

```
census <- read.csv("tractdemographics.csv")
```

```
options(tigris_year = 2021)
```

```
address <- address_ranges(24, 031)
```

```
## |
```

```
water <- area_water(24, 031)
```

```
## |
```

```
roads <- primary_roads(2021)
```

```
## |
```

```
mocotract <- tracts(24, 031)
```

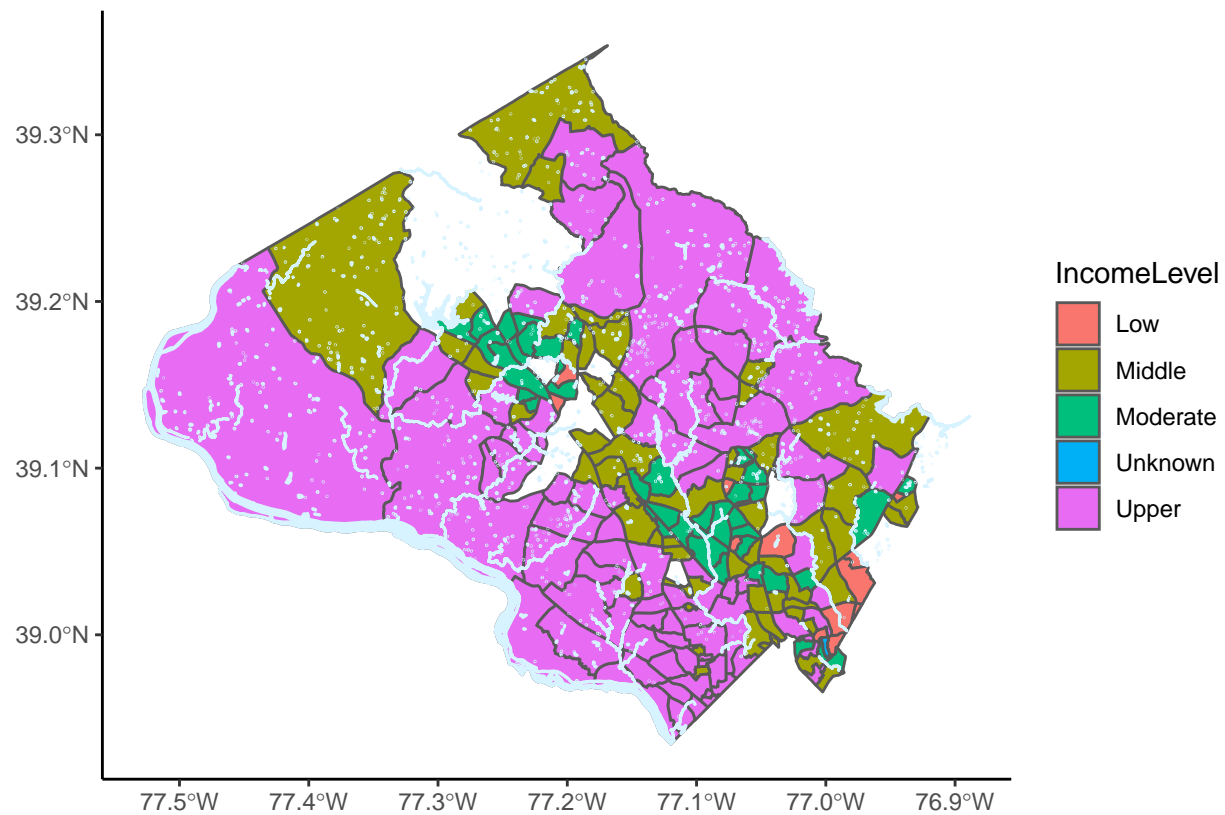
```
## Downloading: 16 kB      Downloading: 16 kB      Downloading: 16 kB      Downloading: 16 kB      Downloading: 16 kB
```

```
census <- census %>%  
  rename(NAME= i..Tract.Code, IncomeLevel= Tract.Income.Level, PercentOverTheMedian= Tract.Median.Famil
```

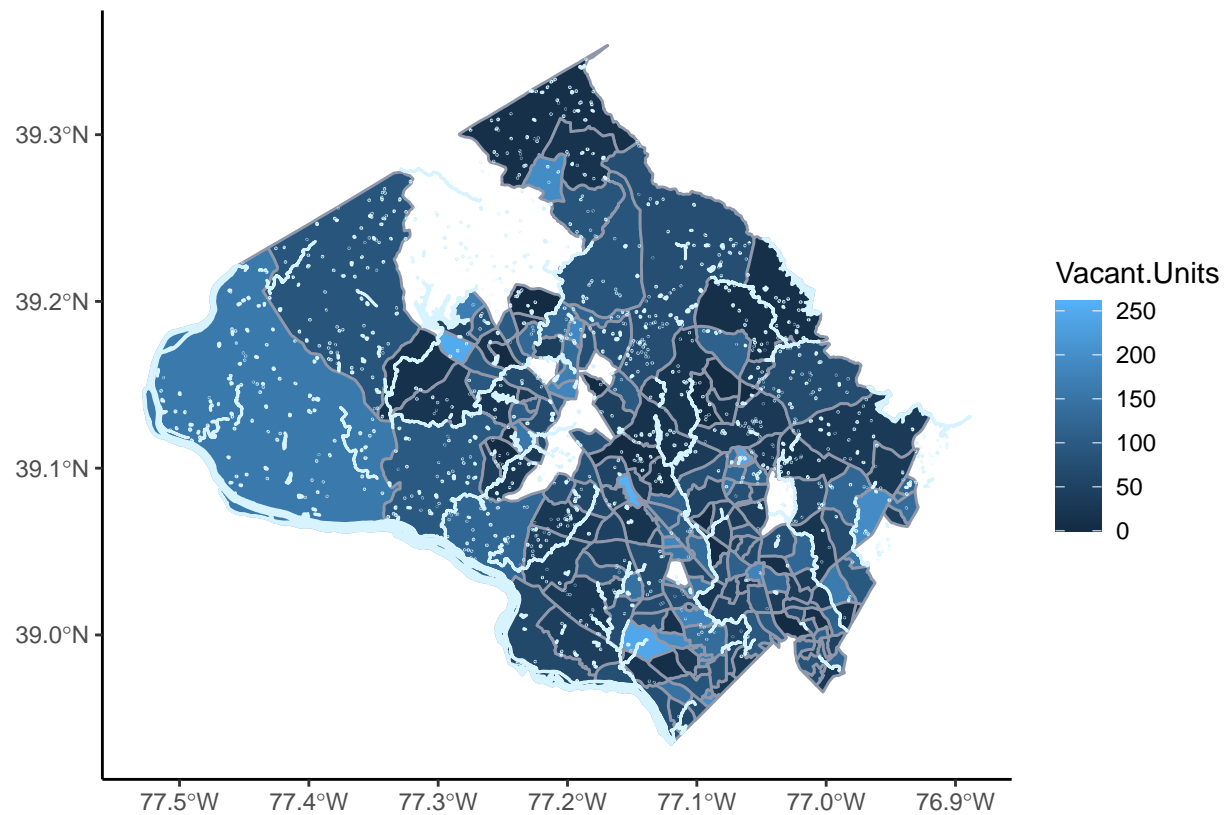
```
vector <- census %>%  
  select(NAME)  
geogvector <- mocotract %>%  
  select(NAME, geometry)  
geogvector$NAME=as.numeric(geogvector$NAME)  
vector1 <-vector$NAME  
vector2 <-geogvector$NAME  
matched<-cbind(match(vector2, vector1))  
matched2 <-cbind(match(vector1, vector2))  
geogvector <- geogvector %>%  
  cbind(matched) %>%  
  filter(matched!='na') %>%  
  select(NAME, geometry)  
  
geogvector <- geogvector[order(geogvector$NAME),]  
  
censusmix <- census %>%  
  cbind(matched2) %>%  
  filter(matched2 !='na') %>%  
  cbind(geogvector)
```

```
censusmix<-censusmix[,c(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17, 18, 19, 22)]
```

```
censusmix%>%  
  ggplot() +  
  geom_sf(aes(geometry=geometry, fill=IncomeLevel)) +  
  geom_sf(data=water, color="#D6F3FF", fill="#D6F3FF") +  
  theme_classic()
```



```
censusmix%>%
  ggplot() +
  geom_sf(aes(geometry=geometry, fill=Vacant.Units ), color = "#8f98aa") +
  geom_sf(data=water, color="#D6F3FF", fill="#D6F3FF") +
  theme_classic()
```



```
censusmix%>%
  ggplot() +
  geom_sf(aes(geometry=geometry, fill=Tract.Population ), color = "#8f98aa") +
  geom_sf(data=water, color="#D6F3FF", fill="#D6F3FF") +
  theme_classic()
```

