

Airbnb Data Analysis

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Project Overview



Listing properties in
Singapore from Airbnb
marketplace



The right properties will
affect the number of rented
rooms and profits that are
earned

Business Problem

- Renting the right properties in Singapore by implementing the best strategy that gives the maximum profits

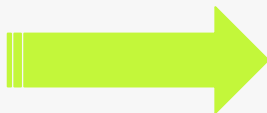
Business Task

- Analyze Singapore Airbnb datasets to identify the qualifications of the right properties to rent

Data Sources

- Airbnb Listings Properties Dataset
- Neighborhood Mapping Dataset
- Airbnb Listings Reviews History Dataset

2018
January

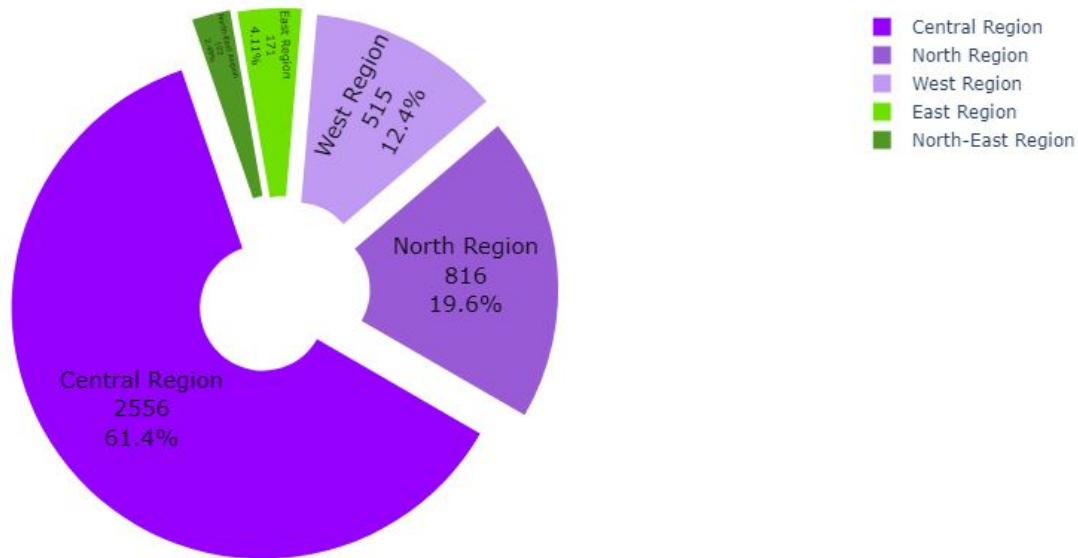


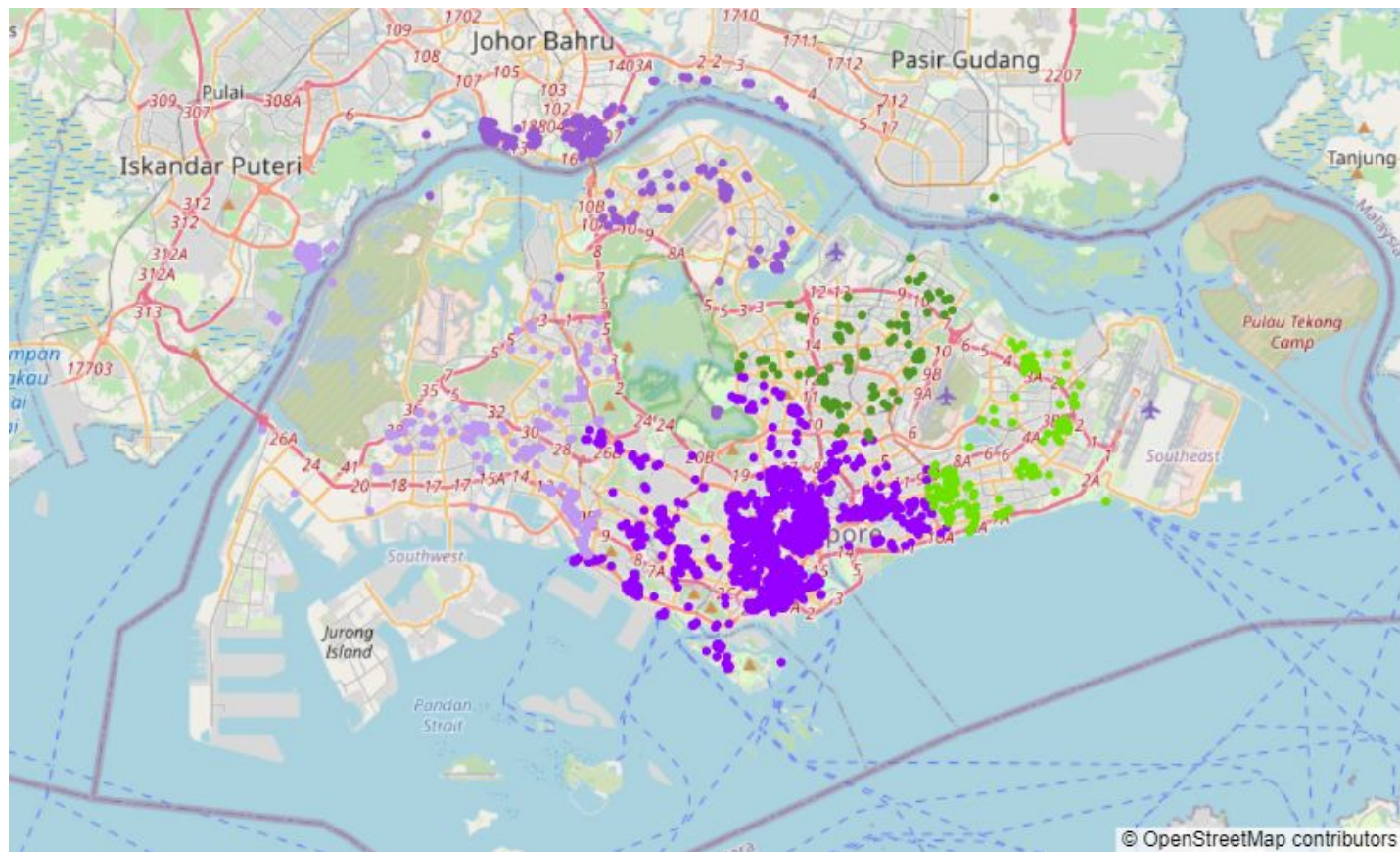
2022
September

Analysis Results

Listing Properties

Listing Distribution by Neighborhood Group

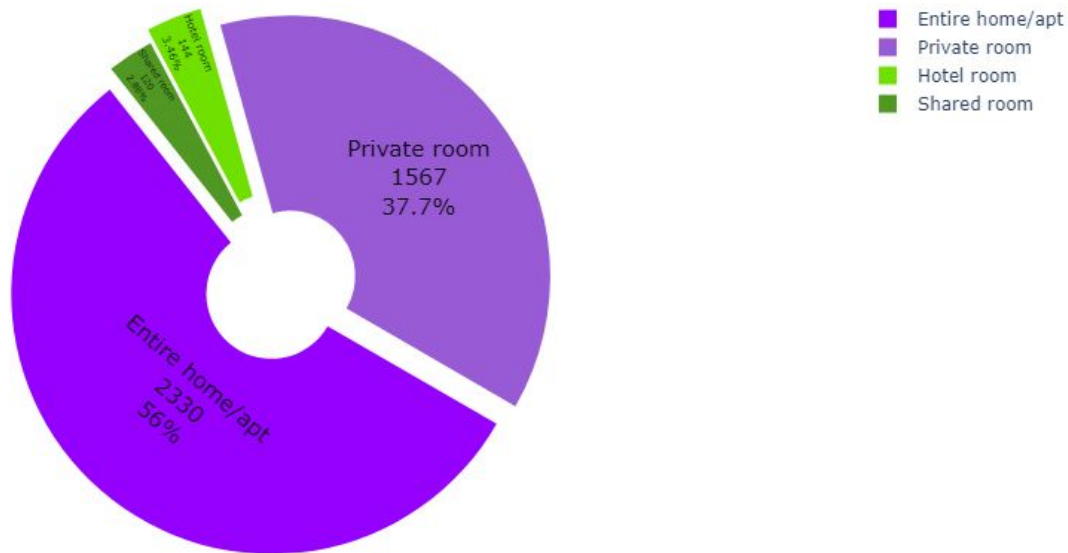




neighbourhood_group

- Central Region
- East Region
- North-East Region
- North Region
- West Region

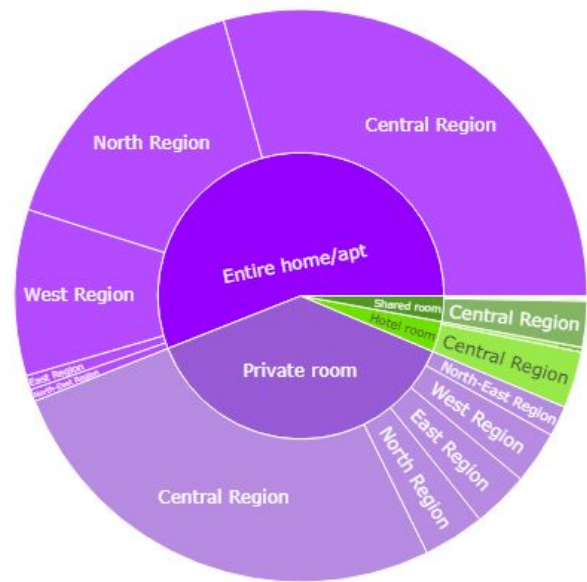
Listing Distribution by Room Type



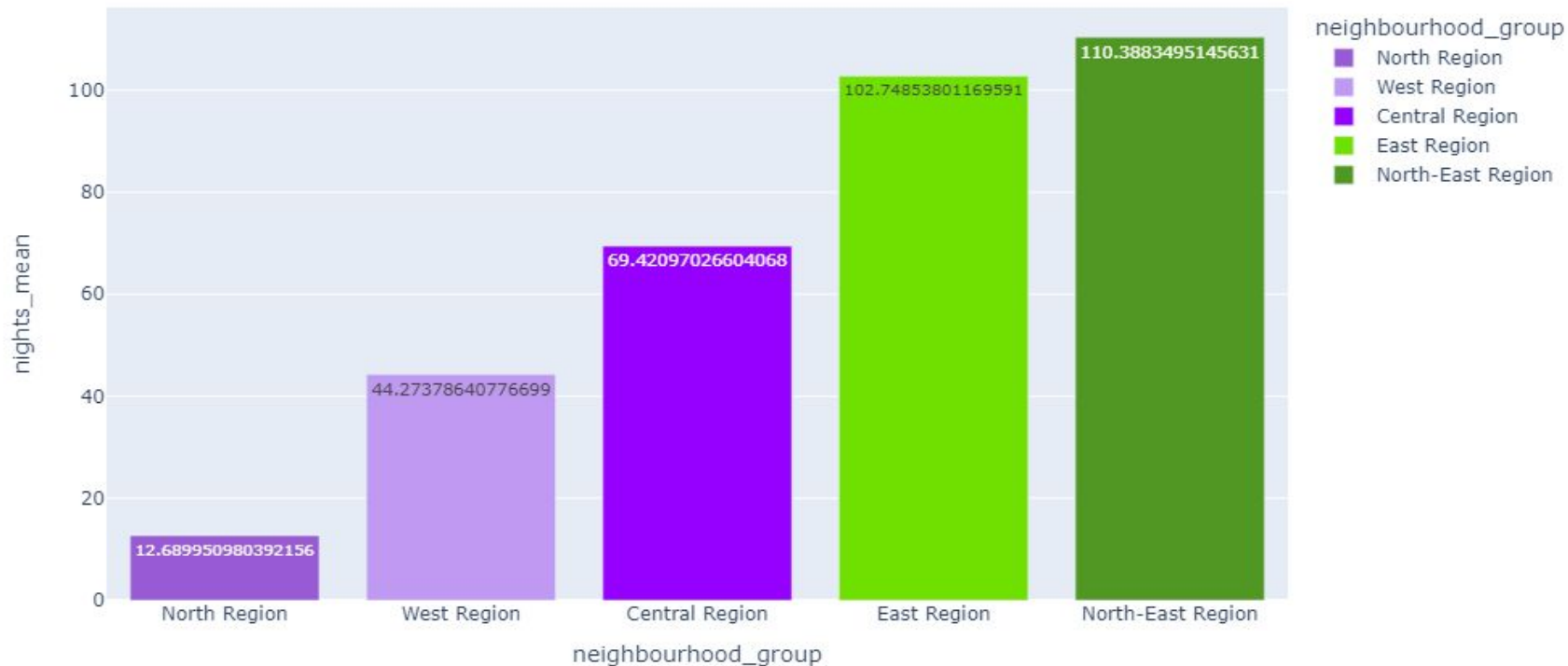
Analysis Results

Most Rooms & Hosts

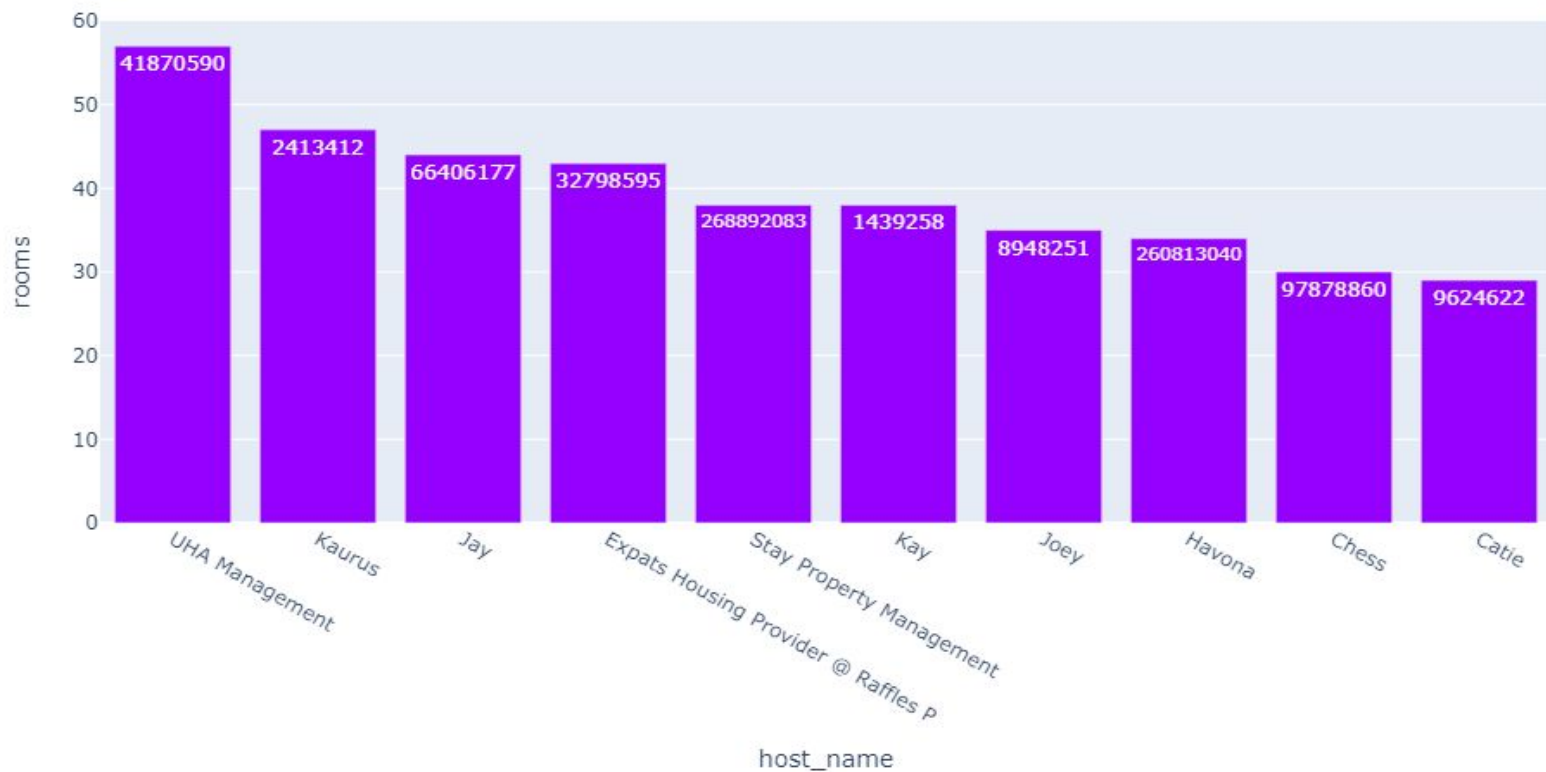
Neighborhood Group with The Most Room Type Available



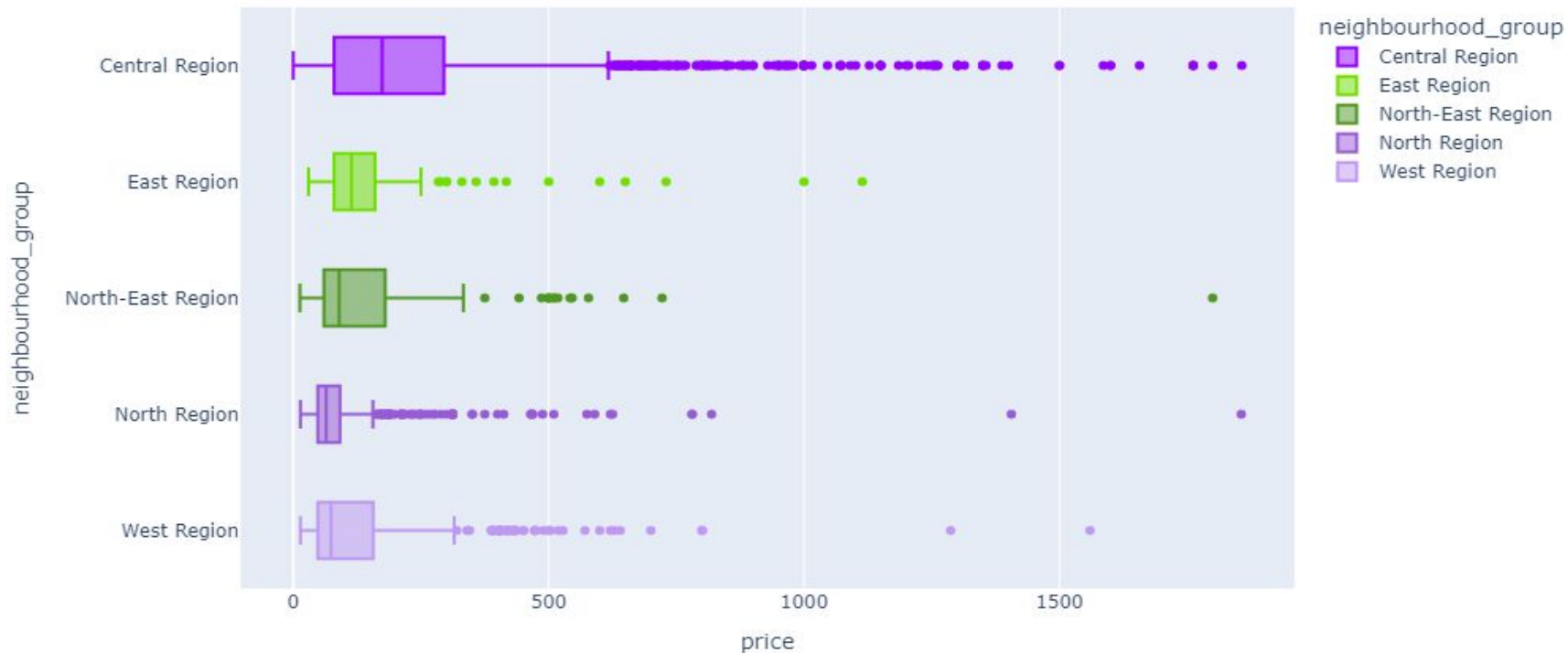
Mean of Minimum Nights for Each Neighborhood Group



Top 10 Host Name with The Most Rooms



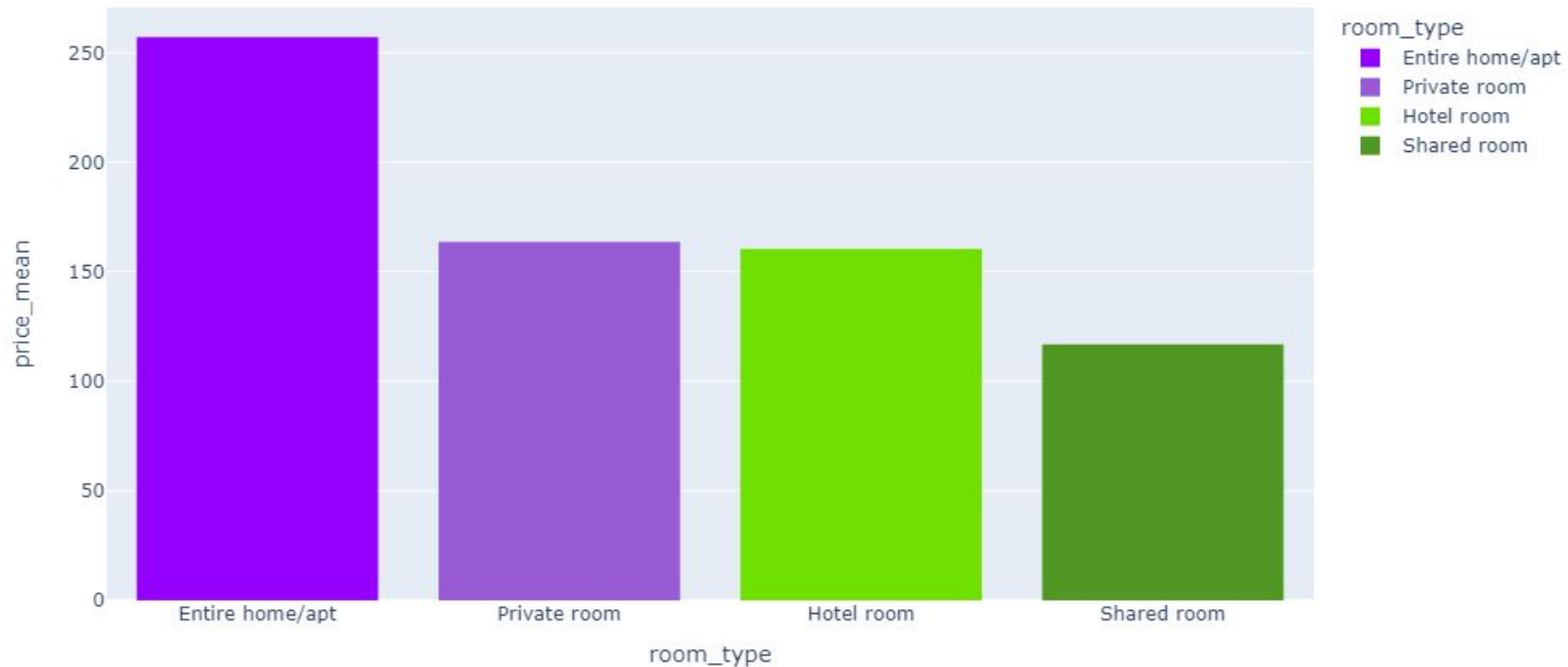
Price Distribution of Listing Based on Neighborhood Group (~\$2,000SGD)

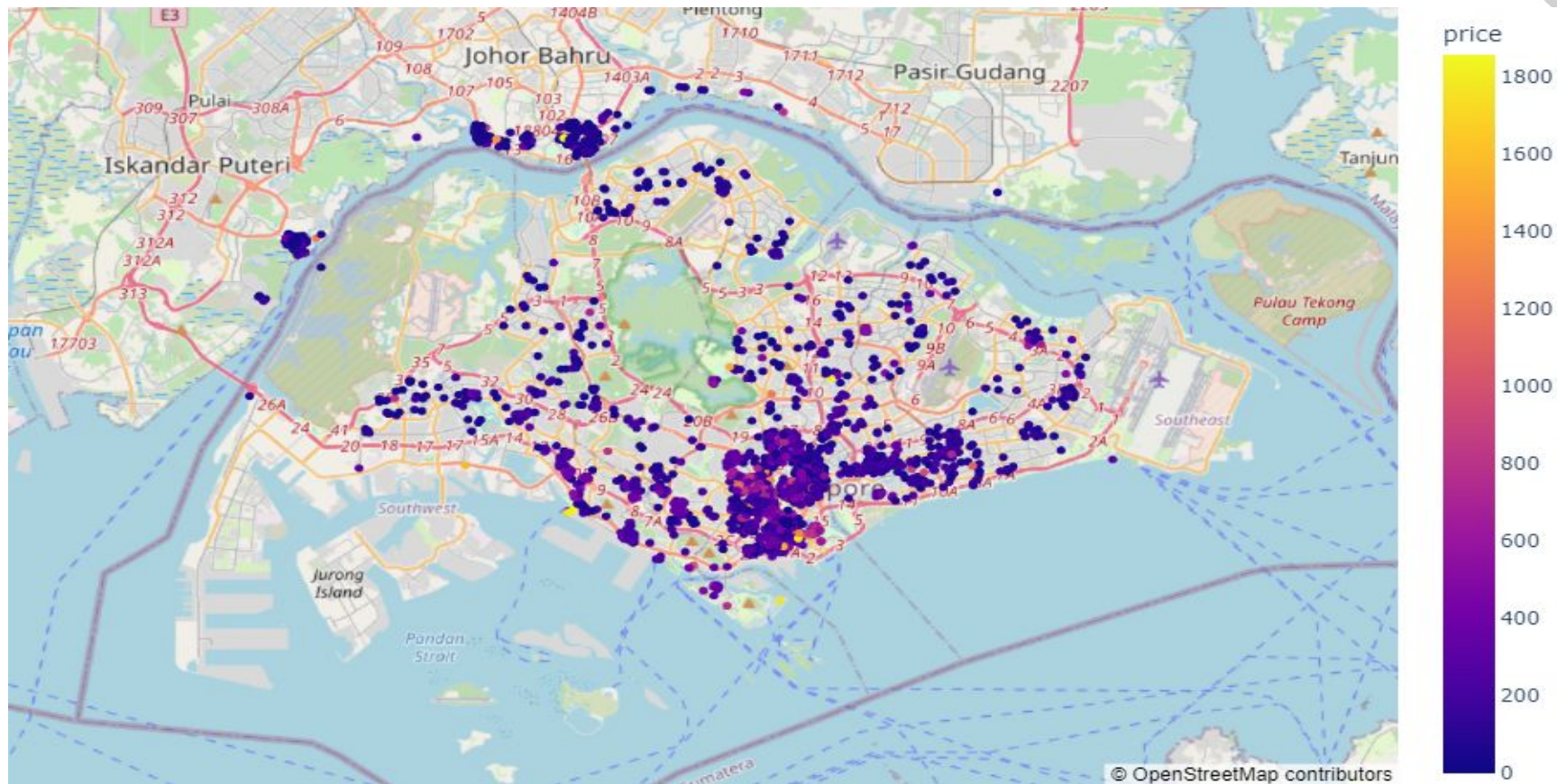


Analysis Results

Price

Price Distribution Based on Room Type





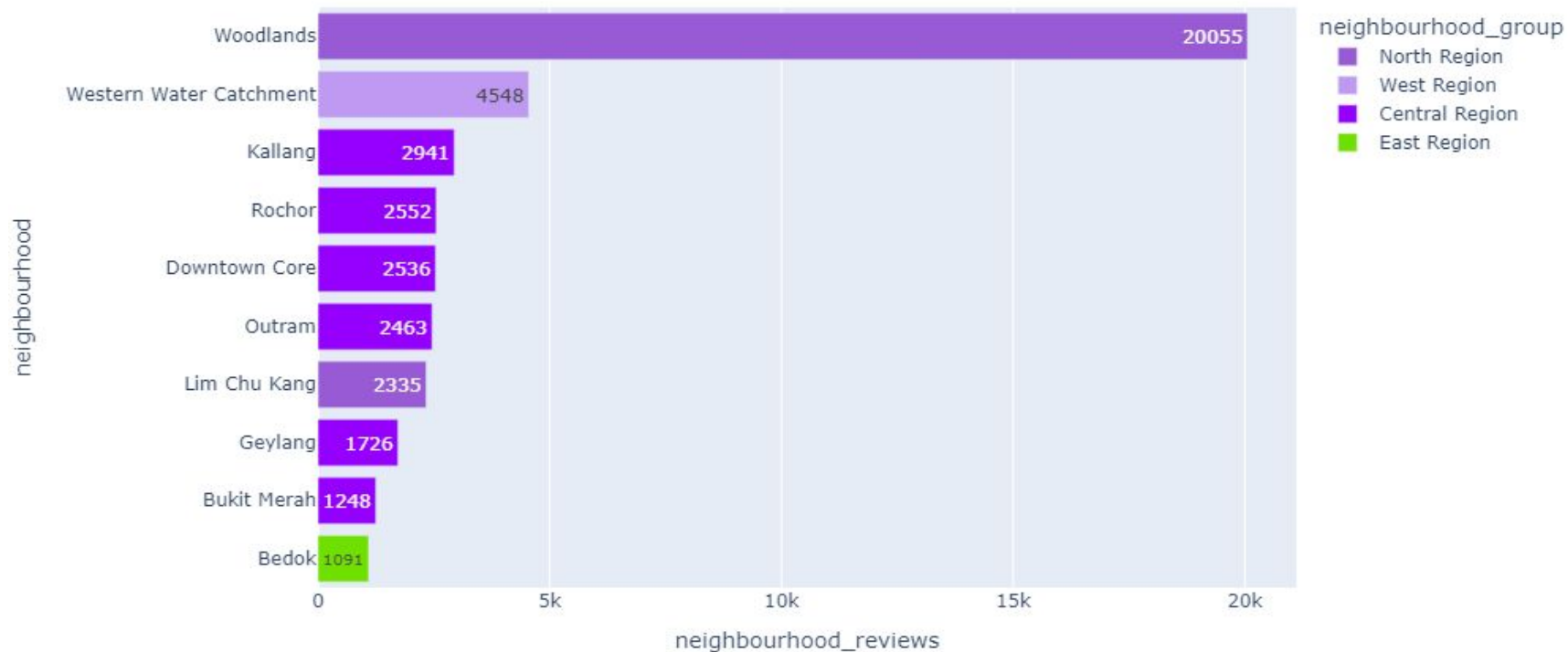
Analysis Results

Reviews History

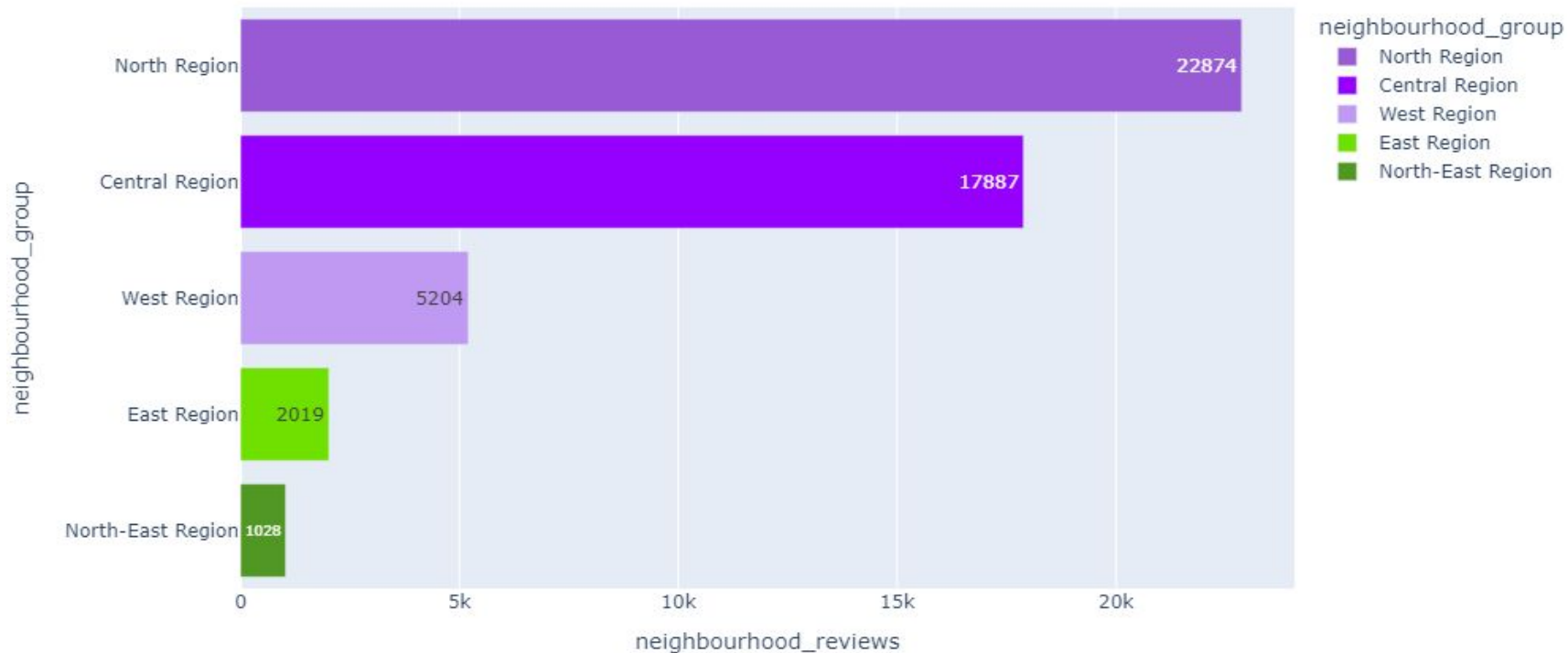
Reviews History of Rented Listing Based on Month



The Most Rented Listings Based on Neighborhood



The Most Rented Listings Based on Neighborhood Group



Top 10 Rented Listings Based on Reviews History



Conclusion

- Airbnb listing properties in Singapore distributed mainly in Central Region, the metropolitan area in Singapore followed by North Region which borders directly with neighbor country
- The most popular room type in Singapore is the entire home/apt which also has the highest price considering the difference in facilities provided
- North region gives more flexible periods of rent by having the lowest mean of minimum nights of about 12 days
- North Region specifically Woodlands neighborhood also has the most rooms of listing properties available in Singapore, mostly provided by the host named UHA Management

Conclusion

- Most of listing properties having prices under 2,000 with mean price only around 214.505 Singapore dollars, yet Central Region has more varied and higher price than other regions
- Reviews history of listings properties was having its peak until late 2019 and decreased because of Covid-19 pandemic, the sector started going up again in 2022, April
- North Region has the highest number of reviews history with less price and minimum nights for rent than the other neighborhood groups

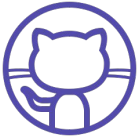
Recommendations

Consider Airbnb listing properties in North Region, especially Woodlands with qualifications as follows:

- Offering lower prices which reflecting lower cost and maintenance
- Having less minimum nights to rent
- Serving lots of rooms available with high reviews history
- Focusing with entire home/apt as the most popular room type

Further analysis may be needed especially the correlation of price and facilities provided that will help to make even more beneficial decision

References



Github



Linkedin



Slides

Thanks!

