Objective





WHERE

Which location is more profitable in the neighborhood of New York



WHEN

Which time of the year should you list to gain more bookings

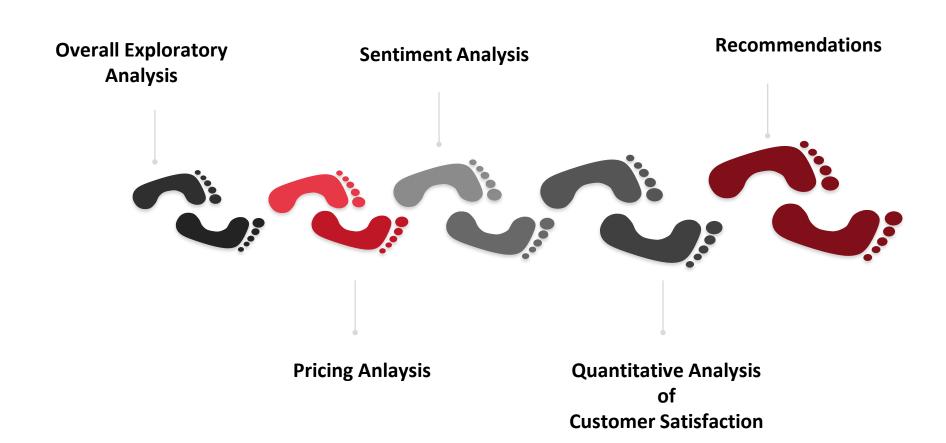


HOW

How should you list? What to include in the description and what not to include?

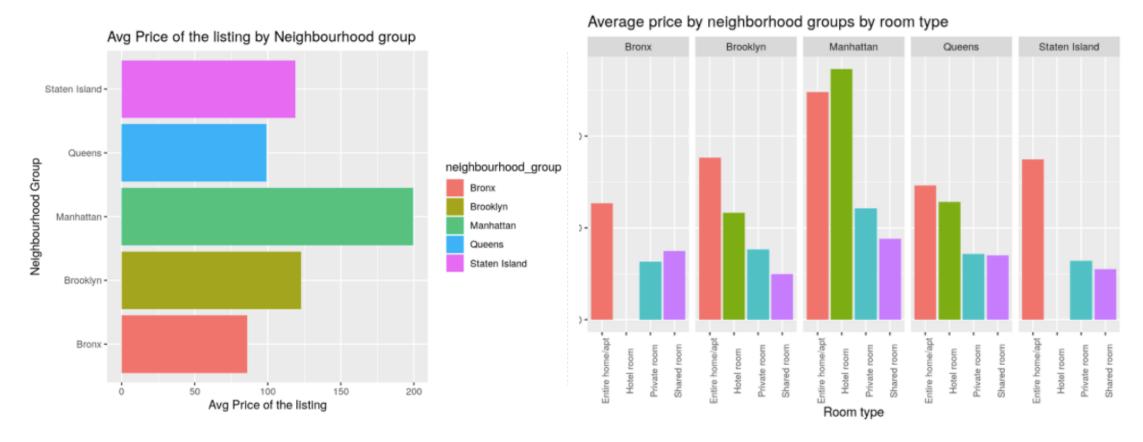
Improving the Revenues of the Airbnb Host

Outline



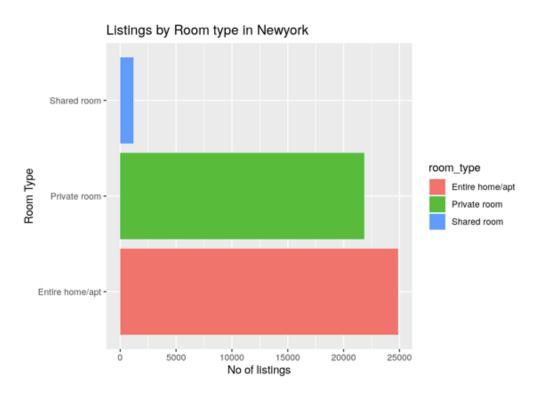
Deep Dive

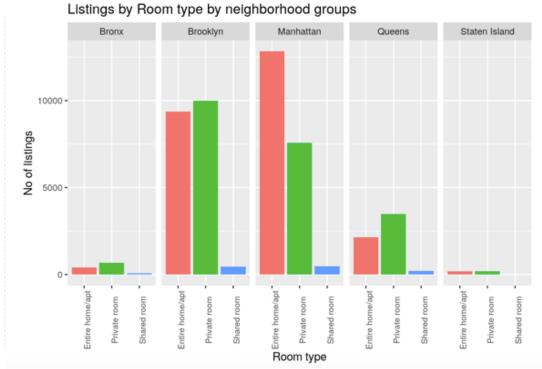
Manhattan tops average pricing among neighborhood groups across different room types; Hotel rooms followed by entire home or apartment tops the pricing chart



Deep Dive

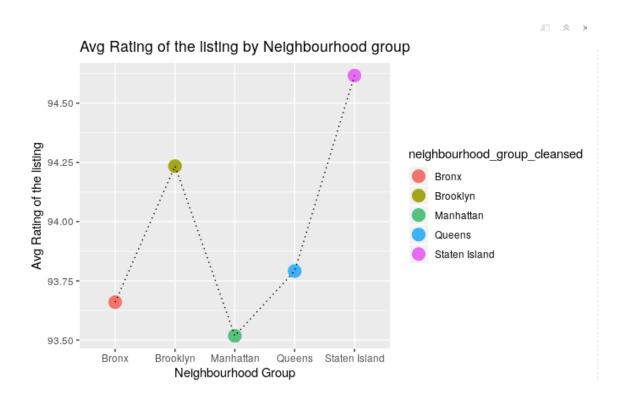
Manhattan has more number of listings and that too entire houses/apartments are listed

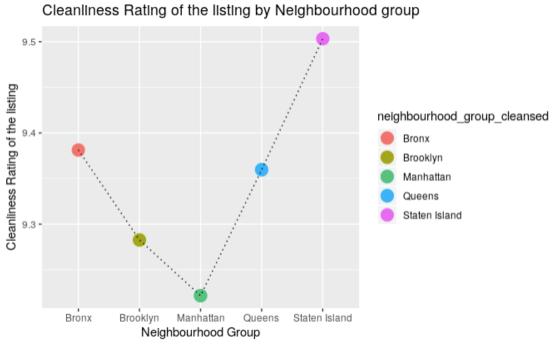




Deep Dive

Staten Island stands out in terms of both Average rating score and cleanliness rating





Top 3 Queens Neighborhoods

Migh Average Price Private Rooms

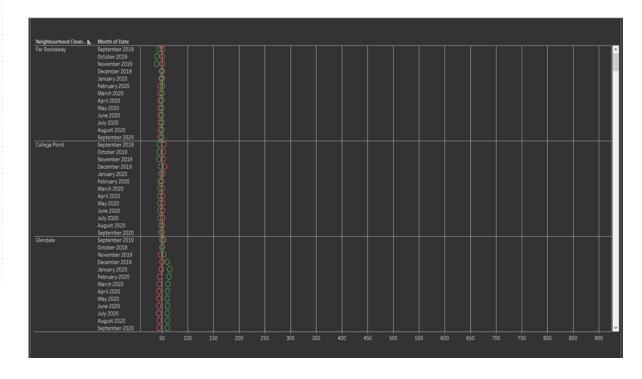


- Briarwood (\$680 in summer and \$100 in winter)
- Jamaica Estates (\$400)
- Breezy Point (\$225)

Low Average Price Private Rooms



- Far Rockaway (\$50)
- College Point (\$50)
- Glendale (\$50)



Top 3 Queens Neighborhoods

Migh Average Price Entire Place

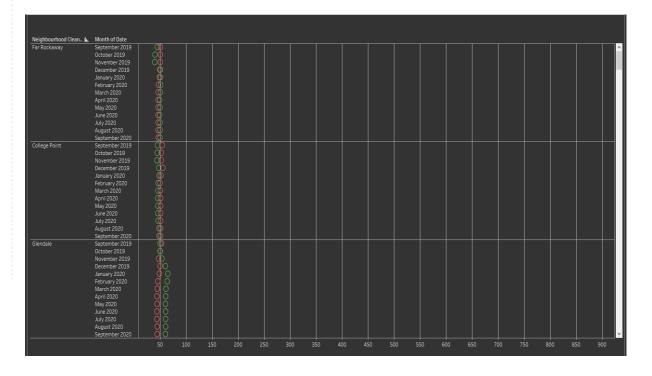


- Holliswood (\$410)
- Bellerose (\$100, \$500 high non-booked prices)
- Neponsit (\$280)

Low Average Price Entire Place



- Far Rockaway (\$50)
- College Point (\$50)
- Glendale (\$50)

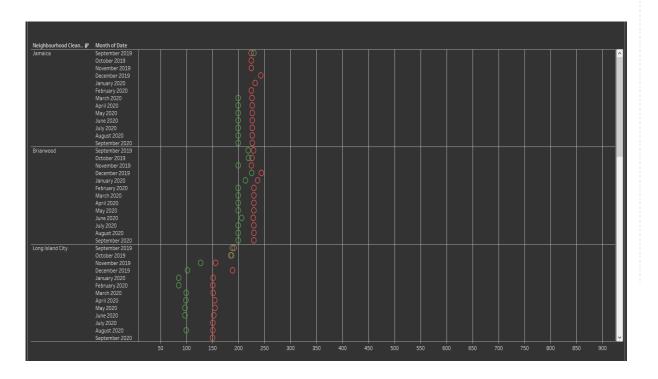


Top 3 Queens Neighborhoods

Migh Average Price Hotel Room



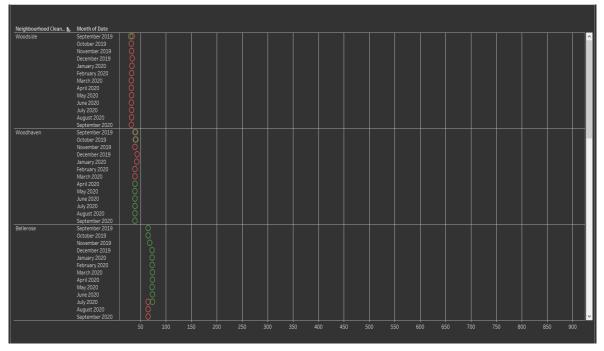
- Jamaica (\$200)
- Briarwood (\$200)
- Long Island City (\$100)



Low Average Price Hotel Room



- Woodside (\$30)
- Woodhaven (\$50)
- Bellerose (\$70)

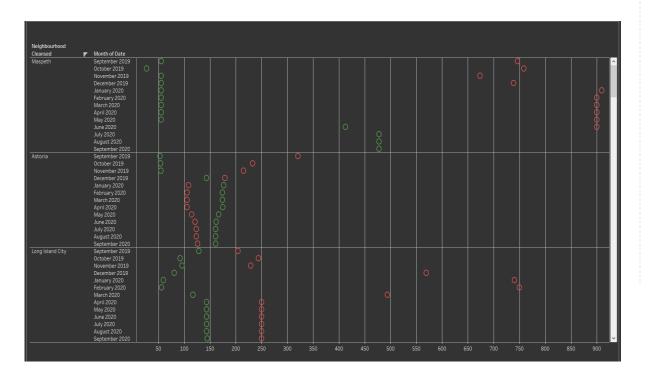


Top 3 Queens Neighborhoods

• High Average Price Shared Rooms



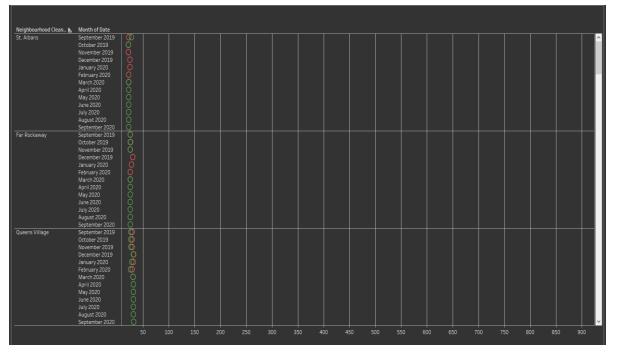
- Maspeth (\$55, \$900 high non-booked prices)
- Astoria (\$170)
- Long Island City (\$150)



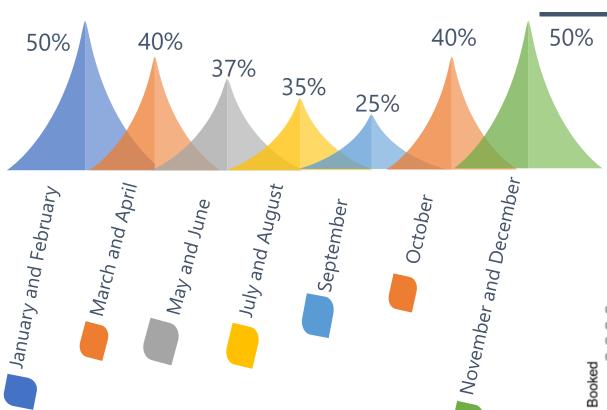
Low Average Price Shared Rooms



- St Albans (\$22)
- Far Rockaway (\$25)
- Queens Village (\$30)



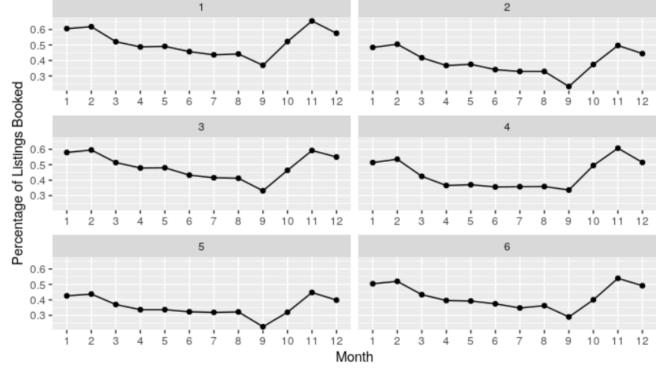
When Percentage of Listings Per Month



Queens Neighborhood in Group 6 and Group 1

#	A tibble: 7 x 3			# A tibble: 8 x 3		
	Neighbourhood	Avg_mean	group		Avg mean group	
	<chr></chr>	<dbl></dbl>	<int></int>	<chr> <dbl> <in< td=""><td>ıt></td></in<></dbl></chr>	ıt>	
1	Briarwood	406.	6	1 Jackson Heights 74.8	1	
2	Holliswood	269.	6	2 South Ozone Park 72.8	1	
3	Bay Terrace	175.	6	3 College Point 69.6	1	
4	Jamaica Estates	158.	6	4 Bellerose 66.7	1	
5	Howard Beach	136.	6	5 Bushwick 64.1	1	
6	Kew Gardens Hills	132.	6	6 Woodhaven 63.8	1	
7	Forest Hills	131.	6	7 Rosedale 62.5	1	

Percentage of Listings Per Queens Neighbourhood



Model

Pricing Model

Linear Regression:

```
Log-price = 4.650 - 0.185(room_type|Hotel) - 0.738(room_type|Private) - 1.116(room_type|Shared) -0.0117(reviews per month) + 0.000496(availability) - 0.0004213(number of reviews) - 0.00322(minimum nights) + 0.0967(group2) + 0.0722(group3) + 0.171(group4) + 0.258(group5) + 0.184(group6)
```

Call:

```
lm(formula = log_price ~ room_type + reviews_per_month + availability_365 +
number_of_reviews + minimum_nights.x + group, data = group_airbnb)
```

Coefficients:

room_typeShared room	room_typePrivate room	room_typeHotel room	(Intercept)
-1.1161215	-0.7380736	-0.1846444	4.6502369
minimum_nights.x	number_of_reviews	availability_365	reviews_per_month
-0.0032282	-0.0004213	0.0004962	-0.0117231
group5	group4	group3	group2
0.2579731	0.1711891	0.0722159	0.0966762
			group6

[1] "The R-squared is 0.5134"

0.1836875

Revenue Gained in Group 1 and Group 6

Features	group 1	group 6
1 room_type	Private room	Private room
2 reviews_per_month	1	1
3 availability_365	365	365
4 number_of_reviews	20	20
5 minimum_nights.x	2	2
6 pred.price	58.36	70.13
7 pred.rev	56.61	68.03

^{*}Host earns 97% of listing price

^{*} Relative to Entire Place Room Type and Group 1