GROUP 17

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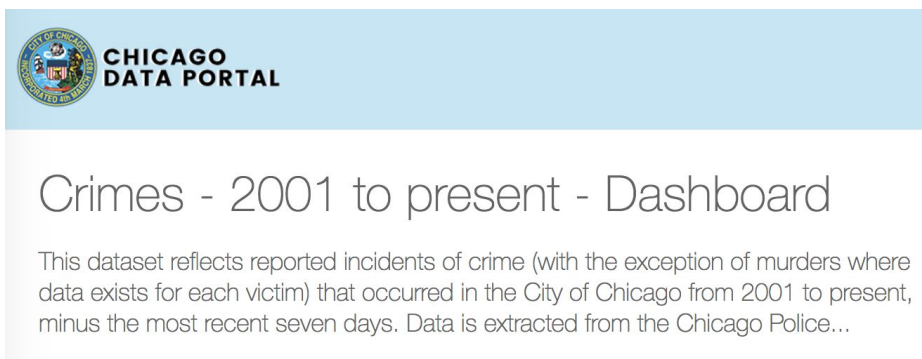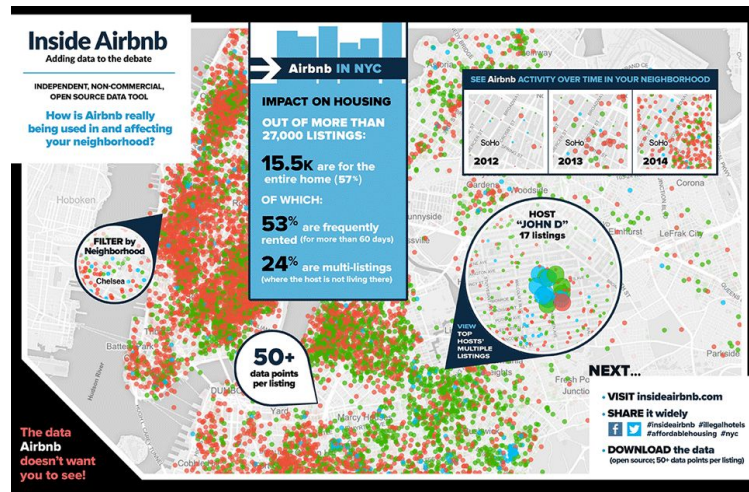How do you search Airbnb for convenience & safety?

Project Goal: A better Airbnb!

- Help Airbnb users identify safe and convenient neighborhoods

Datasets

- Airbnb

- Walk Score

- Chicago Police

Data Mapping

Crime Data:

- Extracted number of reported crimes by neighborhood and type
- Compared number of homicides per 100,000 people to number of all crimes per 100,000 people to give each neighborhood a safety rating
- Encoded safety rating on scale of 1-500 to help user spot top 5 safest neighborhoods for exploration
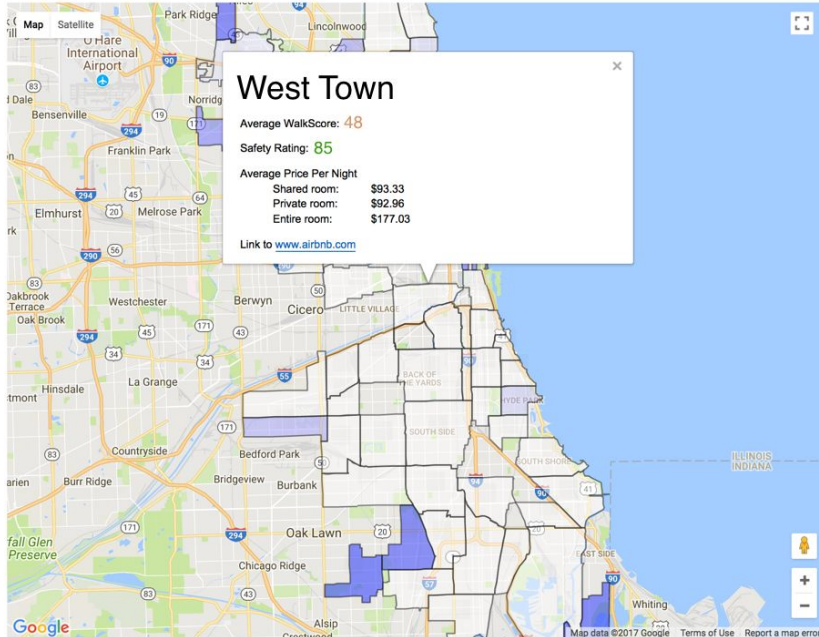
WalkScore:

- 1-100 scale pulled from WalkScore API, then scaled to 0-3 for heatmap

Implementation

Best neighborhoods based on combination of safety and convenience.

Neighborhoods → Shapes(Polygons)

Safety/Convenience Combination Rating → Color Saturation

Airbnb Neighbourhoods

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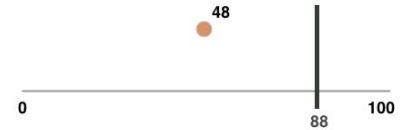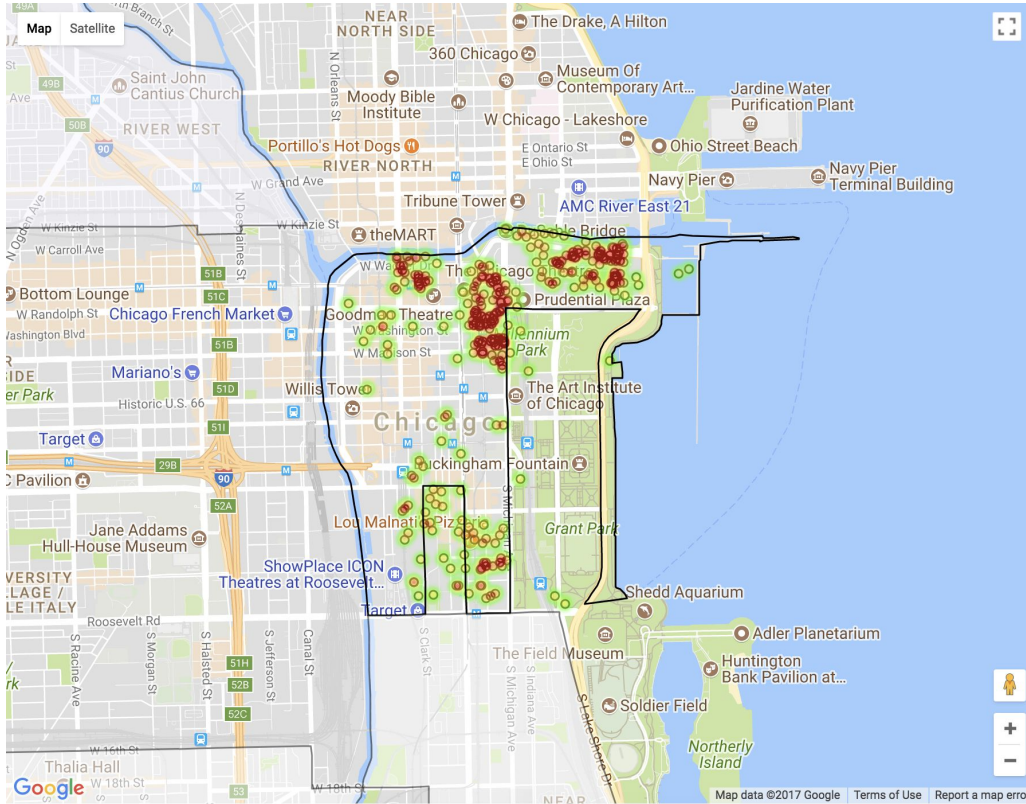
Map | Satellite

West Town

Average WalkScore: 48

Safety Rating: 85

Average Price Per Night
Shared room: $93.33
Private room: $92.96
Entire room: $177.03

Link to www.airbnb.com

Map data ©2017 Google   Terms of Use   Report a map error

West Town

Safety Rating

85

0   75   100

Walk Score

48

0   88   100

Identify best locations within a neighborhood

Walk Scores → Color Saturation (heat maps)

Listings → Shapes (circles)

Questions & Answers

Thank You!