HW5

Collin Brehmer 11/6/2019

```
library(readr)
library(dplyr)
library(tidyr)
library(lubridate)
library(stringr)
library(ggplot2)
```

Read in raw data

```
homicides_raw <- read_csv("../data/homicide-data.csv")
```

Clean data

Recreate plot

```
homicides %>%
  ggplot(aes(y = n, x = year_month)) +
  geom_bar(aes(fill = season), stat = "identity") +
  geom_smooth(se = FALSE, method = "loess", span = .15) +
  scale_fill_manual(values = c("#D3D3D3","#ADD8E6")) +
  theme_dark()+
```

```
theme(legend.title = element_blank(),
    legend.position = "bottom",
    text = element_text(size = 7)) +
labs(y = "Monthly homicides", x = "Date")+
ggtitle("Homicides in Baltimore, MD")+
scale_x_date() +
geom_vline(xintercept = as.numeric(as.Date("2015-04-01")), color = "red",
    linetype = "dashed", size = 1) +
annotate("text", y = 40, x = as.Date("2015-02-01"), label = "Arrest of\nFreddie Gray",
    hjust = 1, color = "white", size = 2.5)
```

Homicides in Baltimore, MD

