SafeStay LA Airbnb Safety Dashboard

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Problem

Why my work is needed

Data Sources

Where I got the data from

Data Utilization

How I used the data

- Crime and Population Data
- Airbnb Listings
- Airbnb Reviews

Dashboard

What I put on the dashboard

① Problem

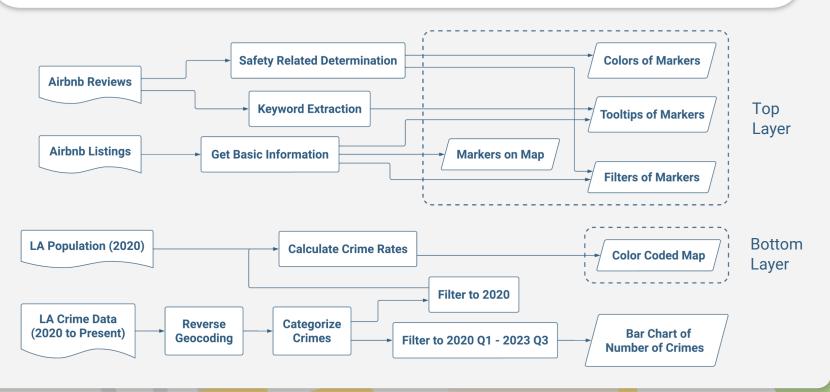
- Safety concerns in LA
- Airbnb app's lack of emphasis on safety considerations
- Empower users to prioritize safety in their accommodation choices

□ Data Sources

- Inside Airbnb Airbnb Listings & Reviews (Sep 3, 2023)
 (http://insideairbnb.com/get-the-data/)
- DataLA Crime data in Los Angeles (Nov 8, 2023)
 (https://data.lacity.org/Public-Safety/Crime-Data-from-2020-to-Present/2nrs-mtv8)
- US Census Bureau Population by ZIP Codes (2020)
 (https://data.census.gov/table/DECENNIALDHC2020.P1?g=040XX00US06\$8600000&y=2020)

O Data Utilization

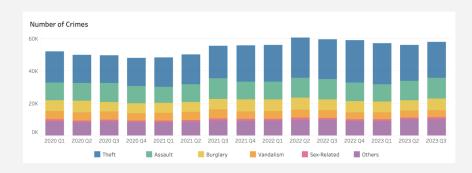
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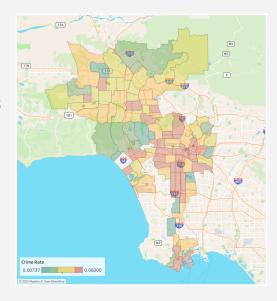


Crime and Population Data

- Reverse Geocoding (Nominatim)
- Categorized Crimes

- Crime Rate by ZIP Codes
- Number of Crimes by Quarters and ZIP Codes

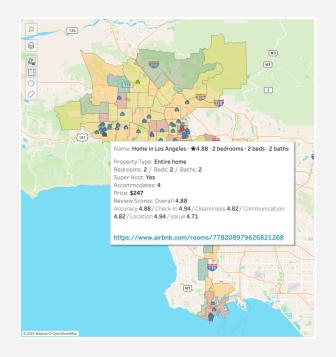




Airbnb Listings

Name

- Property Type, Room Type
- Bedrooms, Beds, Baths
- Super Host
- Accommodates
- Price
- Ratings
- Listing URL



Airbnb Reviews

Cleaning

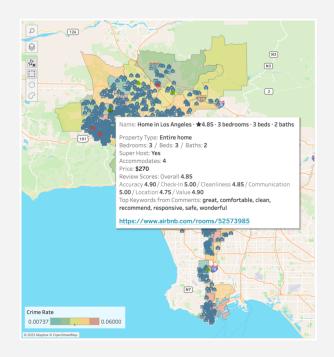
- Remove non-English reviews
- Remove comments that are too short

Keyword Extraction (yake)

 Remove host names and words that meant nothing when alone
 e.g. Wendy's house, place, Airbnb

Safety Related

 Set keywords: safe, security, danger, unsafe, safety, dangerous



Dashboard

- Remove areas that are not part of LA
- Remove Airbnb listings with no bottom layer

Dashboard

- Remove areas that are not part of LA
- Remove Airbnb listings with no bottom layer

https://public.tableau.com/views/SafeStayLAAirbnbSafet yDashboard/Dashboard22?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link



Thank You

SafeStay LA