Community Contribution

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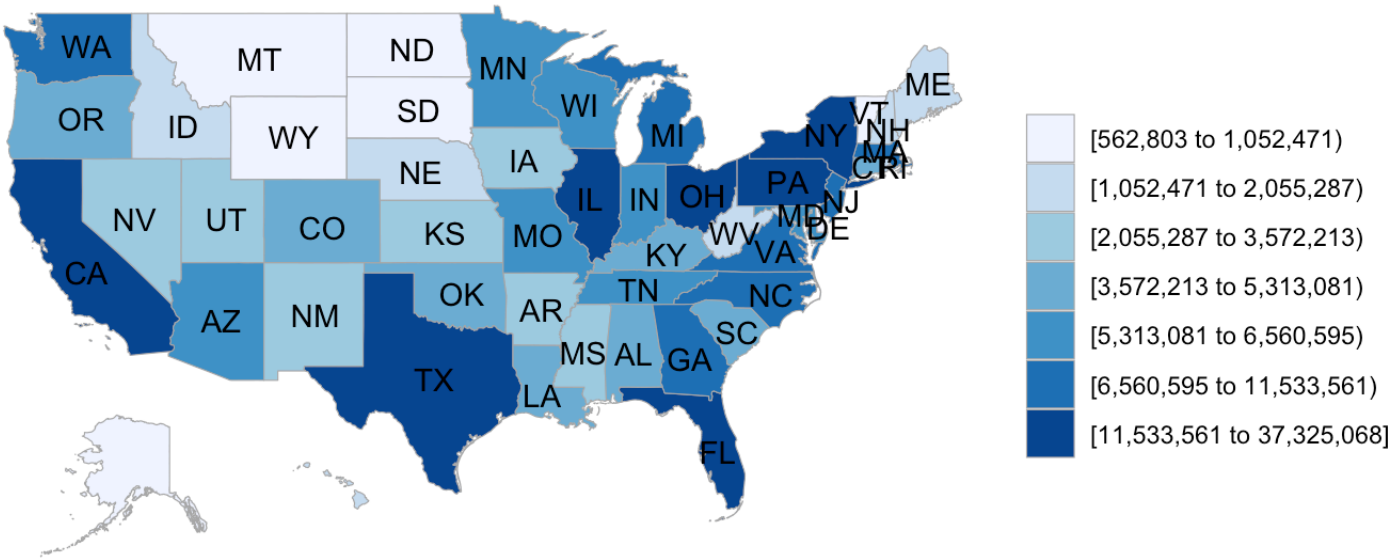
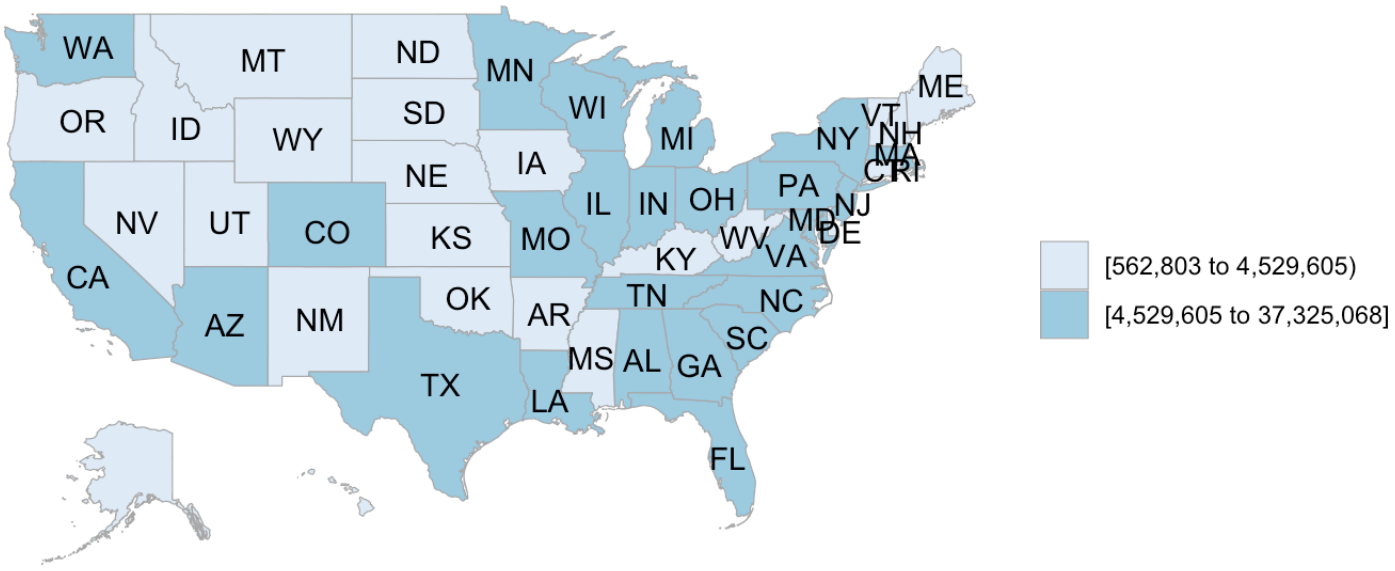
```
library(tidyverse)
library(dplyr)
library(plotly)
library(ggplot2)
library(choroplethrZip)
library(choroplethr)
library(choroplethrMaps)
data("df_pop_state")
head(df_pop_state)
```

```
##       region    value
## 1    alabama  4777326
## 2     alaska   711139
## 3    arizona  6410979
## 4   arkansas  2916372
## 5 california 37325068
## 6   colorado  5042853
```

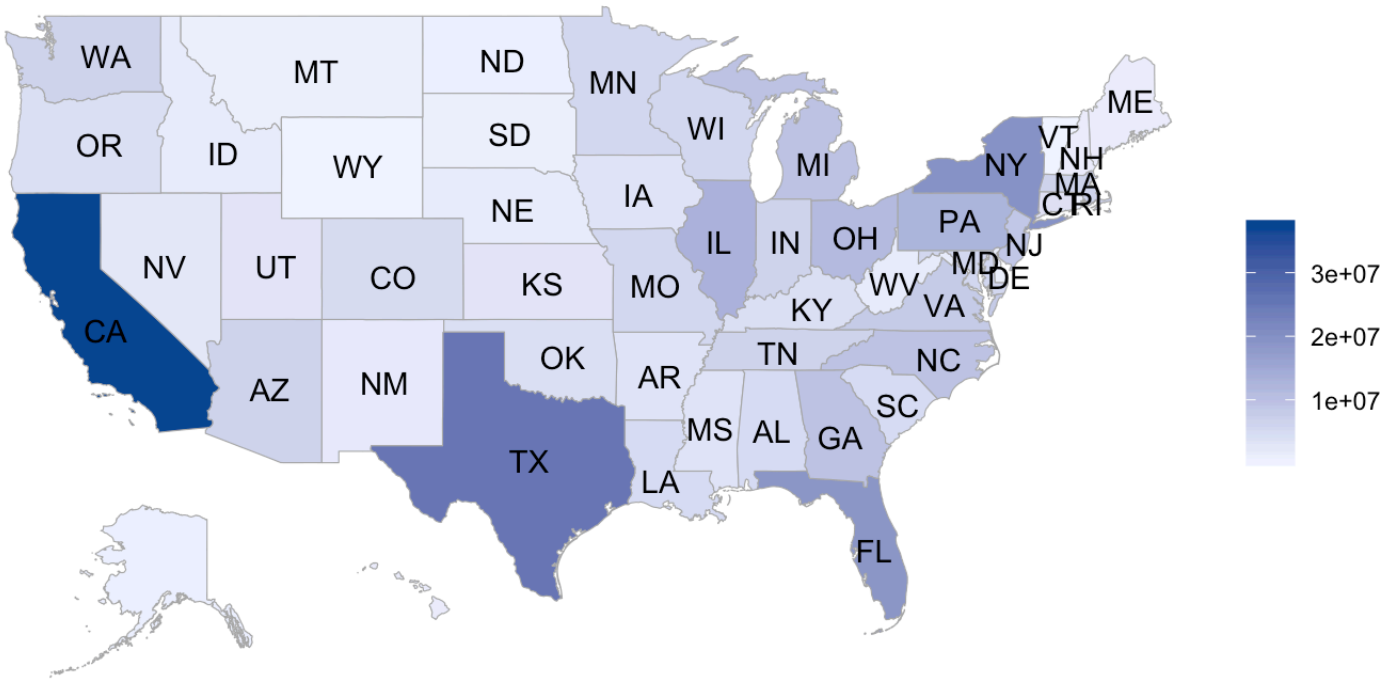
```
state_choropleth(df_pop_state)
```



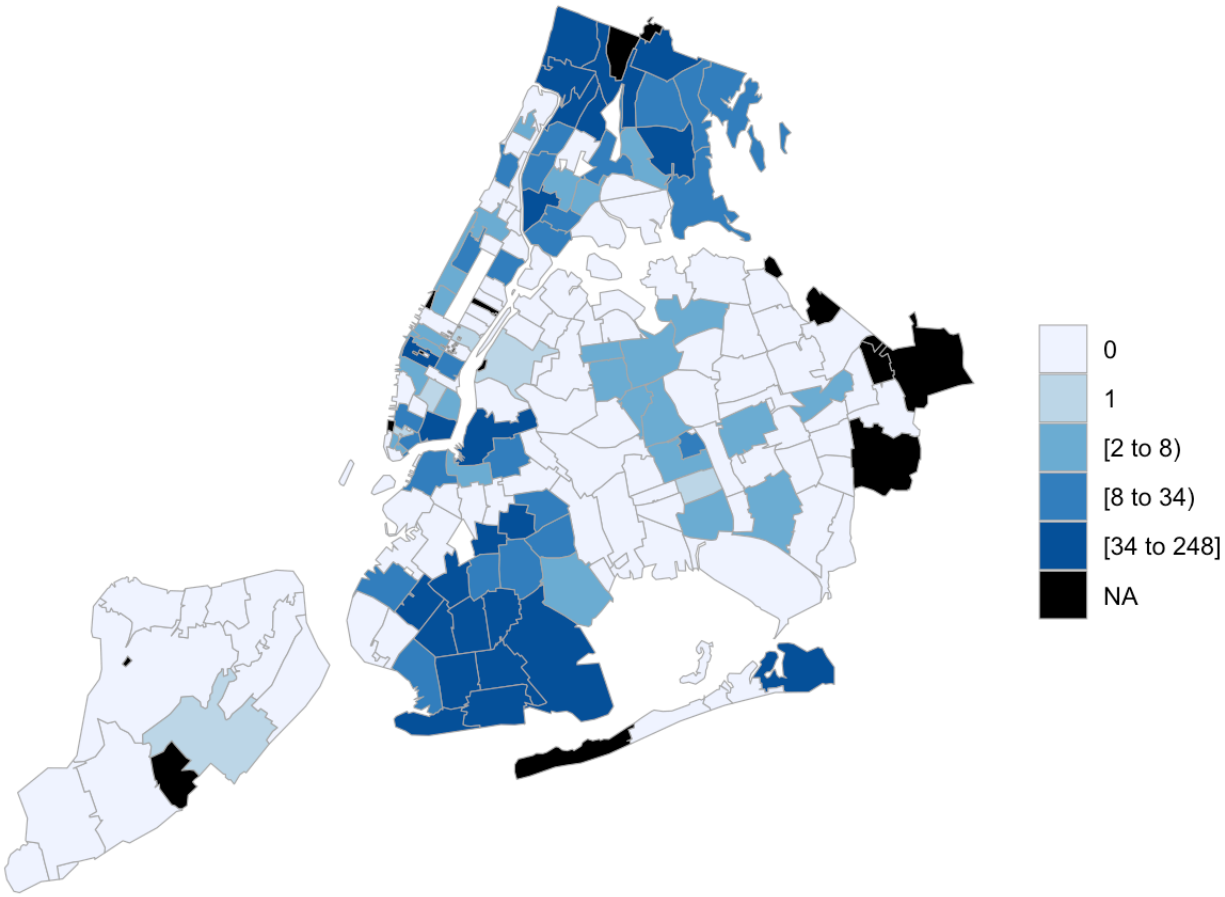

```
state_choropleth(df_pop_state,num_colors=2)
```



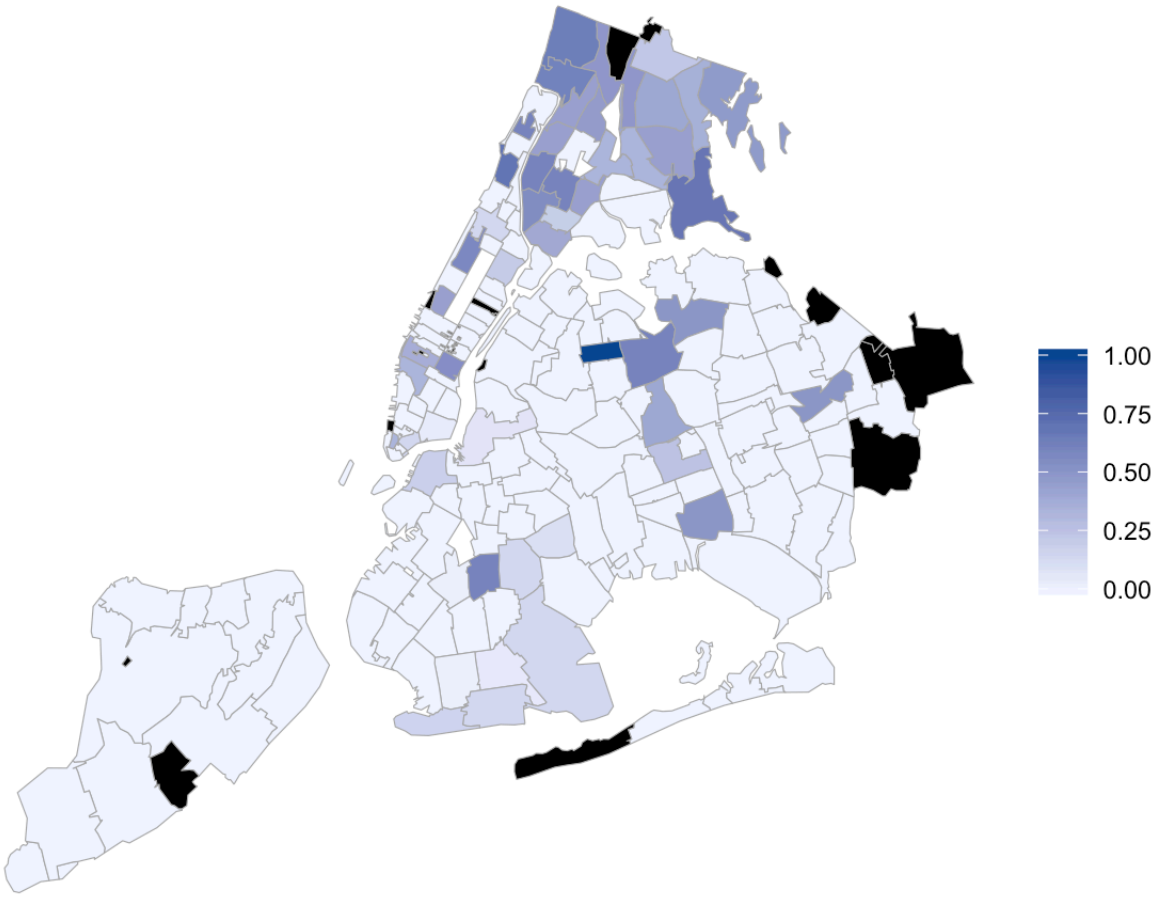

```
state_choropleth(df_pop_state,num_colors=1)
```



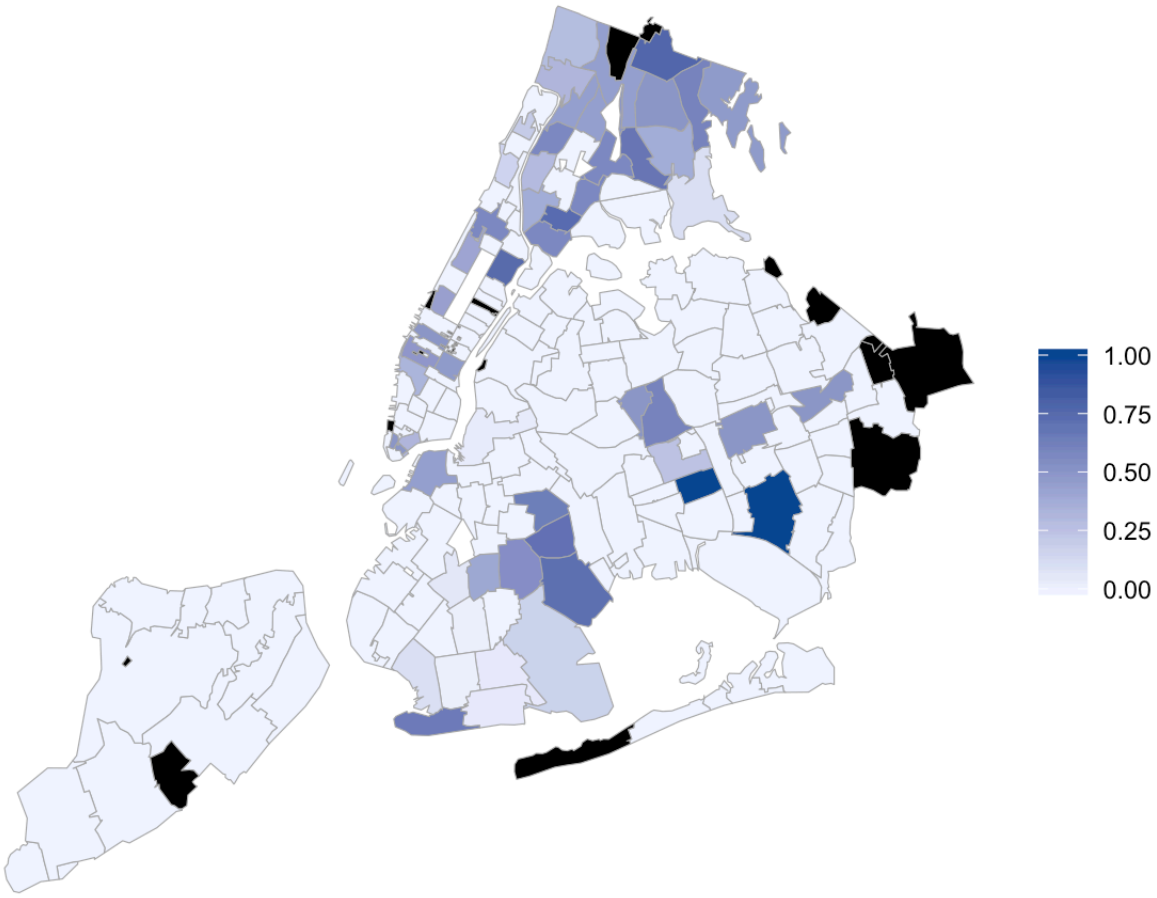

```
demo<-read_csv('/Users/hrishikeshtelang/Downloads/Demo.csv')
names(demo)[1]<-"region"

part<-select(demo,region,"COUNT PARTICIPANTS")
names(part)[2]<-"value"
part$region <- as.character(part$region)
nyc_fips = c(36005, 36047, 36061, 36081, 36085)
zip_choropleth(part,county_zoom=nyc_fips)
```



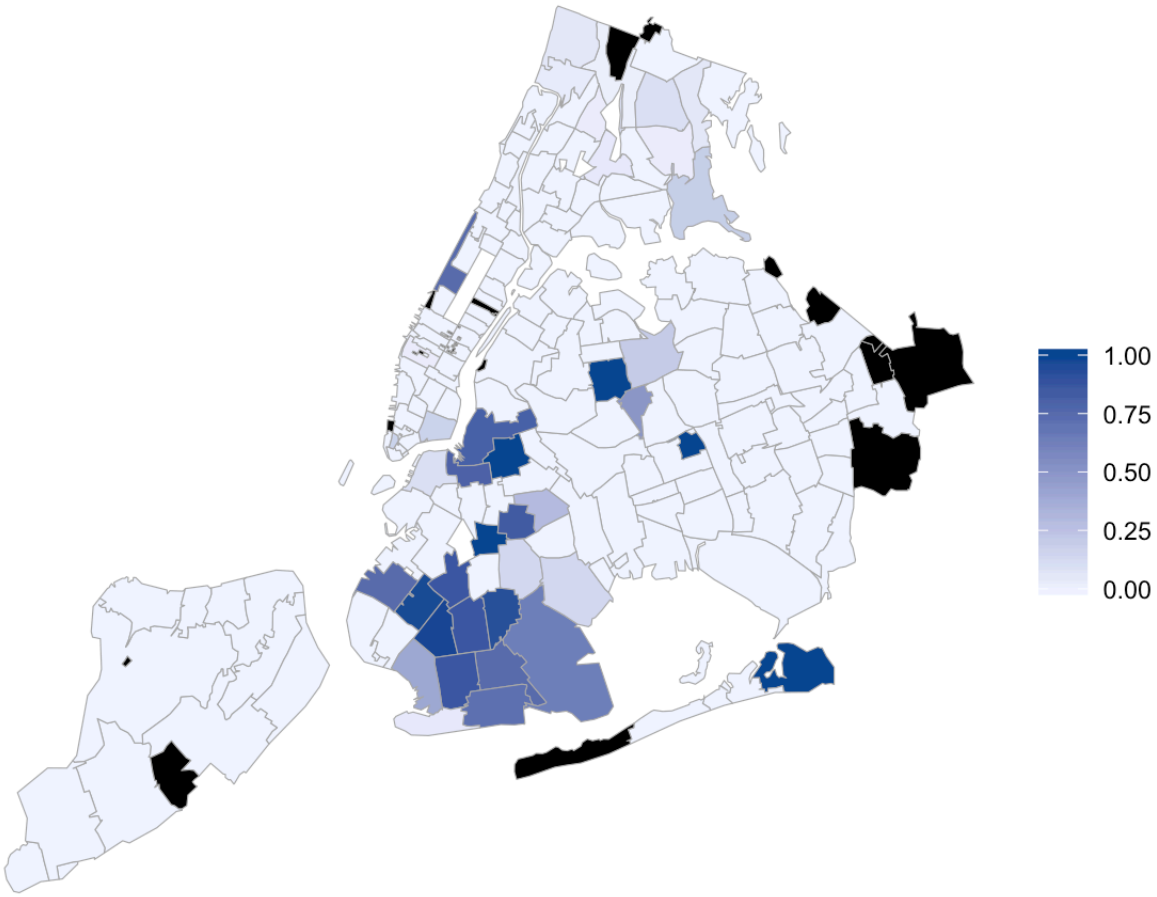

```
hisp<-select(demo,region,"PERCENT HISPANIC LATINO")
names(hisp)[2]<-"value"
hisp$region <- as.character(hisp$region)
nyc_fips = c(36005, 36047, 36061, 36081, 36085)
zip_choropleth(hisp,num_colors= 1,county_zoom=nyc_fips)
```



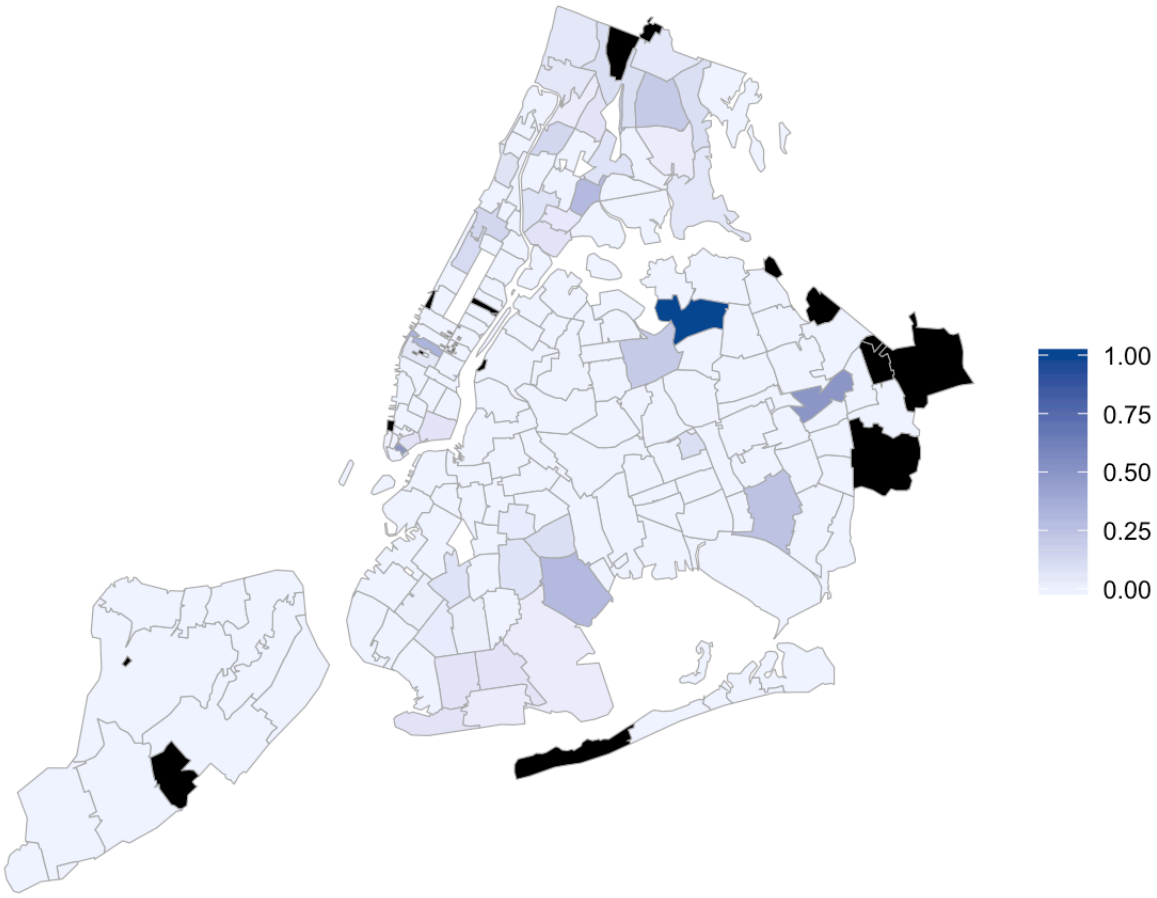

```
bl<-select(demo,region,"PERCENT BLACK NON HISPANIC")
names(bl)[2]<-"value"
bl$region <- as.character(bl$region)
nyc_fips = c(36005, 36047, 36061, 36081, 36085)
zip_choropleth(bl,num_colors= 1,county_zoom=nyc_fips)
```




```
wh<-select(demo,region,"PERCENT WHITE NON HISPANIC")
names(wh)[2]<-"value"
wh$region <- as.character(wh$region)
nyc_fips = c(36005, 36047, 36061, 36081, 36085)
zip_choropleth(wh,num_colors= 1,county_zoom=nyc_fips)
```



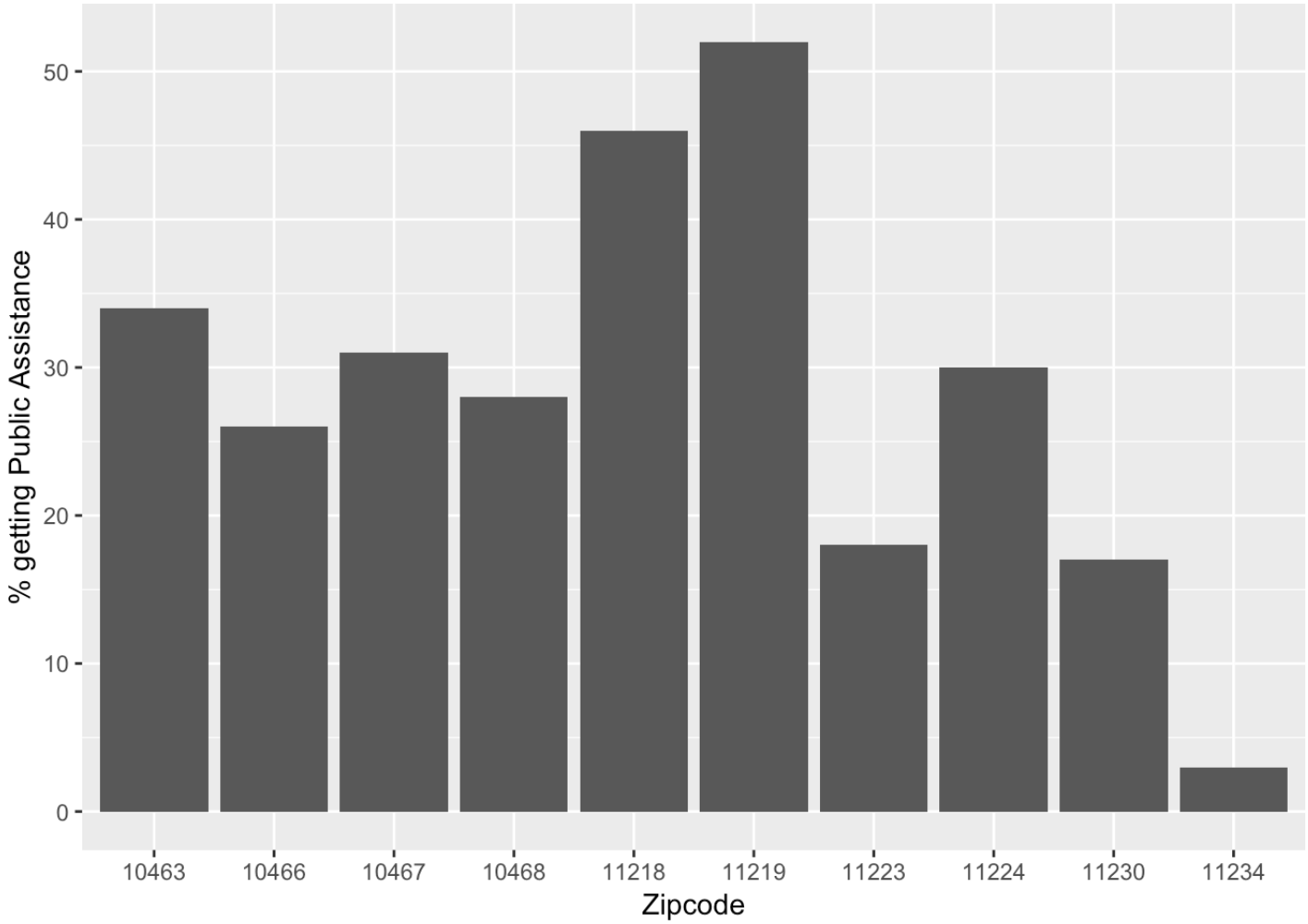

```
alien<-select(demo,region,"PERCENT PERMANENT RESIDENT ALIEN")
names(alien)[2]<-"value"
alien$region <- as.character(alien$region)
nyc_fips = c(36005, 36047, 36061, 36081, 36085)
zip_choropleth(alien,num_colors= 1,county_zoom=nyc_fips)
```



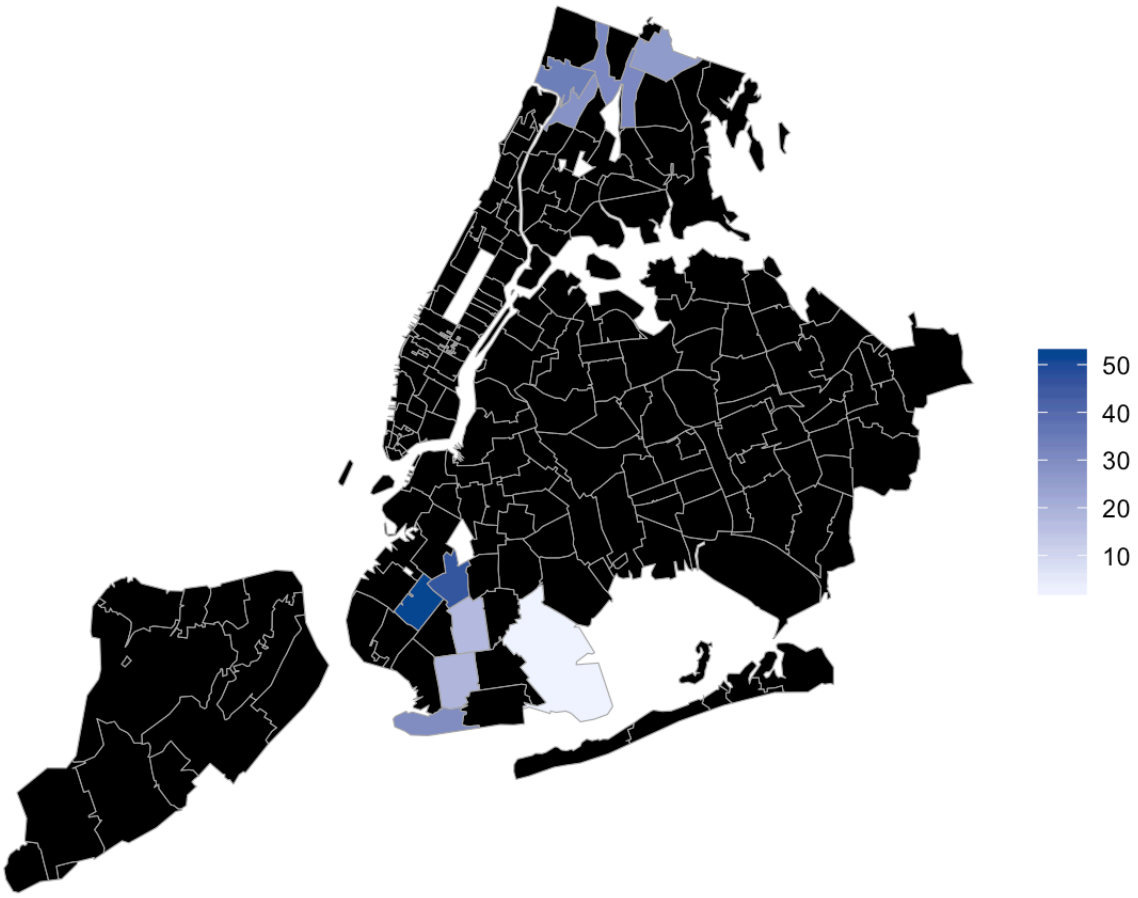

```
decr<-demo%>%select(region,'COUNT PARTICIPANTS')
names(decr)[2]<-"count"
decr<-decr%>%arrange(desc(count))
decr[1:10,]
```

```
## # A tibble: 10 x 2
##    region count
##     <int> <int>
##  1  12789   272
##  2  12734   252
##  3  11230   248
##  4  12779   242
##  5  11219   214
##  6  12783   201
##  7  12754   134
##  8  12428   124
##  9  11218   111
## 10  11223   109
```

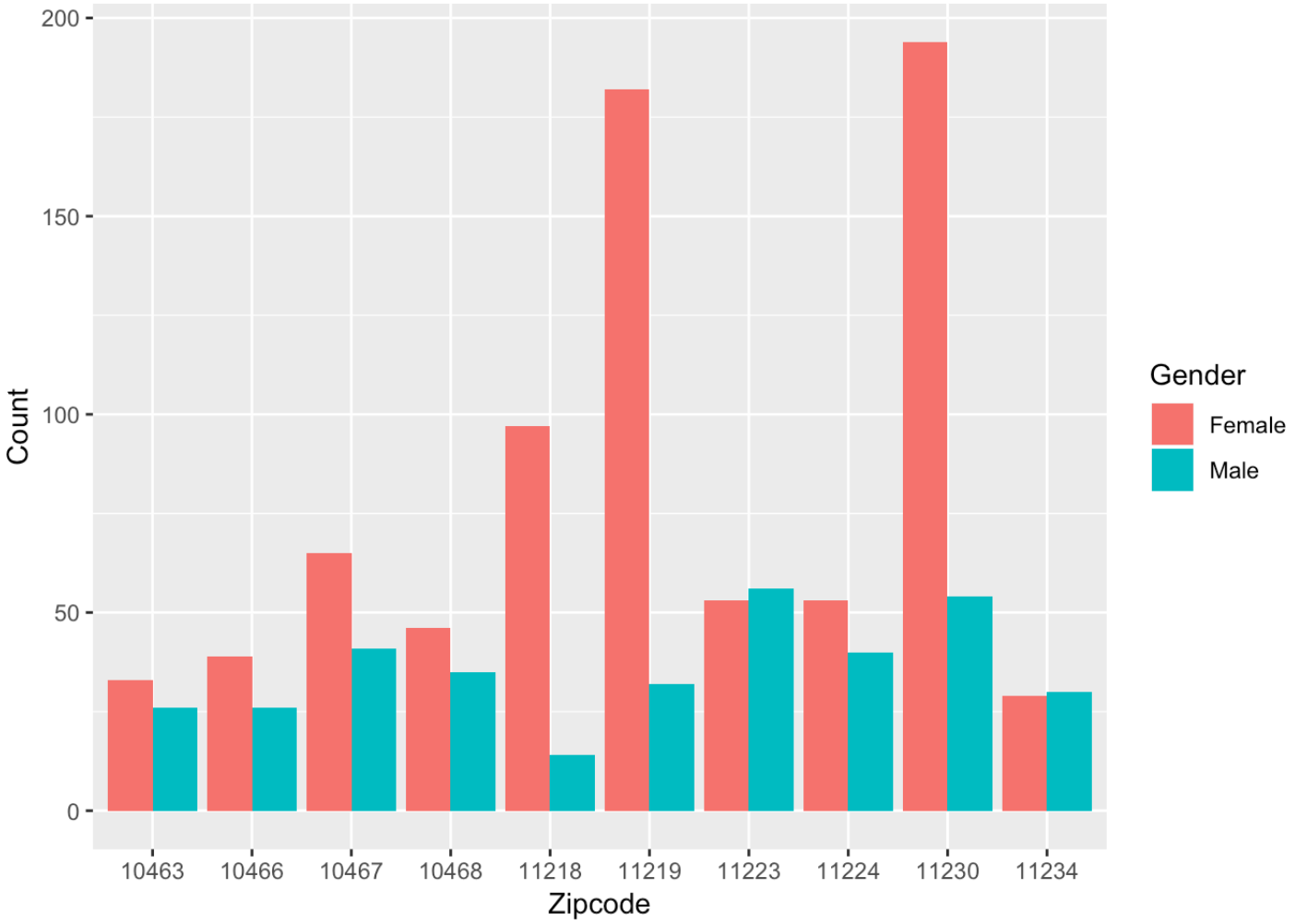
```
insights<-demo%>%filter(region==10467|region==11224|region==11230|region==10468|regio
n==11219|region==10466|region==10463|region==11234|region==11218|region==11223)


b<-insights%>%select(region,'PERCENT RECEIVES PUBLIC ASSISTANCE')%>%mutate(per=(insig
hts$'PERCENT RECEIVES PUBLIC ASSISTANCE')*100)
p<-ggplot(data=b, aes(x=as.character(region), y=per)) +geom_bar(stat="identity")
p+xlab("Zipcode")+ylab("% getting Public Assistance")
```



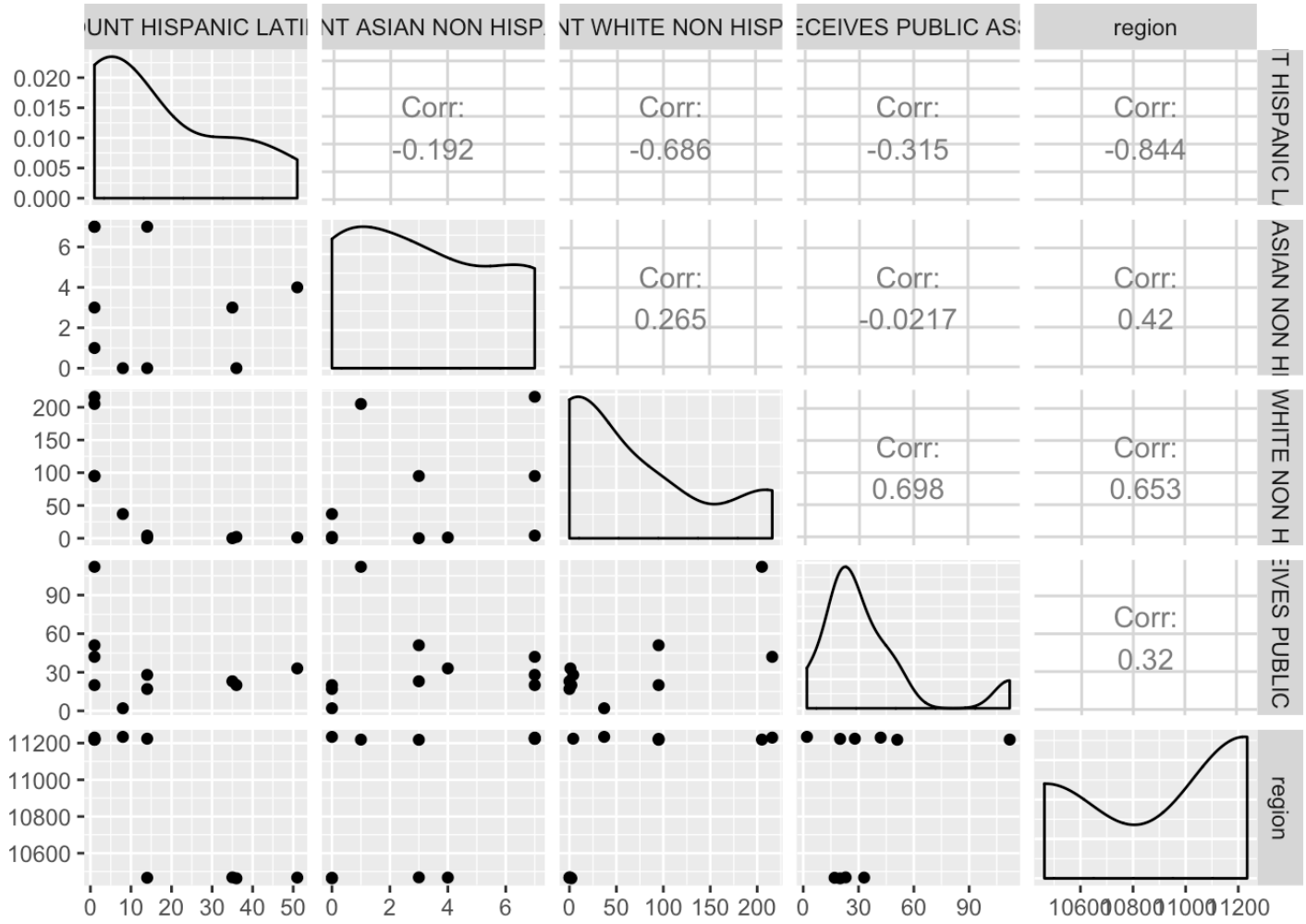

```
b$'PERCENT RECEIVES PUBLIC ASSISTANCE'<-NULL
names(b)[2]<-"value"
b$region <- as.character(b$region)
nyc_fips = c(36005, 36047, 36061, 36081, 36085)
zip_choropleth(b,num_colors= 1,county_zoom=nyc_fips)
```




```
scatter<-insights%>%select(region,'COUNT FEMALE','COUNT MALE','COUNT RECEIVES PUBLIC
ASSISTANCE')
names(scatter)[2]<-"Female"
names(scatter)[3]<-"Male"

newsc<-scatter%>%gather(key="Gender",value="Count",'Female':'Male')

ggplot(newsc, aes(x=as.character(region), y=Count, fill =Gender)) + geom_bar(stat="id
entity",position="dodge")+xlab("Zipcode")
```




```
library(GGally)
library(extracat)
corr<-insights%>%select('COUNT HISPANIC LATINO','COUNT ASIAN NON HISPANIC','COUNT WHI
TE NON HISPANIC','COUNT RECEIVES PUBLIC ASSISTANCE',region)
ggpairs(corr,echo=FALSE)
```


UNT HISPANIC LATI
NT ASIAN NON HISP
NT WHITE NON HISP
ECEIVES PUBLIC AS
region
Corr:
-0.192
Corr:
-0.686
Corr:
-0.315
Corr:
-0.844
Corr:
0.265
Corr:
-0.0217
Corr:
0.42
Corr:
0.698
Corr:
0.653
Corr:
0.32
T HISPANIC L
ASIAN NON HI
WHITE NON H
EIVES PUBLIC
region