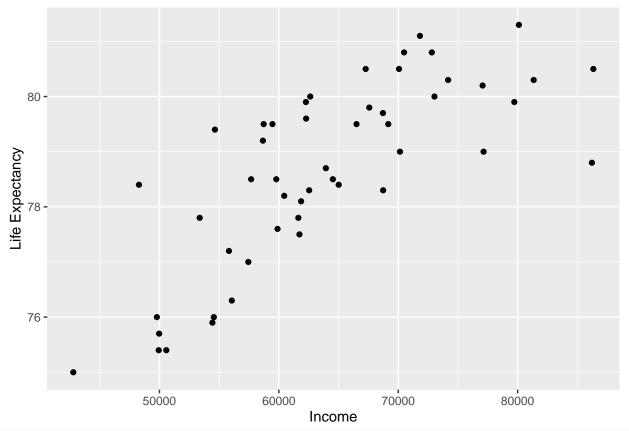
project

```
knitr::opts_chunk$set(echo = TRUE)
library(tidyverse)
## -- Attaching packages ----- tidyverse 1.3.0 --
## v ggplot2 3.3.0 v purrr
## v tibble 2.1.3 v dplyr
                                 0.3.3
                                0.8.5
## v tidyr 1.0.2 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()
states <- read_csv("~/states.csv")</pre>
## Parsed with column specification:
## cols(
##
     State = col_character(),
##
     Abbrev = col_character(),
##
     Code = col_character()
## )
data_1_ <- read_csv("~/data (1).csv")</pre>
## Parsed with column specification:
## cols(
   State = col_character(),
## LE = col_double()
## )
h08_2 <- read_csv("~/h08 2.csv")
## Parsed with column specification:
## cols(
     State = col_character(),
##
##
     `2018` = col_number()
## )
Heart_Disease_Mortality_by_State_3 <- read_csv("~/Heart Disease Mortality by State 3.csv")</pre>
## Parsed with column specification:
## cols(
##
   Code = col_character(),
    RATE = col_double()
##
## )
states1<-full_join(states,data_1_,by="State")
states2<-full_join(states1,h08_2,by="State")</pre>
states3<- full_join(states2, Heart_Disease_Mortality_by_State_3, by="Code")
states3 %>%
rename(Income="2018")
## # A tibble: 51 x 6
##
   State
                           Abbrev Code
                                            LE Income RATE
```

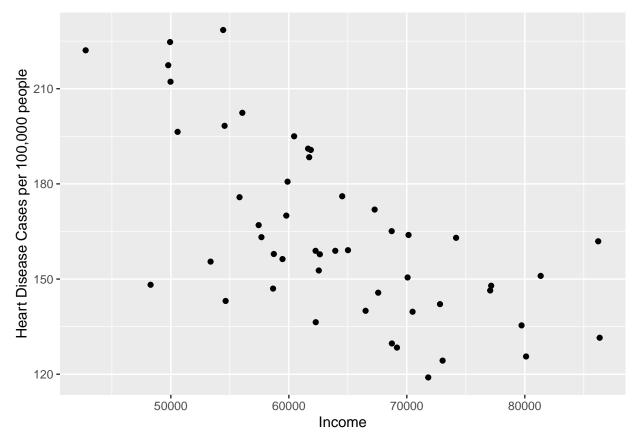
```
<chr>
                                  <chr> <dbl> <dbl> <dbl>
##
                           <chr>
   1 Alabama
                                         75.4 49936
##
                           Ala.
                                  AL
                                                      225.
   2 Alaska
                                         78.3 68734 130.
                           Alaska AK
   3 Arizona
                                         79.6 62283 136.
                           Ariz.
                                  ΑZ
##
##
   4 Arkansas
                           Ark.
                                  AR
                                         76
                                               49781
                                                      217.
   5 California
                           Calif. CA
                                         80.8 70489 140.
##
   6 Colorado
                           Colo.
                                  CO
                                         80
                                               73034 124.
                                         80.8 72812 142.
   7 Connecticut
                                  CT
##
                           Conn.
##
   8 Delaware
                           Del.
                                  DΕ
                                         78.4
                                               65012 159.
   9 District of Columbia D.C.
                                  DC
                                         NA
                                                  NA
                                                       NA
## 10 Florida
                           Fla.
                                  FL
                                         79.4 54644 143.
## # ... with 41 more rows
states3[,"Income"]<-states3[,5]
ggplot(data=states3, mapping = aes(x= Income, y= LE))+geom_point()+ylab("Life Expectancy")
```

Warning: Removed 1 rows containing missing values (geom_point).



ggplot(data = states3, mapping= aes(x=Income, y= RATE))+geom_point()+ylab("Heart Disease Cases per 100,"

Warning: Removed 1 rows containing missing values (geom_point).



There is a very strong positive correlation between income and life expectancy. There is a very strong negative correlation between income and rates of heart disease. The higher prevalence of heart disease in lower income communities is likely a factor in life expectancy being lower for poorer communities.