**Project Proposal: Airbnb**

1. List of data sources

Kaggle: Airbnb Property Data from Texas

Kaggle’s data set contains 18,259 property listings in Texas and can be downloaded in a CSV file. The data contains: Rate per night, Number of bedrooms, City, Joining month and year, Longitude, Latitude, Property description, Property title & Property URL.

<https://www.kaggle.com/PromptCloudHQ/airbnb-property-data-from-texas>

Census API

The Census API provides raw statistical data. This will allow our group to pull information such as: population, poverty, unemployment.

1. Inspiration! Other analyses done

[Opendatasoft: Airbnb Listings](https://public.opendatasoft.com/explore/dataset/air-bnb-listings/table/?disjunctive.neighbourhood&disjunctive.column_10&disjunctive.city&location=2,-3.51342,0&basemap=jawg.streets&dataChart=eyJxdWVyaWVzIjpbeyJjaGFydHMiOlt7InR5cGUiOiJsaW5lIiwiZnVuYyI6IkFWRyIsInlBeGlzIjoiaWQiLCJzY2llbnRpZmljRGlzcGxheSI6dHJ1ZSwiY29sb3IiOiIjRkY1MTVBIn1dLCJ4QXhpcyI6InVwZGF0ZWRfZGF0ZSIsIm1heHBvaW50cyI6IiIsInRpbWVzY2FsZSI6InllYXIiLCJzb3J0IjoiIiwiY29uZmlnIjp7ImRhdGFzZXQiOiJhaXItYm5iLWxpc3RpbmdzIiwib3B0aW9ucyI6eyJkaXNqdW5jdGl2ZS5uZWlnaGJvdXJob29kIjp0cnVlLCJkaXNqdW5jdGl2ZS5jb2x1bW5fMTAiOnRydWUsImRpc2p1bmN0aXZlLmNpdHkiOnRydWV9fX1dLCJkaXNwbGF5TGVnZW5kIjp0cnVlLCJhbGlnbk1vbnRoIjp0cnVlfQ%3D%3D)

Opendatasoft shows different Airbnb property data from across the world, which spans a time frame of 2015-2020. This data can be filtered down into the Country, City and Neighborhood. They provide visualizations such as an interactive map and graphs.

Chart

Description automatically generated

[kdnuggets: airbnb](https://www.kdnuggets.com/2017/08/insights-data-mining-airbnb.html)

Kdnuggets used the Kaggle data set to perform an analysis that plots pricing in terms of density and how expensive the rentals are. They also provided a graphical representation of this information.

Map

Description automatically generated

1. Possible Research Questions (chapters of the data story)

With this project we would like to analyze the data to answer the following questions:

* Where is the most popular place to open up an Airbnb?
* Where can I make the most money with Airbnb?
* Is there a correlation between population and Airbnb availability?
* Is there a correlation between Airbnb rates/availability and population/poverty?
* Is there a difference in Airbnb price between urban and rural areas?

1. Breakdown of roles

Cleaning Data – All

Google Map Visualization - Diana

Visualization - Ericka

Regression - Steven

Write-up – All input with sections assigned (compilation Diana & Ericka)

Slide Deck – All input with sections assigned (compilation Steven)