# **Airbnb Listing Prices and Venues Data Analysis of Seattle**

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## **1. Introduction**

### **Description and Discussion of the Background**

Airbnb is an online marketplace where users can arrange or offer accommodation or travel experiences since 2008. The properties in listings do not belong to the company. Instead it acts as a broker and receives commission for each booking [1]. The price range of homestays depends on a range of variable such as the location, number of bedrooms and bathrooms, nearby transportation options and things to do around etc.

Seattle is one of the fastest-growing cities in United States and the largest one in the state of Washington with an estimated population of 744,955 as of 2018 [2]. Since the city is the heart of many major companies in U.S. and also has many attractions it has millions of visitors each year. It was reported that 38.1 million people visited the city of Seattle and the King County, which is the county Seattle is located in, in 2015[3] and 40 million visitors in 2018 with a groundbreaking record [4].

This goal of this project is to visualize neighborhoods of Seattle on map regarding the average nightly prices of Airbnb places and cluster the neighborhoods in order to see the relation between prices and attractions.

### **Data Description**

[1] [Airbnb- Wikipedia](https://en.wikipedia.org/wiki/Airbnb)

[2] [Seattle- Wikipedia](https://en.wikipedia.org/wiki/Seattle)

[3] [visitseattle.org](https://visitseattle.org/press/press-releases/seattle-tourism-statistics-announced/)

[4] [visitseattle.org](https://visitseattle.org/press/press-releases/seattle-celebrates-record-breaking-tourism-season-with-more-than-40-million-visitors-in-2018/)