Homework 5

Cydney Jardine

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```
##Input dataset
library(readr)
homicide_data <- read_csv("~/Desktop/Homework5/data/homicide-data.csv")
## Rows: 52179 Columns: 12
## -- Column specification
## Delimiter: ","
## chr (9): uid, victim_last, victim_first, victim_race, victim_age, victim_sex...
## dbl (3): reported_date, lat, lon
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
#new column combining state and city; filter to baltimore
baltimore <- homicide_data %>%
  mutate(city_name = str_c(city, state, sep = ",")) %>%
  filter(city_name == "Baltimore,MD")
##Baltimore data
baltimore1 <- baltimore %>%
  mutate(Date = ymd(reported_date))
##Making year-month to group by later
per_month <- baltimore1 %>%
  group_by(year(Date), month(Date)) %>%
  mutate(New_Date = str_c(`year(Date)`, '-', `month(Date)`))
##Defining summer and winter months
per_month1 <- per_month %>%
  mutate(Weather = `month(Date)` %in% 5:10)
per_month1 <- per_month1 %>%
  mutate(Weather = factor(Weather, levels = c(TRUE, FALSE),
                          labels = c("Summer", "Winter")))
per_month2 <- per_month1 %>%
  select(Date, Weather, New_Date) %>%
  group_by(New_Date) %>%
  mutate(Total = n()) %>%
  distinct(New_Date, .keep_all = TRUE)
```

Adding missing grouping variables: `year(Date)`, `month(Date)`

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

Warning: position_stack requires non-overlapping x intervals

