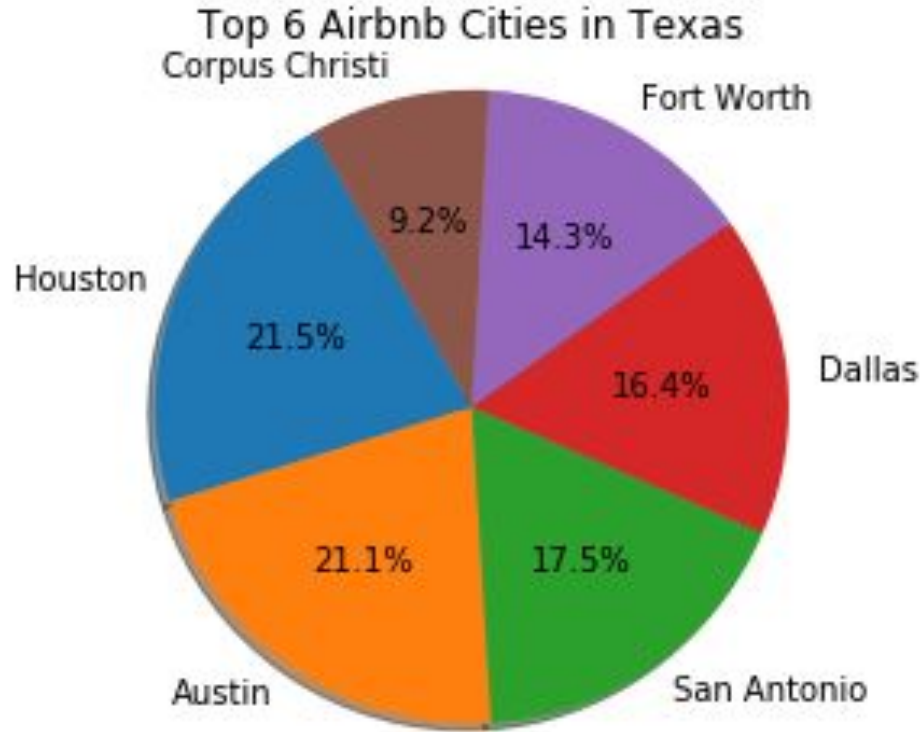


airbnb

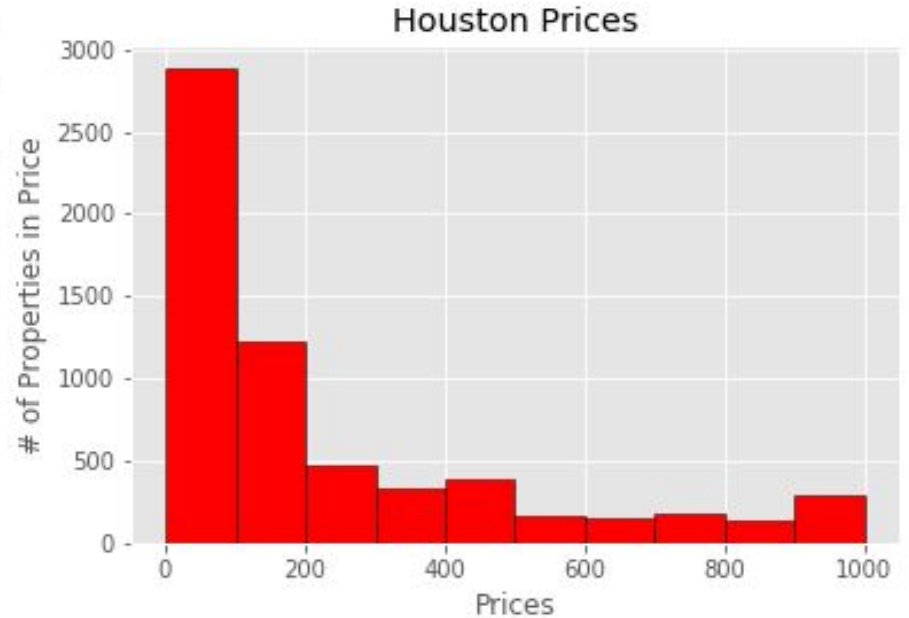
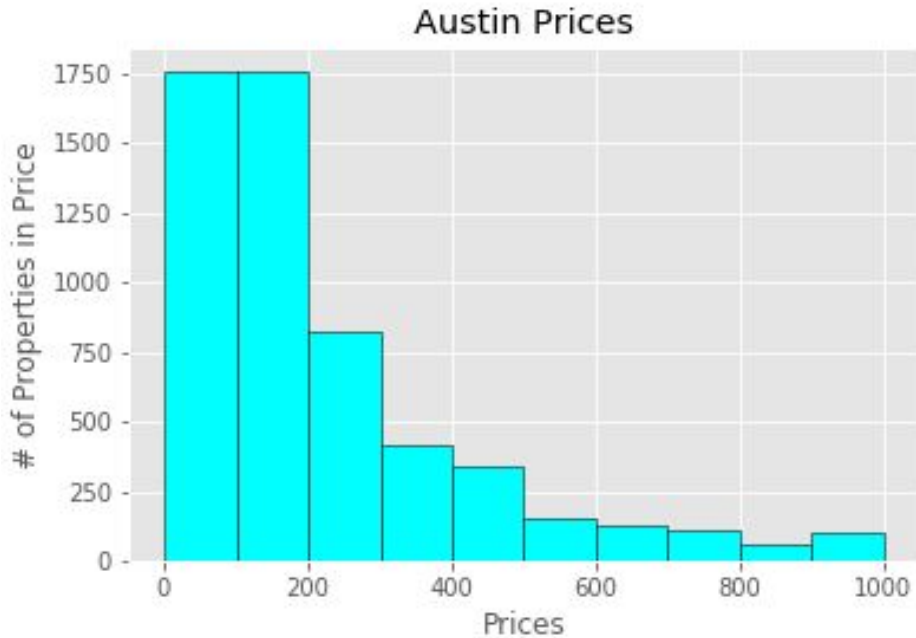
Kalisha Hill
Dustin Garza
Rebecca Cate

Texas Data

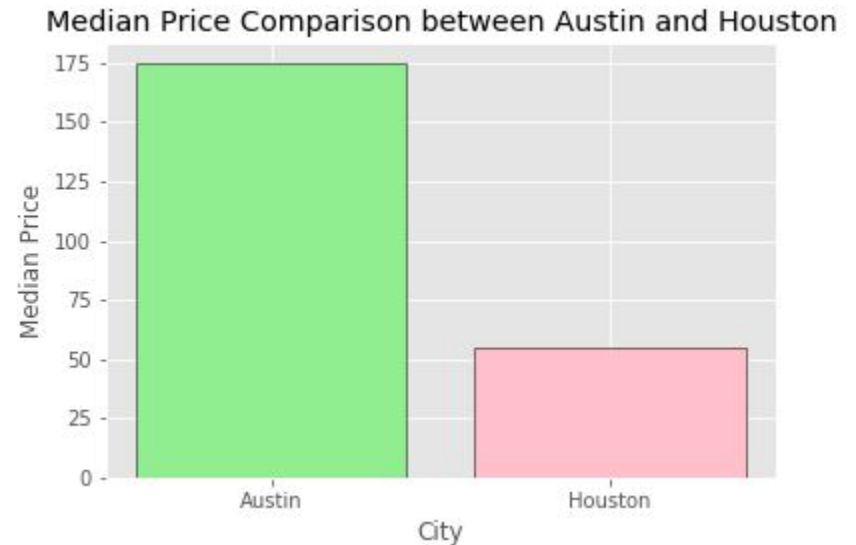


Houston versus

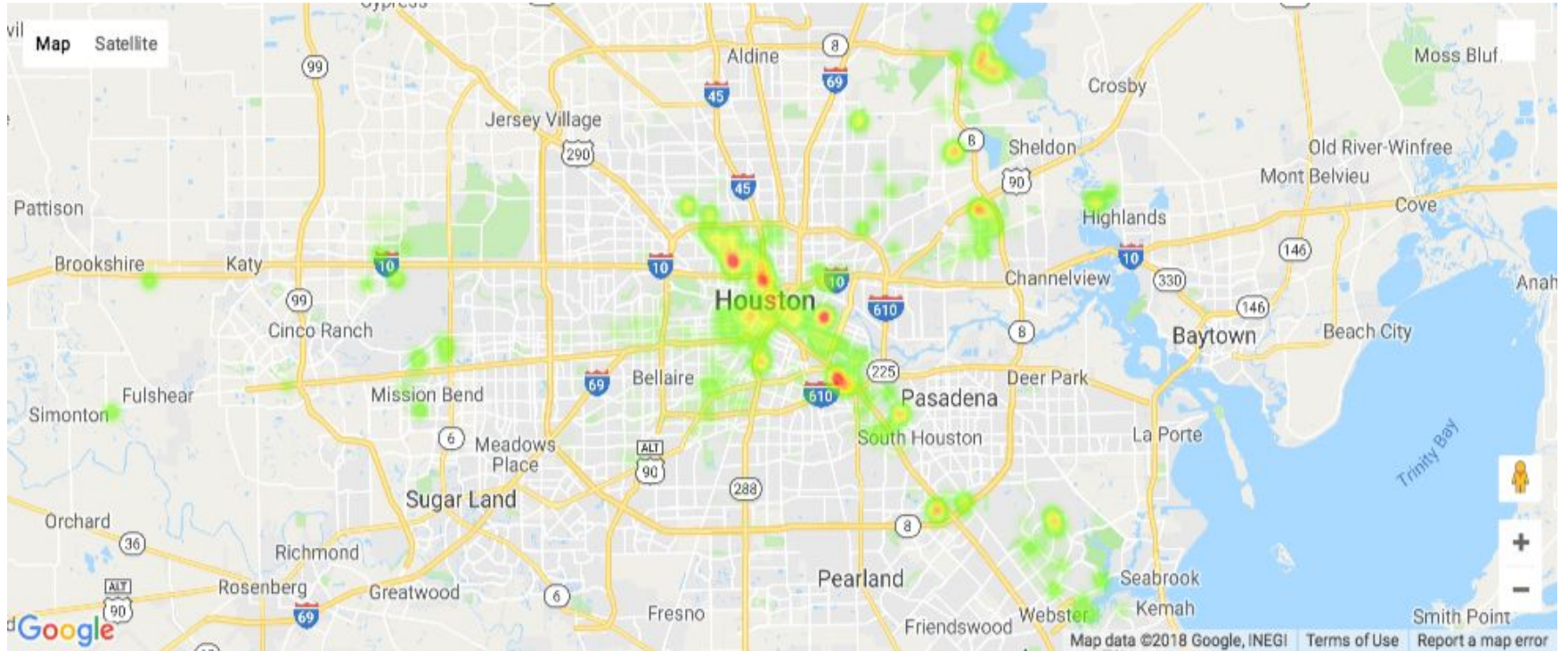
Austin



Comparison of Prices – Statistical Exploration



Google heat map of Houston based on price:



Google heat map of Austin based on price:



AUSTIN

```
In [21]: Airbnb_Austin_Data = Airbnb_Price_df[['summary', 'zipcode', 'property_type',
                                                'accommodates', 'bedrooms', 'bathrooms', 'beds', 'amenities',
                                                'square_feet', 'price', 'availability_365',
                                                'cancellation_policy', 'review_scores_rating', 'review_scores_value', 'description',
                                                'instant_bookable', 'host_verifications']]
```

```
In [22]: Airbnb_Austin_Data.head()
```

Out[22]:

	summary	zipcode	property_type	accommodates	bedrooms	bathrooms	beds	amenities	square_feet	price	availability_365	cancel
0	Conveniently located 10-15 from downtown in SW...	78749.0	House	6	1.0	2.5	3.0	{"Cable TV","Internet","Wireless Internet","Air ...	3600.0	300.0	240	
1	Rent this cool concept trailer that has everyt...	78739.0	Camper/RV	2	1.0	0.0	1.0	Conditioning",Heating,"Family/Kid Friend... {"Air	NaN	99.0	364	
2	Upstairs, private, 12ft x 13 1/2ft room. Priv...	78739.0	House	2	1.0	1.5	1.0	{TV,"Cable TV","Internet","Wireless Internet","A...	NaN	100.0	365	
3	Upstairs, private, 11ft x 13 1/2ft room. Priv...	78739.0	House	2	1.0	1.5	1.0	{TV,"Cable TV","Internet","Wireless Internet","A...	NaN	100.0	365	
4	Brand-new 3BR/2BA Austin home with landscaped ...	78739.0	House	6	3.0	2.0	3.0	{TV,"Cable TV","Internet","Wireless Internet","A...	NaN	599.0	358	

```
In [23]: Airbnb_Austin_Data.to_csv("Airbnb_Austin_Data_Finalized.csv", index=False, header=True)
```

Austin - How do the descriptions weigh?



Austin - What do the reviews say?

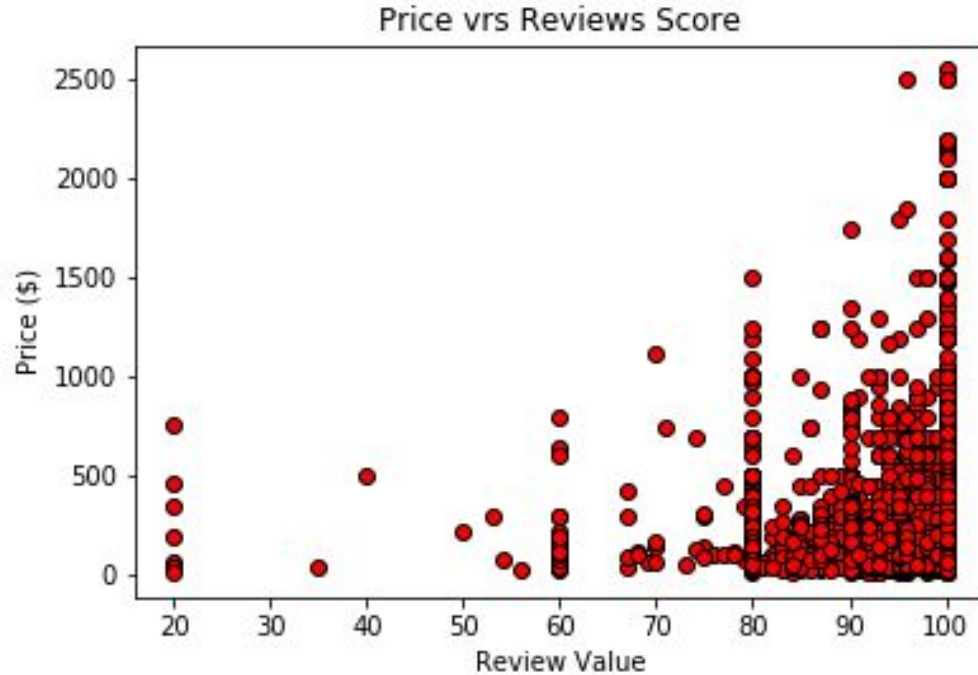


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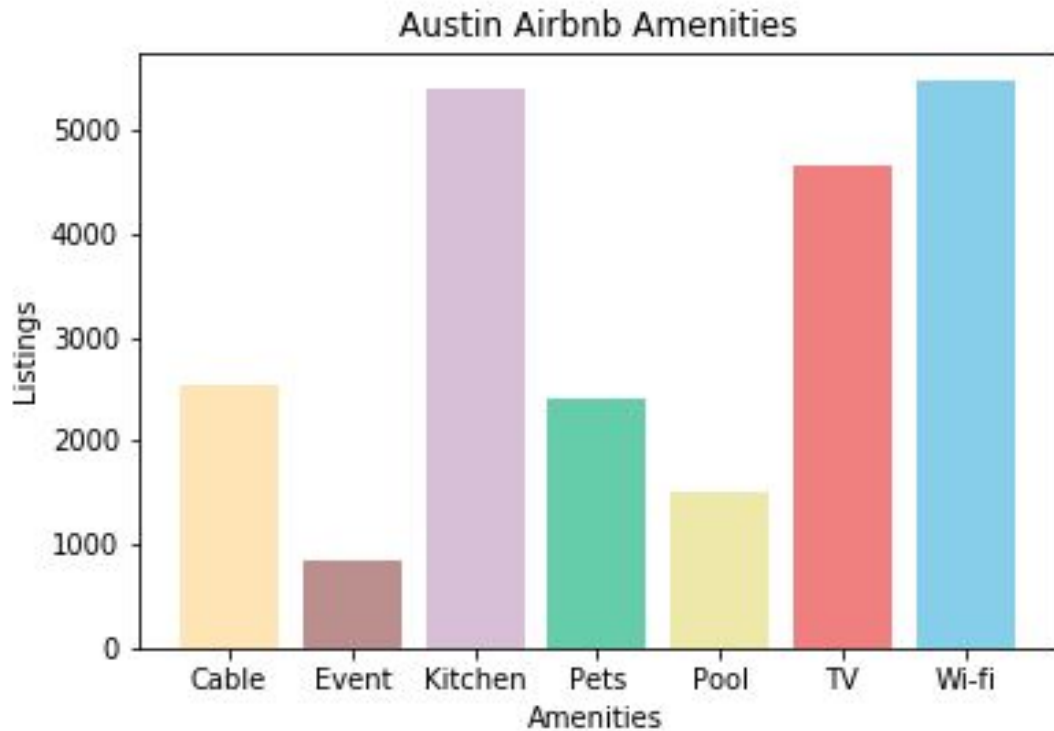


Motivation Summary Slide

Price Versus Reviews:



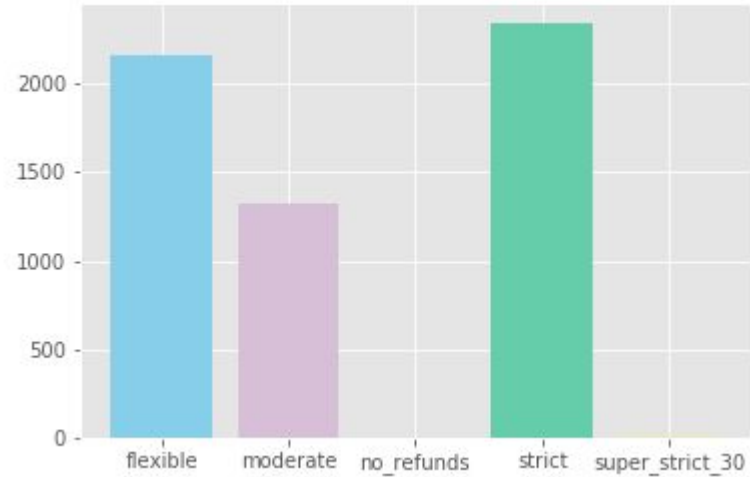
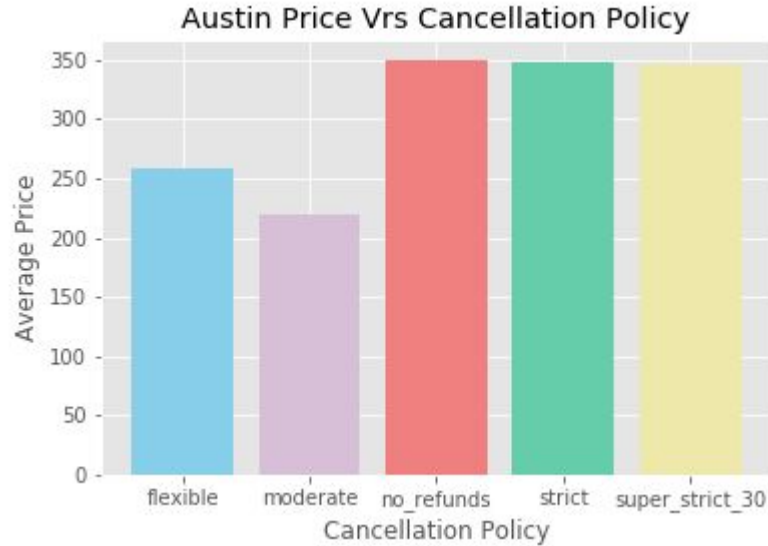
Austin Airbnb Amenities



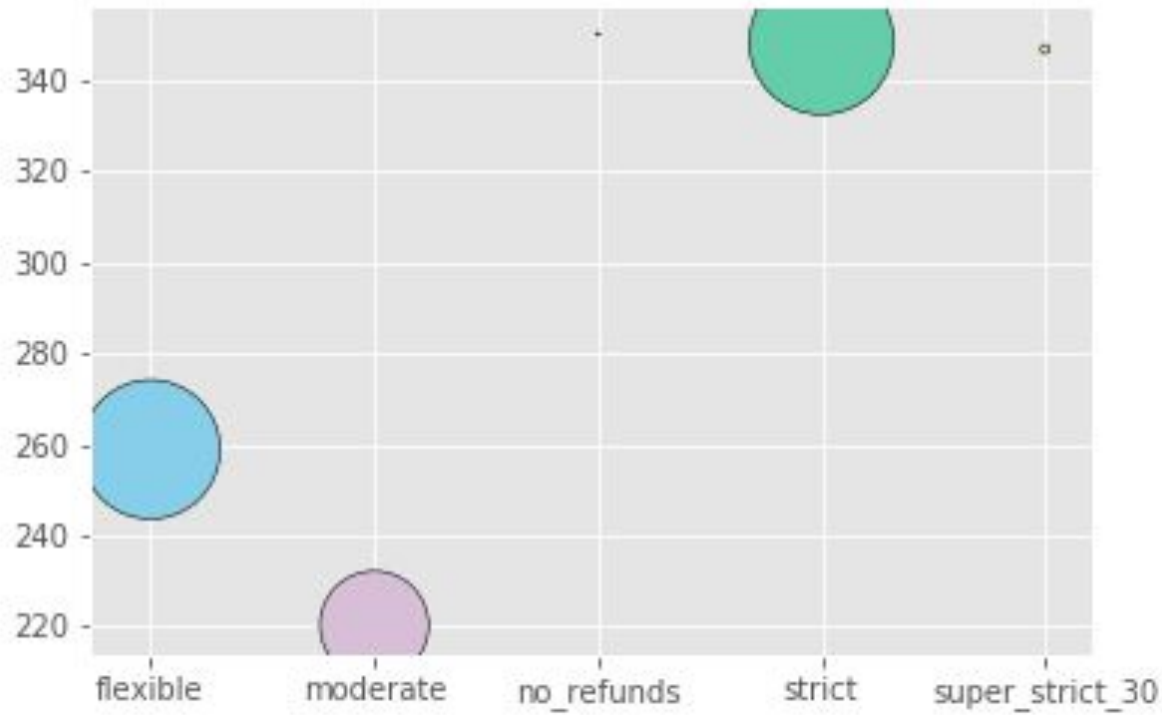
How does the number of accommodations listed affect price?



Price Versus Cancellation Policy



Price Versus Cancellation Policy



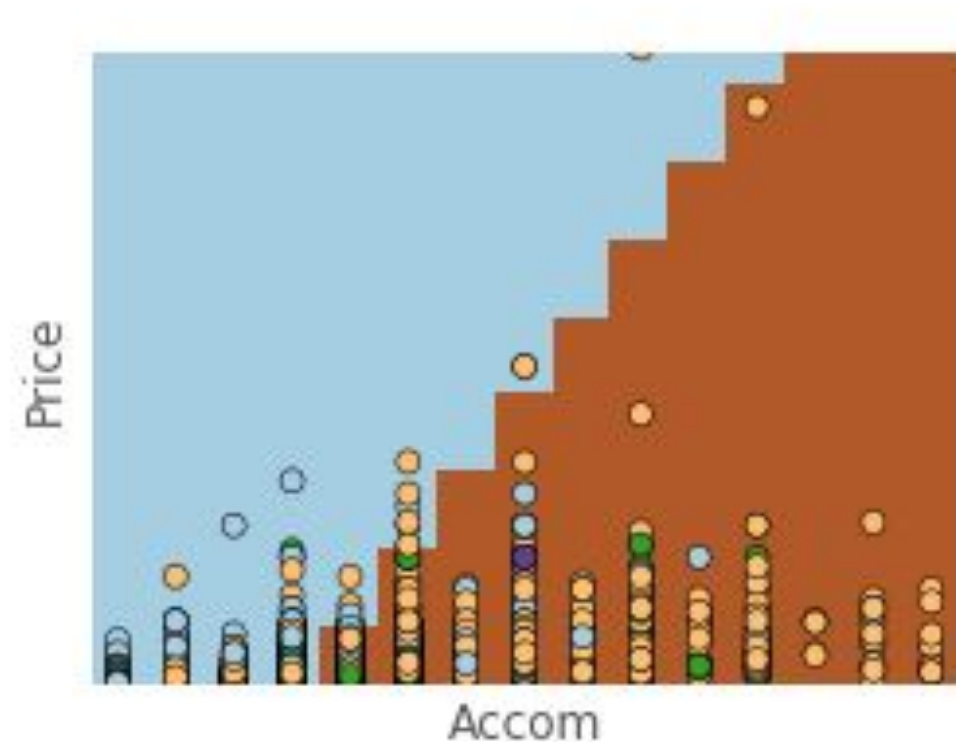
Logistic Regression

Asking: How does Price and Accommodations affect Cancellation Policy?

Logistic regression is a statistical method for analyzing a dataset in which there are one or more independent variables that determine an outcome.

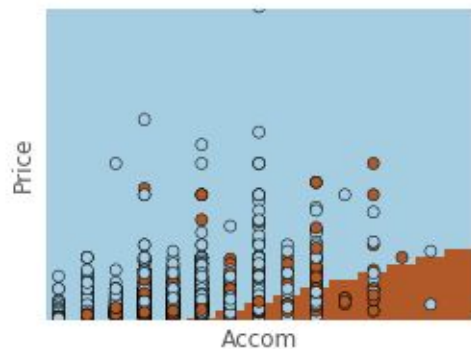
Inputs:

**All 5 Cancellation policies
Versus
Price and Accommodates**

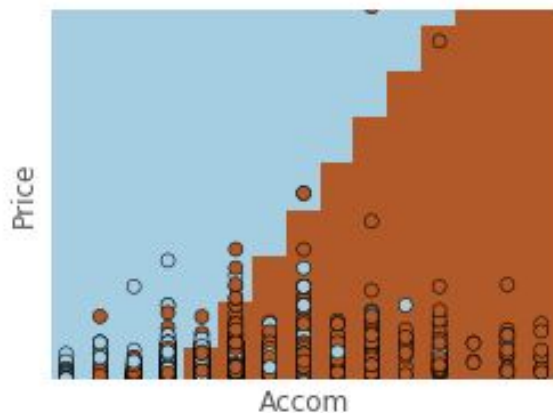


The Hunt!

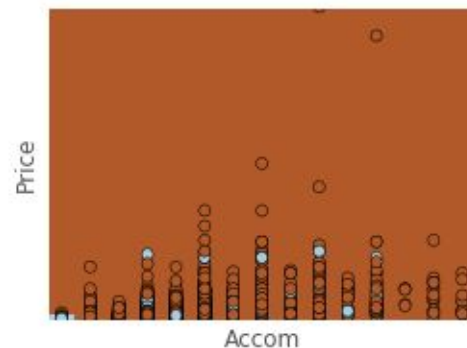
Flexible Versus Moderate



Flexible Versus Strict



Moderate Versus Strict



Data Sources

- Kaggle.com
- DataWorld.com
- TomSlee.com

Data Struggles

- HomeAway API
- Airbnb API
- Networking for HomeAway

Project Strengths – Bounced ideas and each did our assigned part...