MTA Ridership and Fare Evasion

https://www.nytimes.com/2020/01/13/nyregion/letitia-james-fare-beating-nypd.html
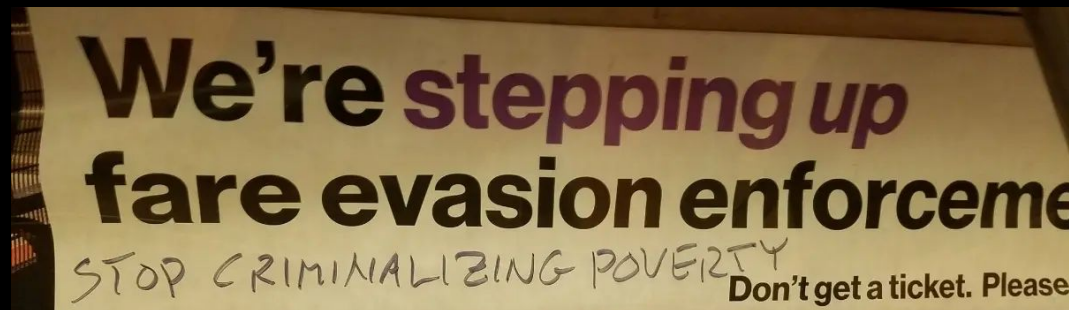
https://www.vice.com/en/article/v3mw...-are-the-fare-evasion-enforcement-data-the-nypd-fought-to-keep-secret

2019

We're **stepping up** fare evasion enforceme[nt]

STOP CRIMINALIZING POVERTY

Don't get a ticket. Please
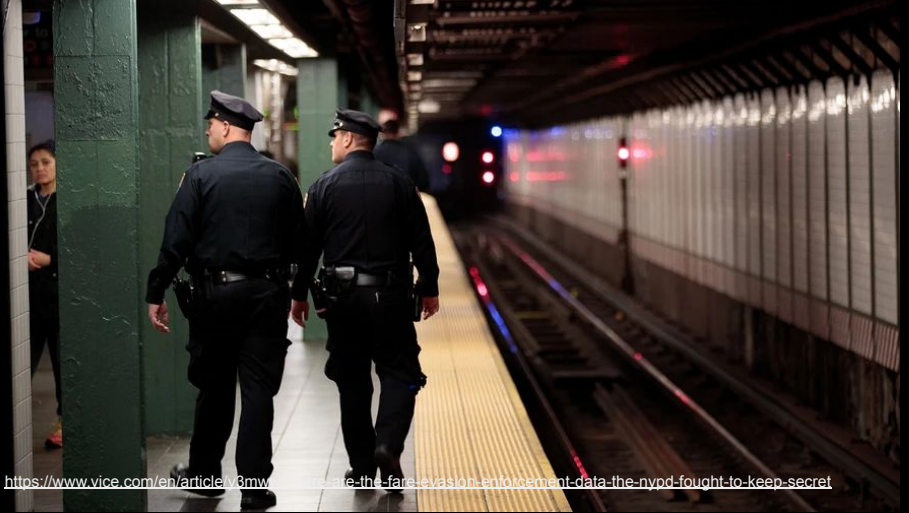
'I Got Tired of Hunting Black and Hispanic People'

Multiple police officers in Brooklyn say they were told by a commander that white and Asian people should be left alone.

Charges Of Racial Profiling After Two Harlem Straphangers Were Issued Summonses For Fare Evasion

Subway Policing in New York City Still Has A Race Problem

As the NYPD slows arrests for turnstile jumping, New York City's neighborhoods of color remain a target.
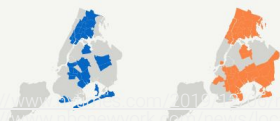
MTA

NYPD Investigated for Instances of Racial Bias in Subway Fare Enforcement

Black and Hispanic people accounted for nearly 90% of fare-related arrests and nearly 70% of summonses from Oct. 2017-June 2019, according to NYPD data

1. https://www._____.com/2019/___/__/nyregion/nyc-police-subway-racial-profiling.html
2. https://abc7ny.com/nypd-_____/nstances-of-racial-bias-in-subway-fare-enforcement/2259293/
3. https://abc7ny.com/nypd-fare-beaters-nyc-subway-bias/5846368/
4. https://www.themarshallproject.org/2018/09/12/subway-policing-in-new-york-city-still-has-a-race-problem

Methodology

1. Data Sources:
    a. <u>MTA turnstile data</u>
    b. <u>NYPD Arrests</u>
    c. <u>MTA Station Locations</u>
    d. <u>Median Household Income by Census Tract</u>
    e. <u>Subway Station by Census Tract</u>

2. Metrics:
    a. L Stations
    b. Total entries at L stations (Sept - Dec 2019)
    c. Total arrests for fare evasion (no summons) Sept - Dec 2019
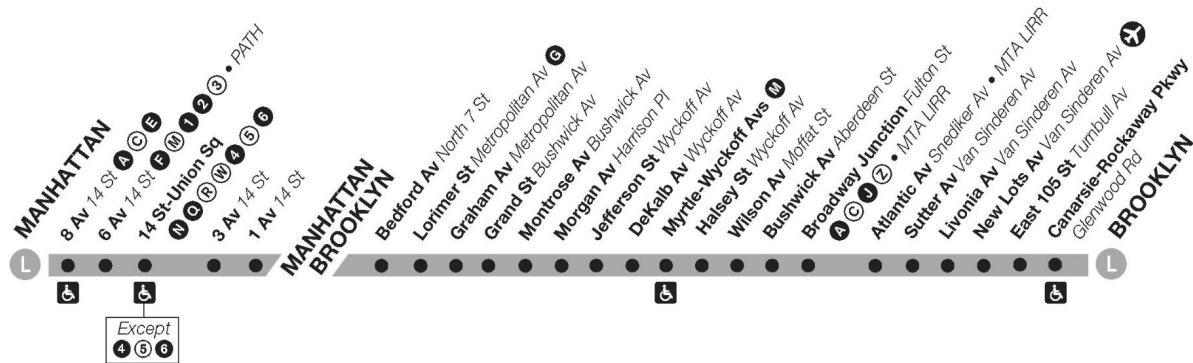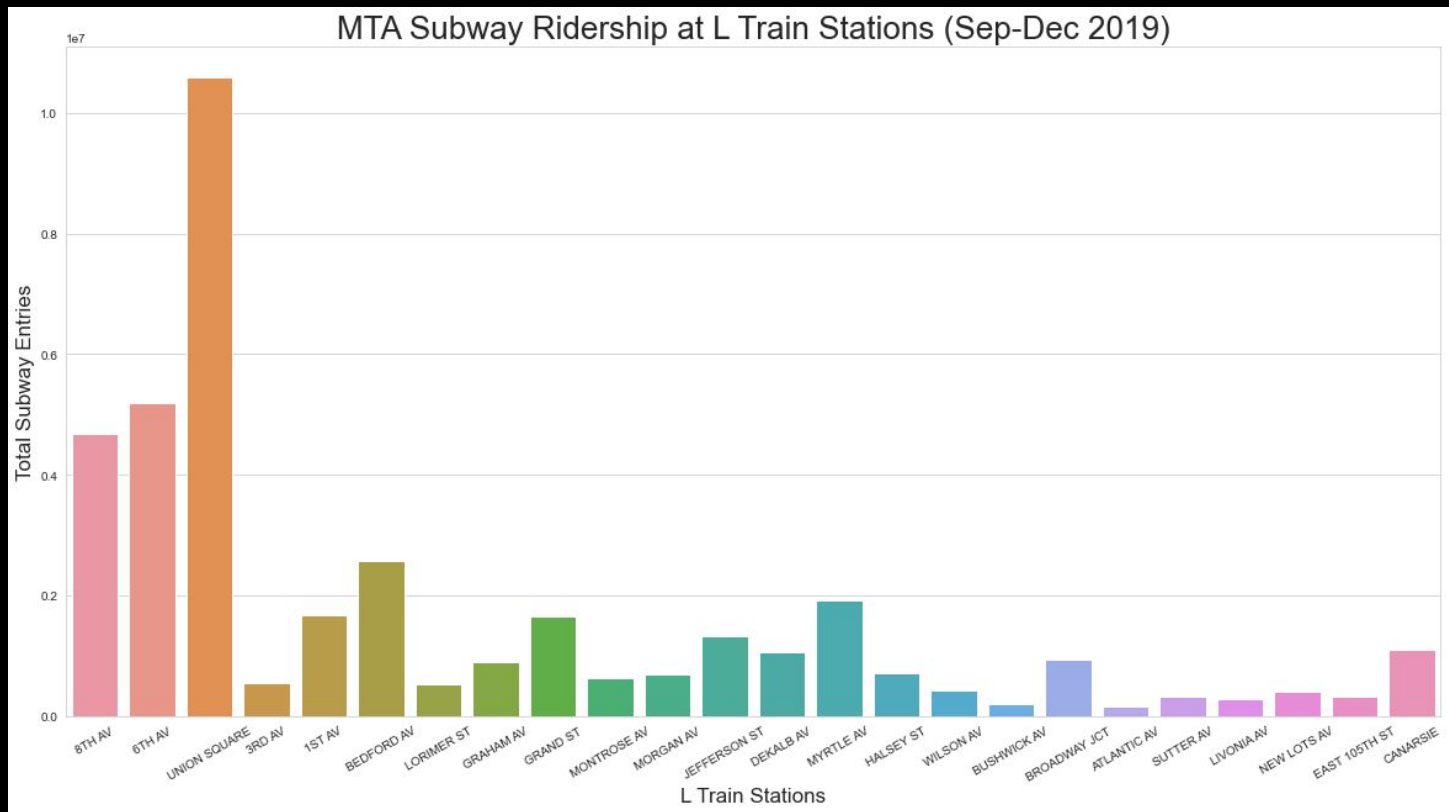   d. Median household income of area surrounding each subway station

3. Tools:
    a. SQL, Pandas, Matplotlib, Seaborn

L 14 St-Canarsie Local

MANHATTAN

8 Av 14 St Ⓐ Ⓒ Ⓔ
6 Av 14 St Ⓕ Ⓜ Ⓝ ❶ ❷ ❸ • *PATH*
14 St-Union Sq
Ⓝ Ⓠ Ⓡ Ⓦ ❹ ❺ ❻
3 Av 14 St
1 Av 14 St

MANHATTAN / BROOKLYN

Bedford Av *North 7 St*
Lorimer St *Metropolitan Av* Ⓖ
Graham Av *Metropolitan Av*
Grand St *Bushwick Av*
Montrose Av *Bushwick Av*
Morgan Av *Harrison Pl*
Jefferson St *Wyckoff Av*
DeKalb Av *Wyckoff Av*
Myrtle-Wyckoff Avs Ⓜ
Halsey St *Wyckoff Av*
Wilson Av *Moffat St*
Bushwick Av *Aberdeen St*
Broadway Junction *Fulton St*
Ⓐ Ⓒ Ⓙ Ⓩ • *MTA LIRR*
Atlantic Av *Snediker Av • MTA LIRR*
Sutter Av *Van Sinderen Av*
Livonia Av *Van Sinderen Av*
New Lots Av *Van Sinderen Av*
East 105 St *Turnbull Av* ✈
Canarsie-Rockaway Pkwy
Glenwood Rd

BROOKLYN

Except ❹ ❺ ❻

Results (Ridership)

MTA Subway Ridership at L Train Stations (Sep-Dec 2019)

Results (Arrests)

Fare Evasion Arrests at L Train Stations (Sep-Dec 2019)

Results (Median Household Income)

Median Household Income near L Train Stations (from 2019 census data)

Results

Fare Evasion Arrests at L Train Stations by Race (Sept-Dec 2019)

- AMERICAN INDIAN/ALASKAN NATIVE
- ASIAN / PACIFIC ISLANDER
- BLACK
- BLACK HISPANIC
- WHITE
- WHITE HISPANIC

BLACK 57.6%

ASIAN / PACIFIC ISLANDER 0.7%

AMERICAN INDIAN/ALASKAN NATIVE 2.2%

WHITE HISPANIC 24.5%

WHITE 9.4%

BLACK HISPANIC 5.8%
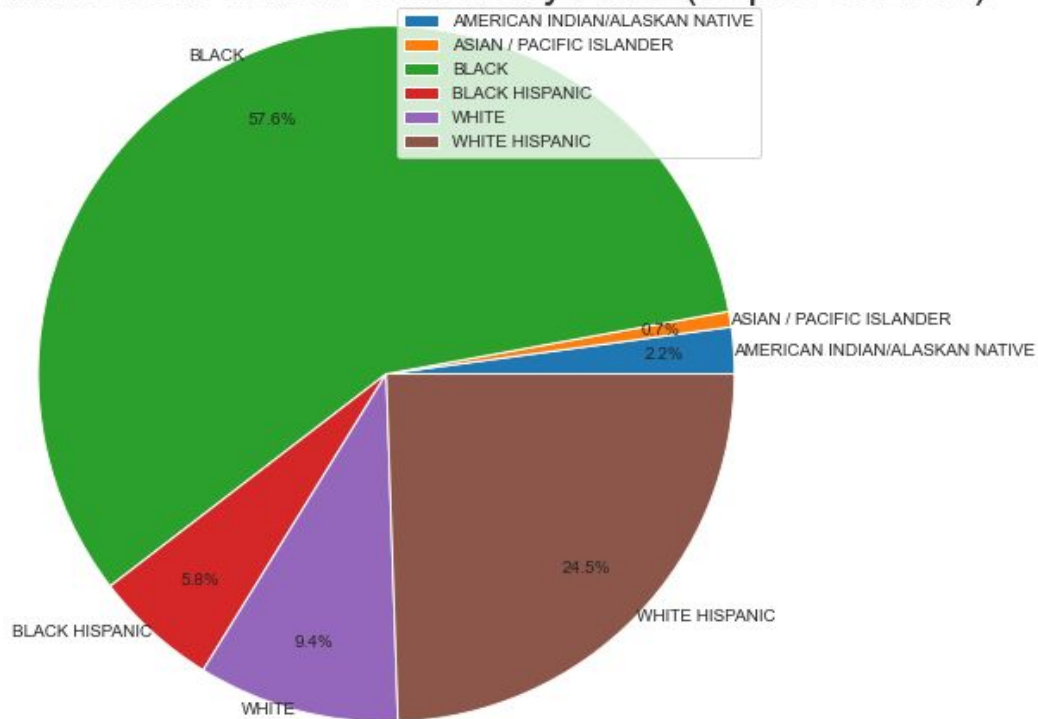
Future Work

Data to look at:
- More stations over a longer period of time
- Summons (not just arrests)
- Racial demographics of census tracts
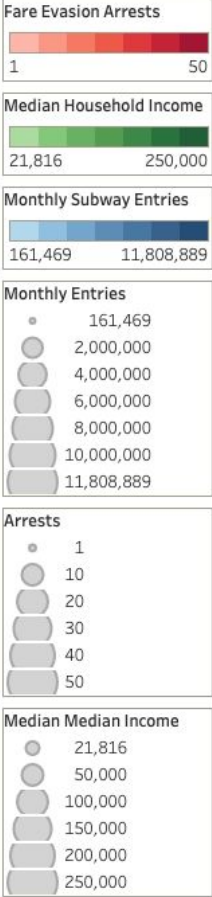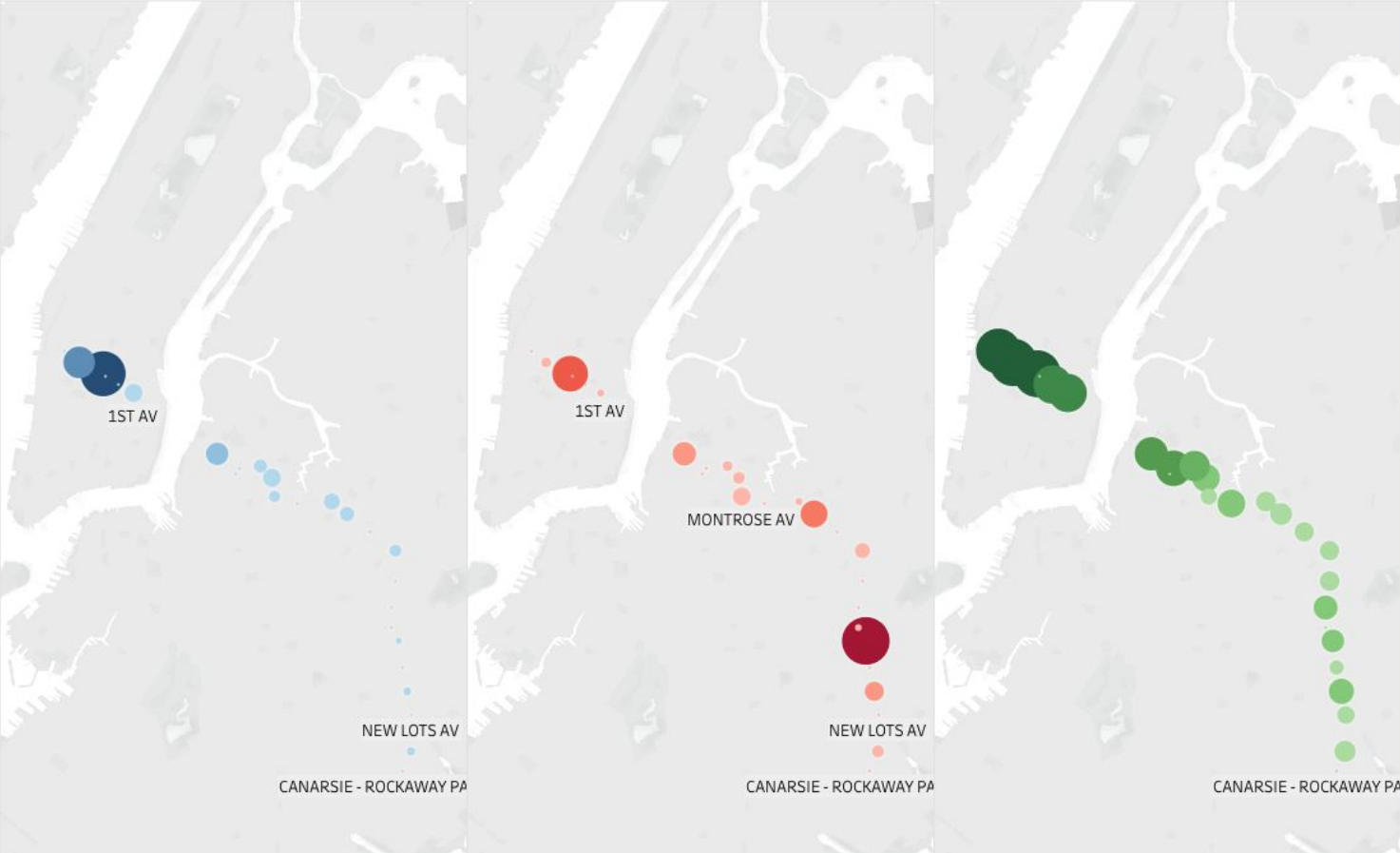
Questions to ask:
- How serious of a problem is fare evasion?
- What are the causes of fare evasion? / Is fare evasion criminalizing poverty?

Appendix

Further Reading/Inspiration:

- [Here Are the Fare-Evasion Enforcement Data the NYPD Fought to Keep Secret](#)
- [The Crime of Being Short $2.75](#)
- [The MTA's False Fare Evasion Narrative](#)
- [NYC Fare Evasion](#)

L Train Ridership, Fare Evasion Arrests, Median Household Income (Sept-Dec 2019)

Fare Evasion Arrests

1   50

Median Household Income

21,816   250,000

Monthly Subway Entries

161,469   11,808,889

Monthly Entries

- 161,469
- 2,000,000
- 4,000,000
- 6,000,000
- 8,000,000
- 10,000,000
- 11,808,889

Arrests

- 1
- 10
- 20
- 30
- 40
- 50

Median Median Income

- 21,816
- 50,000
- 100,000
- 150,000
- 200,000
- 250,000

1ST AV

MONTROSE AV

NEW LOTS AV

CANARSIE - ROCKAWAY PA

Results (Median Household Income)

Median Household Income near L Train Stations (from 2019 census data)