



HackCulture
Final Project
- Food Inspections
and Bias in Chicago

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Agenda

- The Question
- Data Visualization and Analysis
- Conclusion and Implications

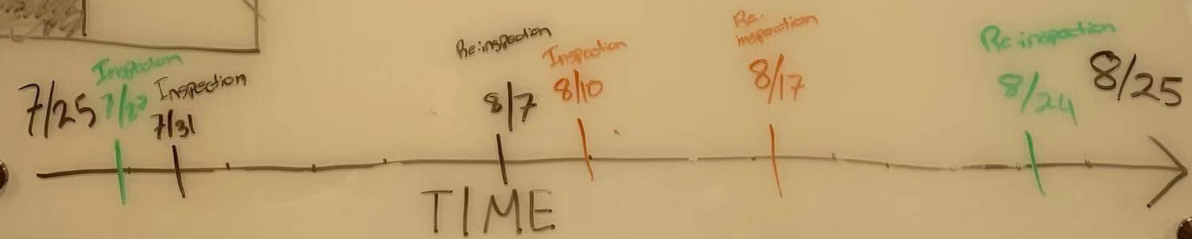
The Question

- How do inspection policies indicate regional bias in Chicago?

- Level of Risk
- Time between Inspection and Re-inspection
- % of Inspections Per Capita by Zip Code



7/31	Fail	Risk 1 (High)
8/7	Pass w/ Condition	Risk 1 (High)
8/10	Fail	Risk 1 (High)
8/17	Pass w/ Conditions	Risk 1 (High)
7/27	Fail	Risk 2 (Medium)
8/24	Pass w/ Conditions	Risk 2 (Medium)



Compare food inspection data with census data

Are there any trends?

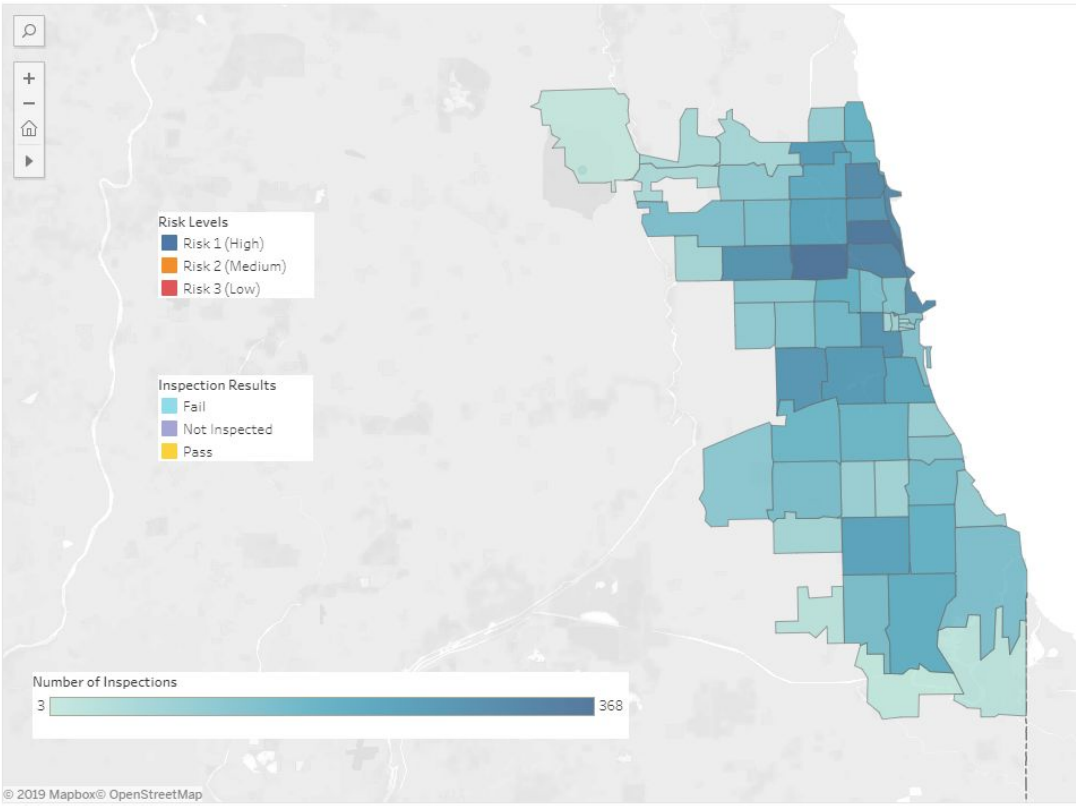
- higher rates of food inspection failures?
- food inspection risk levels go up?
- population diversity and relationship with food inspection?

Food Inspections and Bias in Chicago Tableau Dashboard

<https://public.tableau.com/profile/kitty2932#!/vizhome/FoodInspectionData--FinalAttempttoMerge/PopulationDemographics?publish=yes>

Data Visualization- Risk Levels and Inspection Results by Zip Code

Risk Levels and Inspection Results by Zip Code

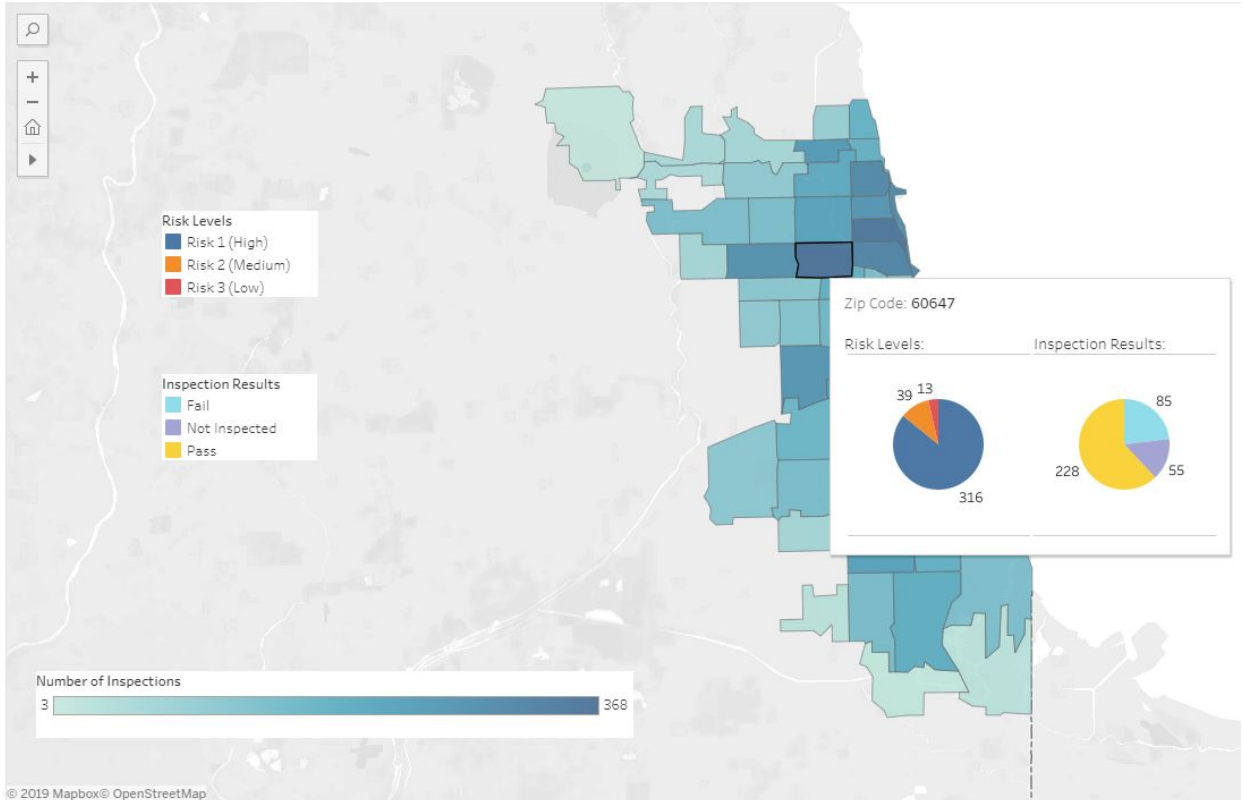


Link to Tableau:

<https://public.tableau.com/profile/kitty2932#!/vizhome/FoodInspectionData--FinalAttempttoMerge/Dashboard5?publish=yes>

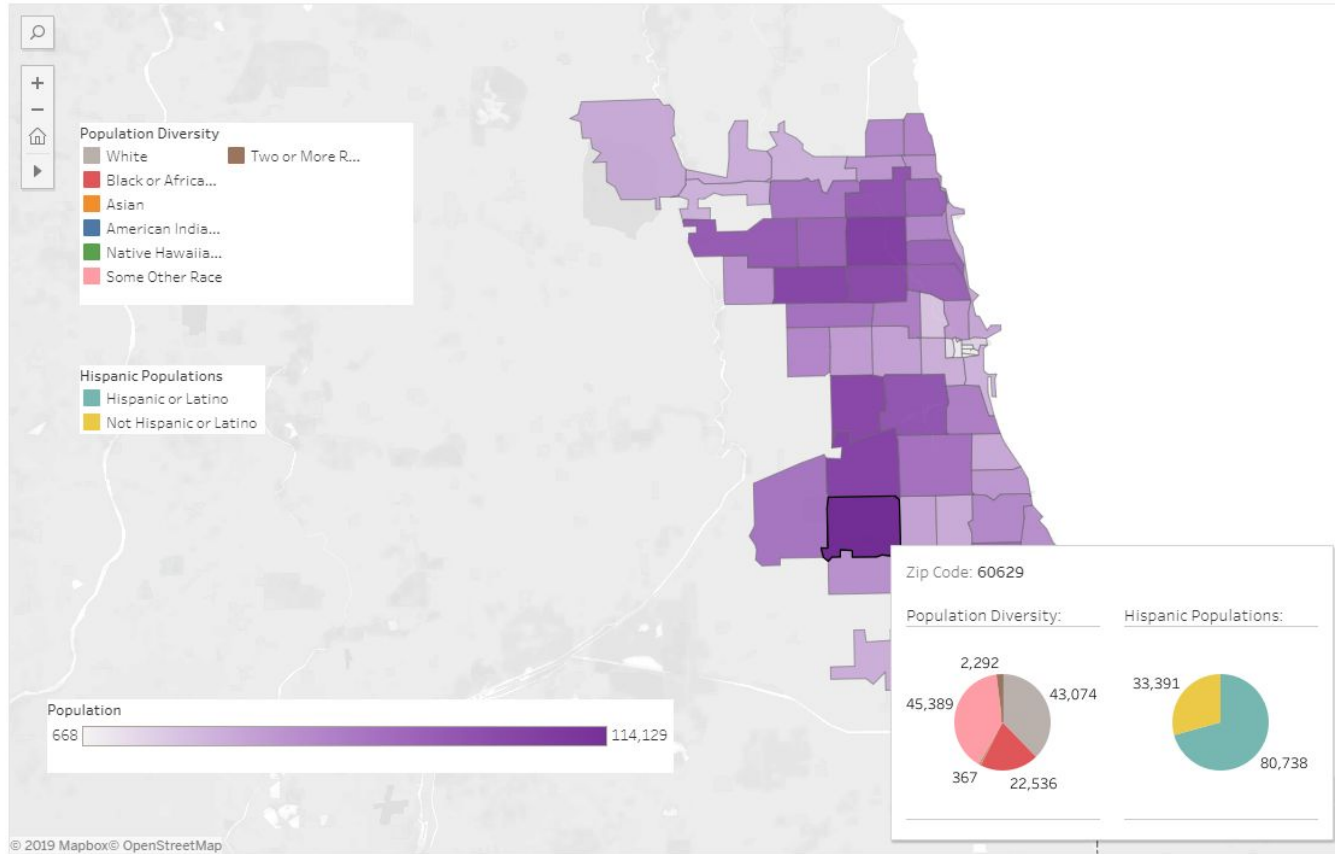
Risk Levels and Inspection Results of Zip 60647

Risk Levels and Inspection Results by Zip Code



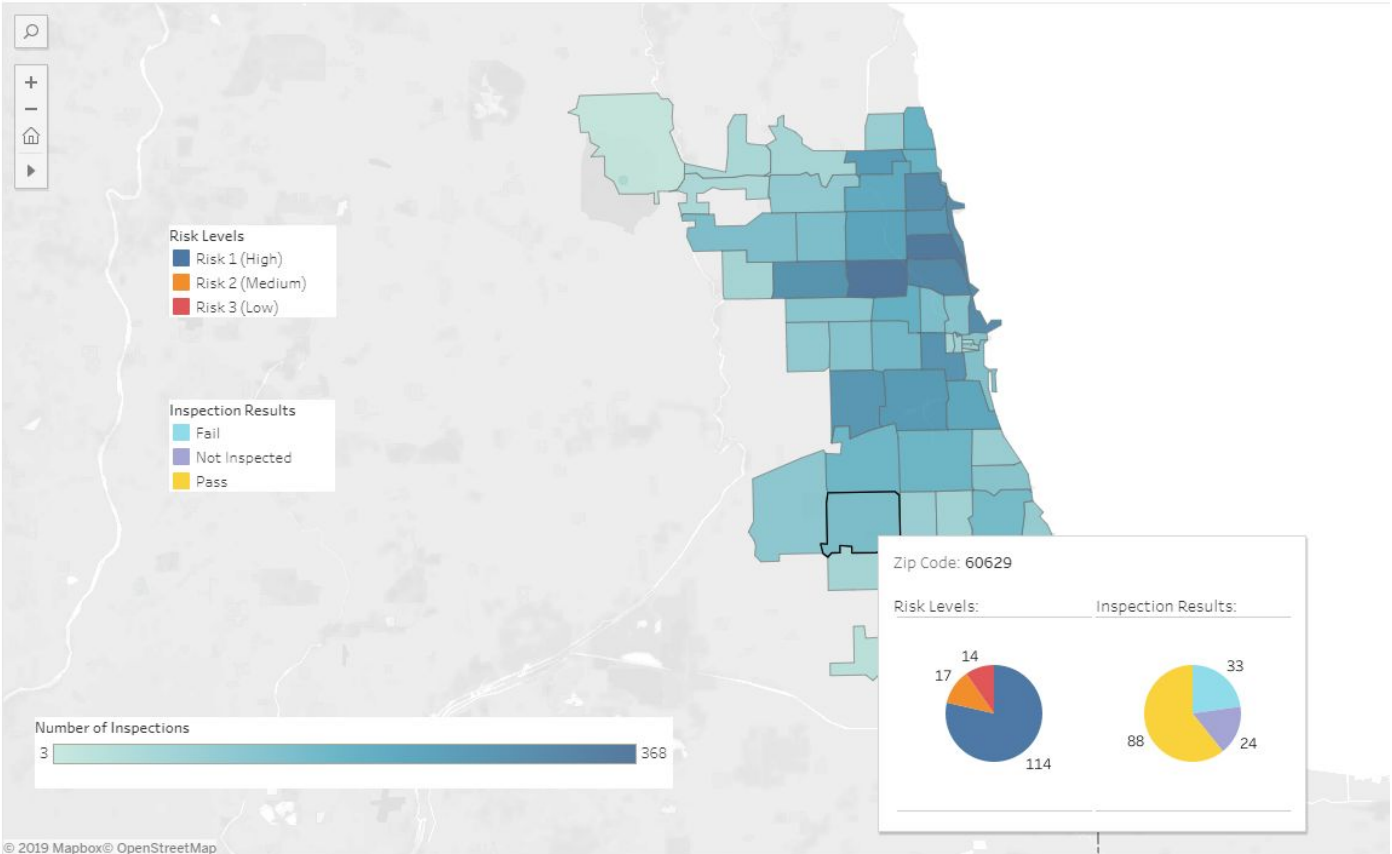
Demographics of Zip 60629

Population Demographics of Chicago by Zip Code



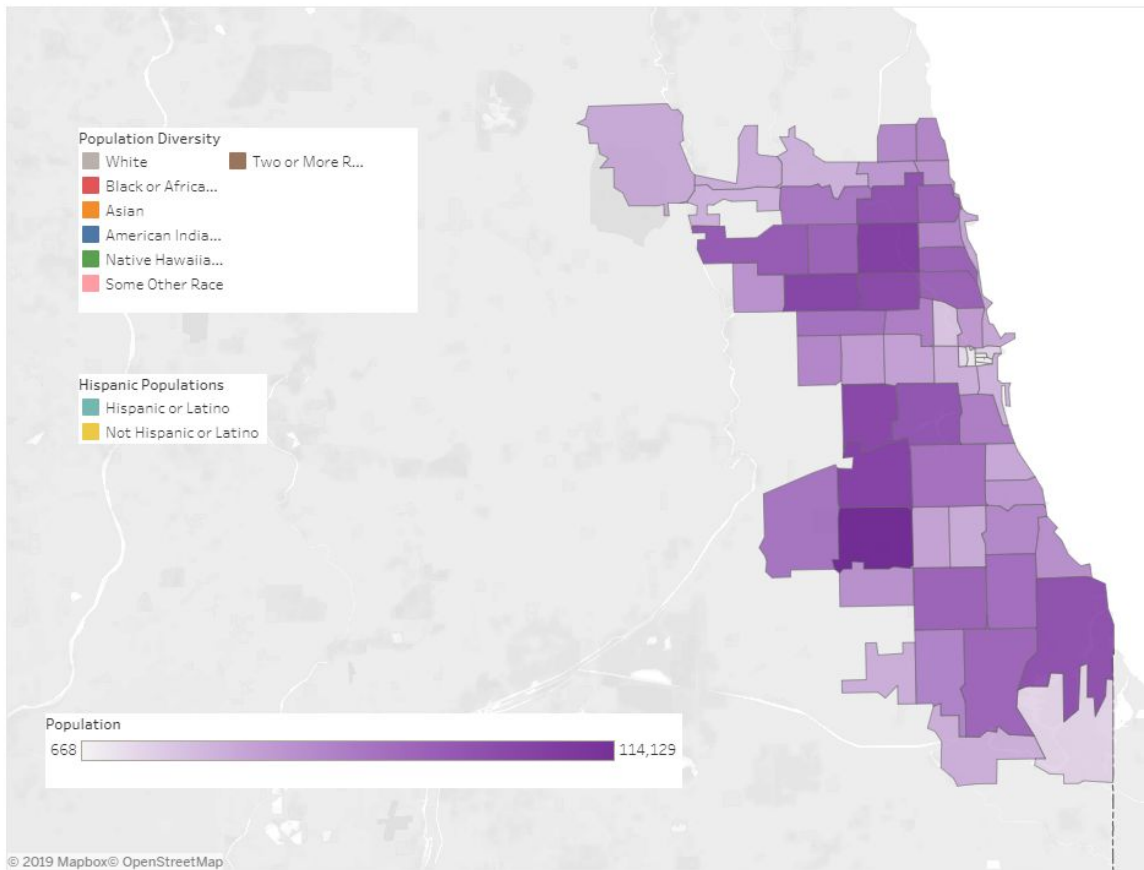
Risk Levels and Food Inspections of Zip 60629

Risk Levels and Inspection Results by Zip Code



Data Visualization- Population Demographics of Chicago by Zip Code

Population Demographics of Chicago by Zip Code



Conclusions & implications

Conclusions:

- When the food inspections increase, the risk level goes up; the probability of 'pass' result goes up
- Positive relationship between population diversity and Hispanic population

How will it help in the real practice?

- Let public and inspectors aware the importance of inspection frequency and potential for bias, help uncover bias
- Better understanding about the population distribution of Chicago: used in employment, marketing, business competitive advantages analysis

Thanks for listening!

Any questions?