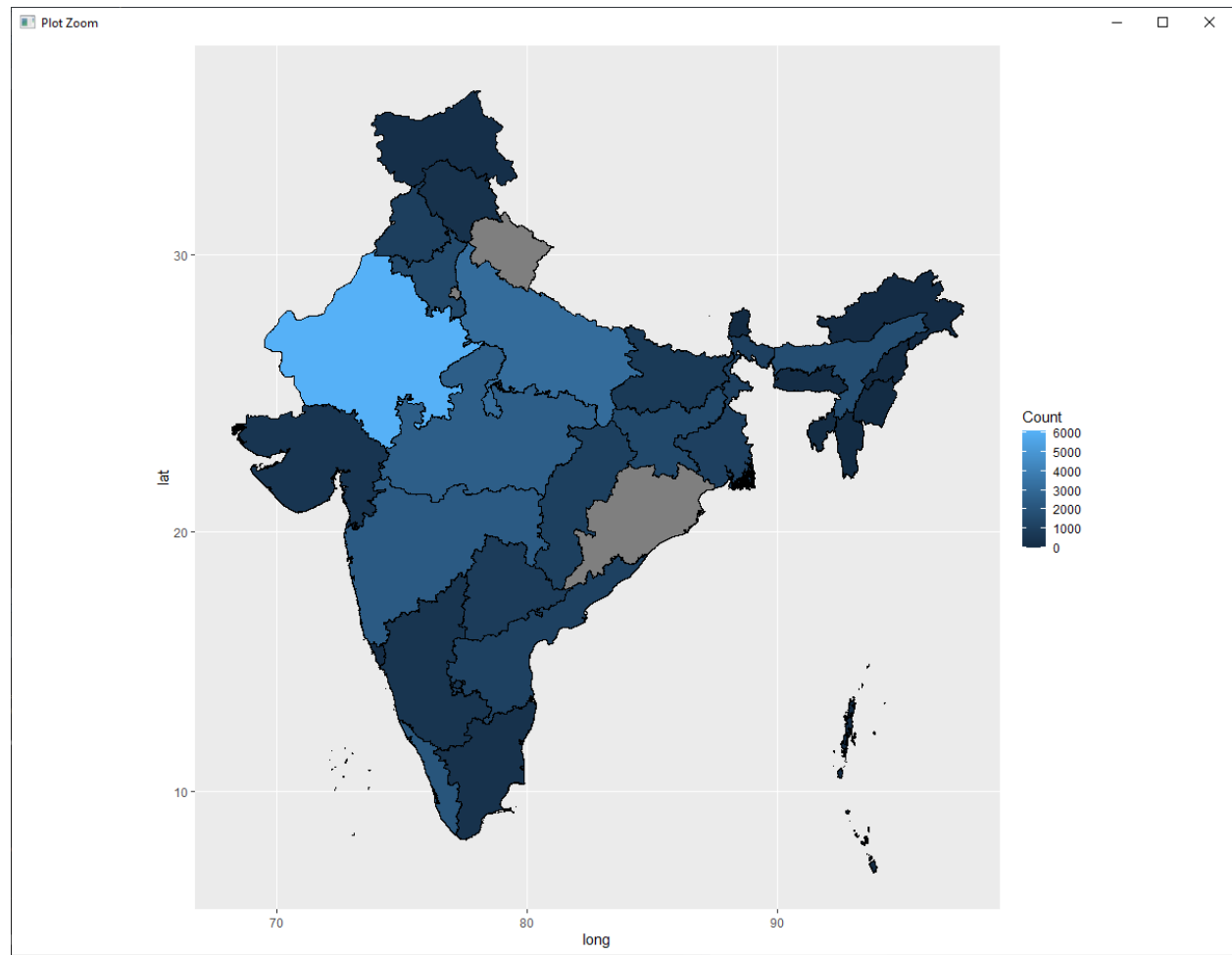


## MAP VISUALIZATION

```
plotmap <- ggplot()+  
  geom_polygon(data = final.plot,aes(x = long, y = lat, group = group, fill = Count),  
    color = "black", size = 0.25) +  
  coord_map()
```

plotmap

This will be the map shown after running the above code.



```
#plot with different color
```

```
ggplot()+
```

```
  geom_polygon(data = final.plot, aes(x = long, y = lat, group = group, fill = Count),  
              color = "white", size = 0.25) +
```

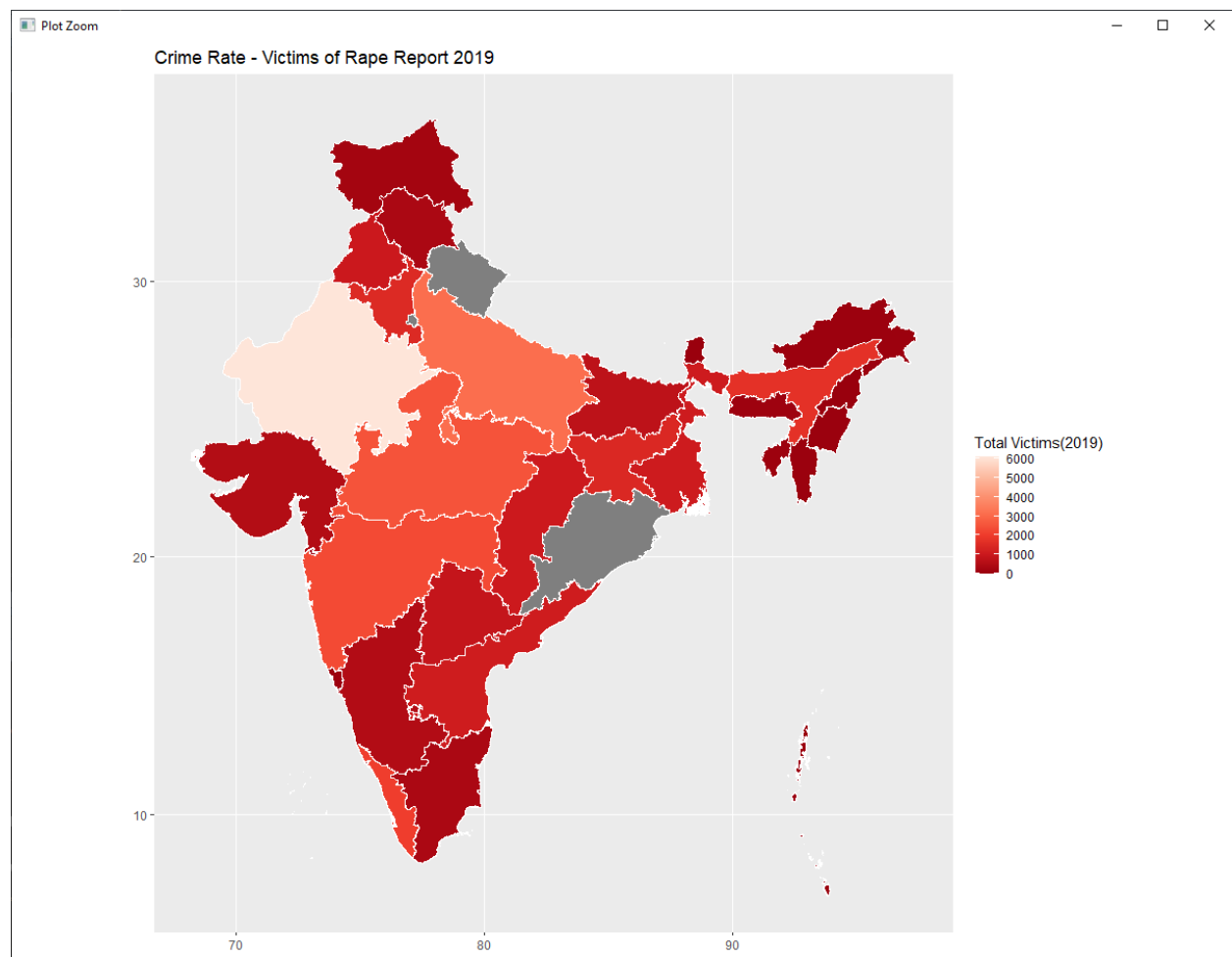
```
  coord_map()+
```

```
  scale_fill_distiller(name = "Total Victims(2019)", palette = "Reds") +
```

```
  labs( x = NULL,
```

```
        y = NULL,
```

```
        title="Crime Rate - Victims of Rape Report 2019")
```



# Changed the limit, - see the color palette (dark are most cases of crime reported, less color has less number of crime reported.)

```
ggplot()+
```

```
  geom_polygon(data = final.plot, aes(x = long, y = lat, group = group, fill = Count),
```

```
    color = "white", size = 0.25) +
```

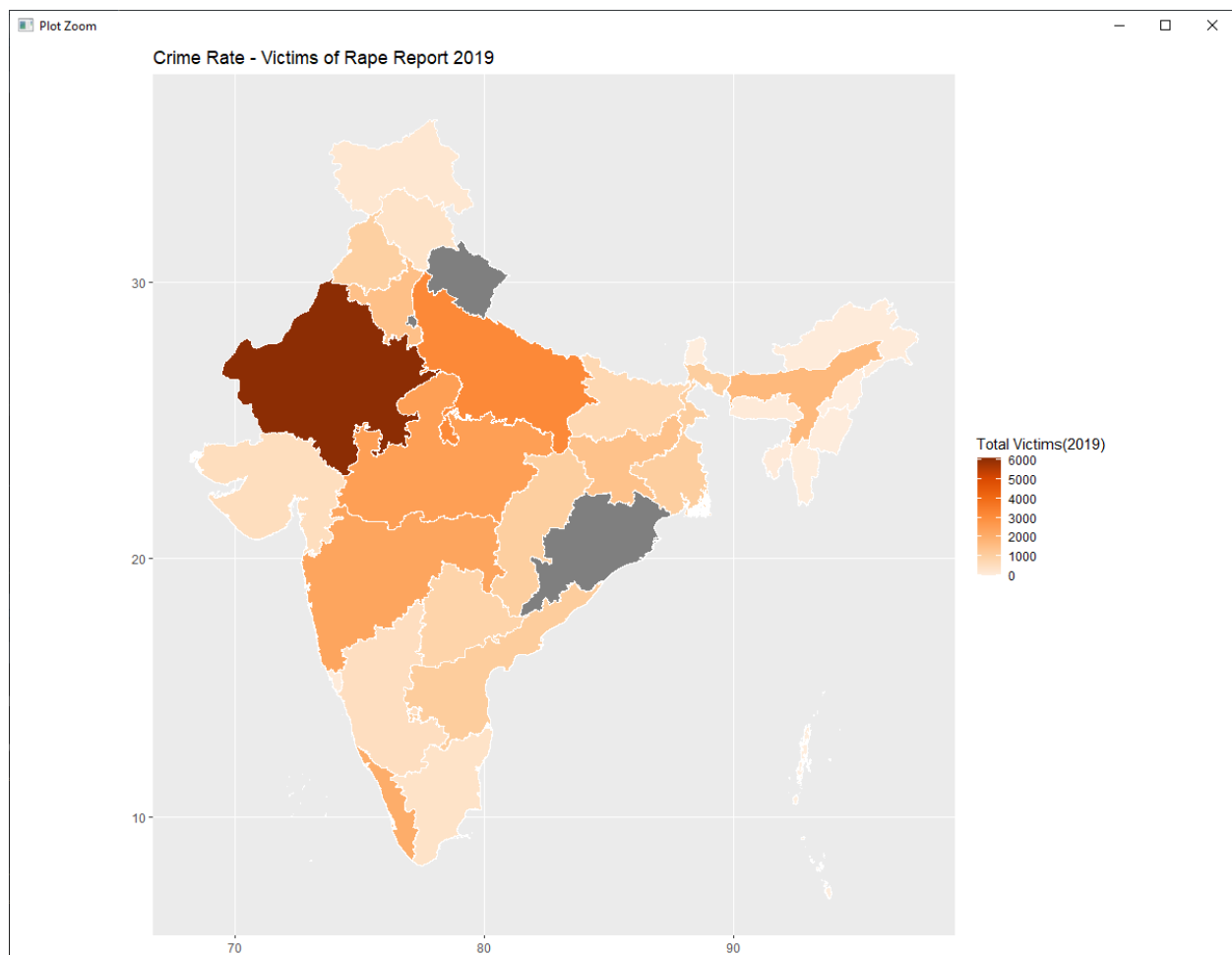
```
  coord_map()+
```

```
  scale_fill_distiller(name = "Total Victims(2019)", palette = "Oranges", direction = 1)+
```

```
  labs( x = NULL,
```

```
        y = NULL,
```

```
        title="Crime Rate - Victims of Rape Report 2019")
```



```
# With state names
```

```
cnames <- aggregate(cbind(long, lat) ~ id, data=final.plot, FUN=function(x) mean(range(x))) # for  
aggregating the state names in map
```

```
ggplot()+
```

```
  geom_polygon(data = final.plot, aes(x = long, y = lat, group = group, fill = Count),  
              color = "white", size = 0.25) +
```

```
  coord_map()+
```

```
  scale_fill_distiller(name = "Total Victims(2019)", palette = "Oranges", direction = 1)+
```

```
  labs( x = NULL,
```

```
        y = NULL,
```

```
        title="Crime Rate - Victims of Rape Report 2019")+
```

```
  geom_text(data = cnames, aes(long, lat, label = id), size=2, fontface="bold")+
```

```
  theme_dark()
```

