## Homework 5

Erin Walls 11/11/2019

```
list.files("../data/")
## [1] "homicide-data.csv"
library(tidyverse)
## -- Attaching packages ------ tidyverse 1.2.1 --
## v ggplot2 3.1.1
                    v purrr
                                0.3.2
## v tibble 2.1.3 v dplyr 0.8.3
## v tidyr 1.0.0 v stringr 1.4.0
## v readr 1.3.1 v forcats 0.4.0
## -- Conflicts -----
                                                  ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                    masks stats::lag()
library(readr)
homicides <- read_csv("../data/homicide-data.csv")
## Parsed with column specification:
## cols(
    uid = col_character(),
##
    reported_date = col_double(),
##
    victim_last = col_character(),
##
    victim_first = col_character(),
##
    victim_race = col_character(),
##
    victim_age = col_character(),
##
    victim_sex = col_character(),
    city = col character(),
##
##
    state = col_character(),
##
    lat = col_double(),
##
    lon = col_double(),
##
    disposition = col_character()
## )
library(magrittr)
##
## Attaching package: 'magrittr'
## The following object is masked from 'package:purrr':
##
##
       set_names
```

```
## The following object is masked from 'package:tidyr':
##
##
       extract
baltimore <- homicides %>%
  filter(city == "Baltimore")
library(lubridate)
##
## Attaching package: 'lubridate'
## The following object is masked from 'package:base':
##
       date
baltimore 1 <- baltimore %>%
 mutate(reported_date = ymd(reported_date))
baltimore_2 <- baltimore_1 %>%
  group_by(date = floor_date(reported_date, "month"))
baltimore_3 <- baltimore_2 %>%
 count(date)
freddie <- baltimore_2 %>%
 filter(victim_last == "GREY")
baltimore_4 <- baltimore_1 %>%
  group by(date = floor date(reported date, "month")) %>%
  mutate(month = month(date))
baltimore_4$month <- factor(baltimore_4$month)</pre>
baltimore_5 <- baltimore_4 %>%
  mutate(month = fct_collapse(month,
                            summer = c("5", "6", "7", "8", "9", "10"),
                            winter = c("1", "2", "3", "4", "11", "12"))) %>%
  count(date)
baltimore_6 <- baltimore_4 %>%
  select(date, month) %>%
  full_join(baltimore_5, by = "date") %>%
  distinct() %>%
  mutate(month = fct_collapse(month,
                              summer = c("5", "6", "7", "8", "9", "10"),
                              winter = c("1", "2", "3", "4", "11", "12")))
library(ggplot2)
library(ggthemes)
```

##  $geom_smooth()$  using method = 'loess' and formula 'y ~ x'

