





How has the Airbnb market in LA changed after COVID ? (2018/19 vs 2020/21)

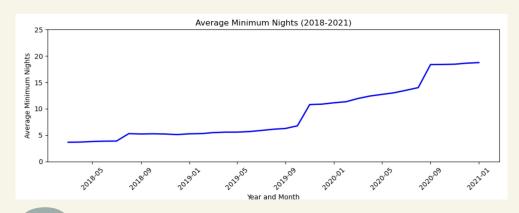
Yes, price obviously went up. But what's more?

We noticed the minimum nights of staying set by the host seems to increase. We would like to know:

- Q1. if this trend really exists.
- Q2. if geographical location affects this trend.
- Q3. if the size of the host affects this trend.

We would like to see if this trend really exists.

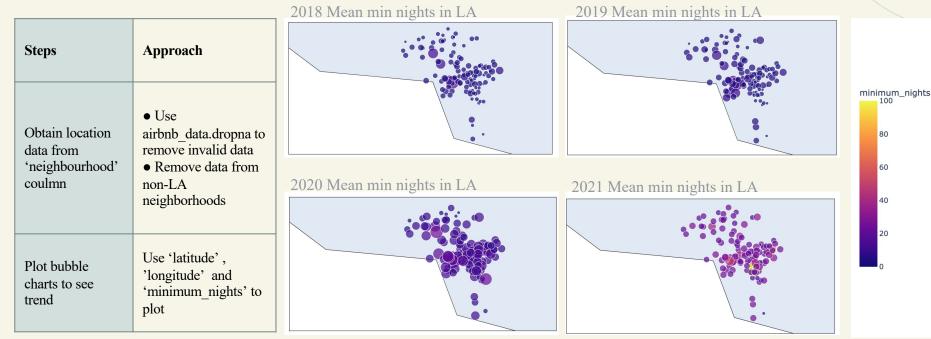
Steps	Approach
Obtain time data from 'Scrape File' column	Use filename.split('_')[2:4] to extract 'year_month' from 'Scrape File' column
Clean data to ensure all data is usable	Use airbnb_data.dropna to remove invalid data
Plot line chart to see trend	Use 'year_month' and 'minimum_nights' to plot



A 1 Yes, we can see the minimum nights of staying shows an upward trend in 2020/21 compared with 2018/19.



Next, we would like to clarify if <u>geographical location</u> of the listings affects this upward trend of minimum nights.





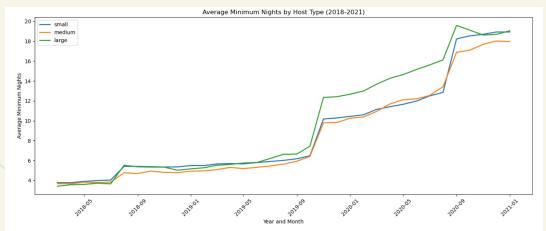
We can see the shades of the bubbles get lighter over time, indicating the overall minimum nights has increased.

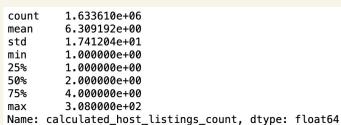
However, we do not see listings in specific geographic locations experienced more significant increases in minimum nights changes.



Moreover, we would like to know if <u>hosts with more listings</u> are more likely to increase minimum nights?

Steps	Approach
Classify hosts into large, medium and small groups	 Use airbnb_data['calculated_host_listings_count'].describe() to have an overview of numbers of listings owned by hosts According to data description, we categorize hosts into 3 groups as 'host_type': a. Small: 1 listing on Airbnb b. Medium: 2-3 listings on Airbnb c. Large: over 4 listings on Airbnb
Plot line chart to see trend	Use 'host_type', 'year_month' and 'minimum_nights' to plot a line chart





(A3)

Yes, with minimum nights increasing throughout all types of hosts, we can see the large hosts tend to experience a more drastic rise.