Homework 5

2023-11-29

```
library(tidyverse)
library(dplyr)
library(stringr)
library(forcats)
library(ggplot2)
library(ggthemes)
library(broom)
library(purrr)
library(tidyr)
library(scales)
library(sf)
library(tigris)
```

#Choice A

```
#Loading data and creating object
homicides <- read.csv("homicide-data.csv")</pre>
homicides <- homicides %>%
  mutate(city_name = str_c(city, state, sep = ", ")) %>%
  select(city_name, everything()) %>%
  filter( city_name == "Baltimore, MD")
city_boundaries <- tigris::block_groups(state = "MD",county = "Baltimore</pre>
city")
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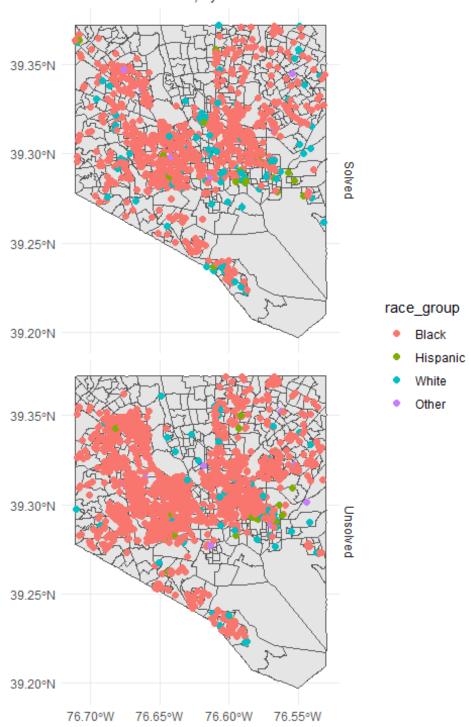
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homicides_sf <- st_as_sf(homicides, coords = c("lon", "lat"), crs = 4326)</pre>
# Create a simplified dataframe for plotting
plot_data <- homicides_sf %>%
  mutate(
   race_group = fct_lump(victim_race, n = 3),
    solved unsolved = ifelse(disposition %in% c("Closed without arrest",
"Open/No arrest"), "Unsolved", "Solved")
# Create the plot
ggplot() +
  geom_sf(data = city_boundaries) +
  geom sf(data = plot data, aes(color = race group), size = 2) +
 facet_grid(solved_unsolved ~ .) +
  labs(title = "Homicides in Your City", subtitle = "Solved vs. Unsolved, by
Race") +
theme_minimal()
```

Homicides in Your City

Solved vs. Unsolved, by Race



R Markdown

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