

Heidi Kloser Homework_5

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```
knitr::opts_chunk$set(echo = TRUE, warning = FALSE, message = FALSE,  
  error = FALSE)
```

Libraries

```
#packages  
library(tidyverse)  
library(lubridate)  
library(ggthemes)  
library(broom)  
library(knitr)  
library(scales)  
library(tigris)  
library(sf)
```

List files in "data" sub directory

```
list.files("data")
```

```
## [1] "homicide-data.csv"
```

```
# read in data  
homicides<-read.csv("data/homicide-data.csv")  
  
# piping n code to clean up data  
homicides<- homicides%>%  
  mutate(state = str_to_upper(string = state))%>% # changing case  
  mutate(city_name = paste(city, state))%>% # combine city and state name to one col  
  mutate(status = factor(disposition, levels = c("Closed by arrest",  
    "Closed without arrest",  
    "Open/No arrest"),  
    labels = c("solved", "unsolved", "unsolved")))%>%  
  # creating new col for solves/unsolved  
  filter(str_detect(city_name, "Atlanta"))%>% # filtering to only Atlanta  
  select(- city, - state, - disposition) #removing redundant columns
```

```
head(homicides, 3)
```

```
##      uid reported_date victim_last victim_first victim_race victim_age  
## 1 Atl-000756      20070110    BIRDSONG      ERNEST      Black      29  
## 2 Atl-000757      20070110        REED      MICHAEL      Black      29  
## 3 Atl-000758      20070114    FELICIANO      JOHNNY    Hispanic      36  
##   victim_sex    lat    lon city_name status  
## 1      Male 33.72635 -84.38473 Atlanta GA solved
```

2 Male 33.80589 -84.46495 Atlanta GA solved
3 Male 33.75267 -84.41836 Atlanta GA solved