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



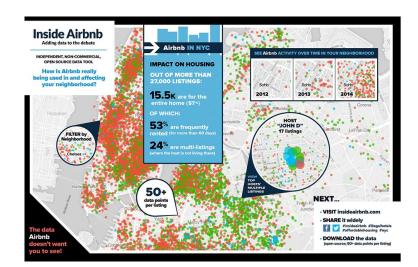




Datasets

- Airbnb
- Walk Score
- Chicago Police







Crimes - 2001 to present - Dashboard

This dataset reflects reported incidents of crime (with the exception of murders where data exists for each victim) that occurred in the City of Chicago from 2001 to present, minus the most recent seven days. Data is extracted from the Chicago Police...

Data Mapping

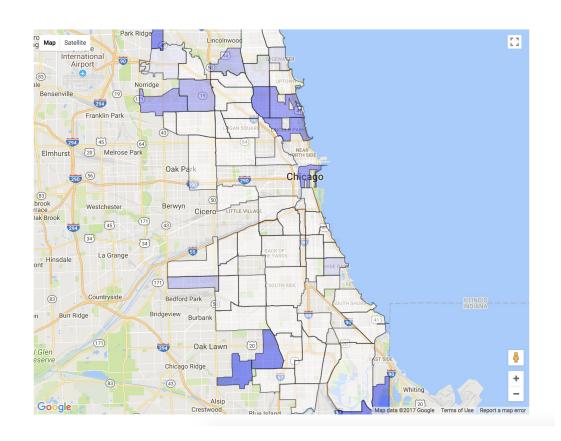
Crime Data:

- 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

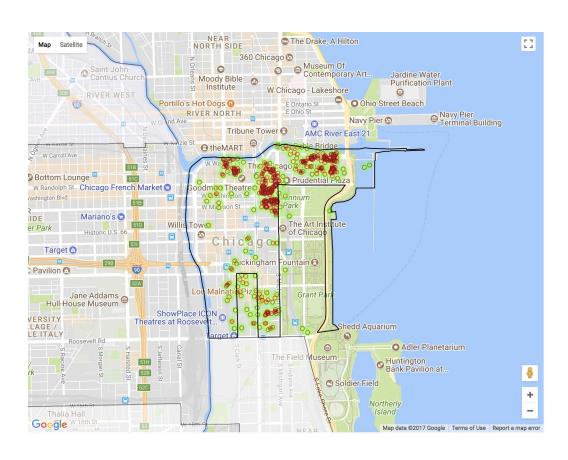


Best neighborhoods based on combination of safety and convenience.

Neighborhoods → Shapes(Polygons)

Safety/Convenience Combination Rating → Color Saturation

West Town Airbnb Neighbourhoods Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat Safety Rating Park Ridge (Map Satellite U Hare International Airport 1 Dale West Town 100 Bensenville Average WalkScore: 48 Safety Rating: 85 Franklin Park Average Price Per Night Shared room: \$93.33 [45] Private room: \$92.96 20 Melrose Park Elmhurst \$177.03 Walk Score Entire room: Link to www.airbnb.com 48 83 Dakbrook Terrace 0 100 La Grange Hinsdale Countryside Bedford Park Bridgeview Oak Lawn



Identify best locations within a neighborhood

Walk Scores → Color Saturation (heat maps)

Listings → Shapes (circles)

Questions & Answers

Thank You!