

Zumper-Apartment-West End Vancouver

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```
library(readxl)
Zumper_West_End_New <- read_excel("R programming/Zumper West End-New.xlsx")
```

Structure of Data

The original "Zumper-Apartment-West End Vancouver" dataset consists of 11 variables. All of these variables are scraped from www.Zumper.com filtered for West End Vancouver location. Over 117 posts are collected.

```
str(Zumper_West_End_New)
```

```
## tibble [117 × 11] (S3: tbl_df/tbl/data.frame)
## $ No : num [1:117] 1 2 3 4 5 6 7 8 9 10 ...
## $ Price : num [1:117] 4700 11500 4500 4100 4850 11000 8800 8950 42
00 4350 ...
## $ Room : chr [1:117] "1 Bed" "2 Beds" "Studio" "Studio" ...
## $ Sqft : num [1:117] 1200 2650 1300 1200 1000 2400 1980 1800 870
850 ...
## $ Address : chr [1:117] "West End Vancouver" "West End Vancouver"
"West End Vancouver" "West End Vancouver" ...
## $ Hard Wood Floor : chr [1:117] NA NA NA NA ...
## $ Parking : chr [1:117] "Assigned Parking" "Assigned Parking" "Assigned
Parking" "Assigned Parking" ...
## $ In Suite Laundry : chr [1:117] "In Unit Laundry" "\r\nIn Unit Laundry" "\r\n
In Unit Laundry" NA ...
## $ Dishwasher : chr [1:117] "Dishwasher" "Dishwasher" "Dishwasher" NA ..
.
## $ Wheelchair Accessible: chr [1:117] NA NA NA NA ...
## $ Controlled access : chr [1:117] NA "Controlled Access" NA NA ...
```

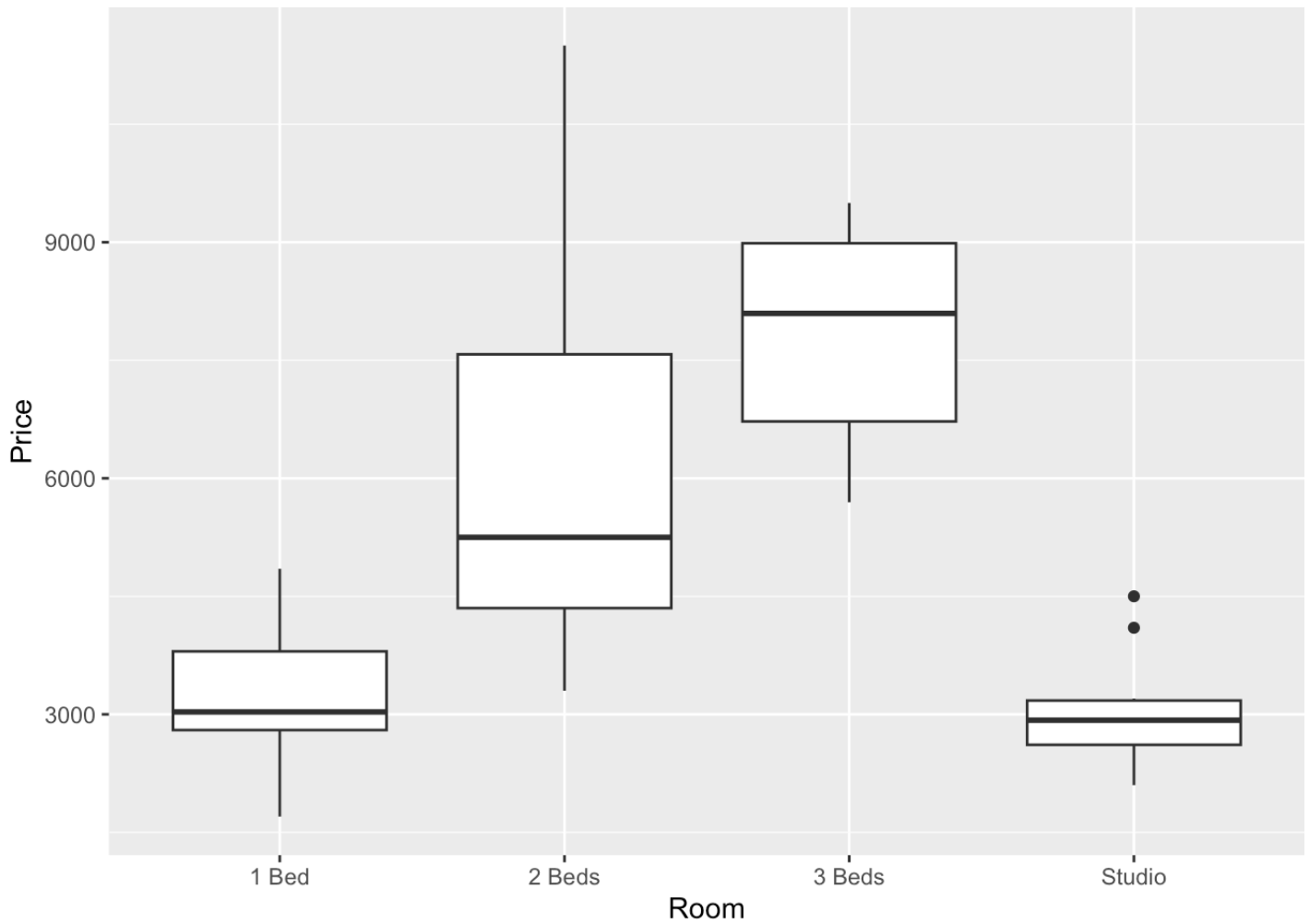
Cleanning Data

Due to a few number of data, cleaning process was done by Excel.

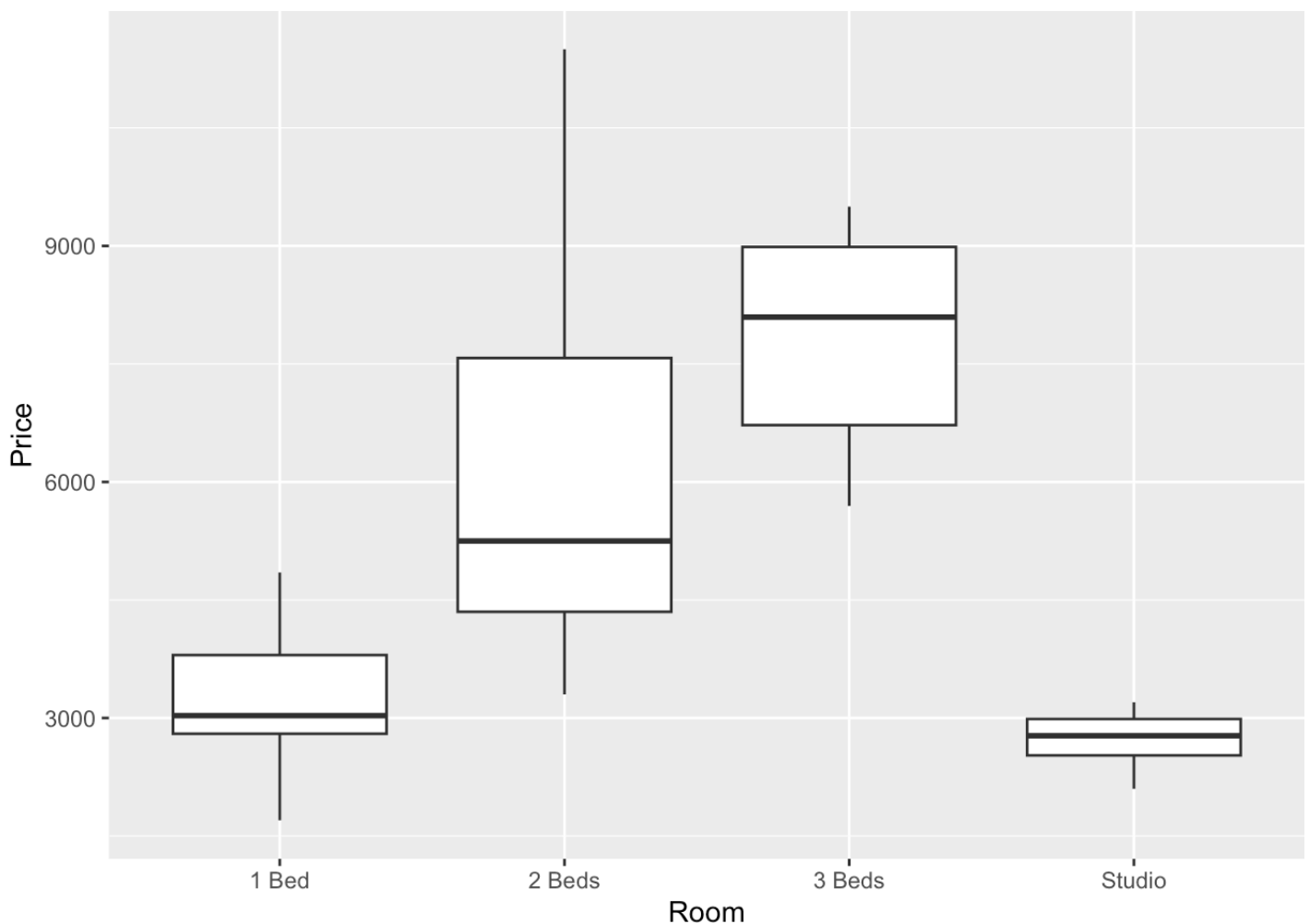
Identify outlier values

There are some outlier values for the studio type, so these values will be removed

```
library(readxl)
Zumper_with_outliers <- read_excel("R programming/Zumper-with-outliers.xlsx")
library(ggplot2)
ggplot(Zumper_with_outliers, aes(Room, Price)) + geom_boxplot()
```

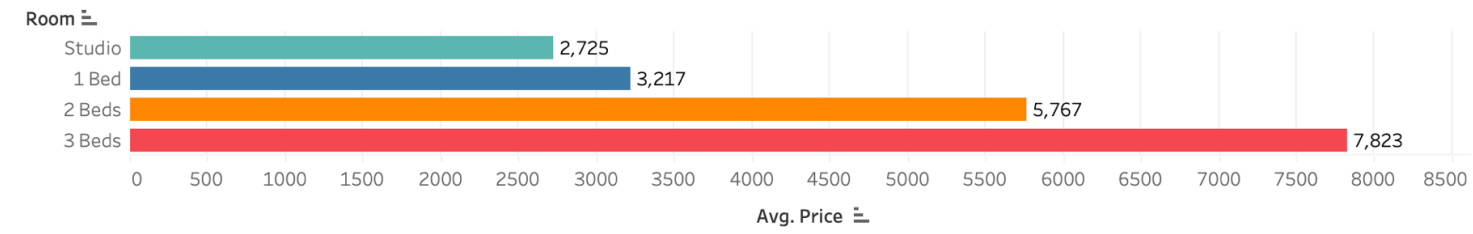


```
Zumper <- read_excel("R programming/Zumper.xlsx")
ggplot(Zumper, aes(Room, Price)) + geom_boxplot()
```



What is an average price per each room type?

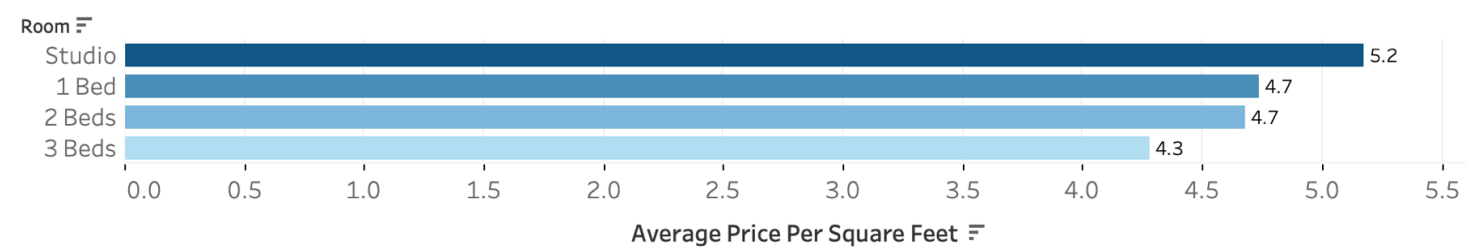
Average Price Per Room Type
West End Vancouver, August 2023



Average asking price for apartments in West End, Vancouver, Canada rose above \$2,500 for all unit types. The average one bedroom in August 2023 in West End reaches an all-time high of \$3,217. The two bedroom unit has an average price of \$5,765 while the studio price costs over 50% of the two bedroom price.

What is an average price per square feet?

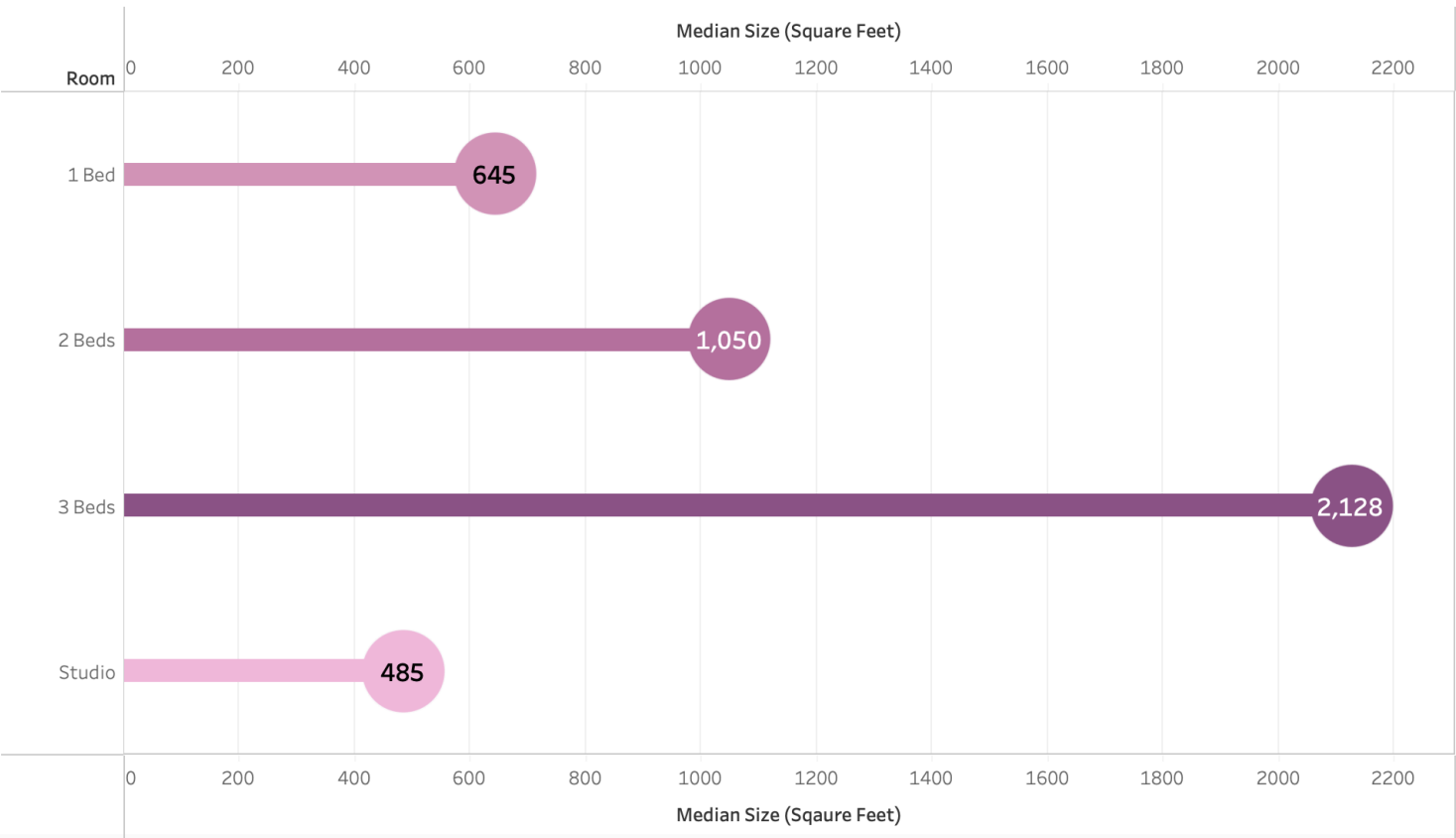
Average Price Per Square Feet For Each Room Type



The highest number is studio which is \$5.2 per square feet, which is 10% higher than one bedroom and two bedroom types. The reast expensive units were represented by three bedroom type, averaging price per square feet of \$4.3.

Median Size in Square Feet Per Each Room Type

Median Size Per Each Type

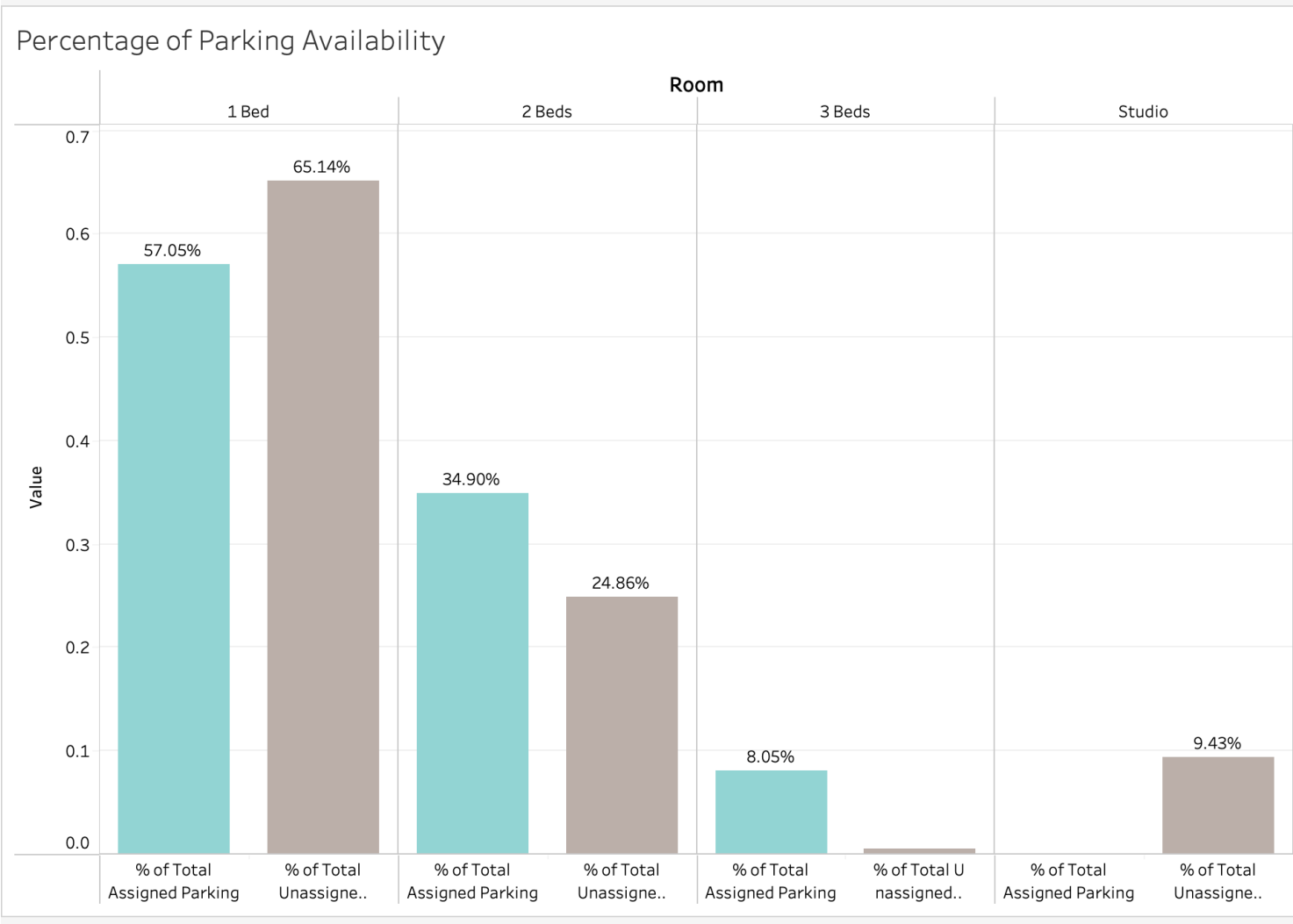


Min-Max Size for each unit

Number of Max and Min Value

	Room			
	1 Bed	2 Beds	3 Beds	Studio
Max Sqft	1,200	2,650	2,300	850
Min Sqft	395	746	1,000	395

What Is Percentage of Parking Availability?



For three bedroom unit ads all have assigned parking while the studio ads, all of the ads do not have assigned parking option.

The majority of two bedroom advertisements have assigned parking option.

What Is Percentage In-Unit Laundry?



Most of the studio advertisements provide in-suite laundry option