data=read.csv('/Users/wangyue/Desktop/newyork.csv')

library(ggplot2)

library(gtable)

library(grid)

library(dplyr)

require(cowplot)

data$Month=factor(data$Month,levels=c('Jan','Feb','Mar','Apr','May','Jun','Jul','Aug','Sep','Oct','Nov','Dec'))

p1=ggplot(data, aes(x = data$Month, y = Precipitation)) +

geom\_bar(stat='identity',fill ='light blue') +

xlab('Month') +

ggtitle("AVERAGE PRECIPITATION IN NEW YORK")

p2=ggplot(data, aes(x =data$Month, y =Accident,group=1,color='red'))+

geom\_point()+geom\_line()+xlab('Month')

library(gridExtra)

library(plotly)

g1 <- ggplot\_gtable(ggplot\_build(p1))

g2 <- ggplot\_gtable(ggplot\_build(p2))

# get the location of the panel of p1

# so that the panel of p2 is positioned correctly on top of it

pp <- c(subset(g1$layout, name == "panel", se = t:r))

# superimpose p2 (the panel) on p1

g <- gtable\_add\_grob(g1, g2$grobs[[which(g2$layout$name == "panel")]], pp$t,

pp$l, pp$b, pp$l)

# extract the y-axis of p2

ia <- which(g2$layout$name == "axis-l")

ga <- g2$grobs[[ia]]

ax <- ga$children[[2]]

# flip it horizontally

ax$widths <- rev(ax$widths)

ax$grobs <- rev(ax$grobs)

# add the flipped y-axis to the right

g <- gtable\_add\_cols(g, g2$widths[g2$layout[ia, ]$l], length(g$widths) - 1)

g <- gtable\_add\_grob(g, ax, pp$t, length(g$widths) - 1, pp$b)

grid.draw(g)





