

NYC Airbnb vs Housing Market Insights

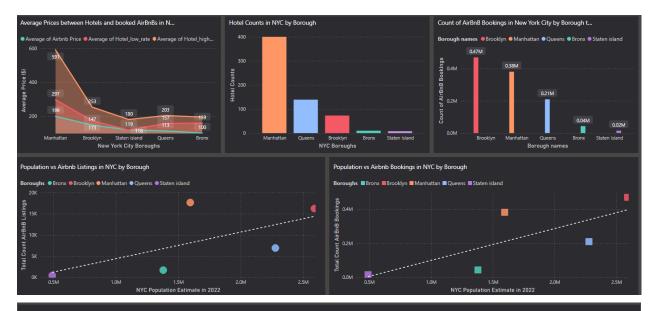
- Covid lockdown had a large negative impact on both Airbnb revenue and housing market sales
 Tillny littings count and Airbnb hookings both despaced in 2000 most likely due to Could page.
- Zillow listings count and Airbnb bookings both decreased in 2020 most likely due to Covid pandem
 After 2020, as lockdown was lifted, both bousing market and Airbnb popularity race again
- However, as Airbnb bookings rise past 2021, Zillow housing listings decrease. With the short-term rental law passing in 2022 and being enforced in 2023 hoping to change Airbnb's possible effect on the hoursarket. Hopefully we can see trends supporting that in the near future.

How Hotels & Population affects NYC Airbnb Booking



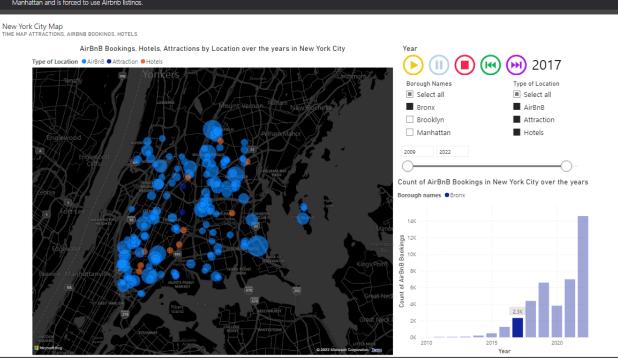
Airbnb Max and Min Pr...

Year	Highest Profit	Lowest Profit
2015	39,980.00	50.00
2016	34,965.00	35.00
2017	65,151.00	35.00
2018	115,200.00	40.00
2019	237,600.00	44.00
2020	48,600.00	20.00
2021	336,648.00	29.00
2022	437 244 00	20.00



Hotels and Trends in Boroughs

- Scatterplots show that Queens and Bronx are under the trendline, which means despite their population density, they support less than average airbnb listings and bookings.
 Scatterplots show that Manhattan is above the trendline showing that for its population density, it has an above average amount of airbnb bookings and listings.
 We see that hotels are prominant in Queens and Manhanttan. This may explain Queens below average listing/bookings count for its population size because people vising Queens could have more hotel options to stay at.
- This is also slightly seen in how Manhattan has the most listings, but second most bookings. Brooklyn beats out Manhattan in bookings possibly due to the fact that Brooklyn does not nearly have as many hotels as Manhattan and is forced to use Airbnb listings.



- New York Population Density Heat Map
 CLICK FOR WEB HEAT MAP FOR POPULATION DENSITY OF NYC MADE BY JIM HERRIES UPDATED 2018
 C. Observed Some trends in neighborhoods where airthot bookings would pop up near some hotel locations, but no definitive conclusion can be made.

 * Tourist Attractions doesn't seem to be where airthot bookings tend to pop up over the years

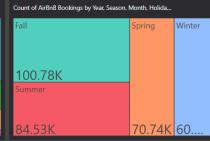
 * After watching the bookings pop up through each year; t seems more likely that airthot bookings follow highly populated areas of NYC which is why I included a supplemental heat map of population density of
 NYC not made my our team. However a more detailed analysis is needed.

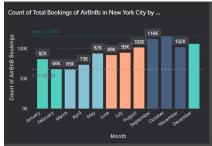
Seasonality & Holiday Travel Trends

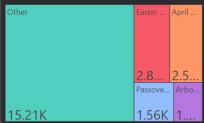




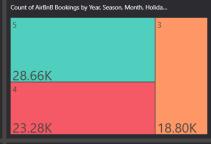




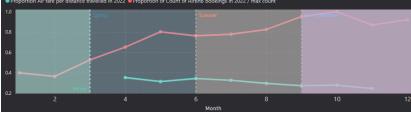




Count of AirBnB Bookings by Year, Season, Month, Holida...



Possible Inverse Relationship between NYC AirBnB Booking Count and NYC Airplane Fare in 2022 per Months



Seasonality Trend Insights SEASONAL, MONTHLY TRENDS & NYC AIR TRAVEL PRICES

- rest of the years in airbnb bookings

 Fall >= Summer > Spring > Winter is a trend for all years for airbnb bookings except for 2020 most likely due to covid lockdown later on in the year making fall and summer months lower in bookings for this
- year.
 As plane fare to NYC goes up in 2022, we see the number of bookings go down in NYC and vice versa and plane ticket prices follow a trend of being expensive in spring and get cheaper towards the end of summer into fall so it makes sense the Fall > Summer> Spring > Winter trend is observed in airbnb bookings.





