

# Mapas nacionales y municipales de casos y defunciones por COVID-19, precio de venta promedio, pobreza y tasas de homicidios y robo a vehículo

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## Mapas

Se crean mapas de visualización de los datos.

```
library(devtools)

## Loading required package: usethis

library(readr)
library(readxl)
library(dplyr)

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

library("mxmaps")
```

Se cargan los datos contruidos.

```
datos<-read_csv("E:/datos.csv")

## Parsed with column specification:
## cols(
##   CV_MUN = col_character(),
##   precio_mean = col_double(),
##   salario_mean = col_double(),
##   poblacion = col_double(),
##   nombre = col_character(),
##   confirmados_total = col_double(),
##   defunciones_total = col_double(),
##   ts_promedio_h = col_double(),
##   ts_promedio_r = col_double(),
```

```
## Entidad = col_character(),
## Nombre_ent = col_character(),
## pob_porc_2015 = col_character(),
## pob_per_2015 = col_character()
## )

names(datos)[1]<-"region"
df_mxmunicipio<-left_join(df_mxmunicipio, datos, by="region")
```

## Mapas Nacionales

```
df_mxmunicipio$value <- df_mxmunicipio$precio_mean
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        title = "Precio de Venta Promedio",
                        legend = "Precio")

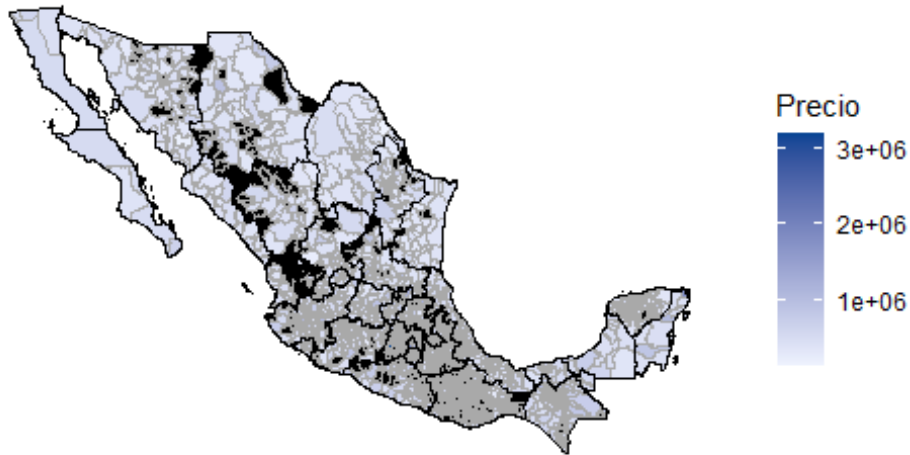
## Warning in self$bind(): The following regions were missing and are
## being set to
## NA: 07005, 07006, 07007, 07010, 07011, 07014, 07022, 07023, 07024,
## 07026, 07029,
## 07030, 07033, 07036, 07038, 07039, 07041, 07042, 07049, 07053, 07056,
## 07060,
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## 07098,
## 07100, 07110, 07111, 07112, 07113, 07115, 07116, 07117, 07118, 07119,
## 08008,
## 08015, 08018, 08020, 08022, 08023, 08029, 08033, 08035, 08041, 08042,
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## 32031, 32041, 32043, 32046, 32047, 32058

## Precio de Venta Promedio



```
df_mxmunicipio$pob_por_2015<-as.numeric(df_mxmunicipio$pob_por_2015)
## Warning: NAs introducidos por coerción
df_mxmunicipio$pob_per_2015<-as.numeric(df_mxmunicipio$pob_per_2015)
## Warning: NAs introducidos por coerción
df_mxmunicipio$value <- df_mxmunicipio$pob_per_2015
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
  title = "Pobreza",
  legend = "Personas")

## Warning in self$bind(): The following regions were missing and are
being set to
## NA: 07005, 07006, 07007, 07010, 07011, 07014, 07022, 07023, 07024,
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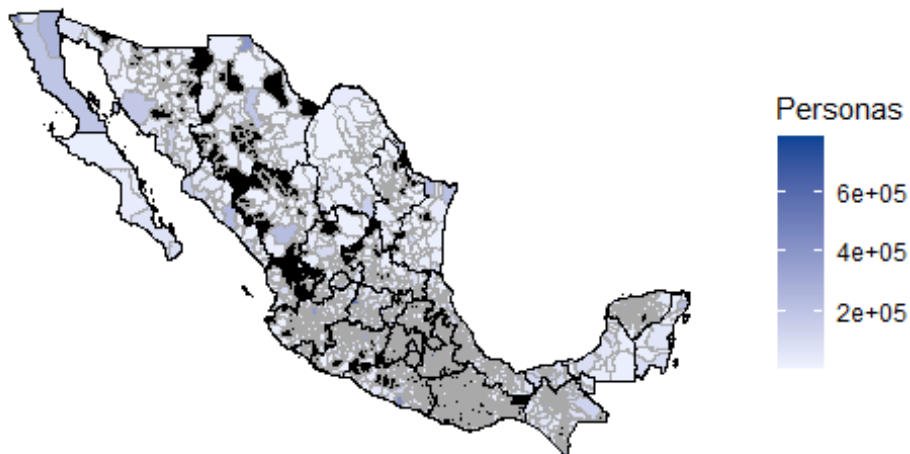
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## 32047, 32058

```

## Pobreza



```

df_mxmunicipio$value <- df_mxmunicipio$confirmados_total
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
  title = "Casos confirmados con COVID_19",
  legend = "Casos")

## Warning in self$bind(): The following regions were missing and are
being set to
## NA: 07005, 07006, 07007, 07010, 07011, 07014, 07022, 07023, 07024,
07026, 07029,
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07098,
## 07100, 07110, 07111, 07112, 07113, 07115, 07116, 07117, 07118, 07119,
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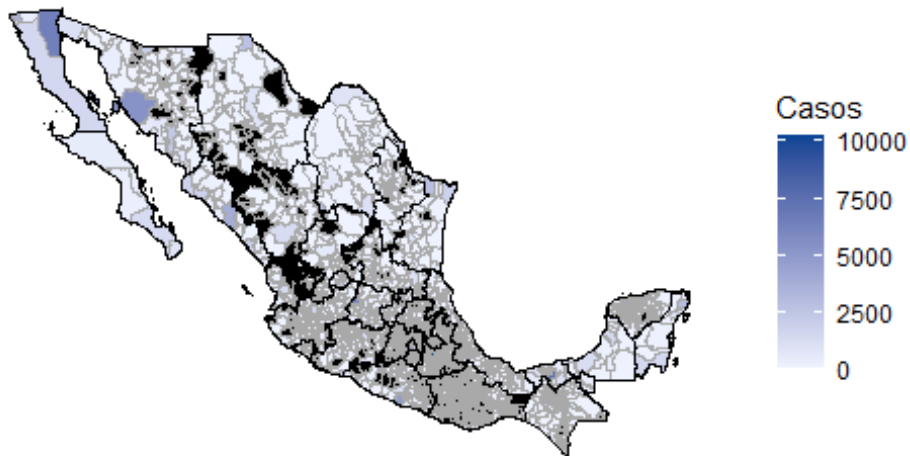
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## Casos confirmados con COVID\_19



```

df_mxmunicipio$value <- df_mxmunicipio$defunciones_total
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        title = "Defunciones por COVID_19",
                        legend = "Defunciones")

## Warning in self$bind(): The following regions were missing and are
## being set to
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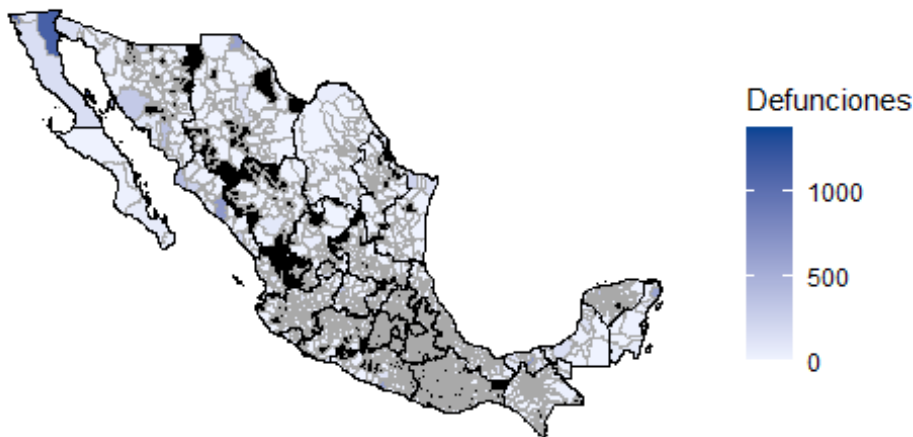
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```

## Defunciones por COVID\_19



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df_mxmunicipio$value <- df_mxmunicipio$ts_promedio_h
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
  title = "Tasa de homicidios (2015-mayo 2020)",
  legend = "Tasa x 100mil/hab")

## Warning in self$bind(): The following regions were missing and are
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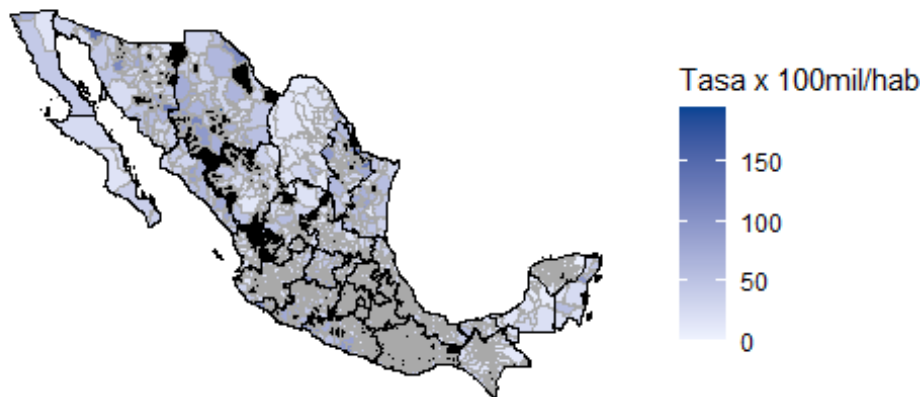
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32047,  
## 32058

## Tasa de homicidios (2015-mayo 2020)



```
df_mxmunicipio$value <- df_mxmunicipio$ts_promedio_r
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        title = "Tasa robo a vehiculo (2015-mayo 2020)",
                        legend = "Tasa x 100mil/hab")

## Warning in self$bind(): The following regions were missing and are
## being set to
## NA: 07005, 07006, 07007, 07010, 07011, 07014, 07022, 07023, 07024,
## 07026, 07029,
## 07030, 07033, 07036, 07038, 07039, 07041, 07042, 07049, 07053, 07056,
## 07060,
## 07063, 07064, 07066, 07067, 07070, 07076, 07080, 07082, 07088, 07093,
## 07098,
## 07100, 07110, 07111, 07112, 07113, 07115, 07116, 07117, 07118, 07119,
## 08008,
## 08015, 08018, 08020, 08022, 08023, 08029, 08033, 08035, 08041, 08042,
## 08046,
## 08049, 08056, 08057, 08061, 08064, 08065, 08066, 10002, 10003, 10006,
## 10009,
## 10010, 10011, 10014, 10017, 10019, 10021, 10025, 10026, 10029, 10030,
## 10031,
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## 12008,
## 12009, 12010, 12016, 12017, 12018, 12019, 12020, 12024, 12025, 12027,
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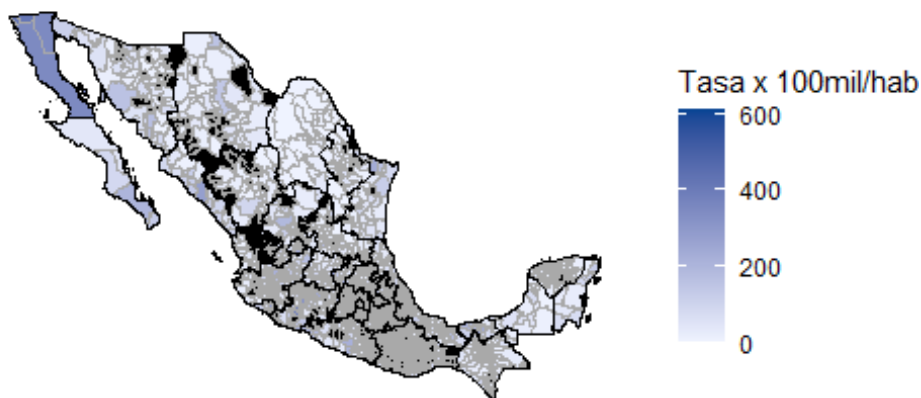


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32047,
## 32058
```

## Tasa robo a vehiculo (2015-mayo 2020)

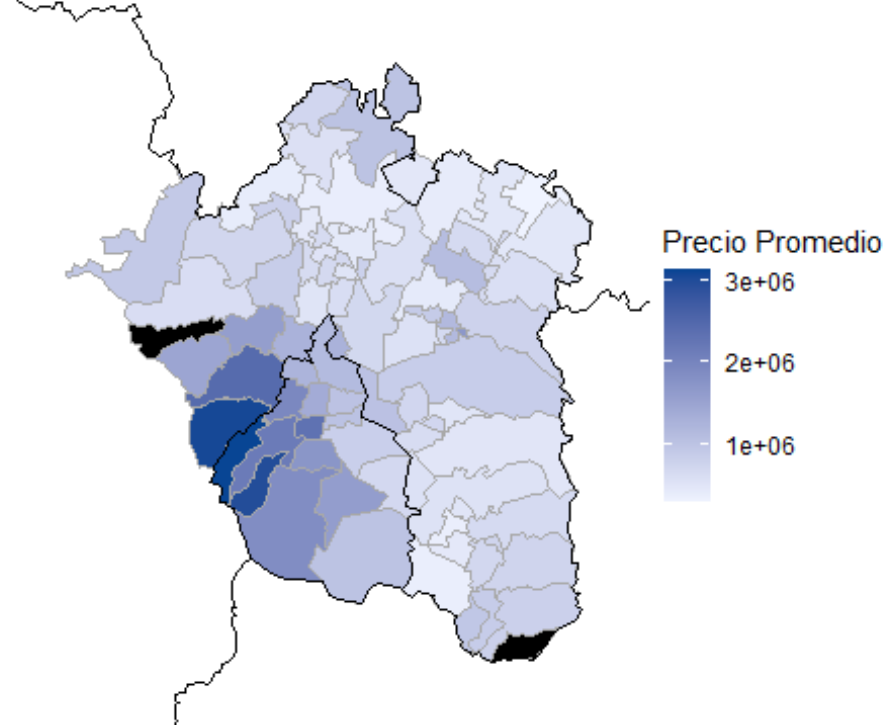


## Valle de Mexico

```
df_mxmunicipio$value <- df_mxmunicipio$precio_mean
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        zoom = subset(df_mxmunicipio, metro_area %in%
c("Valle de México"))$region,
                        title = "Precio de Venta Promedio ",
                        legend = "Precio Promedio")
```

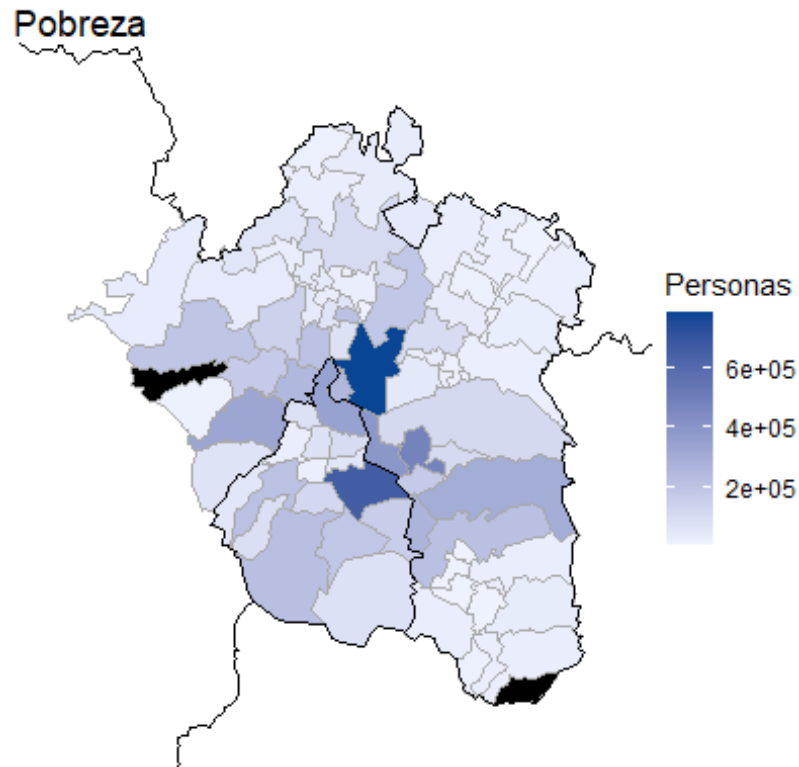
```
## Warning in self$bind(): The following regions were missing and are
being set to
## NA: 15034, 15038
```

## Precio de Venta Promedio



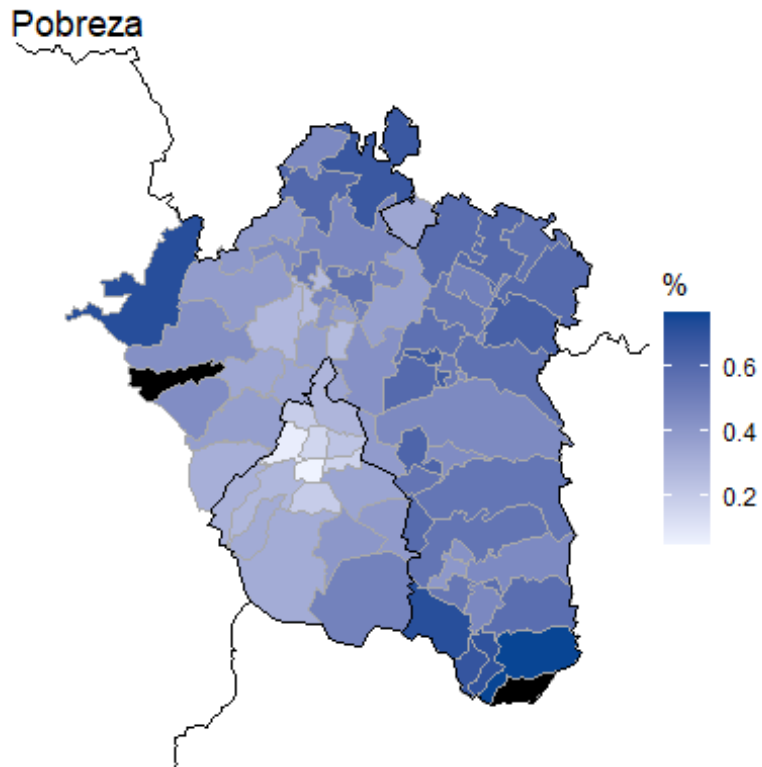
```
df_mxmunicipio$value <- df_mxmunicipio$pob_per_2015
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        zoom = subset(df_mxmunicipio, metro_area %in%
c("Valle de México"))$region,
                        title = "Pobreza",
                        legend = "Personas")
```

```
## Warning in self$bind(): The following regions were missing and are
being set to
## NA: 15034, 15038
```



```
df_mxmunicipio$value <- df_mxmunicipio$pob_por_2015
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        zoom = subset(df_mxmunicipio, metro_area %in%
c("Valle de México"))$region,
                        title = "Pobreza",
                        legend = "%")
```

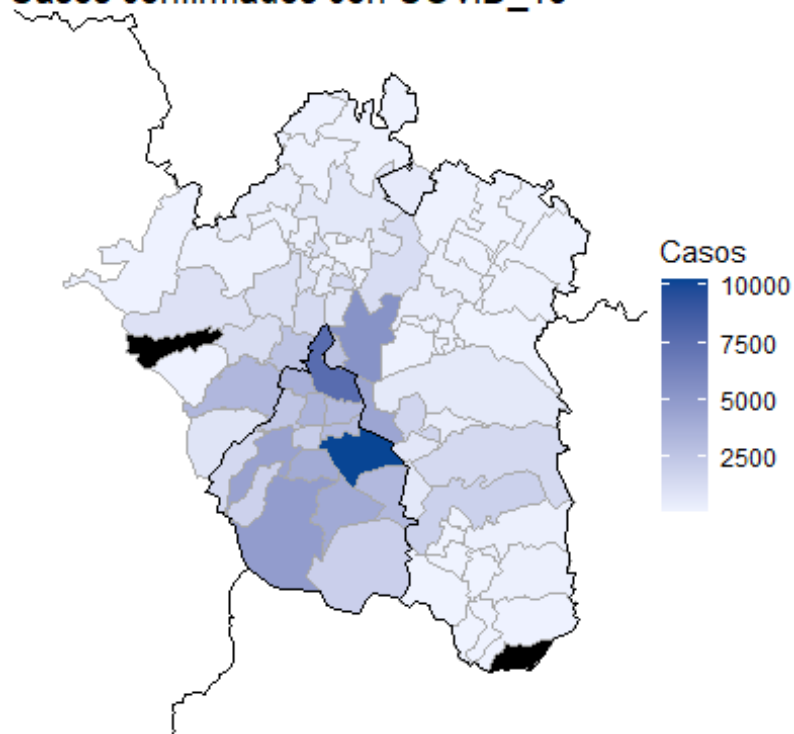
```
## Warning in self$bind(): The following regions were missing and are
being set to
## NA: 15034, 15038
```



```
df_mxmunicipio$value <- df_mxmunicipio$confirmados_total
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
  zoom = subset(df_mxmunicipio, metro_area %in%
c("Valle de México"))$region,
  title = "Casos confirmados con COVID_19",
  legend = "Casos")
```

```
## Warning in self$bind(): The following regions were missing and are
being set to
## NA: 15034, 15038
```

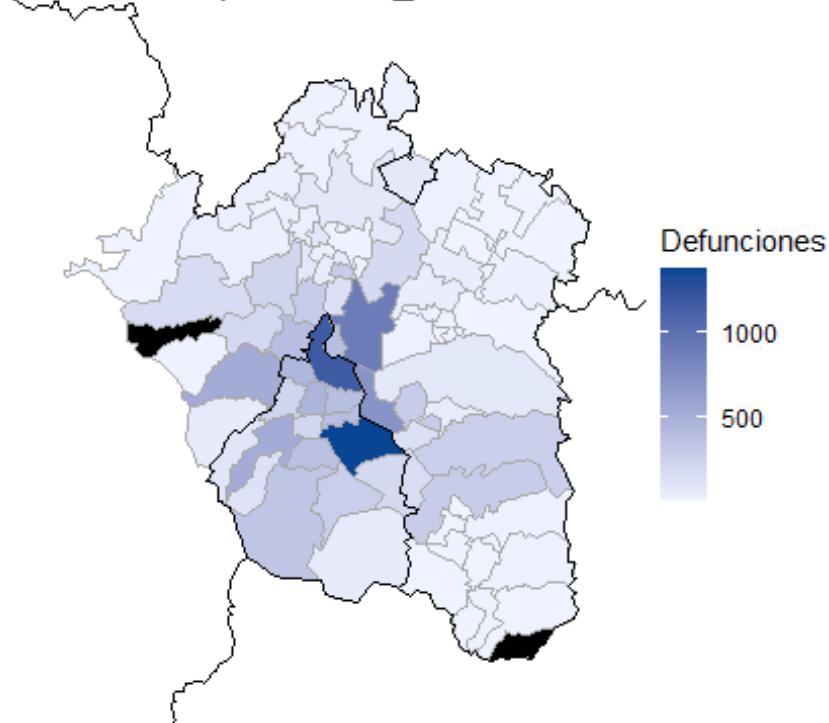
## Casos confirmados con COVID\_19



```
df_mxmunicipio$value <- df_mxmunicipio$defunciones_total  
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,  
                        zoom = subset(df_mxmunicipio, metro_area %in%  
c("Valle de México"))$region,  
                        title = "Defunciones por COVID_19",  
                        legend = "Defunciones")
```

```
## Warning in self$bind(): The following regions were missing and are  
being set to  
## NA: 15034, 15038
```

## Defunciones por COVID\_19

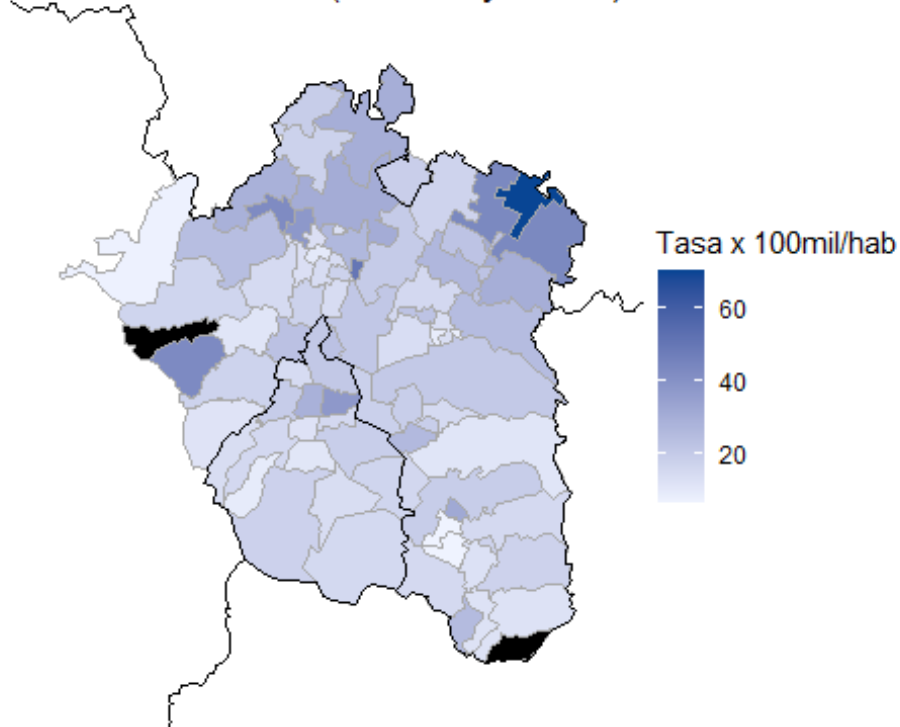


```
df_mxmunicipio$value <- df_mxmunicipio$ts_promedio_h  
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,  
                        zoom = subset(df_mxmunicipio, metro_area %in%  
c("Valle de México"))$region,  
                        title = "Tasa de homicidios (2015-mayo 2020)",  
                        legend = "Tasa x 100mil/hab")
```

```
## Warning in self$bind(): The following regions were missing and are  
being set to  
## NA: 15034, 15038
```



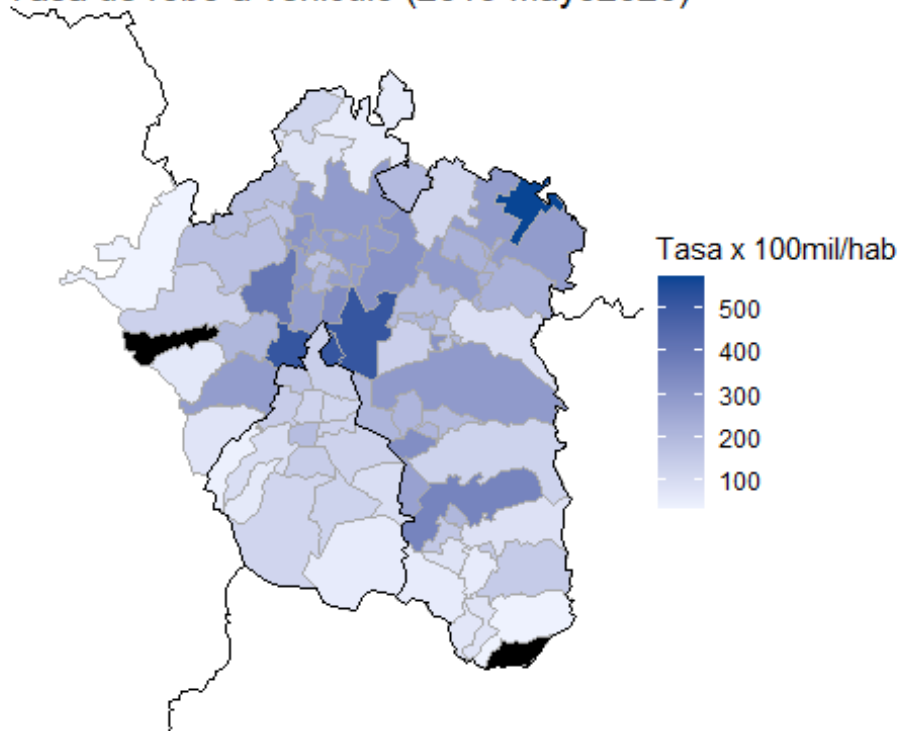
## Tasa de homicidios (2015-mayo 2020)



```
df_mxmunicipio$value <- df_mxmunicipio$ts_promedio_r  
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,  
                        zoom = subset(df_mxmunicipio, metro_area %in%  
c("Valle de México"))$region,  
                        title = "Tasa de robo a vehiculo (2015-mayo2020)",  
                        legend = "Tasa x 100mil/hab")
```

```
## Warning in self$bind(): The following regions were missing and are  
being set to  
## NA: 15034, 15038
```

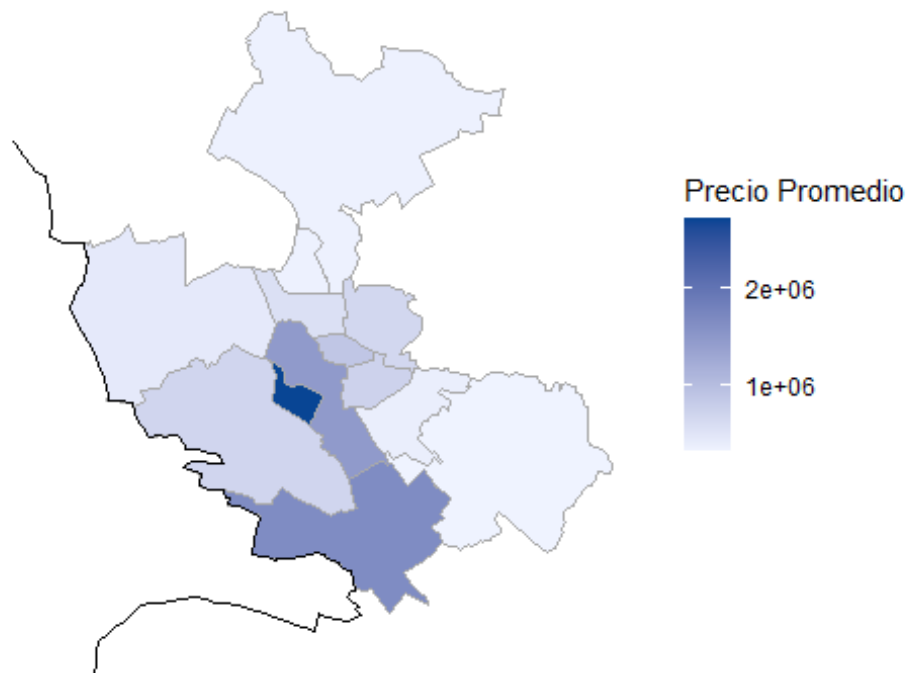
## Tasa de robo a vehiculo (2015-mayo2020)



#Monterrey

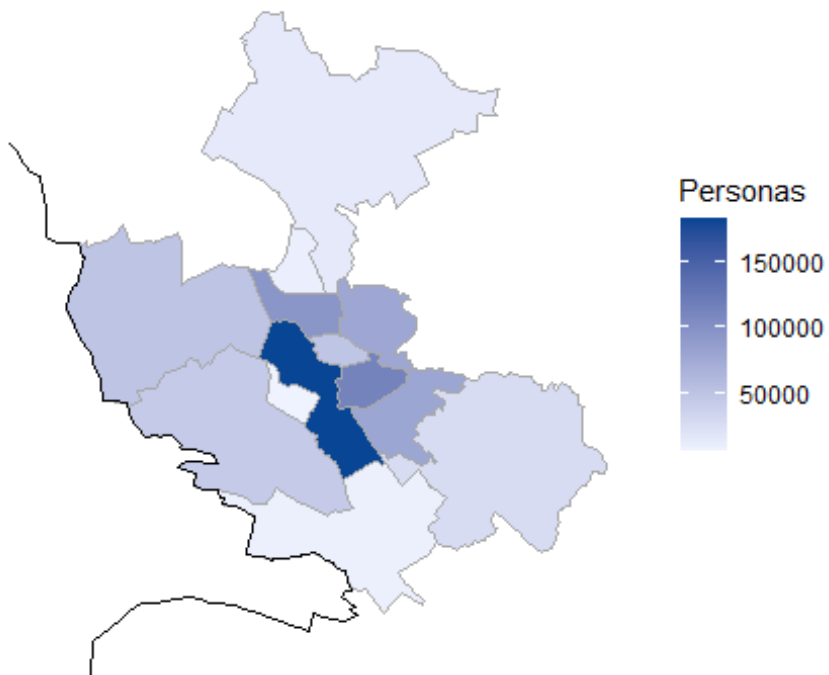
```
df_mxmunicipio$value <- df_mxmunicipio$precio_mean  
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,  
                        zoom = subset(df_mxmunicipio, metro_area %in%  
c("Monterrey"))$region,  
                        title = "Precio de Venta Promedio ",  
                        legend = "Precio Promedio")
```

## Precio de Venta Promedio



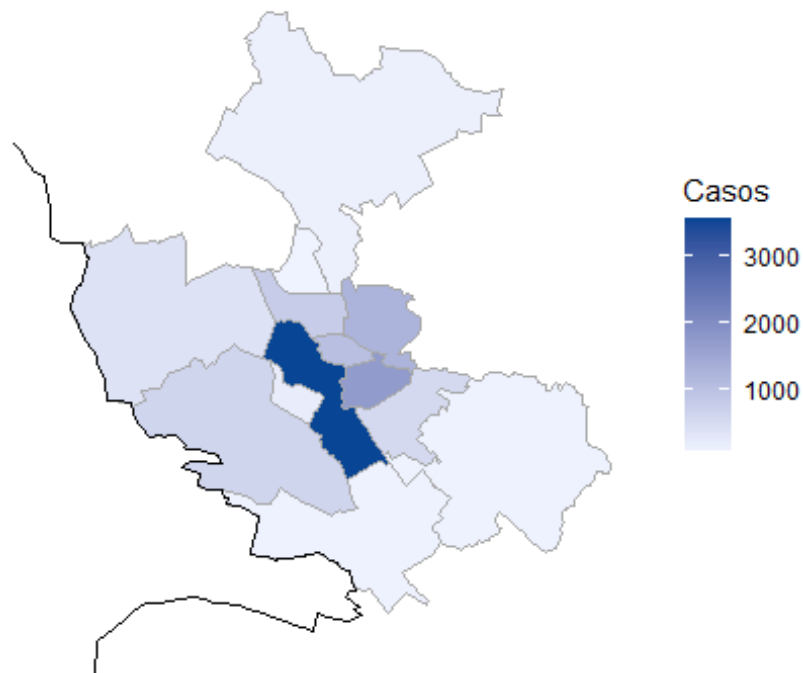
```
df_mxmunicipio$value <- df_mxmunicipio$pob_per_2015
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        zoom = subset(df_mxmunicipio, metro_area %in%
c("Monterrey"))$region,
                        title = "Pobreza",
                        legend = "Personas")
```

## Pobreza



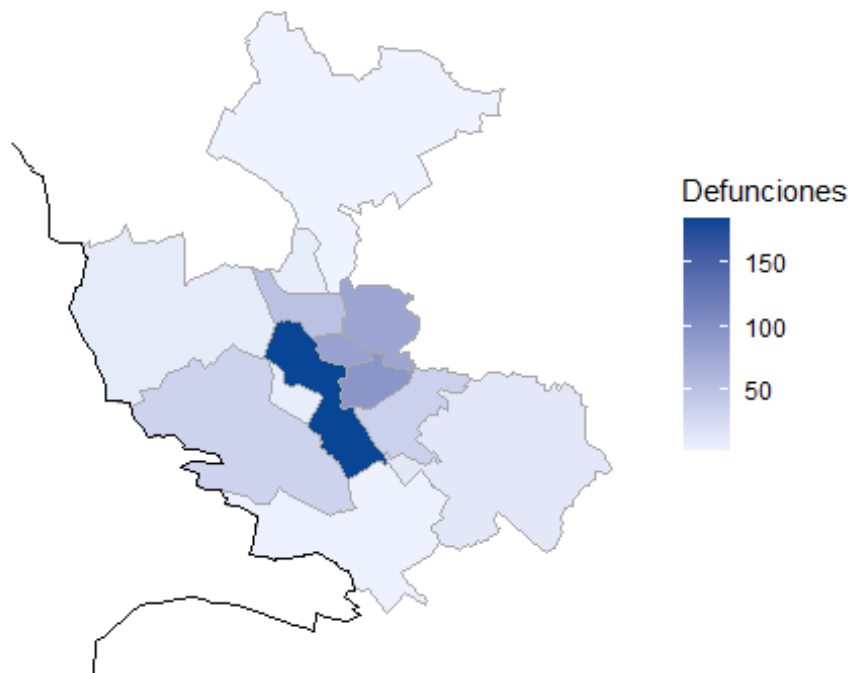
```
df_mxmunicipio$value <- df_mxmunicipio$confirmados_total
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        zoom = subset(df_mxmunicipio, metro_area %in%
c("Monterrey"))$region,
                        title = "Casos confirmados con COVID_19",
                        legend = "Casos")
```

## Casos confirmados con COVID\_19



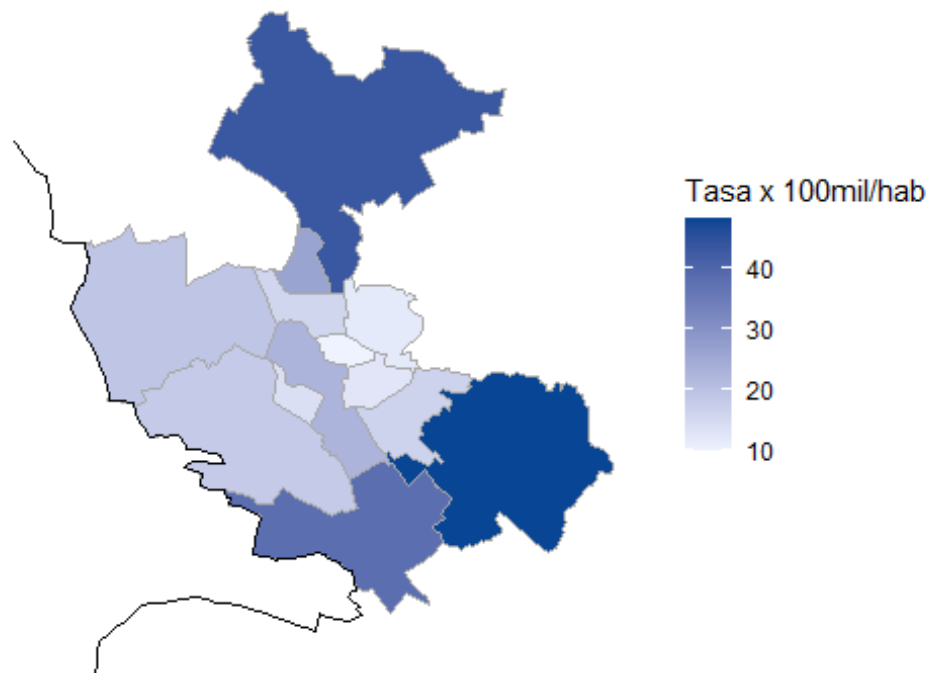
```
df_mxmunicipio$value <- df_mxmunicipio$defunciones_total  
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,  
                        zoom = subset(df_mxmunicipio, metro_area %in%  
c("Monterrey"))$region,  
                        title = "Defunciones por COVID_19",  
                        legend = "Defunciones")
```

## Defunciones por COVID\_19



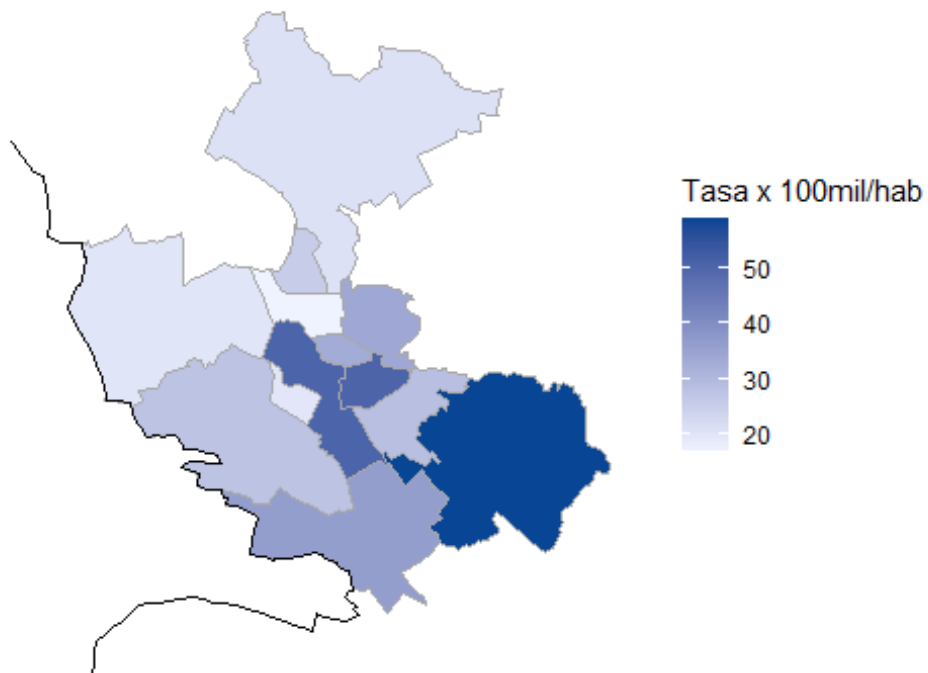
```
df_mxmunicipio$value <- df_mxmunicipio$ts_promedio_h  
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,  
                        zoom = subset(df_mxmunicipio, metro_area %in%  
c("Monterrey"))$region,  
                        title = "Tasa de homicidios (2015-mayo2020)",  
                        legend = "Tasa x 100mil/hab")
```

## Tasa de homicidios (2015-mayo2020)



```
df_mxmunicipio$value <- df_mxmunicipio$ts_promedio_r  
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,  
                        zoom = subset(df_mxmunicipio, metro_area %in%  
c("Monterrey"))$region,  
                        title = "Tasa de robo a vehiculo (2015-mayo2020)",  
                        legend = "Tasa x 100mil/hab")
```

## Tasa de robo a vehiculo (2015-mayo2020)

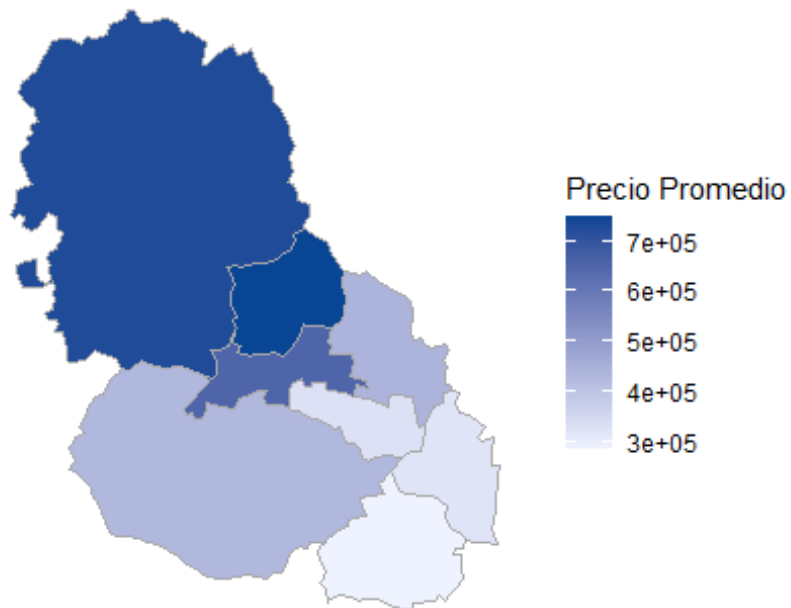


## Guadalajara

```
df_mxmunicipio$value <- df_mxmunicipio$precio_mean
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        zoom = subset(df_mxmunicipio, metro_area %in%
c("Guadalajara"))$region,
                        title = "Precio de Venta Promedio ",
                        legend = "Precio Promedio")
```

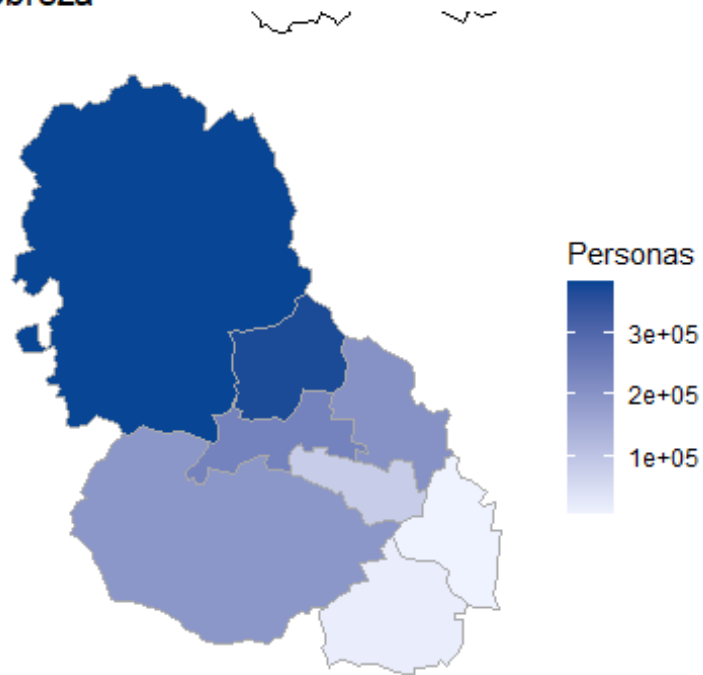


## Precio de Venta Promedio



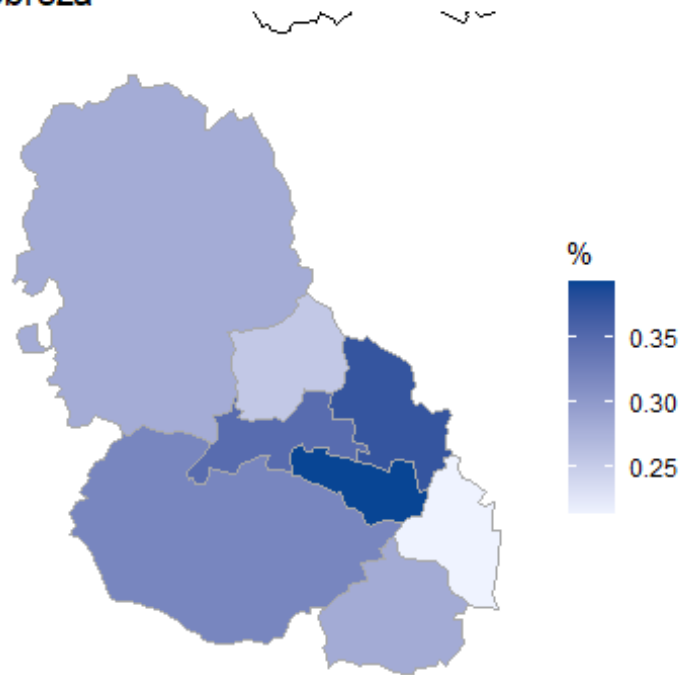
```
df_mxmunicipio$value <- df_mxmunicipio$pob_per_2015
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        zoom = subset(df_mxmunicipio, metro_area %in%
c("Guadalajara"))$region,
                        title = "Pobreza",
                        legend = "Personas")
```

## Pobreza



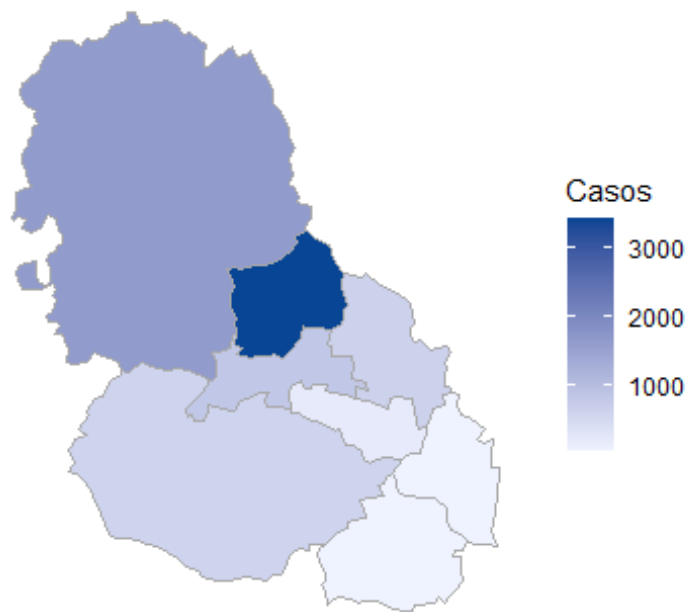
```
df_mxmunicipio$value <- df_mxmunicipio$pob_por_2015
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        zoom = subset(df_mxmunicipio, metro_area %in%
c("Guadalajara"))$region,
                        title = "Pobreza",
                        legend = "%")
```

Pobreza



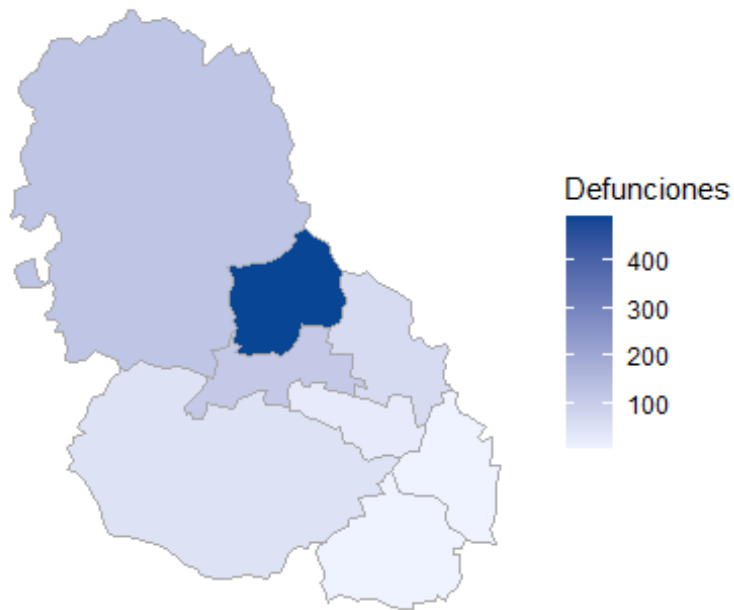
```
df_mxmunicipio$value <- df_mxmunicipio$confirmados_total  
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,  
                        zoom = subset(df_mxmunicipio, metro_area %in%  
c("Guadalajara"))$region,  
                        title = "Casos confirmados con COVID_19",  
                        legend = "Casos")
```

## Casos confirmados con COVID\_19



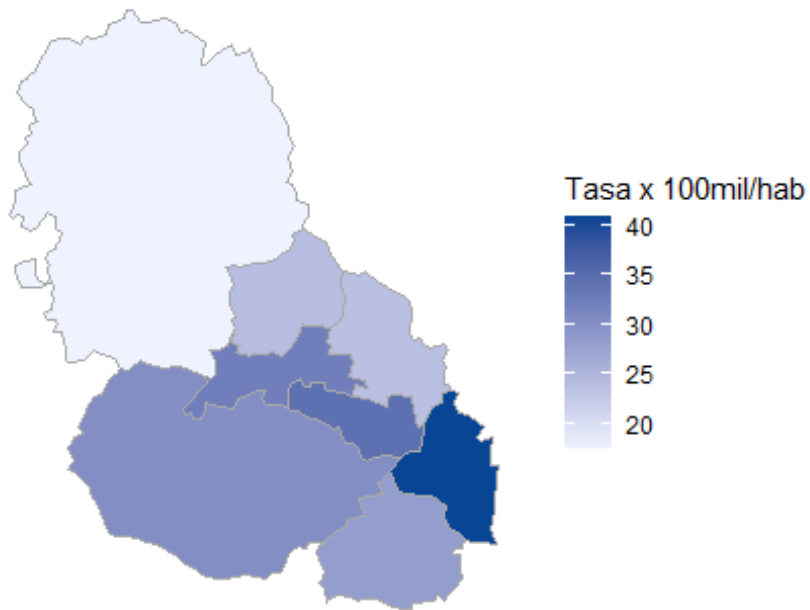
```
df_mxmunicipio$value <- df_mxmunicipio$defunciones_total  
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,  
                        zoom = subset(df_mxmunicipio, metro_area %in%  
c("Guadalajara"))$region,  
                        title = "Defunciones por COVID_19",  
                        legend = "Defunciones")
```

## Defunciones por COVID\_19



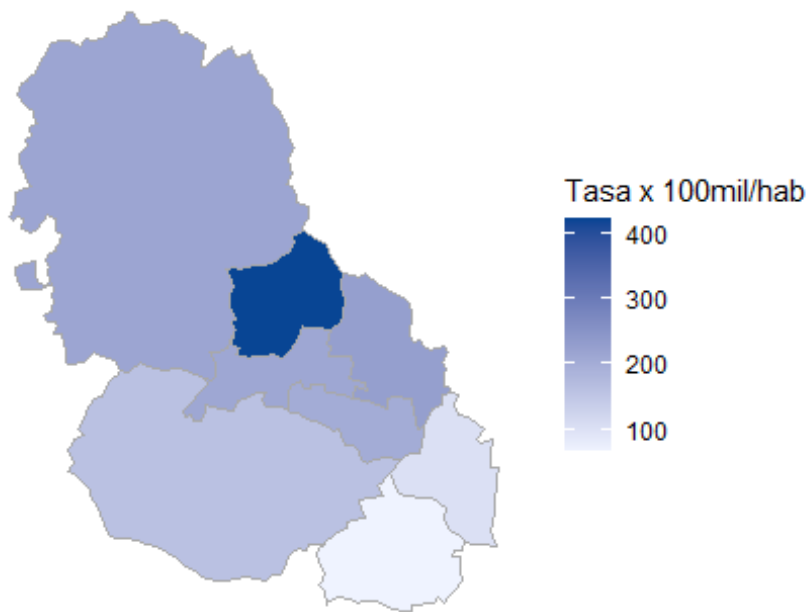
```
df_mxmunicipio$value <- df_mxmunicipio$ts_promedio_h  
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,  
                        zoom = subset(df_mxmunicipio, metro_area %in%  
c("Guadalajara"))$region,  
                        title = "Tasa de homicidios (2015-mayo2020)",  
                        legend = "Tasa x 100mil/hab")
```

## Tasa de homicidios (2015-mayo2020)



```
df_mxmunicipio$value <- df_mxmunicipio$ts_promedio_r  
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,  
                        zoom = subset(df_mxmunicipio, metro_area %in%  
c("Guadalajara"))$region,  
                        title = "Tasa de robo a vehiculo (2015-mayo2020)",  
                        legend = "Tasa x 100mil/hab")
```

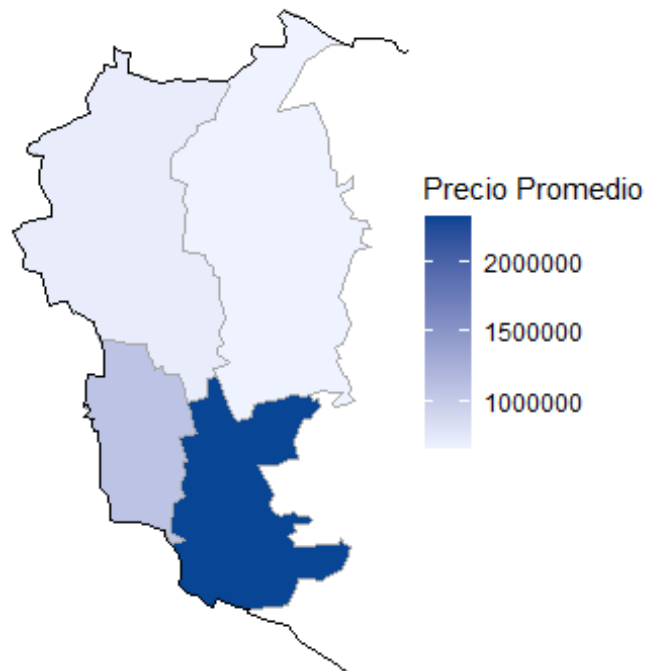
## Tasa de robo a vehiculo (2015-mayo2020)



# Querétaro

```
df_mxmunicipio$value <- df_mxmunicipio$precio_mean
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        zoom = subset(df_mxmunicipio, metro_area %in%
c("Querétaro"))$region,
                        title = "Precio de Venta Promedio ",
                        legend = "Precio Promedio")
```

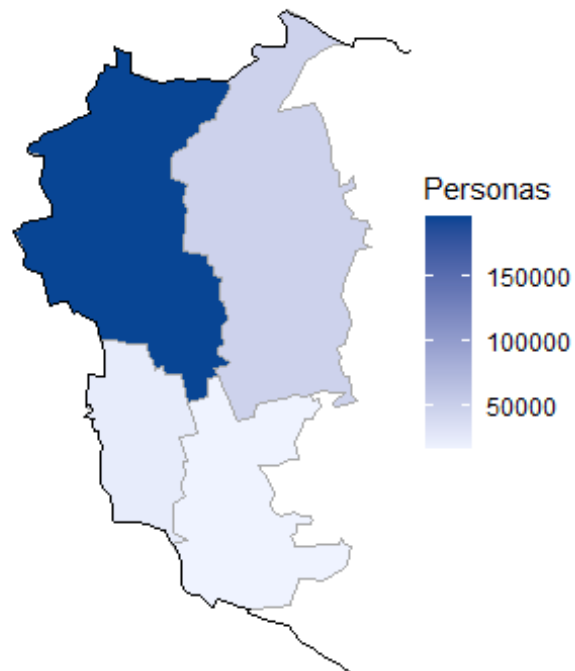
## Precio de Venta Promedio



```
df_mxmunicipio$value <- df_mxmunicipio$pob_per_2015
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        zoom = subset(df_mxmunicipio, metro_area %in%
c("Querétaro"))$region,
                        title = "Pobreza",
                        legend = "Personas")
```

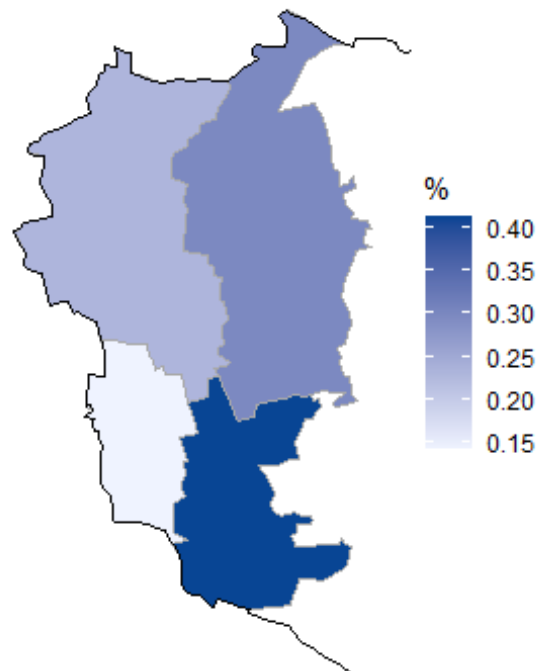


## Pobreza



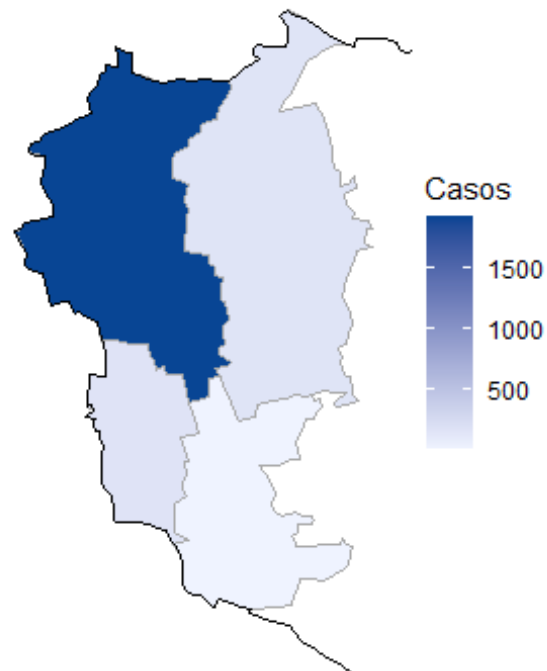
```
df_mxmunicipio$value <- df_mxmunicipio$pob_por_2015
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        zoom = subset(df_mxmunicipio, metro_area %in%
c("Querétaro"))$region,
                        title = "Pobreza",
                        legend = "%")
```

## Pobreza



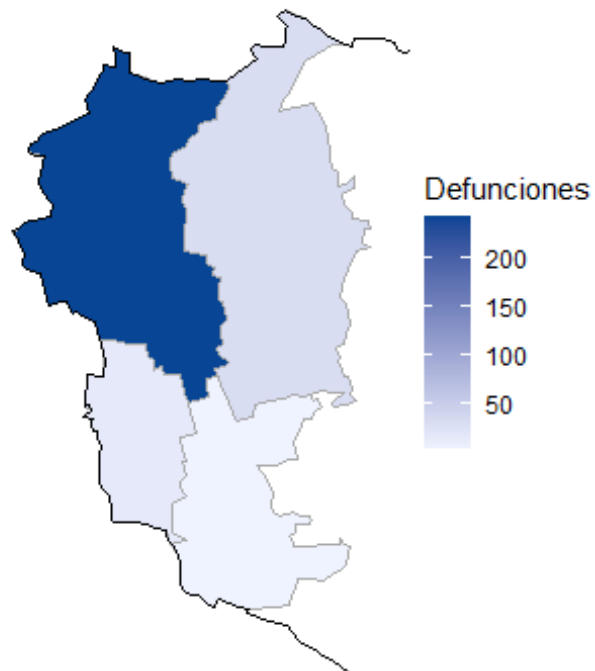
```
df_mxmunicipio$value <- df_mxmunicipio$confirmados_total
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        zoom = subset(df_mxmunicipio, metro_area %in%
c("Querétaro"))$region,
                        title = "Casos confirmados con COVID_19",
                        legend = "Casos")
```

## Casos confirmados con COVID\_19



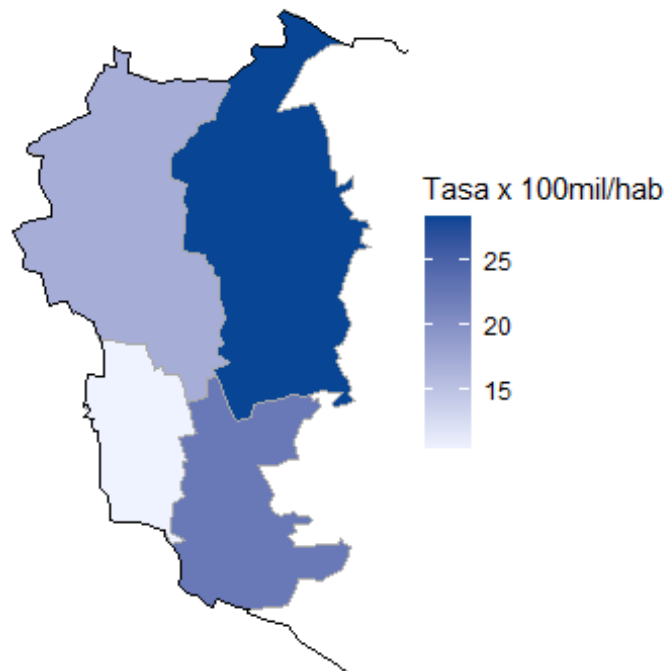
```
df_mxmunicipio$value <- df_mxmunicipio$defunciones_total
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        zoom = subset(df_mxmunicipio, metro_area %in%
c("Querétaro"))$region,
                        title = "Defunciones por COVID_19",
                        legend = "Defunciones")
```

## Defunciones por COVID\_19



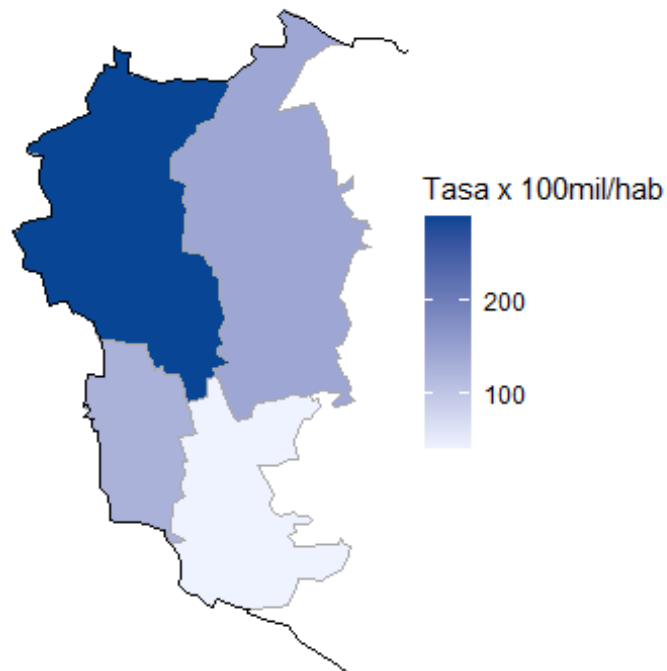
```
df_mxmunicipio$value <- df_mxmunicipio$ts_promedio_h  
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,  
                        zoom = subset(df_mxmunicipio, metro_area %in%  
c("Querétaro"))$region,  
                        title = "Tasa de homicidios (2015-mayo2020)",  
                        legend = "Tasa x 100mil/hab")
```

## Tasa de homicidios (2015-mayo2020)



```
df_mxmunicipio$value <- df_mxmunicipio$ts_promedio_r  
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,  
                        zoom = subset(df_mxmunicipio, metro_area %in%  
c("Querétaro"))$region,  
                        title = "Tasa de robo a vehiculo (2015-mayo2020)",  
                        legend = "Tasa x 100mil/hab")
```

## Tasa de robo a vehiculo (2015-mayo2020)



# Tijuana

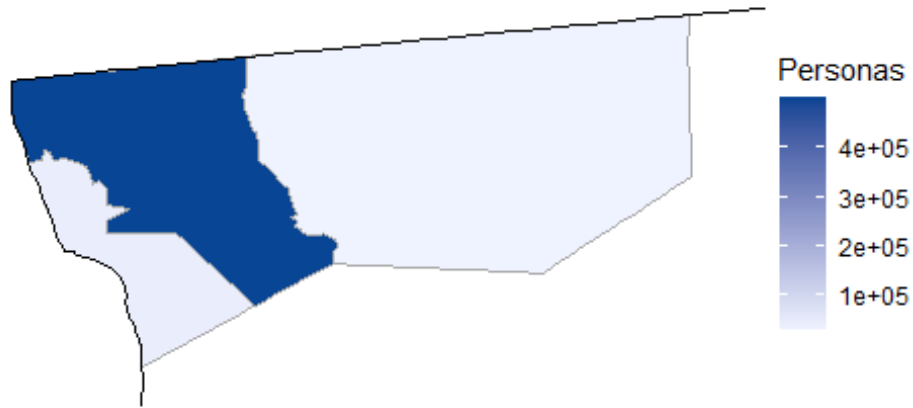
```
df_mxmunicipio$value <- df_mxmunicipio$precio_mean
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
  zoom = subset(df_mxmunicipio, metro_area %in%
c("Tijuana"))$region,
  title = "Precio de Venta Promedio ",
  legend = "Precio Promedio")
```

## Precio de Venta Promedio



```
df_mxmunicipio$value <- df_mxmunicipio$pob_per_2015
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        zoom = subset(df_mxmunicipio, metro_area %in%
c("Tijuana"))$region,
                        title = "Pobreza",
                        legend = "Personas")
```

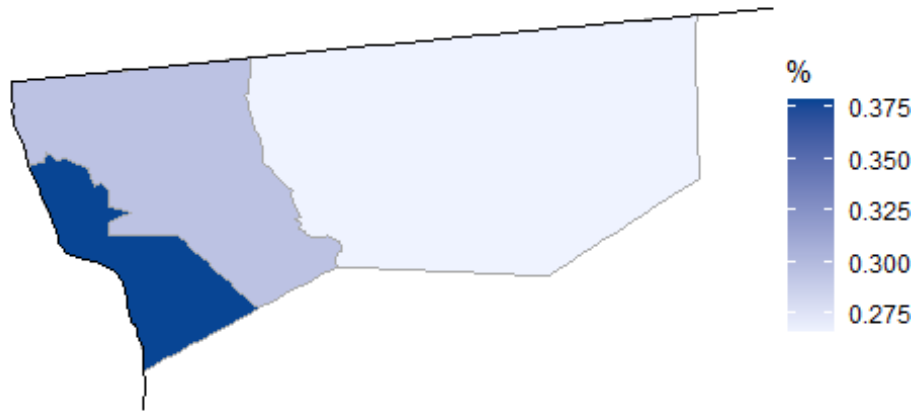
## Pobreza



```
df_mxmunicipio$value <- df_mxmunicipio$pob_por_2015
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
                        zoom = subset(df_mxmunicipio, metro_area %in%
c("Tijuana"))$region,
                        title = "Pobreza",
                        legend = "%")
```

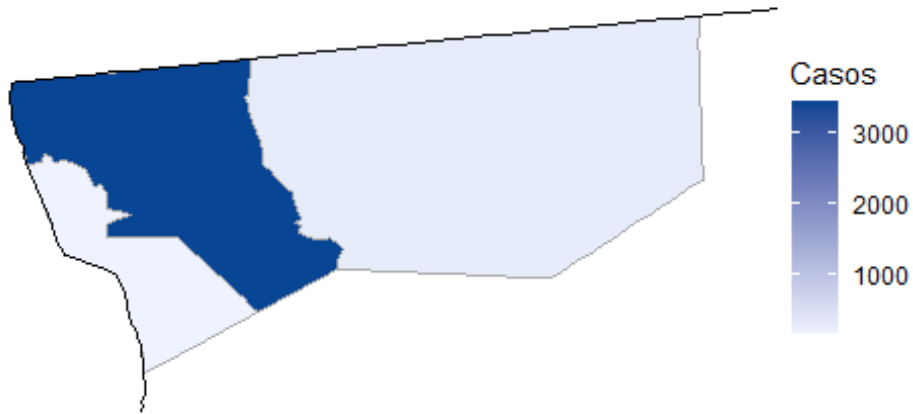


## Pobreza



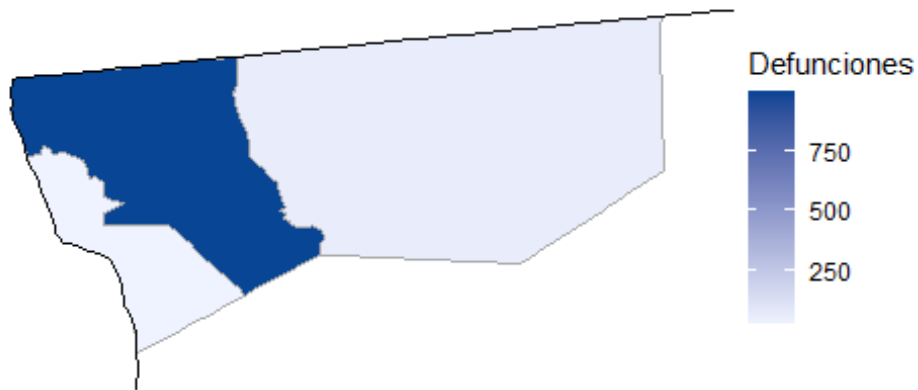
```
df_mxmunicipio$value <- df_mxmunicipio$confirmados_total  
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,  
                        zoom = subset(df_mxmunicipio, metro_area %in%  
c("Tijuana"))$region,  
                        title = "Casos confirmados con COVID_19",  
                        legend = "Casos")
```

## Casos confirmados con COVID\_19



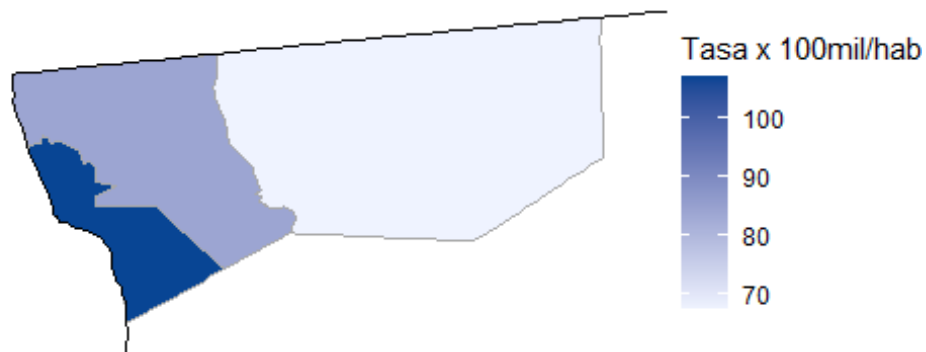
```
df_mxmunicipio$value <- df_mxmunicipio$defunciones_total
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,
  zoom = subset(df_mxmunicipio, metro_area %in%
c("Tijuana"))$region,
  title = "Defunciones por COVID_19",
  legend = "Defunciones")
```

## Defunciones por COVID\_19



```
df_mxmunicipio$value <- df_mxmunicipio$ts_promedio_h  
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,  
                        zoom = subset(df_mxmunicipio, metro_area %in%  
c("Tijuana"))$region,  
                        title = "Tasa de homicidios por cien mil  
habitantes",  
                        legend = "Tasa x 100mil/hab")
```

## Tasa de homicidios por cien mil habitantes



```
df_mxmunicipio$value <- df_mxmunicipio$ts_promedio_r  
mxmunicipio_choropleth(df_mxmunicipio, num_colors = 1,  
                        zoom = subset(df_mxmunicipio, metro_area %in%  
c("Tijuana"))$region,  
                        title = "Tasa de robo a vehiculo (2015-mayo2020)",  
                        legend = "Tasa x 100mil/hab")
```

### Tasa de robo a vehiculo (2015-mayo2020)

