Analyzing Chicago Taxi Data for Road Pricing

- Congestion - tragedy of the commons problem

- Road pricing?

  - when/where?

  - how much?

  - how?

Chicago taxi trips data

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

When/where?
from bus tracking data

Avg bus speeds in mph by hour of day (weekdays)
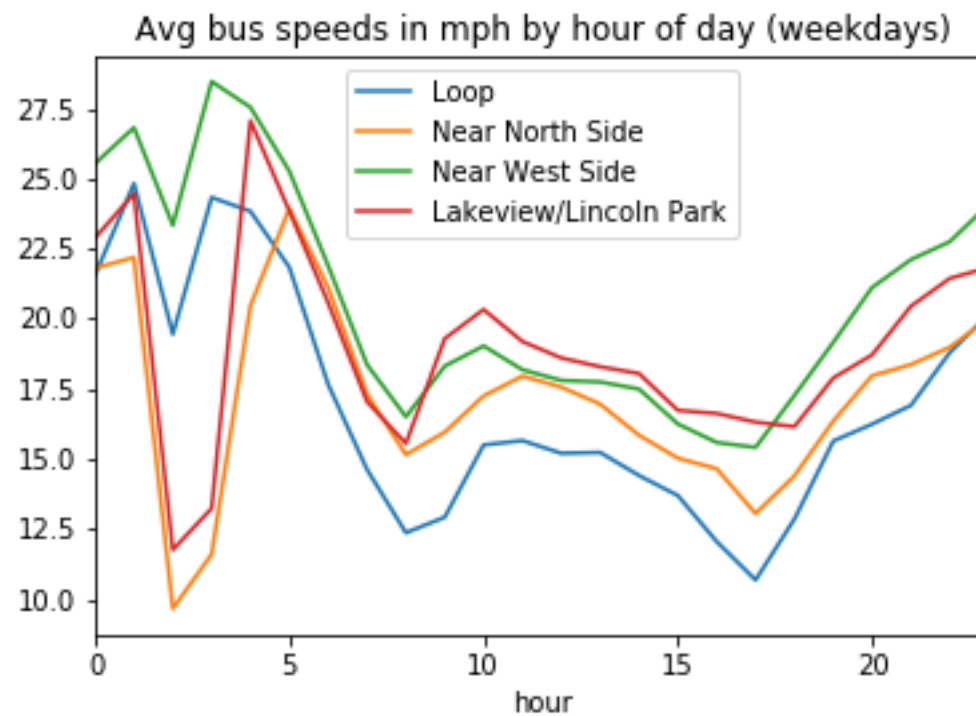
Focus: Loop at 8-10am and 4-7pm

Next: Near North Side

When/where?
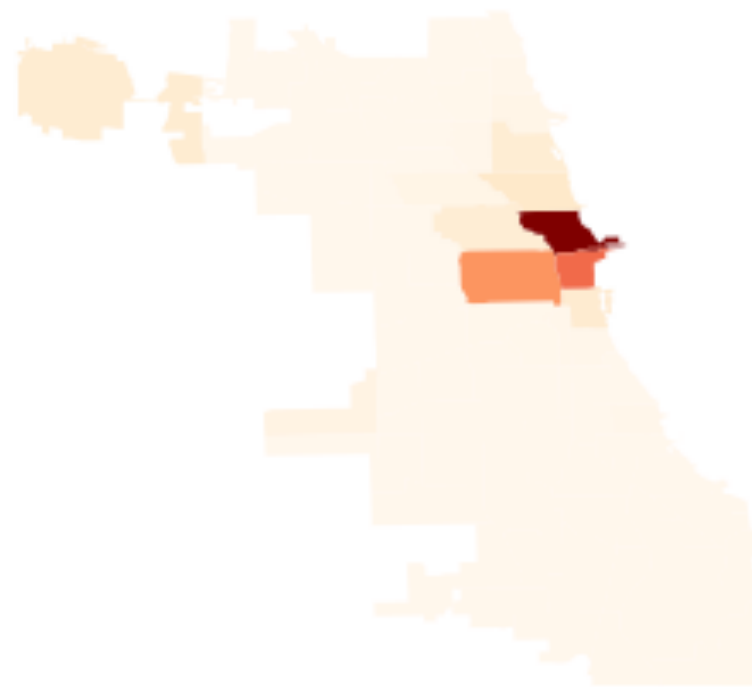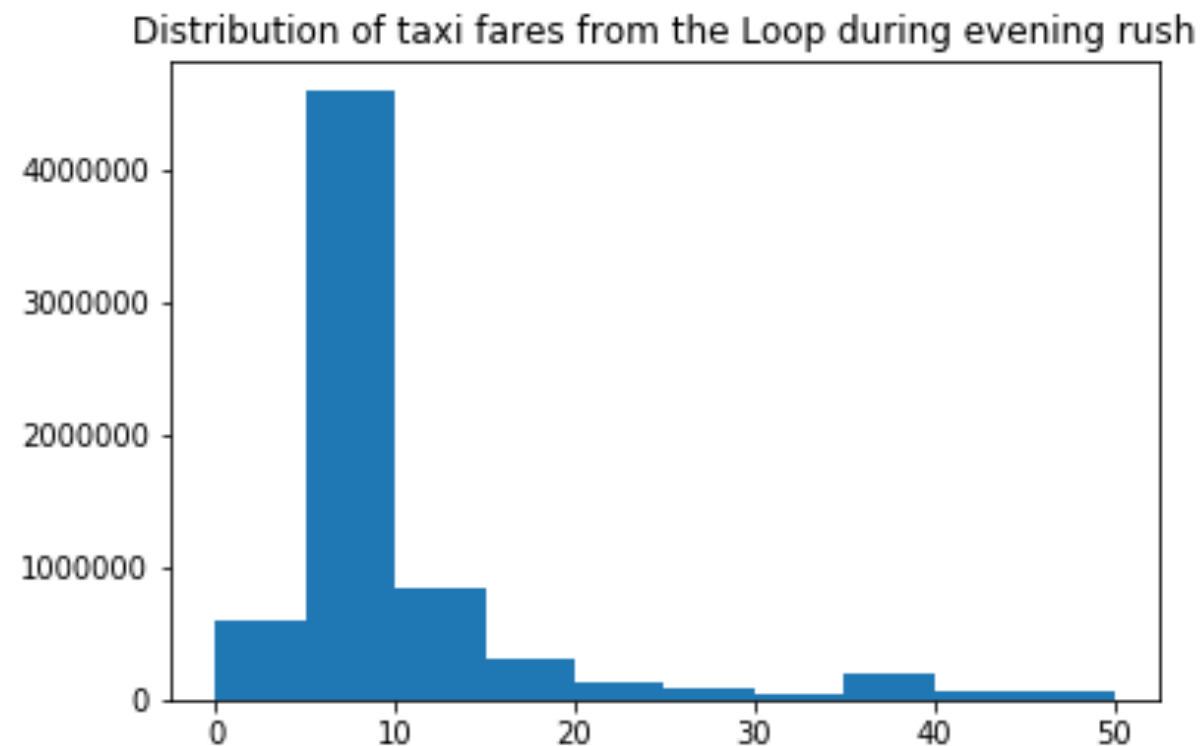# from taxi data

Evening rush taxi rides from the Loop

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

How much?
from taxi data

Distribution of taxi fares from the Loop during evening rush

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?