



Hawaiian Island Analysis

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What does Hawaii have to offer?

- Hawaii's median house price is 3x the national average
- Cost of living is the highest in the country
- 4th smallest state in the United States



Which Island is the best to move to?

With being separated by water it's no easy task to pack up and move to a different island. This analysis will answer

- What island has the most inexpensive housing
- What type of venues are most popular in different cities
- What is the venue count and house prices across all the islands



The Data

- Zip code and cities of Hawaii scraped from zipcodestogo.com/Hawaii/
- Median house price: This data was gathered from [Zillow](#) using the above list of zip codes
- Longitude and latitude: Downloaded as an Excel file from simplemaps.com
- Nearby venue data: Using Foursquare API to search a radius of 1.5km



Housing and Location Data

- Originally started with 139 zip codes, some of these zip codes belonged to the same city
- After gathering house price data and latitude/longitude I merged the two data sets.
- The rows I kept had both House Price and Longitude/Latitude data - 48 cities remained

	City	County	House Price	Latitude	Longitude
0	Aiea	Honolulu	704300.0	21.3865	-157.9232
1	Anahola	Kauai	590300.0	22.1455	-159.3151
2	Captain Cook	Hawaii	363800.0	19.4995	-155.8937
3	Eleele	Kauai	495600.0	21.9088	-159.5801
4	Ewa Beach	Honolulu	625100.0	21.3181	-158.0073

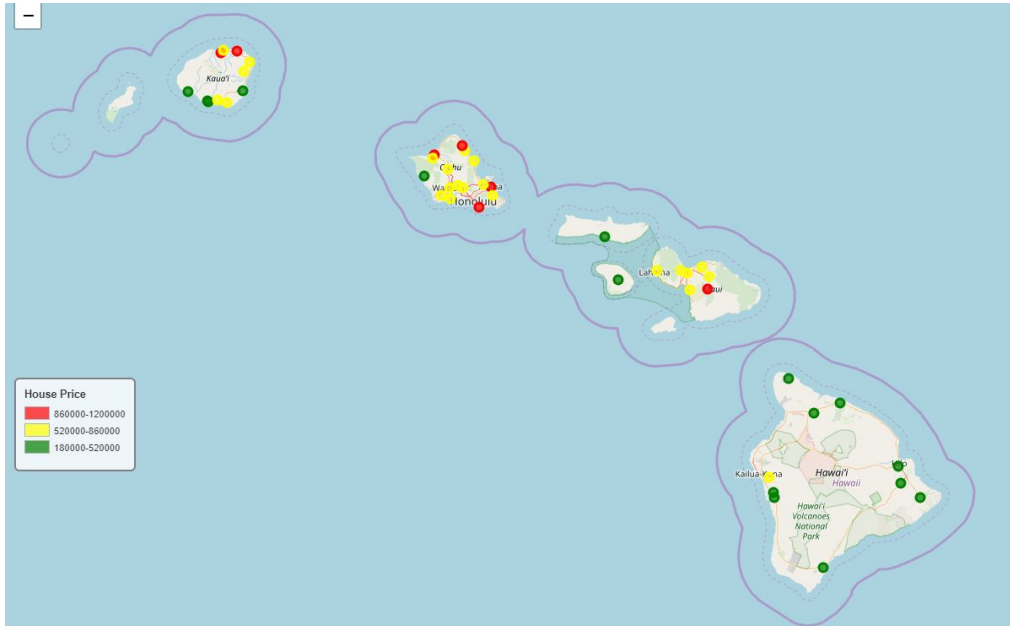


Venue Data

- Across 46 cities, 1277 venues were returned
- 2 cities did not have venues within a 1.5km radius
- Top 5 most common venues were found and created a dataset

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue
0	Aiea	Convenience Store	Fast Food Restaurant	Mexican Restaurant	Food Truck	Park
1	Anahola	Café	Spa	Burger Joint	Gift Shop	Beach
2	Captain Cook	Bookstore	Bed & Breakfast	Farm	Lawyer	Thrift / Vintage Store
3	Eleele	Dessert Shop	Boat or Ferry	Arts & Crafts Store	Gift Shop	Bakery
4	Ewa Beach	Fast Food Restaurant	Pizza Place	Home Service	Sandwich Place	Noodle House
5	Haleiwa	Food Truck	Ice Cream Shop	Surf Spot	Boutique	Board Shop

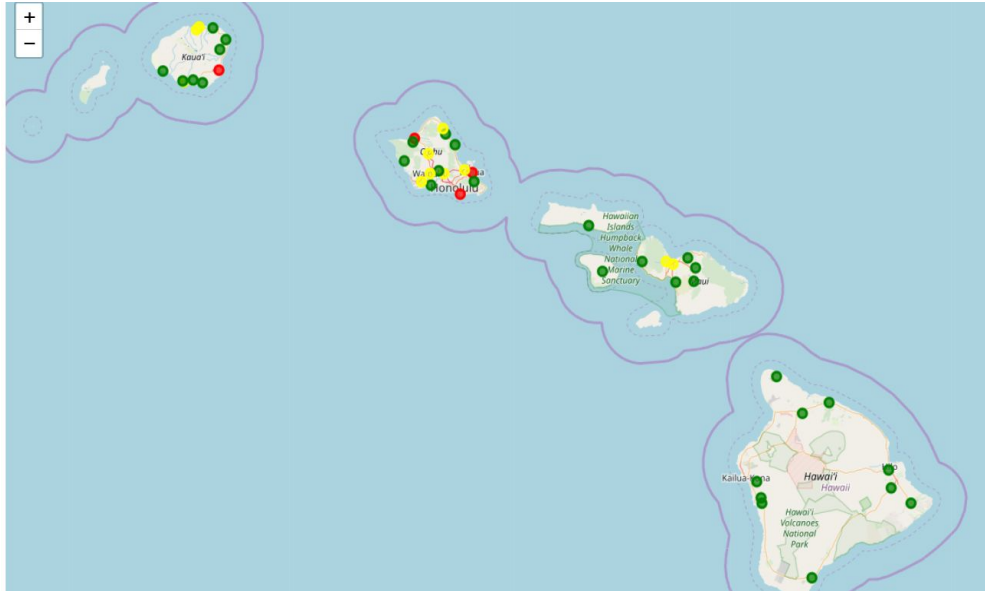
House Prices Mapped



- Hawaii has the most affordable housing and it's the biggest.
- Oahu is the most expensive
- Kauai has more low level housing price (\$180,000-500,000) than Maui

Left to Right: Kauai, Oahu, Molokai, Lanai, Maui, Hawaii

Venue Count Mapped



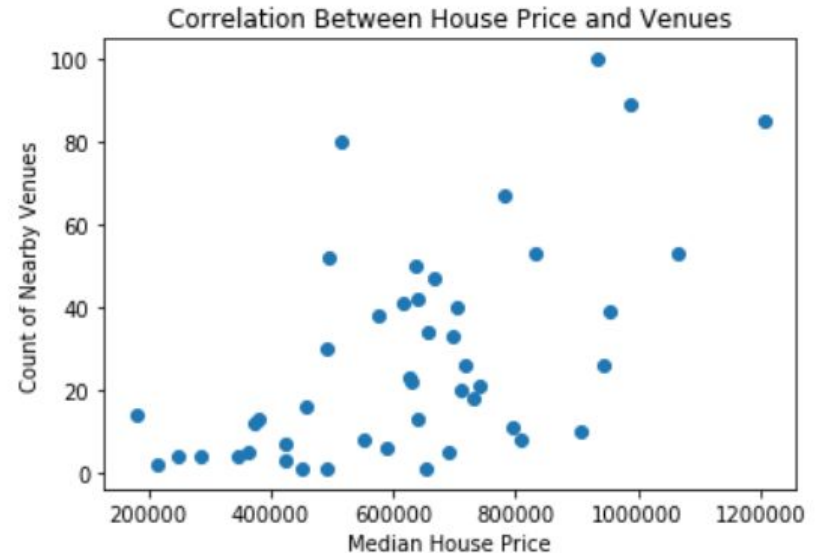
- Hawaii has the least amount of venues
- Oahu is most crowded
- Kauai is the only other island with above 67 venues

Left to Right: Kauai, Oahu, Molokai, Lanai, Maui, Hawaii

House Price and Venue Correlation

- This confirms there is a moderate correlation between house price and number of nearby venues
- It is not strong enough to make any assumptions from

Correlation Coefficient = .567





The Best Island?

"Best" is an arbitrary term, because what one person thinks would be a perfect place to live could be the complete opposite. So here is what the analysis did uncover.

- The island of **Hawaii** (The big island) has the most affordable houses. It also offers the least amount of nearby venues.
- **Oahu** is the busiest. It offers the most venues, the most zip codes, and the highest house prices
- **Kauai** looks like it still has some areas of affordable houses while still offering a smaller island feel
- **Maui** has slightly more expensive housing than Kauai
- **Molokai** and **Lanai** are both pretty small and with only 1 data point it is difficult to make an assumption about them