**AirBnB & Zillow Data Challenge**

**AirBnB & Zillow Data Files – Dataset Level Metadata**

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| **Data File(s)** | **Description** |
| Listings | Information on the listing including location, number of bedrooms, room types (entire home/private home/shared home) |
| ZHVI 2 – Bedroom Time Series ($) *(by zip code)* | Cost data to determine the average property price for 2 bedrooms |

**AirBnB Detailed Listings Dataset – Column Level Metadata**

Listings

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| **Field** | **Description** |
| Id | Identifier used by AirBnB for the listing |
| listing\_url | URL used by AirBnB for their listing |
| scrape\_id | Identifier used internally by AirBnB to identify the date of the data |
| last\_scraped | Identifier used internally by AirBnB to identify when the data was last pulled. |
| Name | Header created by host to entice potential occupants to stay at their property |
| Summary | Description provided by the host of their property |
| Space | Description provided by host describing the space (bedrooms, bathrooms, sqft, etc) of their property |
| Description | Detailed information about the property, neighborhood, amenities, location, and anything else the host feels would be beneficial to share |
| experiences\_offered | Information about what experiences are offered; eg. Bikes, surfing, canoes, etc |
| neighborhood\_overview | Additional detail about the neighborhood including sites to see, restaurants, noise, landmarks around, etc. |
| Notes | Any other additional notes the host would like to disclose, which was not provided in the other description information. |
| Transit | Host can provide the kind of transportation available nearby including bus, trains, airport, etc.. |
| Access | Description on how to enter the home, what area of the home is available for use, and what you are able items you are able to use during your stay. |
| Interaction | The availability of the host; could be in person, phone, email, text, etc. The host provides guidelines of what the occupant can expect for communication and if they expect to meet. |
| house\_rules | The host provides rules of the home that they expect the occupant to adhere to. Examples include clean up, laundry, dishes, etc. |
| thumbnail\_url | URL specific to AirBnB where the posted pictures are stored. |
| medium\_url | URL specific to AirBnB where the posted pictures are stored. |
| picture\_url | URL specific to AirBnB where the posted pictures are stored. |
| xl\_picture\_url | URL specific to AirBnB where the posted pictures are stored. |
| host\_id | Identifier assigned to a particular host. A host can have multiple properties listed and would have the same unique identifier. |
| host\_url | URL assigned to the host for their listing. |
| host\_name | Name of the host. |
| host\_since | Date of when the host first initiated their account with AirBnB. |
| host\_location | City, State, and Country of where the host is located. |
| host\_about | Information provided by host to potential occupant. |
| host\_response\_time | Time a potential occupant can expect to receive a response after inquiring about the property. |
| host\_response\_rate | Percentage of historical responses |
| host\_acceptance\_rate | Percentage of historical acceptances from potential occupants. This information is currently unavailable. |
| host\_is\_superhost | Superhosts are experienced hosts who provide a shining example for other hosts, and extraordinary experiences for their guests. |
| host\_thumbnail\_url | URL assigned to host where the pictures are posted |
| host\_picture\_url | URL assigned to host where the pictures are posted |
| host\_neighbourhood | Name of the neighborhood the host is listing the property at |
| host\_listings\_count | Number of properties host has listed on AirBnB currently |
| host\_total\_listings\_count | Number of properties host has ever listed on AirBnB |
| host\_verifications | Avenues a potential occupant can check on the host to verify reputation |
| host\_has\_profile\_pic | Indicator for profile picture provided  t = yes  f = no |
| host\_identity\_verified | Further checks have been conducted by host to AirBnB to verify existence and reputation.  t = yes  f = no |
| street | Street address where the property is located |
| neighbourhood | Neighborhood where the property is located |
| neighbourhood\_cleansed | Verified neighborhood name where the property is located. |
| neighbourhood\_group\_cleansed | Name of the area where the property is located. |
| city | City where the property is located. |
| state | State where the property is located. |
| zipcode | Zip code where the property is located. |
| market | State where the property is located |
| smart\_location | City and state together where the property is located. |
| country\_code | Country abbreviation where the property is located. |
| country | Full country name where the property is located. |
| latitude | The angular distance of a place north or south of the earth's equator, expressed in degrees and minutes. |
| longitude | The angular distance of a place east or west of the meridian at Greenwich, England, expressed in degrees and minutes. |
| is\_location\_exact | Indicator to validate if the latitude and longitude is exact or not.  t = yes  f = no |
| property\_type | Indicates the type of house is this is considered. Examples are house, apartment, townhomes, etc... |
| room\_type | Indicates specific rooms available for rent and/or the entire home. |
| accommodates | Indicates the amount of people the host is allowing to occupy the property. |
| bathrooms | Indicates the number of bathrooms within the property. |
| bedrooms | Indicates the number of bedrooms within the property. |
| beds | Indicates the number of beds within the property for use. |
| bed\_type | Indicates the type of bed the property has. ie. futon, real bed, airbed, etc. |
| amenities | Provides the potential occupant the type of convenience items included as part of rent. Items include cable television, wifi, toiletries, food, etc.. |
| square\_feet | Square footage of the property or space for rent. |
| price | Price the host is charging to stay per night. |
| weekly\_price | Weekly price the host is charging; this could be discounted for longer term stays. |
| monthly\_price | Monthly price the host is charging; this could be discounted for longer term stays. |
| security\_deposit | Amount the host would like upfront for any incidentals (should you damage anything during your stay). |
| cleaning\_fee | Price the host is charging to clean up after your stay. |
| guests\_included | Indicates the number of guests the host is allowing you to bring along. |
| extra\_people | Additional charge per additional guests you bring. |
| minimum\_nights | Minimum amount of nights the host is willing to rent out the property. |
| maximum\_nights | Maximum amount of nights the host is willing to rent out the property. |
| calendar\_updated | Indicates when the host has updated the availability of when the property is available to rent. |
| has\_availability | Indicator to show if the host has availability currently; not currently available at the moment. |
| availability\_30 | Indicates the number of days the property is available for rent within 30 days. |
| availability\_60 | Indicates the number of days the property is available for rent within 60 days. |
| availability\_90 | Indicates the number of days the property is available for rent within 90 days. |
| availability\_365 | Indicates the number of days the property is available for rent within 365 days. |
| calendar\_last\_scraped | Date when the availability calendar was last pulled by AirBnB. |
| number\_of\_reviews | Number of reviews received for the property for its entire existence within AirBnB. |
| first\_review | Date of when the first review was provided. |
| last\_review | Date of when the last review was provided. |
| review\_scores\_rating | Overall score given based on accuracy, cleanliness, check-in, communication, location, and value. |
| review\_scores\_accuracy | Score based on the accuracy of the description and pictures provided in the listing of the host. |
| review\_scores\_cleanliness | Score based on the cleanliness of the property when occupant arrived property. |
| review\_scores\_checkin | Score based on the ease of checkin when the occupant arrived to the property. |
| review\_scores\_communication | Score based on the communication between host and occupant before and during their stay. |
| review\_scores\_location | Score based on the location of the property. |
| review\_scores\_value | Score based on the price charged for the property based on everything that is offered. |
| requires license | Indicator to show if the host requires a license to stay at the property.  t = yes  f = no |
| license | Host should require a license; this field would have the number. |
| jurisdiction\_names | Name of the jurisdiction of where the property is at. This filed is currently unavailable. |
| instant\_bookable | Indicates if the property can be booked immediately or is currently unavailable to book.  t = yes  f = no |
| cancellation\_policy | Indicates how flexible the host is for cancelling the reservation. Values range from flexible to superstrict. |
| require\_guest\_profile\_picture | Requires the occupant to provide a picture in order to reserve the property. |
| require\_guest\_phone\_verification | Requires the occupant to provide a valid phone number in order to reserve the property. |
| calculated\_host\_listings\_count | Total number of listings the host has on AirBnB. |
| reviews\_per\_month | Number of reviews the host has received on average per month. |

**Zillow Median Home Value Datasets – Column Level Metadata**

ZHVI 2 – Bedroom Time Series ($) *(by zip code)*

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| **Field** | **Description** |
| RegionID | Zillow assigned number only, assigned consecutively when the regions are defined. |
| RegionName | Zip code of where the property is located. |
| City | City of where the property is located. |
| State | State of where the property is located. |
| Metro | General name of the surrounding area where the property is located. |
| CountyName | Political and administrative division of a state, referred to as a particular part of the state. |
| SizeRank | Population of the area; the lower the number the greater the population. |
| 1996-04 – XXXX-XX  (XXXX-XX indicates the latest date available at the time the data is pulled) | Indicates the historical median price within that area. |