

# San Diego Airbnb



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### **Motivation**



**Airbnb** 

Mainstream Platform for Travelers



**Data Analytics** 

Optimize Business Decisions



Investment

Ideal Match for Popular Demand



### **Key Metrics for Airbnbs**

#### **Price**

Budget | Median | Luxury





#### Location

Coastal | Downtown | Suburbs

#### **Room Type**

Entire Home | Shared Room Private Room | Hotel





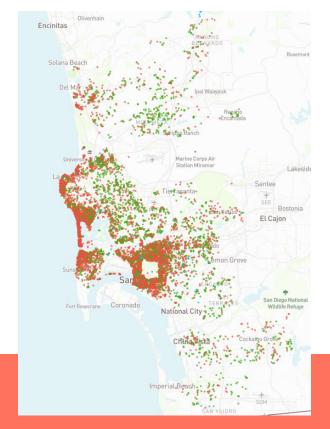
#### **Availability**

Annual | Minimum Nights



### **Inside Airbnb Dataset**

Strengths	Limitations			
<ol> <li>Monthly data from 2018 to present</li> <li>Quantitative data for key metrics</li> <li>Geographical locations</li> </ol>	<ol> <li>Annual data prior to 2017</li> <li>Extreme outliers in data</li> </ol>			



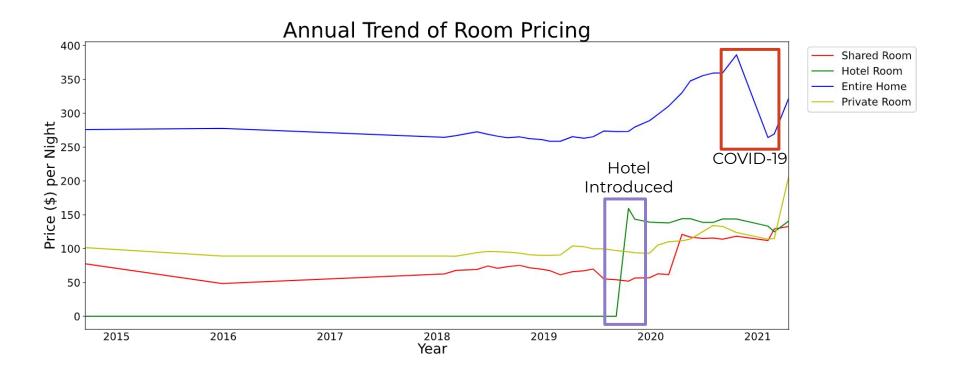


#### **Data Extraction**

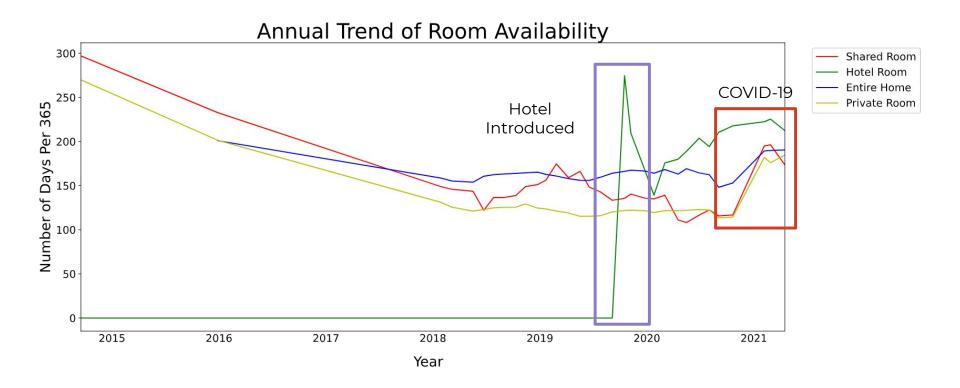
- Removed extraneous data host names and IDs, URLs, etc.
- Filtered Quantitative Data
- Split data by month & year

_	NEIGHBOURHOOD	LATITUDE	LONGITUDE	ROOM_TYPE	PRICE	MINIMUM_NIGHTS	NUMBER_OF_REVIEWS	CALCULATED_HOST_LISTINGS_COUNT	AVAILABILITY_365
0	Mission Bay	32.78430	-117.25258	Entire home/apt	2050	3	0	3	207
1	Pacific Beach	32.80724	-117.25630	Entire home/apt	261	4	62	5	213
2	Roseville	32.74202	-117.21870	Private room	74	1	143	3	359
3	La Jolla	32.81301	-117.26856	Entire home/apt	110	3	244	2	99
4	Pacific Beach	32.80734	-117.24243	Entire home/apt	74	1	620	2	320
•••	•••	• • •		•••		•••	***	***	• • •
9243	Carmel Valley	32.91599	-117.22823	Private room	1639	1	0	114	363
9244	La Jolla	32.81478	-117.26819	Entire home/apt	330	3	0	163	329
9245	Loma Portal	32.74936	-117.24163	Entire home/apt	85	3	0	163	342
9246	Mission Bay	32.78300	-117.25392	Entire home/apt	112	3	0	163	353
9247	La Jolla	32.81315	-117.27116	Entire home/apt	545	3	0	163	252









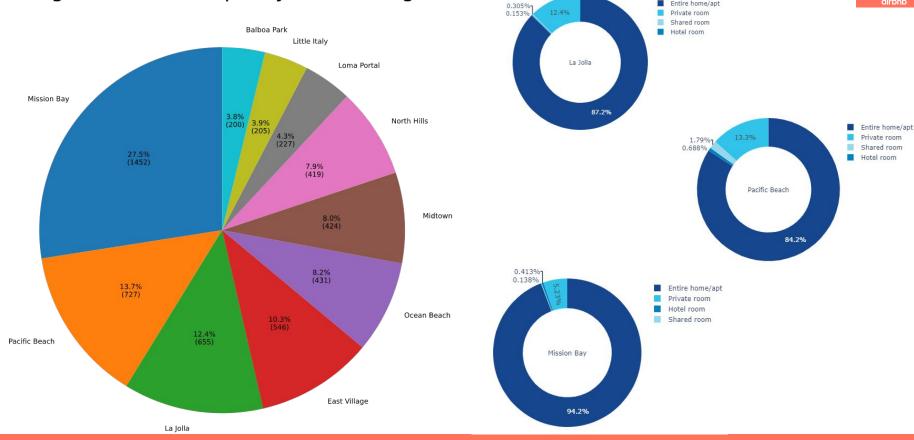




#### Neighborhood Occupancy in San Diego

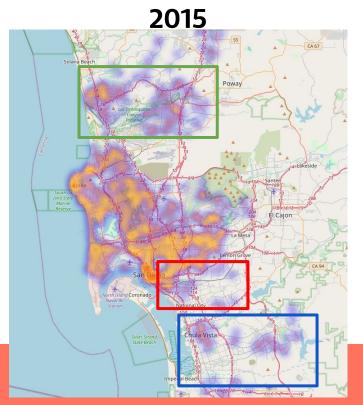


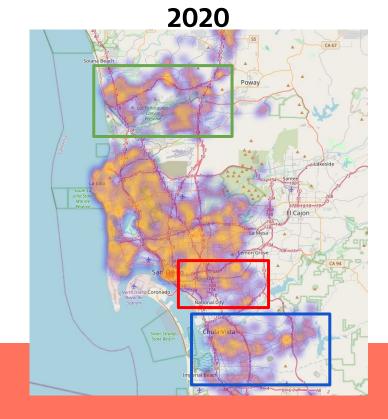
Entire home/apt





## **Density of Airbnb Listings San Diego**

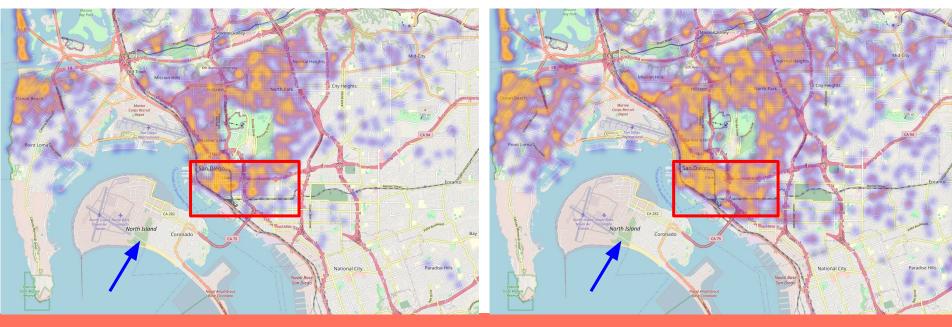






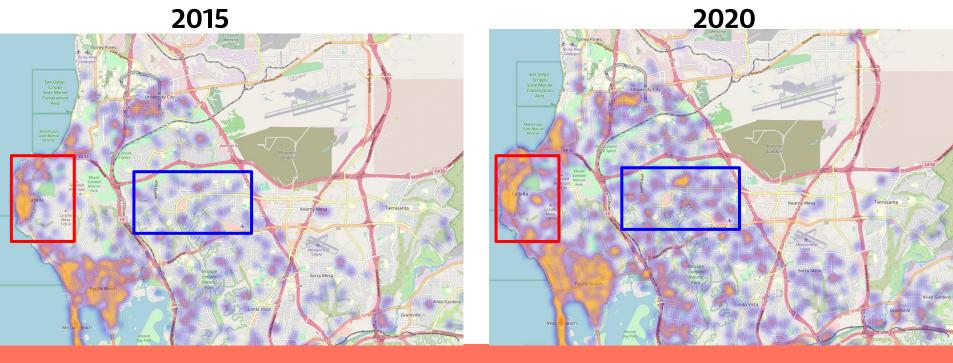
# **Density of Airbnb Listings Downtown**

2015 2020





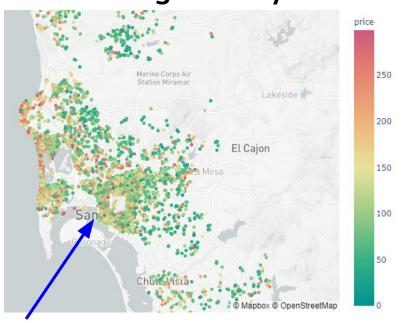
# **Density of Airbnb Listings Coastal**



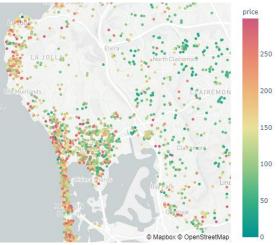


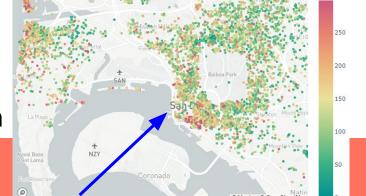
Price Map of Listings < \$300

**San Diego County** 



**Coastal** 





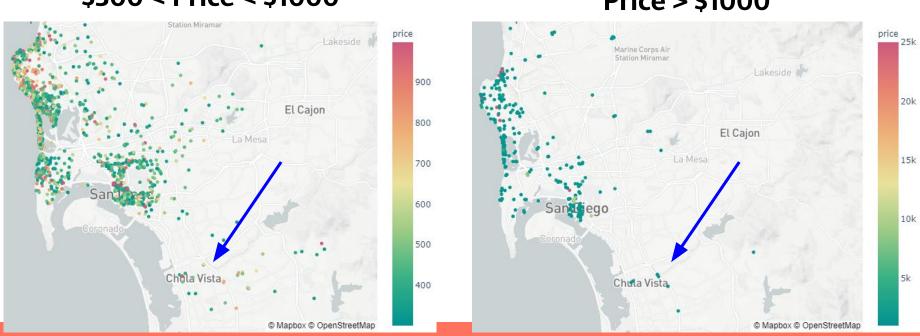
**Downtown** 



## **Price Map of Listings**

\$300 < Price < \$1000

**Price > \$1000** 

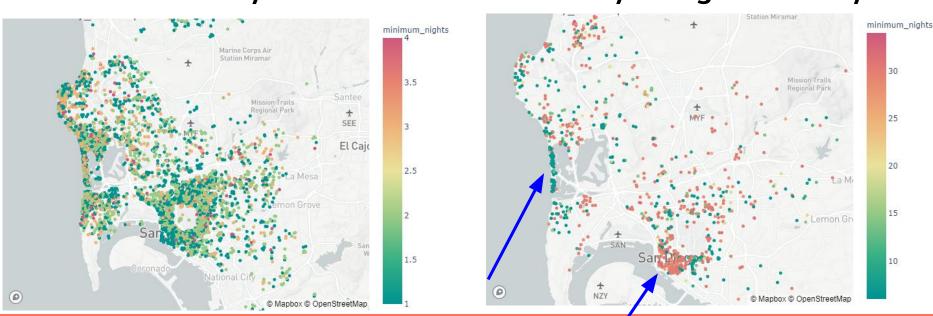




## **Minimum Nights Map**

< 5 Days

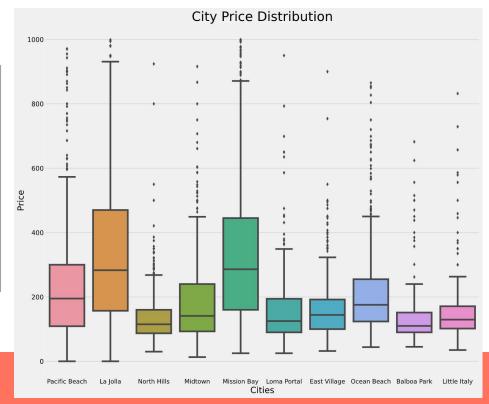
5 Days < Nights < 35 Days





### **Trends**

	Price	Density	Growth	Invest
Coastal	999	Н	7	Ť
Down- town	\$\$	Н	<b>→</b>	<b>7</b> !
Suburb	<b>§</b>	L	1	Ť





### **Conclusions**

- Growth in inland & suburban areas
- Consistent trends through the years
- Future Work:
  - Impact of amenities
  - Proximity to attractions / transportation
  - o Cost-benefit analysis of investment







# THANK YOU!

# **QUESTIONS?**