

Project: Write a Blog post about Airbnb-Data from Boston and Seattle

by Laura Hagg

Why is the analysis of Airbnbs in Boston and Seattle interesting? Both cities are really nice places to visit.

Here some pictures from each city:

Seattle:



Source: [Datei:Seattle 4.jpg – Wikipedia](#)

Boston:



Source: [Boston skyline from Longfellow Bridge September 2017 panorama 2 - Boston – Wikipedia](#)

But where do you want to sleep during your stay in one of these cities?

That's why I analyzed two datasets about the price and the ratings of airbnbs in Boston and Seattle. I hope this analysis will help you to find your decision.

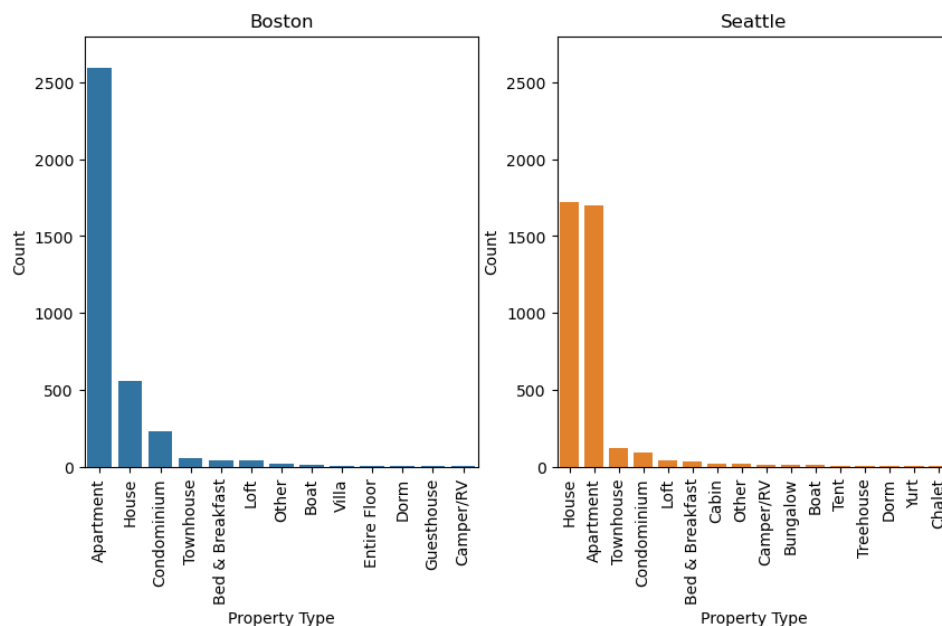
This are the Questions I want to answer in this blog post:

- Question 1: What are the differences in the price, the number of rooms and the property and room type in Seattle and Boston?
- Question 2: Which airbnbs have the most and the best reviews - Boston or Seattle?
- Question 3: Is there a correlation between the price and the number of bed- and bathrooms?
- Question 4: Is there a correlation between the property or room type of the airbnb and its rating?

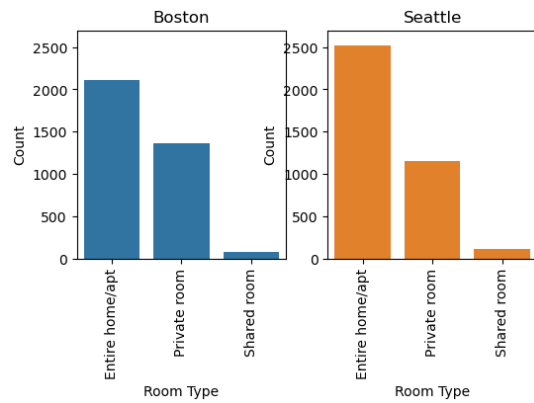
And here are the answers:

Question 1: What are the differences in the price, the number of rooms and the property and room type in Seattle and Boston?

If you prefer apartments you will get one in Boston and Seattle, as well. Both cities offer a lot of apartments via airbnb. But you have to know, that in Boston there are a lot more apartments available than in Seattle. In Seattle you can rent very exciting „rooms“, like tents, treehouses and yurts. So if you are excited for some adventure: stay in Seattle!

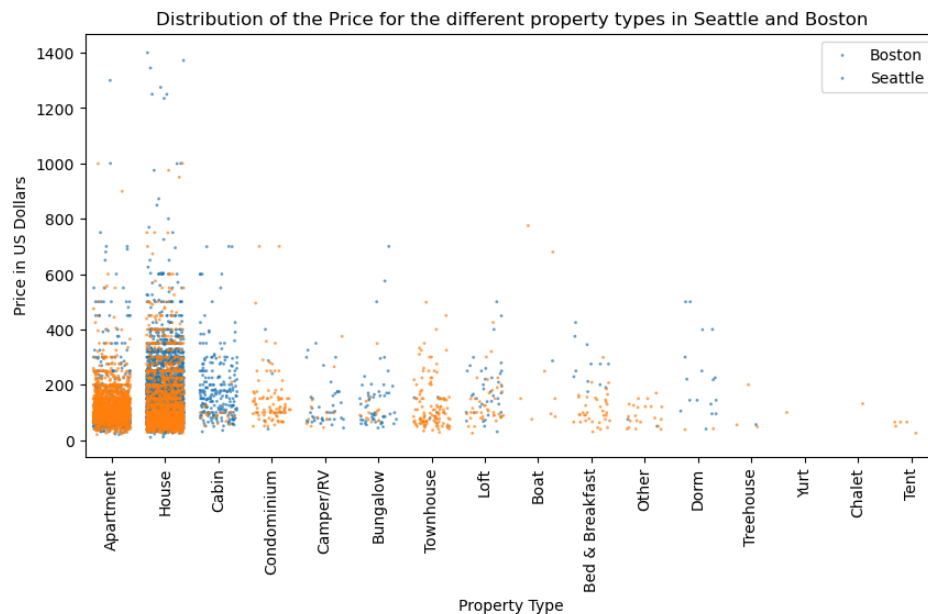


In both cities you can rent a entire home. But if you want to stay with other people, you also can get private rooms or shared rooms in Boston and Seattle:



But which city is more expensive? Boston or Seattle?

In this visual you can see, that there are more blue (Boston) points than orange (Seattle) points at the higher prices. So if you want a cheap trip, you will have more look in Seattle so find a good offer.

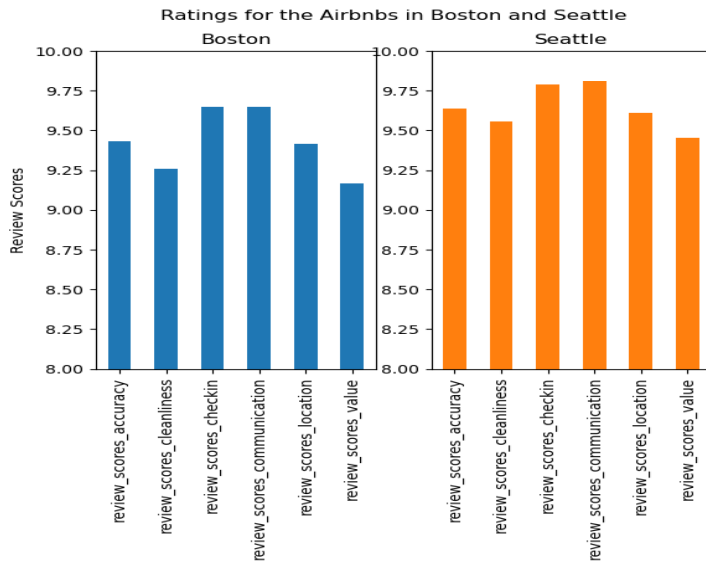


Question 2: Which airbnbs have the most and the best reviews - Boston or Seattle?

The first thing i have to say: both cities have very good reviews. In Seattle the scores are a little higher than in Boston.

One difference is the overall proportion for ratings in both cities:

- 76.95 % of the airbnbs in Boston are reviewed.
- 82.71 % of the airbnbs in Seattle are reviewed.

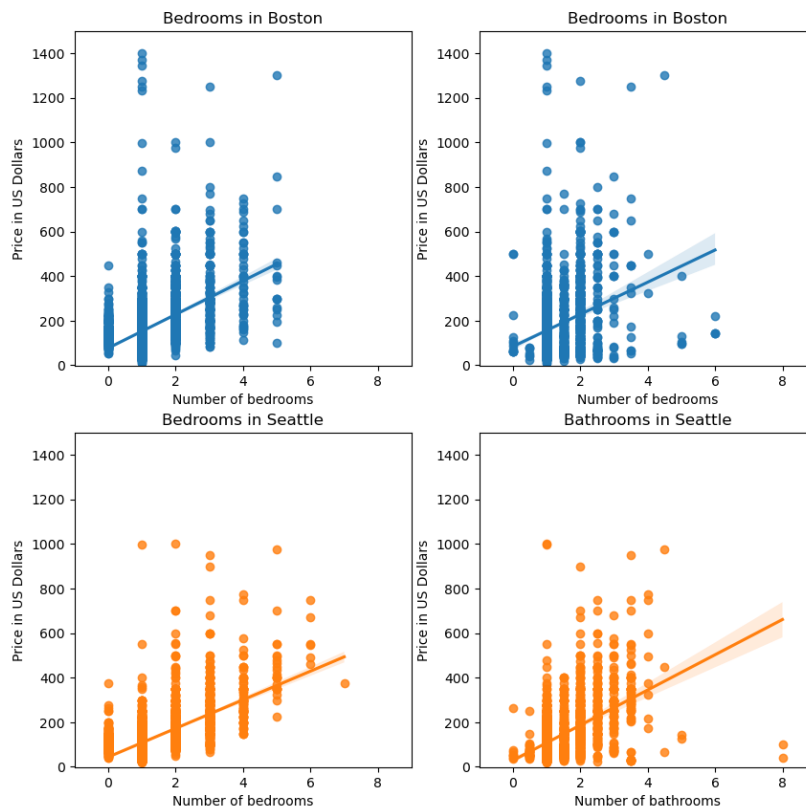


The last two questions are answered with Linear Regression Models to see if there is a correlation between the values:

Question 3: Is there a correlation between the price and the number of bed- and bathrooms?

The line in the graphs shows, that the more rooms (bath and bed rooms) are in the airbnb the higher the price:

Correlation between the number of rooms and the price of the Airbnbs in Boston and Seattle



So if you want a big airbnb with more rooms, you have to pay more. But if you are travelling with friends you can share the price of the airbnb – and trips with friends are more fun!

Question 4: Is there a correlation between the property or room type of the airbnb and its rating?

This analysis should help you to decide which property or room type of the airbnb you have to choose, to get the one with the best rating. But after calculating with some fancy Regression models (this is a blog post and I don't want to go in further statistical details...) it seems, that there is no correlation between a good rating and the type of the airbnb.

So go online, look which type of airbnb you like and have a nice trip in Boston or Seattle!

Sources of the graphs: `blog_post_code.ipynb`