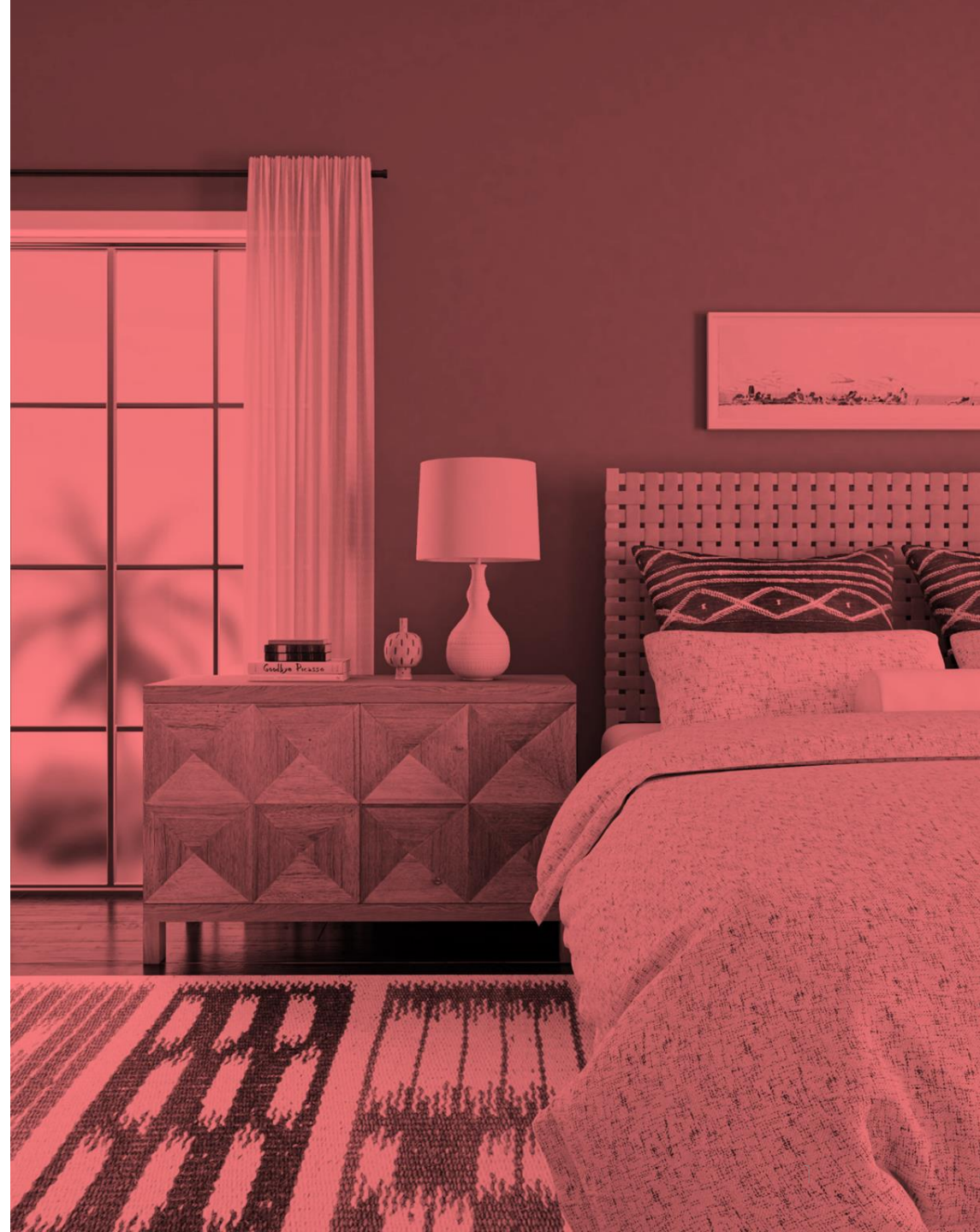# airbnb

AirBed&Breakfast

Airbnb Listings Data Analysis

Created By

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Topic Area

Airbnb

A web platform where users can rent out their space to host travelers to

6M Active listings worldwide

220+ countries and regions

Challenge

Helping customers to have a more informed decision when choosing from Airbnb listings by providing a visual overview and a tool to filter based on customers needs including:

Price Range

Reviews
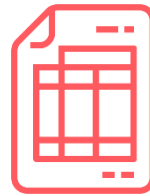
Property Type

Room Type

The Data

About the Data

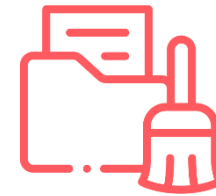The observations in this data set represents some of the best Airbnb listings in 10 different cities.

200,000+
Observations

33
Variables

1,000+
Null Values

Variables of Interest

City

City the Listing is in. 10 different cities (String)

Property Type

More than 100 different properties (String)

Host is super host

Binary field to determine if the Host is a Superhost (Boolean)

Price

Listing price per night, reported in each country's currency (Number)

Neighborhood

Neighborhood the Listing is in. 660 different neighborhoods (String)

Room Type

4 different room types (String)

Amenities

Listed amenities provided by the host

Review score rating

Listing's overall rating out of 100. (Number)

Data Cleaning & Preparing

Pivot Data

New Fields

- To calculate new information based on in-field data ("Amenities" & "Reviews")

Calculated Field

Several calculated fields

- Price in dollar: Converting "Prices" from local to USD
- Negative sentiment: Interpreting the "review scores"
- Splitting data: Splitting "Amenities" values into multiple fields

Missing Data

Null Values

- Discovering, Deleting or Replacing

9

Dashboard

An overview of sample Airbnb data which is collected from:
Maven Analytics Data Playground
(All prices converted to USD)

10 Cities
279,546 Listings
143 Prop. Type
181,900 Hosts

Where do you like to go?
All

Room Type
☑ Entire place
☑ Hotel room
☑ Private room
☑ Shared room

Host Type
○ Not Super Host
◉ Super Host

Price USD$
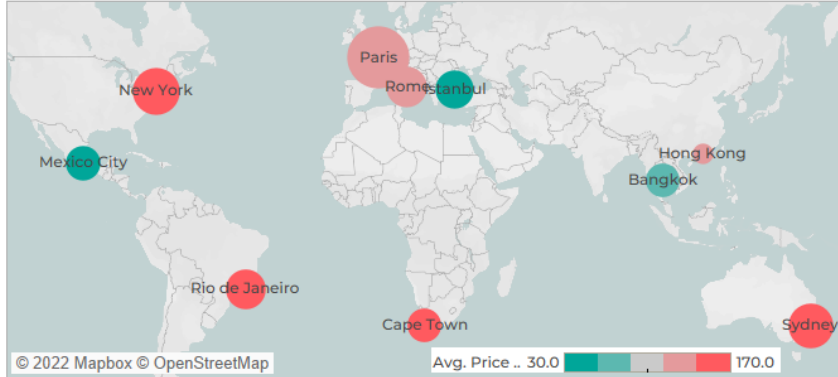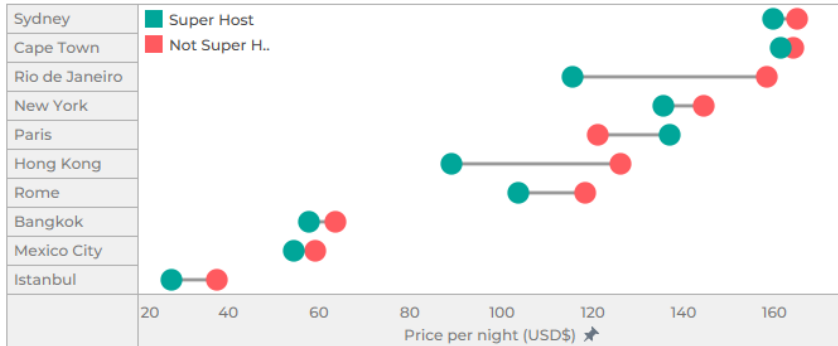0 to 128652

Geographic Locations by No. of Listings (Size) and Avg. Price

Paris
Rome Istanbul
New York
Mexico City
Hong Kong
Bangkok
Rio de Janeiro
Cape Town
Sydney

© 2022 Mapbox © OpenStreetMap

Avg. Price .. 30.0 — 170.0

Average price per night (USD$)

City	Price
Sydney	164.3
Cape Town	163.6
Rio de Janeiro	151.0
New York	142.9
Paris	123.3
Hong Kong	119.4
Rome	114.6
Bangkok	62.3
Mexico City	57.5
Istanbul	36.2

Host Type Perc.

17.98% Super Host
82.02% Not Super Host

Avg. prices offered by hosts

■ Super Host
■ Not Super H..

Sydney, Cape Town, Rio de Janeiro, New York, Paris, Hong Kong, Rome, Bangkok, Mexico City, Istanbul
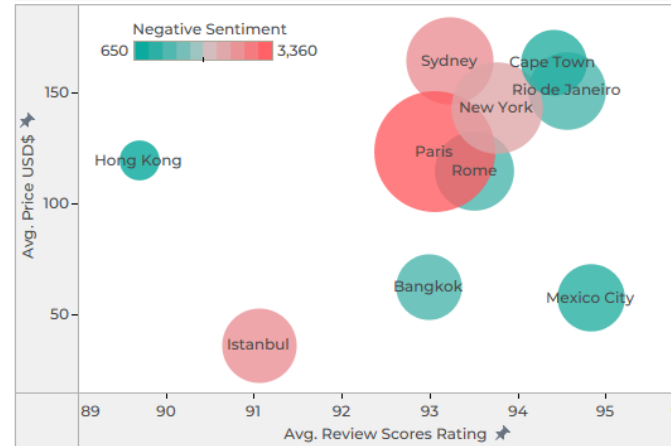
Price per night (USD$)
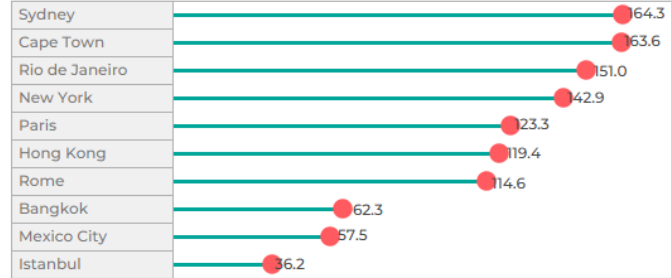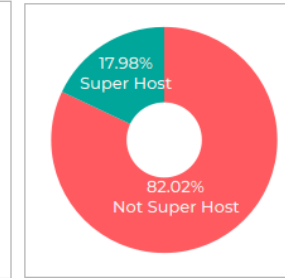
Avg Price/Review Score (By No. of Listings/ Negative Sentiments)

Negative Sentiment
650 — 3,360

Hong Kong
Sydney
Cape Town
Rio de Janeiro
New York
Paris
Rome
Bangkok
Mexico City
Istanbul

Avg. Price USD$
Avg. Review Scores Rating

Room Type Perc.

65.06% Entire place
31.10% Private room
2.10% Hotel room
1.74% Shared room

Count of Room Type
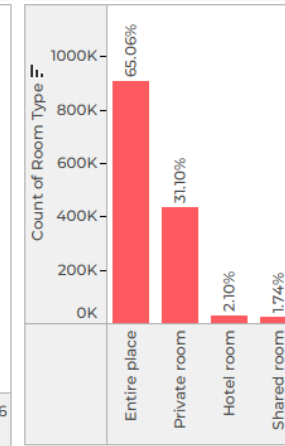
Avg. Price of Room Types in Each City

Entire place	Hotel room	Private room	Shared room
Sydney 217.0	Paris 249.6	Rome 98.1	Hong Kong 101.0
Cape Town	New York	Paris 94.2	Sydney 46.7
New York 172.8	Cape Town 149.0	Rio de Janeiro	Rome 39.7
Rio de Janeiro	Sydney	Hong Kong 84.2	Bangkok 34.0
Hong Kong 124.4	Hong Kong 104.7	New York	Mexico City
Rome	Rome	Sydney	
Mexico City	Mexico City 68.3	Bangkok	Istanbul
Bangkok 64.7	Bangkok	Mexico City 39.8	
Istanbul 43.8	Istanbul	Istanbul	

Top 10 Least Expensive Property Types (for Adventurers)

Property Type	Price
Entire in-law	23.80
Room in casa particular	23.20
Shared room in yurt	19.77
Shared room in farm stay	18.73
Entire dorm	18.46
Shared room in kezhan	17.09
Private room in cave	15.00
Shared room in tent	14.80
Shared room in hut	12.80
Private room in holiday park	7.68
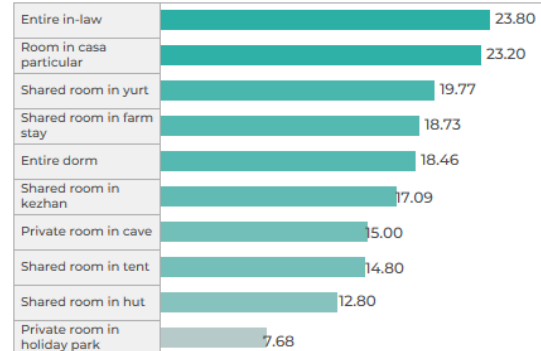
Top 10 Most Expensive Property Types (for luxurious tastes)

Property Type	Price
Boat	972.5
Shared room in island	882.9
Entire villa	763.2
Entire resort	628.1
Shared room in igloo	545.0
Houseboat	470.1
Private room in boat	401.8
Private room in lighthouse	367.0
Private room in resort	349.5
Private room in castle	345.5
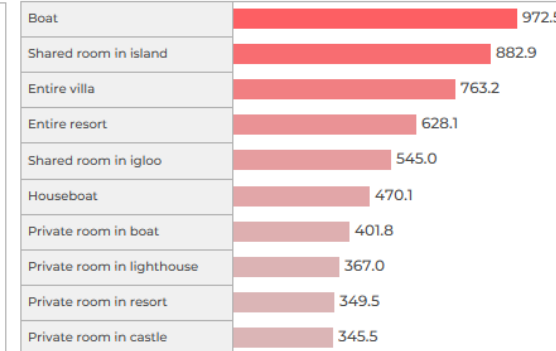
The most expensive city
Sydney is the most expensive city by average price (US$)

Paris
Paris is the city with both highest no. of listings and highest no. of negative reviews.

Super Hosts
In all cities (except for Paris) avg. prices offered by Super Hosts are lower than other hosts.

11

The Story of Sydney

airbnb

Sydney's Story

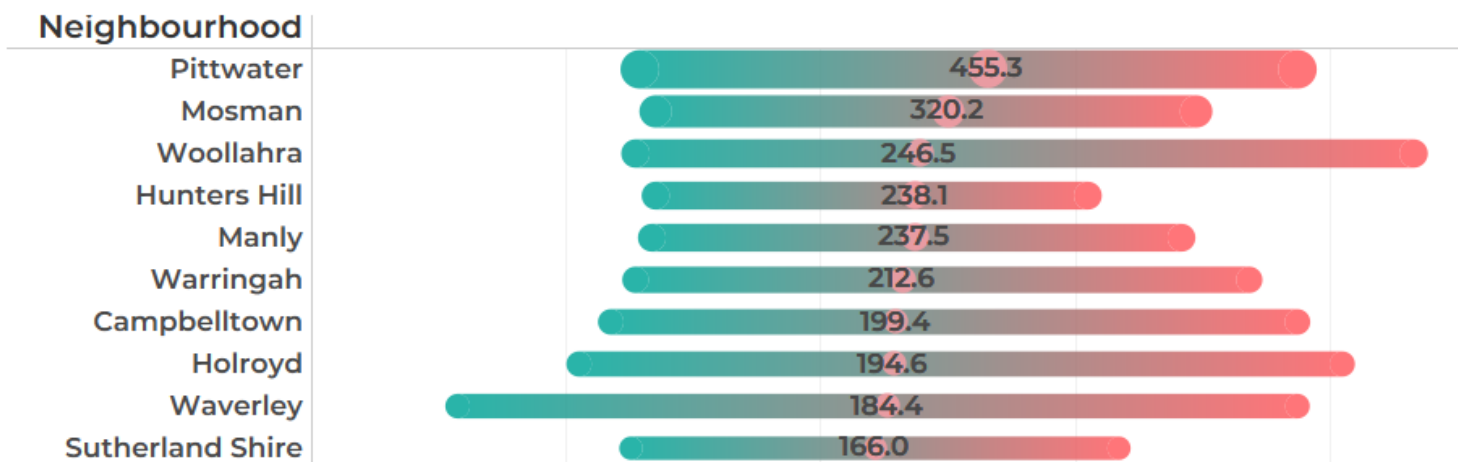Why Sydney?

High-end Neighborhoods

Expensive Properties

Amenities

Sydney's Top 10 Expensive Neighbourhoods Avg. Price Distribution

Neighbourhood

Neighbourhood	Avg. Price
Pittwater	455.3
Mosman	320.2
Woollahra	246.5
Hunters Hill	238.1
Manly	237.5
Warringah	212.6
Campbelltown	199.4
Holroyd	194.6
Waverley	184.4
Sutherland Shire	166.0

The Highest and Lowest Reviews for Top 3 Most Expensive Neighboorhoods in Sydney

Avg. Scores ★

Mosman
- Location 9.7869
- Value 9.3024

Pittwater
- Checkin 9.8821
- Value 9.4071

Woollahra
- Location 9.8092
- Cleanliness 9.2000
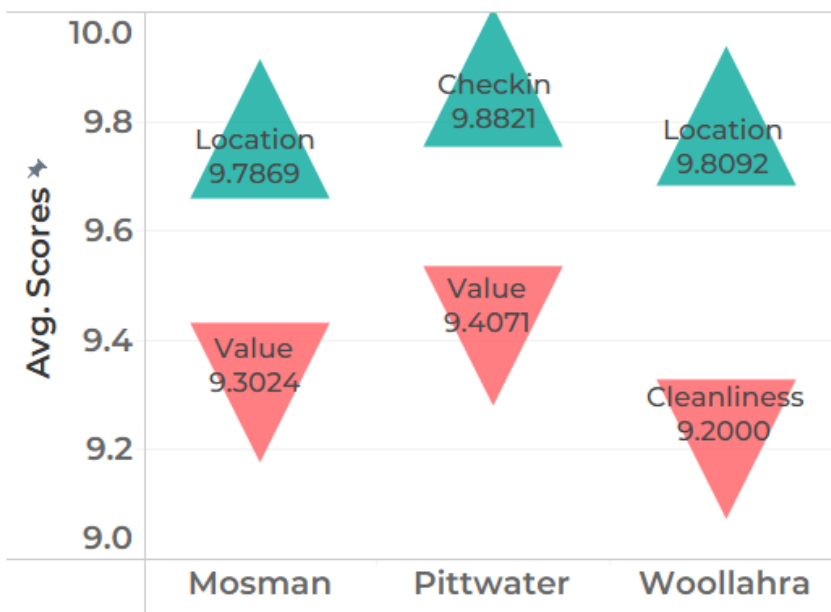
Interpretation:

The top 3 most expensive neighbourhoods (by average price) scored highest on:

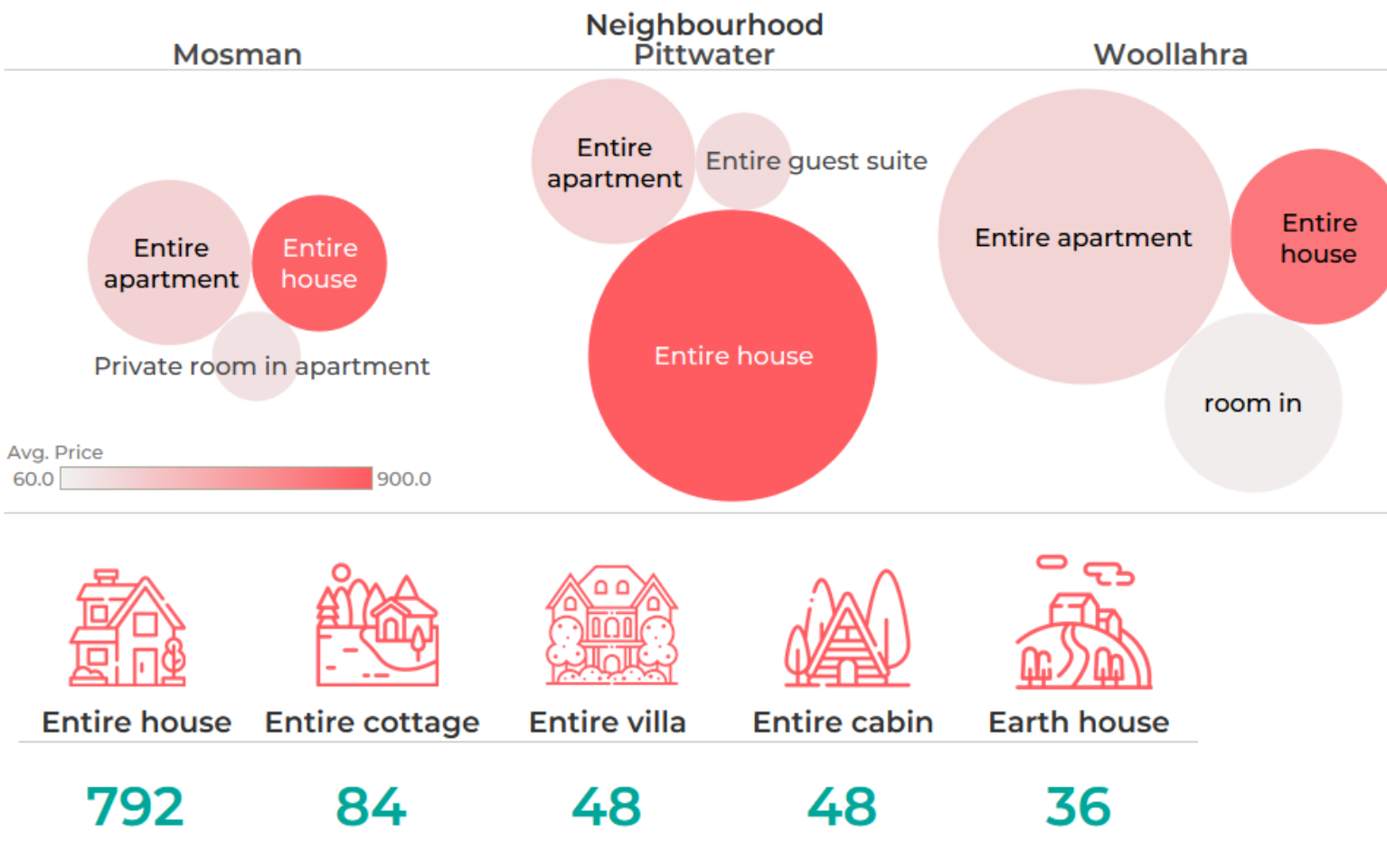 - *Location, Check-in*

and lowest on:

  - *Value, Cleanliness*

15

Amenities of High Priced Listings in The Top 3 Neighbourhoods

"TV with Netflix" "Breakfast" "Private entrance" "Portable fans"
"Iron" "Free parking on premises" "Smoke alarm" "Bathtub"
"Stove" **"Indoor fireplace"** **"Bed linens"**
"Balcony"
"Hair dryer""Coffee maker" "Essentials" "Dryer"
:hine"
"Garden or backyard" "Office"
"Beachfi
"Fire extinguisher" **"Patio or balcony"**
"Hot tub""Cleaning products"
"Ironing board" **"Shampoo"** "TV" **"High chair"**
"Pets allowed"
"Lockbox""Heating""Washer" "Baking sheet"
"Air conditioning"

Count of Amenities-Name
0 ▬▬▬▬▬▬ 108

High-end property types in the top 3 expensive neighbouhoods in Sydney mostly have "**Garden or Backyard**".
"**Patio or balcony**", "**Shampoo**" and "**Hair dryer**" are other most common amenities in these listings in Airbnb.

Resources

Data

Airbnb listings & reviews > https://www.mavenanalytics.io/data-playground?page=2

Pictures

https://content.r9cdn.net/rimg/dimg/43/4b/72c43e11-city-2258-17a3a42c3ab.jpg?crop=true&width=1366&height=768&xhint=1597&yhint=1522

https://blog.modsy.com/wp-content/uploads/2021/04/tr_29432b84-4b1b-437e-9b22-33184408a39a_729765_13_elsie_userview_5-scaled.jpg

https://assets.vogue.com/photos/6026a160d6d4503e97febeef/master/pass/0317-VO-WELL77-01.jpg

https://blogsmedia.lse.ac.uk/blogs.dir/30/files/2020/03/How-to-Design-A-City-Like-Amazon-image.png

https://static.dezeen.com/uploads/2020/02/house-in-the-landscape-niko-arcjitect-architecture-residential-russia-houses-khurtin_dezeen_2364_hero.jpg

Thanks For Your
Attention