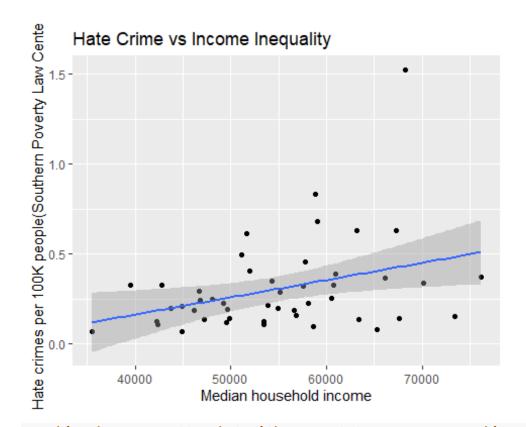
## Week 5

## Mayuree

2022-06-25

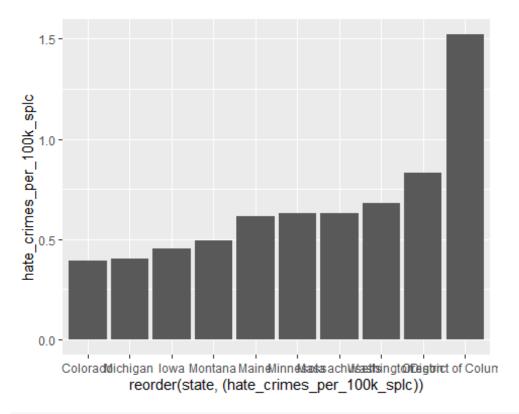
```
##Importing the csv file from github
url <- "https://raw.githubusercontent.com/fivethirtyeight/data/master/hate-</pre>
crimes/hate crimes.csv"
data <- read.csv(url)</pre>
library(tidyverse)
## -- Attaching packages ----- tidyverse
1.3.1 --
## v ggplot2 3.3.5 v purrr 0.3.4
## v tibble 3.1.6 v dplyr 1.0.9
## v tidyr 1.2.0 v stringr 1.4.0
## v readr 2.1.2 v forcats 0.5.1
## -- Conflicts -----
tidyverse conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
data %>% select(median_household_income, hate_crimes_per_100k_splc) %>%
  filter(if all(c(median household income, hate crimes per 100k splc),
~!is.na(.x))) %>%
  ggplot(aes(x=median_household_income, y=hate_crimes_per_100k_splc)) +
  geom point() +
  geom_smooth(method = "lm", se=TRUE, fullrange=FALSE, level=0.95)+
  ggtitle("Hate Crime vs Income Inequality") +
  xlab("Median household income") +
  ylab("Hate crimes per 100K people(Southern Poverty Law Center)")
## `geom_smooth()` using formula 'y ~ x'
```



geom\_bar(stat="identity")

## This shows a scatterplot with respect to Income Inequality. This scatter
plot shows that as the Income Inequality increases , the hate crimes also
increases.

#This bar graph shows the top states ranked according to
hate\_crimes\_per\_100k\_splc.
##This shows that District of Columbia(DC) has the highest Hatecrime &
colorado has the lowesr rate of hate crime.
library(ggplot2)
# Basic barplot
p<-ggplot(data =
filter(data,dense\_rank(desc(hate\_crimes\_per\_100k\_splc))<=10), aes(x=
reorder(state,(hate\_crimes\_per\_100k\_splc)), y= hate\_crimes\_per\_100k\_splc)) +</pre>



## p + coord\_flip()

