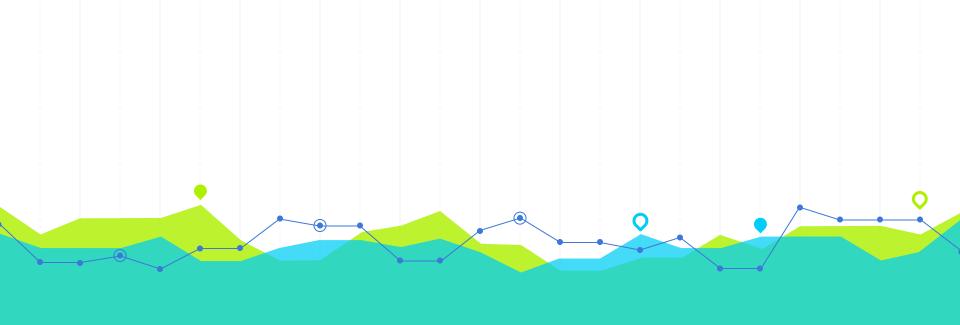


WOMEN TECH WOMEN YES ANNUAL GALA CANVAS

Dangaia Sims & Paul Black

PRESENTATION FORMAT





Project Goals

THE EMAIL

- Women Tech Women Yes (WTWY) annual gala
 - May 30, 2017
- Street teams as means of building awareness, increasing reach, and fundraising support
- Need passionate members and donors supportive of women in technology

THE DATA

- New York City Metropolitan Transit Authority (MTA) Subway
 Data
 - Specifically data pulled between March 1st and May 31st 2015, 2016, and 2017
- MTA ridership rankings by weekend and weekday for 2015
 - http://web.mta.info/nyct/facts/ridership/ridership_sub.htm
- Incubators/Accelerators in New York City

THE QUESTION

• How (i.e., where and when) should WTWY place street teams to optimize their canvassing process?



Data Analysis

2

EXPLORATORY DATA ANALYSIS

- Leveraged MTA to identify highly trafficked areas
- Identify key days of the week with high volume foot traffic
- Eliminate false data (e.g. negative foot traffic, extreme values)
- Parsed out weekend and weekday data
- Complexity of station
- Total foot traffic
 - Average total foot traffic

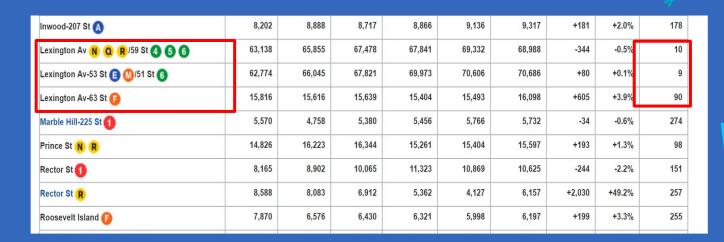


Ridership Rank by Weekend vs Weekday

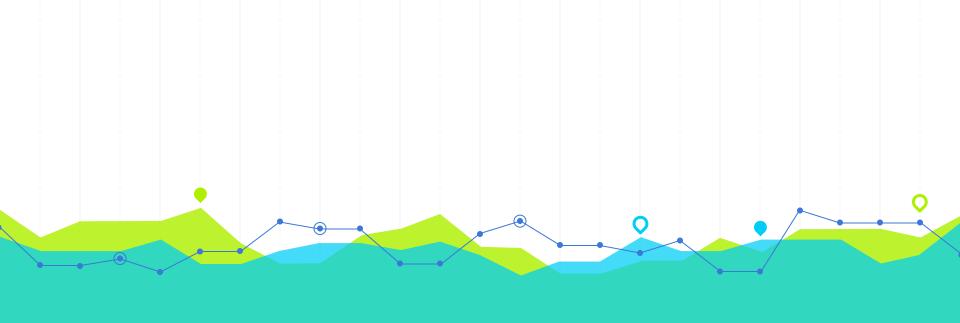


_	0.0000000000000000000000000000000000000								
Inwood-207 St 🛕	12,380	15,361	11,333	11,856	12,130	12,944	+814	+6.7%	140
Lexington Av N Q R /59 St 4 5 6	64,849	67,744	69,374	74,118	72,247	71,184	-1,063	-1.5%	10
Lexington Av-53 St 🔳 🚺/51 St 🔞	38,040	40,172	42,957	45,260	46,802	45,716	-1,086	-2.3%	22
Lexington Av-63 St 🕞	16,221	13,981	12,191	9,928	9,863	11,517	+1,654	+16.8%	154
Warpie Hill-225 St	6,336	4,845	6,846	6,079	6,879	6,343	-536	-7.8%	259
Prince St N R	25,339	27,581	25,952	24,428	25,668	26,154	+486	+1.9%	50
Rector St 1	5,285	6,852	9,776	9,328	11,503	6,098	-5,405	-47.0%	271
Rector St R	5,276	6,669	5,985	2,917	1,252	6,066	+4,814	+384.5%	274
Roosevelt Island 🍞	10,621	8,135	7,571	6,123	6,200	7,100	+900	+14.5%	239

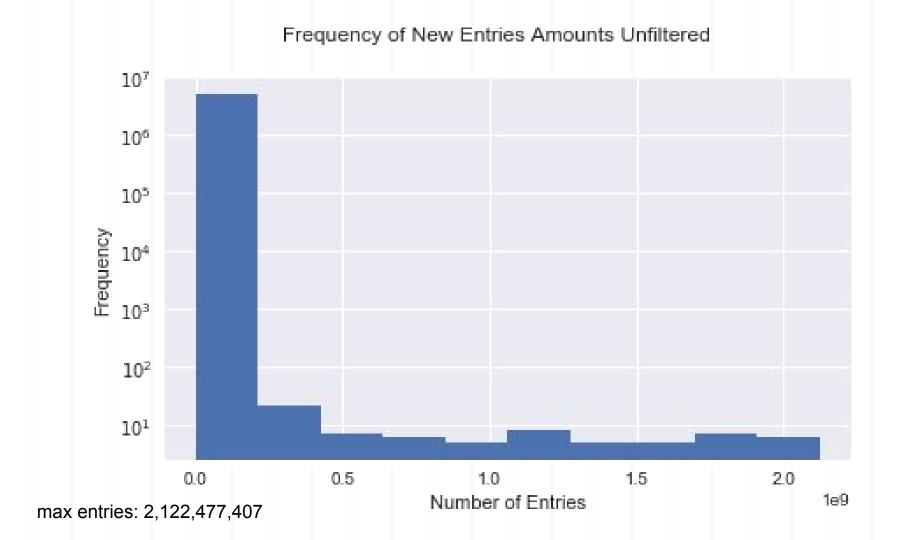
WEEKEND



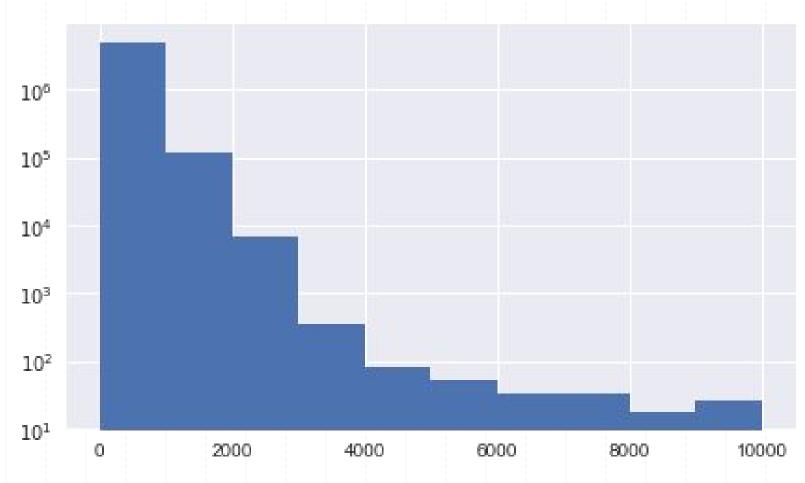
WEEKDAY

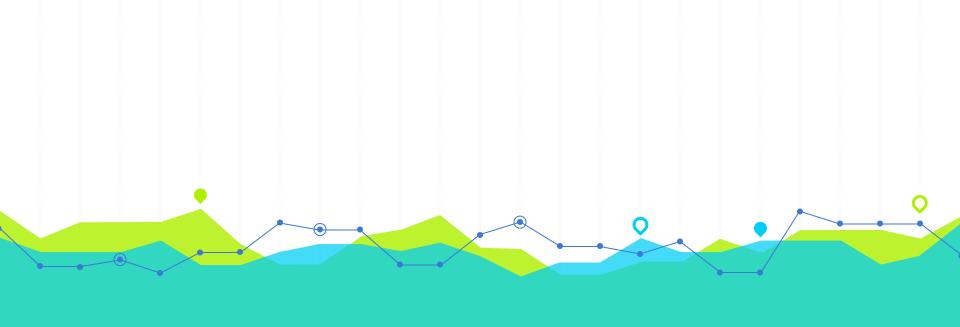


Eliminating False Data



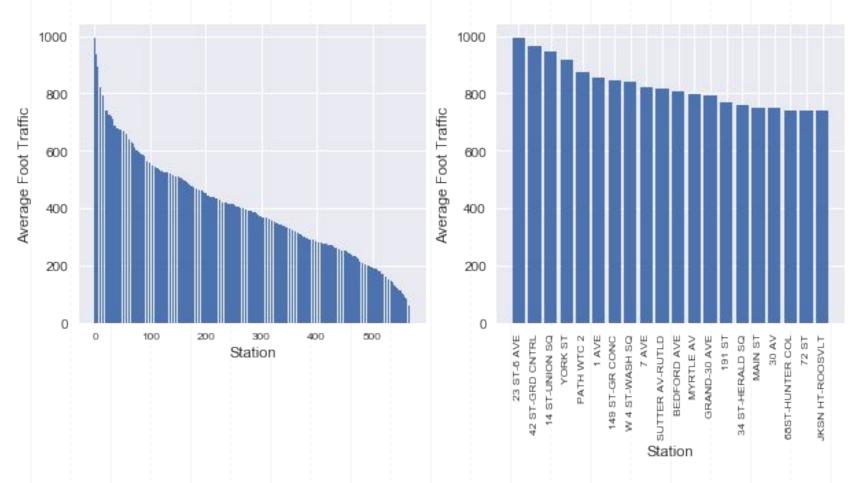
Frequency of New Entries Amounts



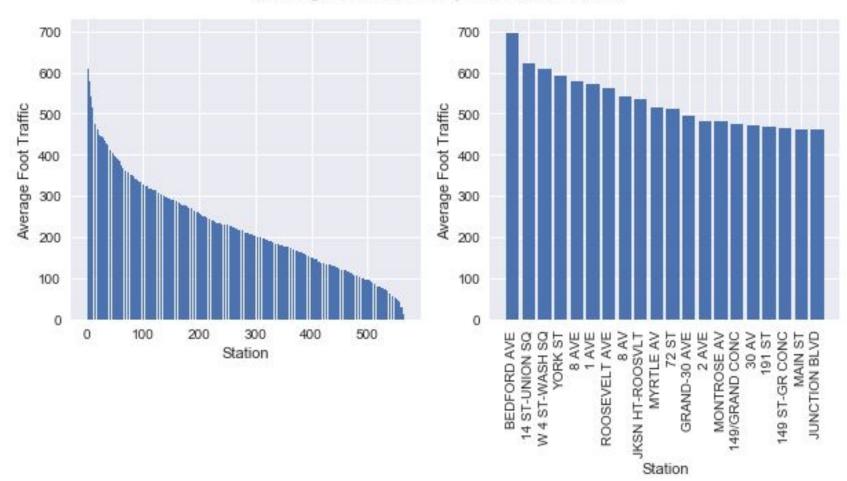


Average Foot Traffic by Station

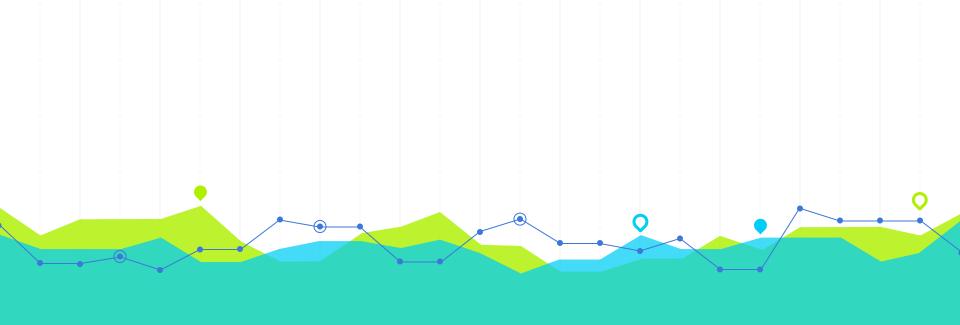
Average Foot Traffic by Station: Weekday



Average Foot Traffic by Station: Weekend



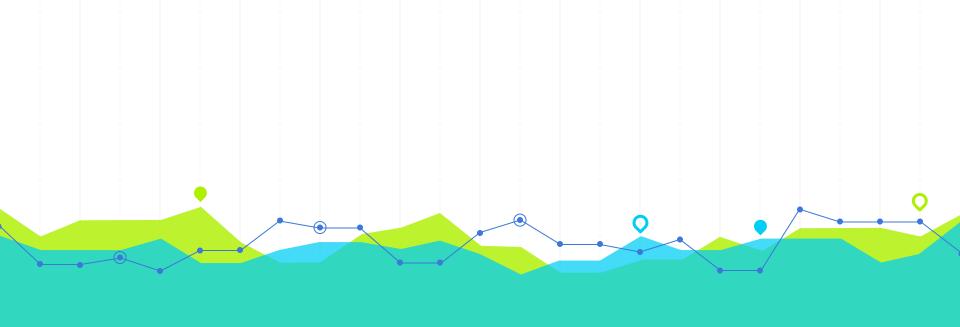
	WEEKDA	Υ		WEEKENI	
	STATION	FOOT TRAFFIC AVG		STATION	FOOT TRAFFIC AVG
1	23 ST-6 AVE	991.082034	1	BEDFORD AVE	694.54073
2	42 ST-GRD CNTRL	964.126204	2	14 ST-UNION SQ	621.187505
3	14 ST-UNION SQ	946.837296	3	W 4 ST-WASH SQ	610.158971
4	YORK ST	917.153547	4	YORK ST	591.883036
5	PATH WTC 2	874.459441	5	8 AVE	577.071057
6	1 AVE	853.024055	6	1 AVE	571.316233
7	149 ST-GR CONC	847.212966	7	ROOSEVELT AVE	561.60607
8	W 4 ST-WASH SQ	839.671501	8	8 AV	540.191445
9	7 AVE	819.695769	9	JKSN HT-ROOSVLT	536.52435
10	SUTTER AV-RUTLD	814.216028	10	MYRTLE AV	515.440789



Station Complexity

W	Ε	Е	K	D	A	Υ

	STATION	FOOT TRAFFIC AVG	COMPLEXITY
1	23 ST-6 AVE	991.082034	MEDIUM
2	42 ST-GRD CNTRL	964.126204	EXTREME
3	14 ST-UNION SQ	946.837296	HIGH
4	YORK ST	917.153547	LOW
5	PATH WTC 2	874.459441	LOW
6	1 AVE	853.024055	MEDIUM
7	149 ST-GR CONC	847.212966	LOW
8	W 4 ST-WASH SQ	839.671501	MEDIUM
9	7 AVE	819.695769	LOW
10	SUTTER AV-RUTLD	814.216028	LOW



Assumptions

CLEANING DATA OUR ASSUMPTIONS

- Number of turnstiles at a single station is a good depiction of station complexity
- More than 10,000 entries in a 4 hour period is false data
 - Likely caused by turnstile malfunction
- Negative entries is due to turnstile malfunction
- Ridership changes by seasonality
- Ridership changes by weekday vs weekend

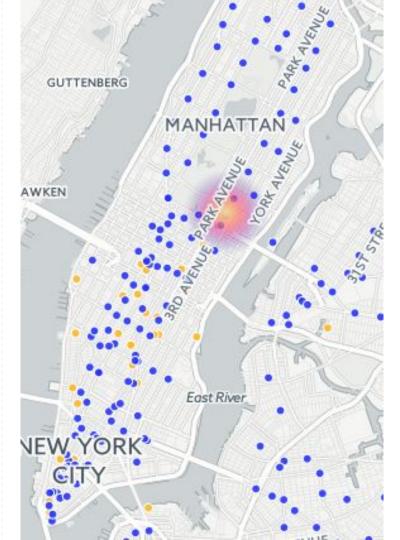


Results 3

Stations



- Stations
- Incubators



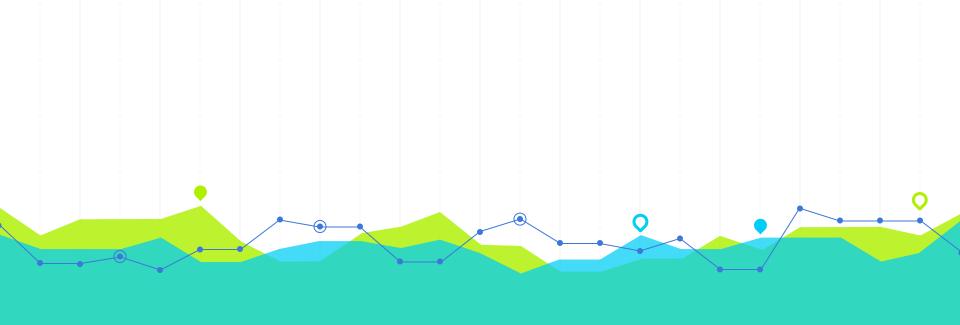
- Incubators
- Stations for canvassing



THE STATIONS

	WEEKEND
1	W 4th St - Washington Sq (Lower)
2	York Street
3	8th Avenue
4	1st Avenue
5	72nd Street
6	2nd Avenue
7	191 Street
8	42nd Street - Bryant park

	WEEKDAY
1	23rd Street
2	York Street
3	World Trade Center
4	1st Avenue
5	W 4th St - Washington Sq (Lower)
6	7th Avenue
7	30th Avenue
8	191 Street



Conclusions

4

THE CONCLUSIONS

- Canvassers should be cognizant of:
 - Weekday vs Weekend
 - Complexity of station
 - Proximity to "tech-y" people

THANKSI

Any questions?