

Analyzing Chicago Taxi Data for Road Pricing

- Congestion - tragedy of the commons problem
- Road pricing?
 - when/where?
 - how much?
 - how?

Chicago taxi trips data

CHICAGO DATA PORTAL

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Taxi Trips Transportation

Explore Data Export API Share

Taxi trips reported to the City of Chicago in its role as a regulatory agency. To protect privacy but allow for aggregate analyses, the Taxi ID is consistent for any given taxi medallion number but does not show the number, Census Tracts are suppressed in some cases, and times are rounded to the nearest 15 minutes.

Updated August 12, 2017
Data Provided by City of Chicago

Featured Content Using this Data

How This Dataset Was Created

External Content

An article explaining the background of this dataset, including privacy and data quality considerations.

Public Passenger Vehicles

External Content

Dataset of licensed public passenger vehicles, including taxis.

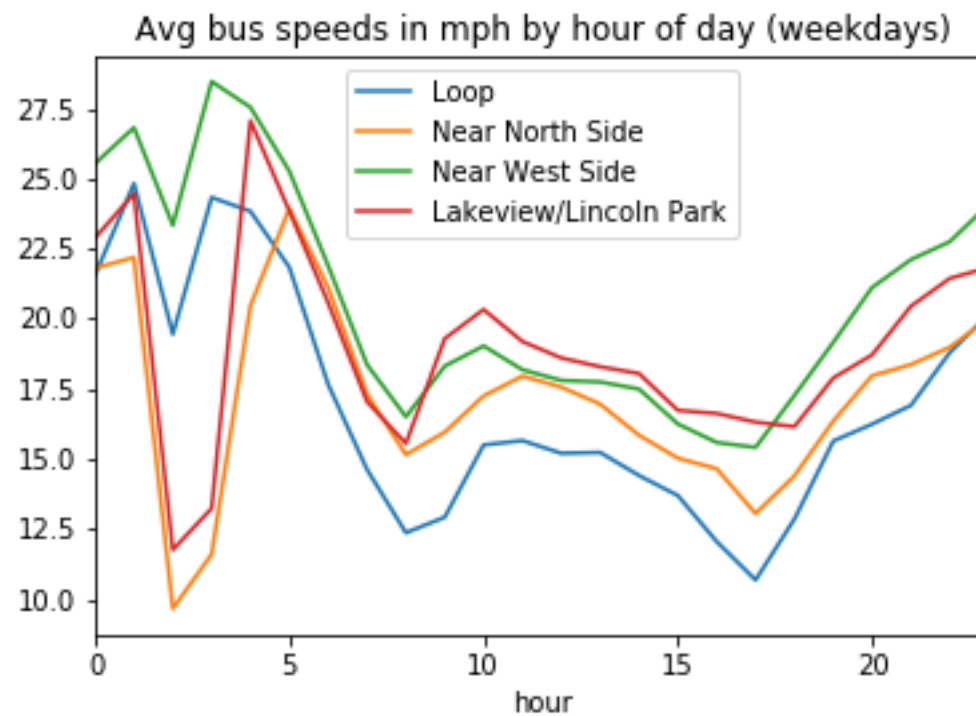
Public Chauffeurs

External Content

Licensed public chauffeurs, including taxi drivers.

46GB, ~110M taxi rides, analyzed w/ Pandas

When/where? from bus tracking data

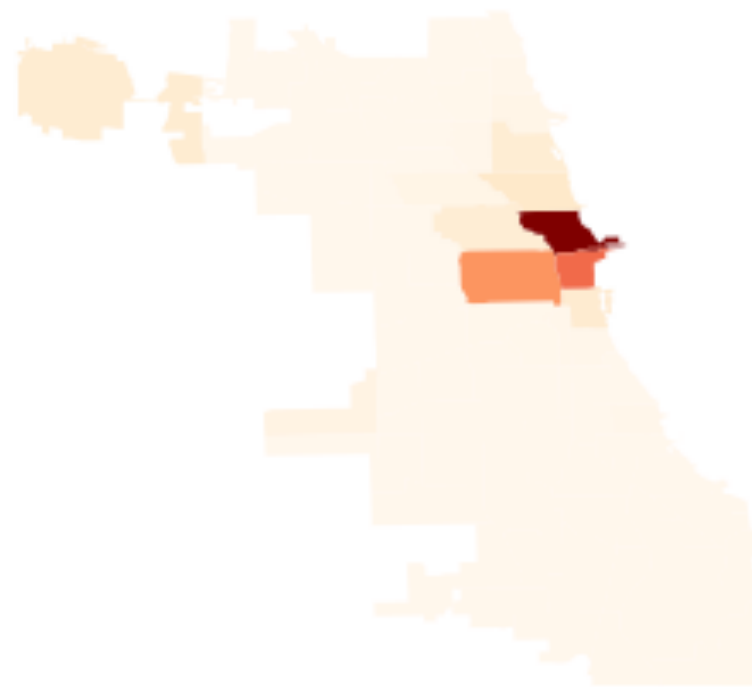


Focus: Loop at 8-10am and 4-7pm

Next: Near North Side

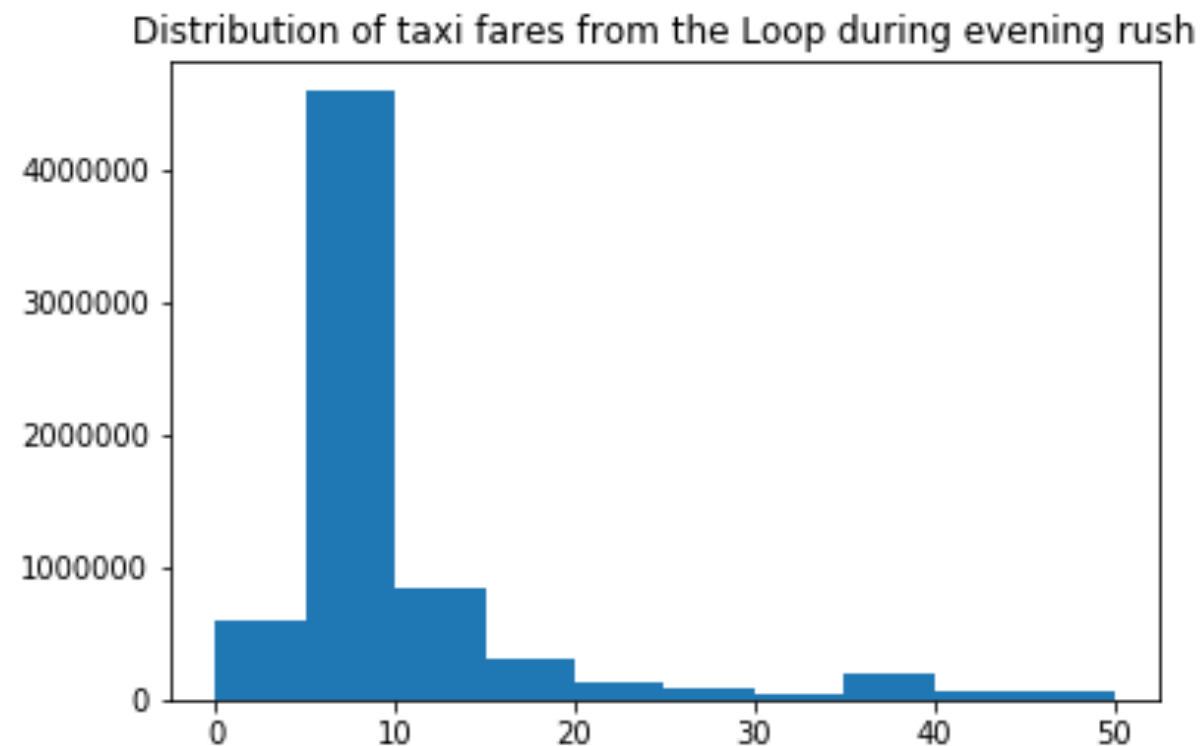
When/where? from taxi data

Evening rush taxi rides from the Loop



Most taxis go to Near North Side, the Loop, Near
West Side

How much? from taxi data



Most rides between \$5-10

Small toll can be effective

Recommendation and next steps

- Small toll for the Loop at rush hours
- Use finer pickup / dropoff location data
- Prediction model
- Track individual taxis
- Near North Side?