## Homework5\_KSalmons

## Kaytlyn Salmons

2022-11-30

```
knitr::opts_chunk$set(echo = TRUE)
library(tigris)
## To enable caching of data, set 'options(tigris_use_cache = TRUE)'
## in your R script or .Rprofile.
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(sf)
## Linking to GEOS 3.9.1, GDAL 3.4.3, PROJ 7.2.1; sf_use_s2() is TRUE
library(ggplot2)
library(stats)
library(ggthemes)
library(forcats)
library(scales)
library(tidyverse)
## -- Attaching packages ----- tidyverse 1.3.2 --
## v tibble 3.1.8 v purrr 0.3.5
## v tidyr
          1.2.1
                    v stringr 1.4.1
## v readr
           2.1.3
## -- Conflicts ----- tidyverse_conflicts() --
## x readr::col_factor() masks scales::col_factor()
## x purrr::discard() masks scales::discard()
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
```

```
homicides$disp_unsolved = (homicides$disposition !="Closed by arrest")
head(homicides)
##
            uid reported_date victim_last victim_first victim_race victim_age
                     20100504
                                    GARCIA
## 1 Alb-00001
                                                   JUAN
                                                            Hispanic
                                                                             78
## 2 Alb-000002
                     20100216
                                   MONTOYA
                                                CAMERON
                                                            Hispanic
                                                                             17
## 3 Alb-000003
                     20100601 SATTERFIELD
                                                VIVIANA
                                                                             15
                                                               White
## 4 Alb-00004
                                  MENDIOLA
                                                 CARLOS
                                                                             32
                     20100101
                                                            Hispanic
## 5 Alb-000005
                                                              White
                                                                             72
                     20100102
                                      MULA
                                                 VIVIAN
## 6 Alb-00006
                     20100126
                                      BOOK
                                              GERALDINE
                                                               White
                                                                             91
##
     victim sex
                       city state
                                        lat
                                                  lon
                                                                 disposition
## 1
                                NM 35.09579 - 106.5386 Closed without arrest
           Male Albuquerque
## 2
           Male Albuquerque
                                NM 35.05681 -106.7153
                                                            Closed by arrest
## 3
        Female Albuquerque
                                NM 35.08609 -106.6956 Closed without arrest
           Male Albuquerque
                                NM 35.07849 -106.5561
## 4
                                                           Closed by arrest
## 5
         Female Albuquerque
                               NM 35.13036 -106.5810 Closed without arrest
         Female Albuquerque
                                NM 35.15111 -106.5378
                                                              Open/No arrest
## 6
##
     disp_unsolved
## 1
              TRUE
## 2
             FALSE
## 3
              TRUE
## 4
             FALSE
## 5
              TRUE
## 6
              TRUE
Philly_killy <-
  filter(homicides, city=="Philadelphia")
Phil_map <- tracts("PA", "Philadelphia")</pre>
## Retrieving data for the year 2020
##
philly <- ggplot() +</pre>
  geom_sf(data = Phil_map) +
  geom_point(data = Philly_killy, size=0.4, aes(x=lon, y=lat, col= fct_lump(victim_race, n=3))) +
  labs(x = "Longitude", y = "Latitude", title= "Homicides in Philadelphia", col = "Victim Race")+
theme_few()
philly_labels <- as_labeller(c('FALSE' = "Solved",</pre>
  'TRUE' = "Unsolved"))
philly + facet_wrap(~disp_unsolved, ncol = 1, labeller = philly_labels)
```

## Warning: Removed 1 rows containing missing values (geom\_point).

## Homicides in Philadelphia

