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## QUICK QUESTION 5 (1/1 point)

In the previous video, our heatmap was plotting squares out in the water, which seems a little strange. We can fix this by removing the observations from our data frame that have  $\text{Freq} = 0$ .

Take a subset of `LatLonCounts`, only keeping the observations for which  $\text{Freq} > 0$ , and call it `LatLonCounts2`.

Redo the heatmap from the end of Video 5, using `LatLonCounts2` instead of `LatLonCounts`. You should no longer see any squares out in the water, or in any areas where there were no motor vehicle thefts.

How many observations did we remove?



**Answer:** 952

### EXPLANATION

You can take a subset of `LatLonCounts`, only keeping the observations for which  $\text{Freq} > 0$  with the following command:

```
LatLonCounts2 = subset(LatLonCounts, Freq > 0)
```

Then, you can generate the new heatmap with the following command:

```
ggmap(chicago) + geom_tile(data=LatLonCounts2, aes(x = Long, y = Lat, alpha=Freq), fill="red")
```

The number of observations in `LatLonCounts2` is 686, and the number of observations in `LatLonCounts` is 1638. These numbers can be found by using `nrow` or `str`.

Check

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