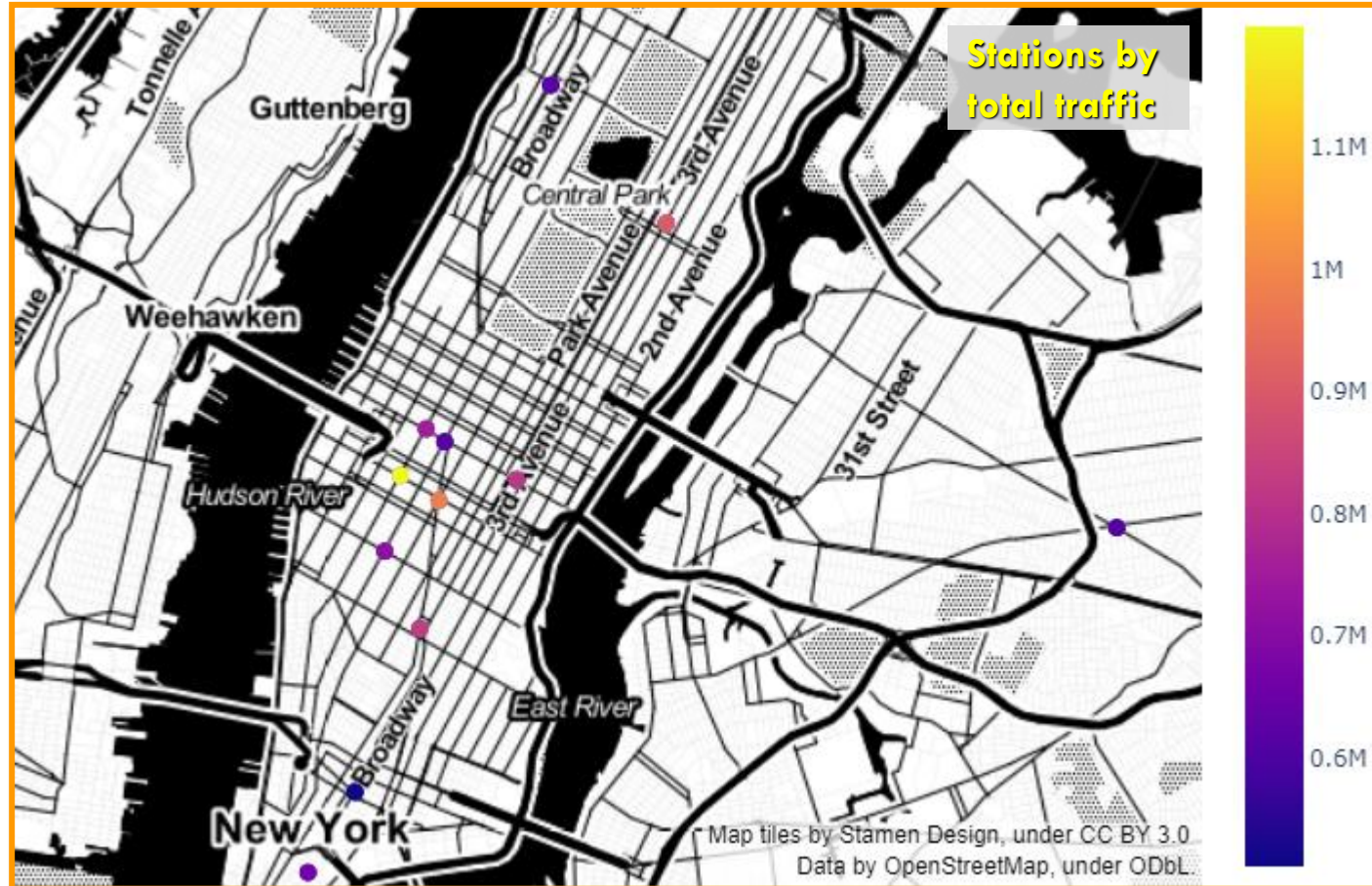


- To 10 trafficked stations for the month of September
- Some stations included on the list appear unorthodox (like 125th ST, and Flushing)
 - This top 10 list alone is not a good historical representation
 - Looking at past years data, these stations don't normally make it on the list

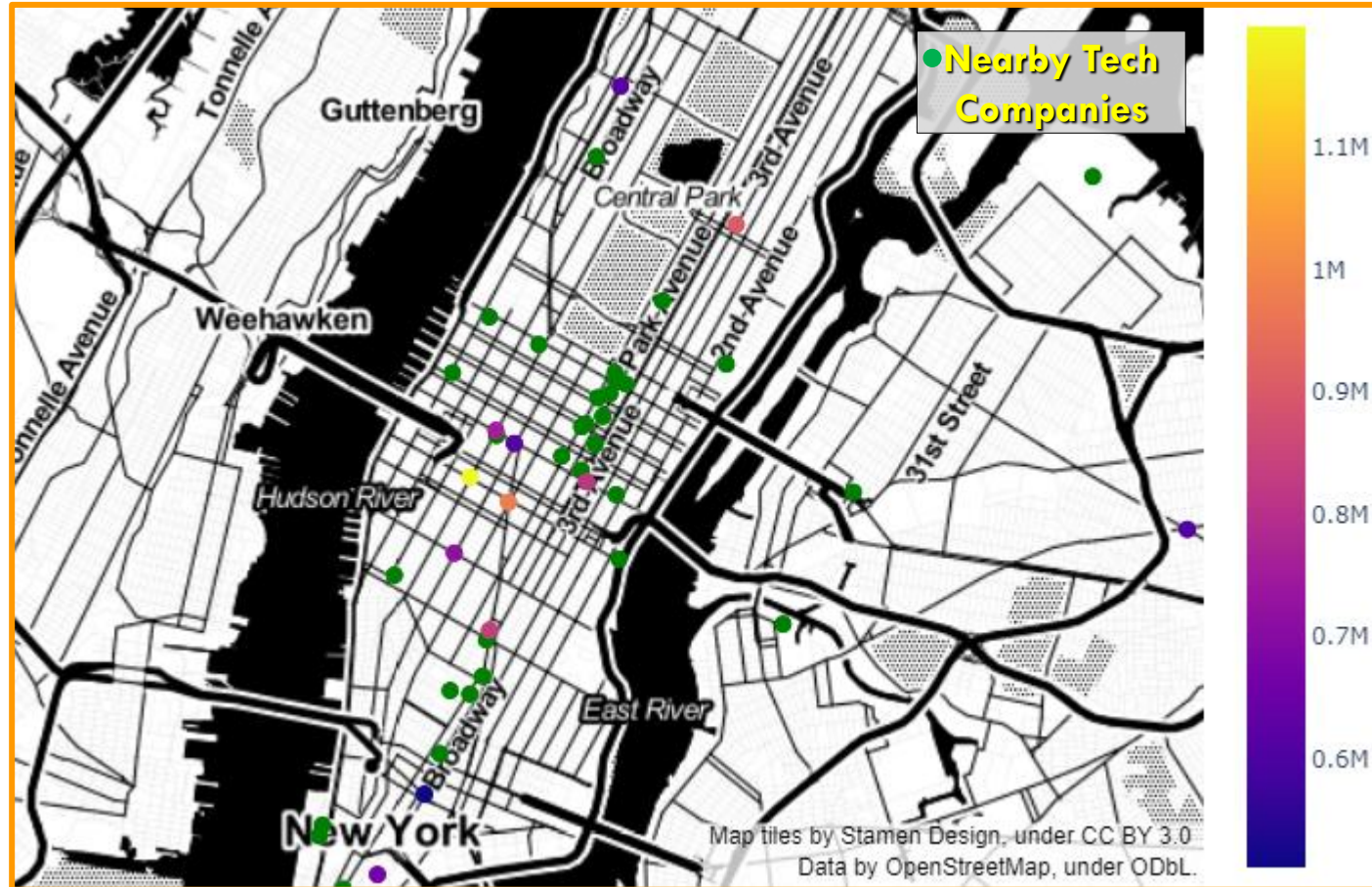
VISUALIZING SPATIAL DISTRIBUTIONS



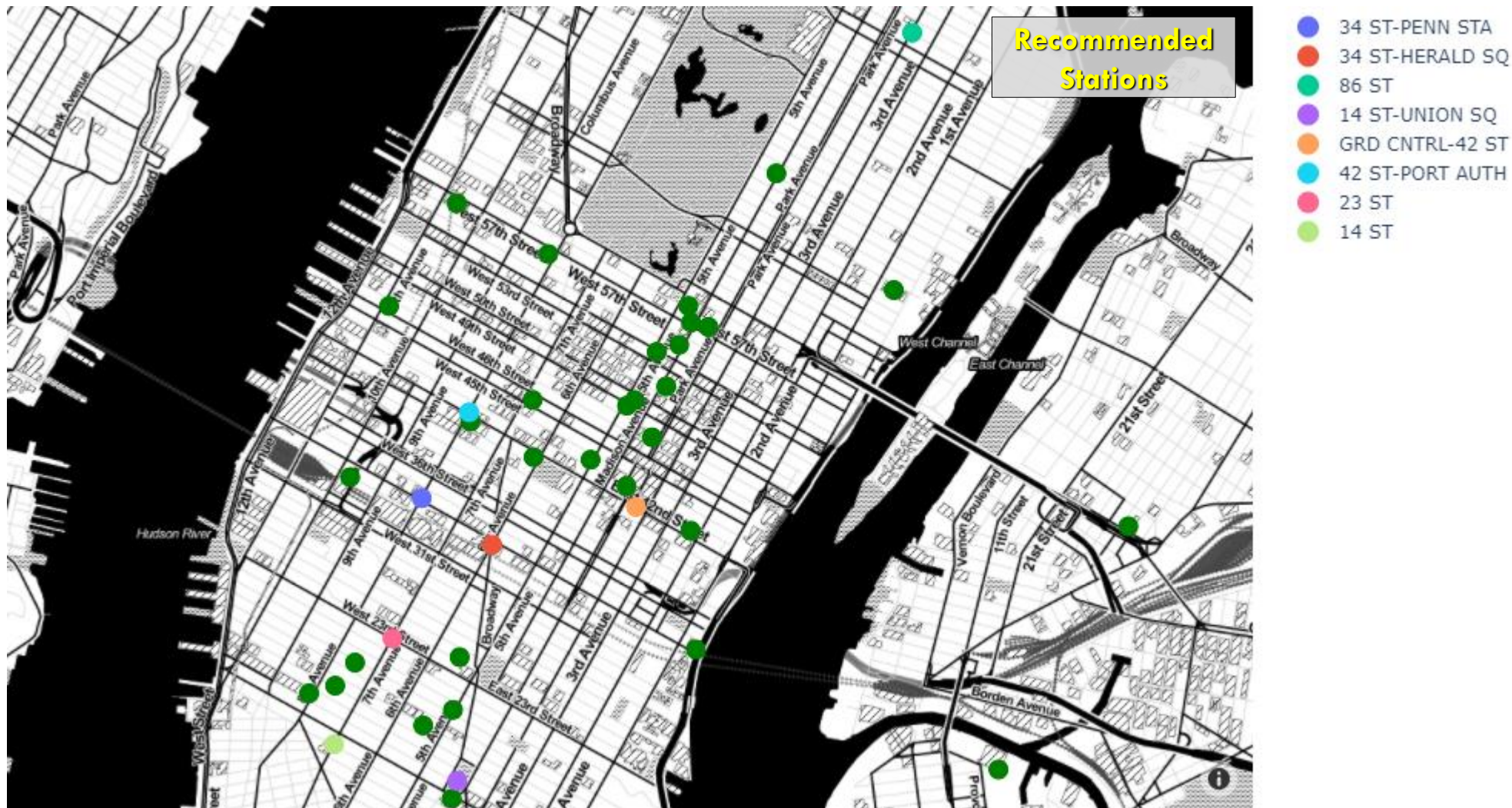
VISUALIZING SPATIAL DISTRIBUTIONS



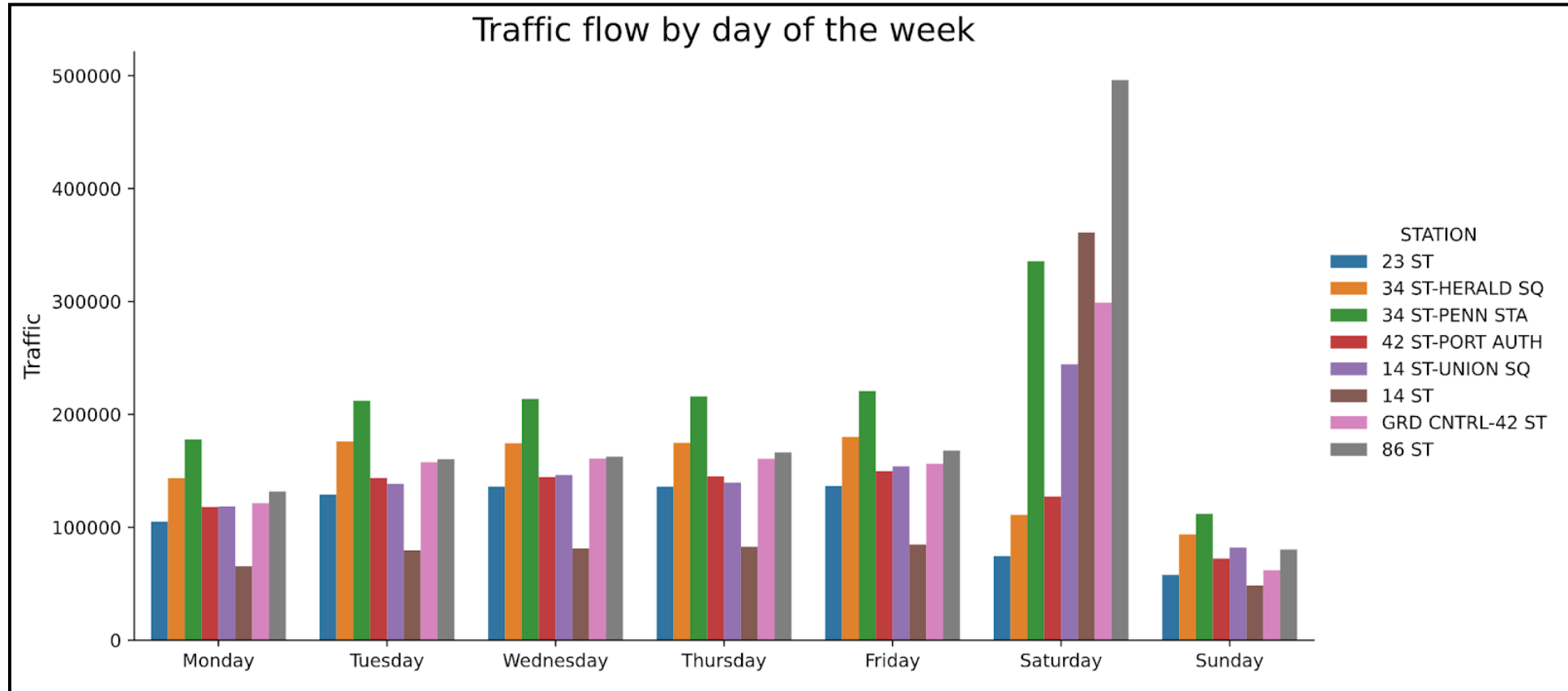
VISUALIZING SPATIAL DISTRIBUTIONS



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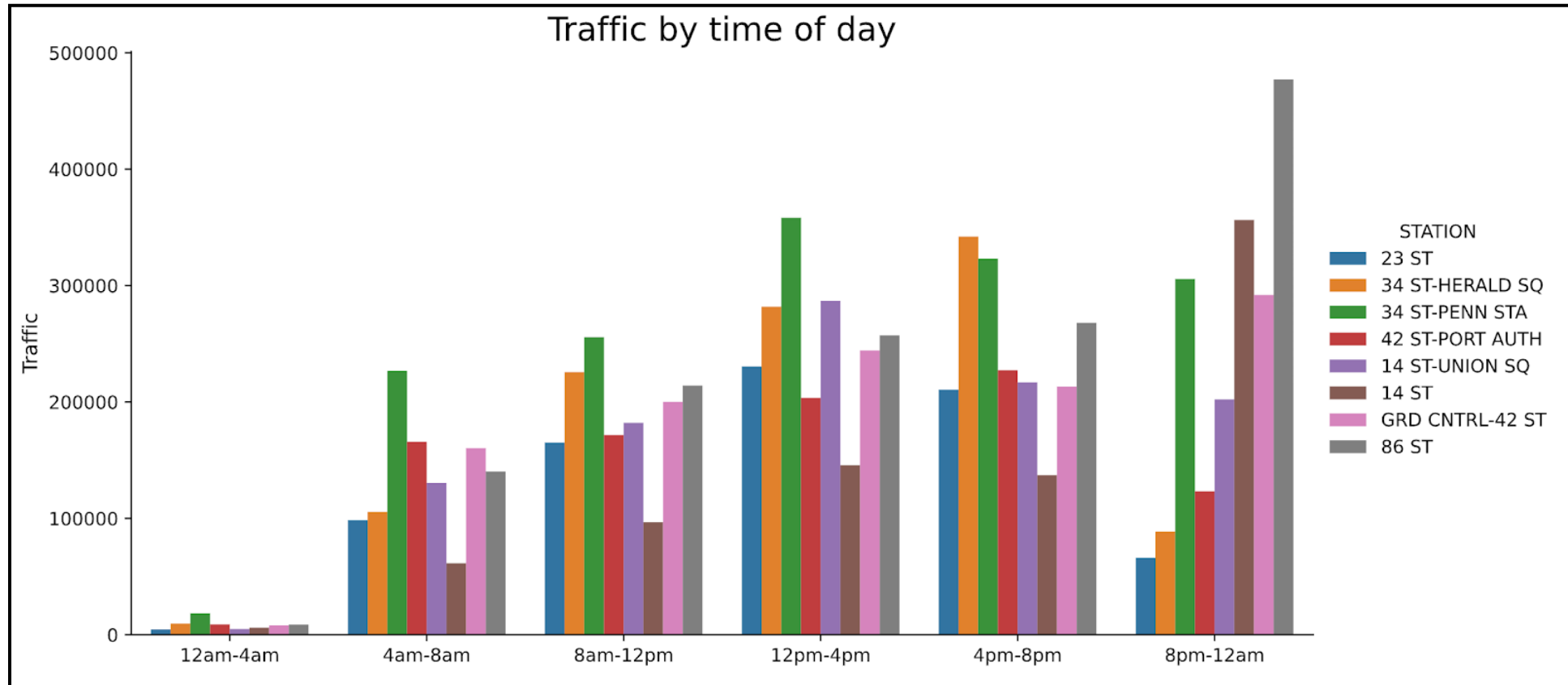


VISUALIZING IN TERMS OF DAY OF THE WEEK



- Varying traffic flow for different day of the week
- Stations that have proximity to cultural areas or allows transit to other cultural part of the city have high weekend traffic flow

VISUALIZING IN TERMS OF TIME OF DAY



- 12pm-8pm is the most trafficked time of the day
- 8pm-12pm is most trafficked for stations that have close proximity to museums/art galleries
 - 14 ST proximate to Whitney Museum of American Art
 - 86 ST proximate to Metropolitan Museum of Art

RECOMMENDATIONS

- Deploy two strategies: one for weekdays and one for weekends
 - Traffic generators around each station are weekday- and weekend-dependent
 - E.g. 34th St-Penn Station and 14 St-Union Sq are proximate to tech hubs, offices (weekdays)
 - E.g. 86th St proximate to Museum Mile, Central Park (weekends)
- High traffic stations to target with each strategy:
 - Weekday stations:
 - 34th St-Herald Sq, 42nd St-Port Authority, 14th St-Union Station, St, 23rd St
 - Higher traffic on weekdays aligns with proximity to business/tech hubs incl. Flatiron area
 - Weekend stations:
 - 34th St-Penn Station, Grand Central-42nd, 86th St, 14th St
 - Higher traffic on weekends aligns with proximity to cultural institutions and regional rail network
- Target time slots for deployment with each strategy
 - Weekday stations: 12pm-8pm (lunch hour for professionals, commutes from work in business areas)
 - Weekend stations: 8pm-12am (museums/galleries, daytrips in/out of city)

FUTURE WORK

- Assess sign-up rates of street teams during the week vs. weekends early on to prioritize limited resources later on
- Feasibility planning after COVID-19 (event logistics, lead times for booking, venue capacity, gathering limitations, etc.)
- Social media presence: considerations for a wider audience
- Evaluating impact of Awareness Programs for K-12 schools
 - Value of networking and fundraising through parents of students