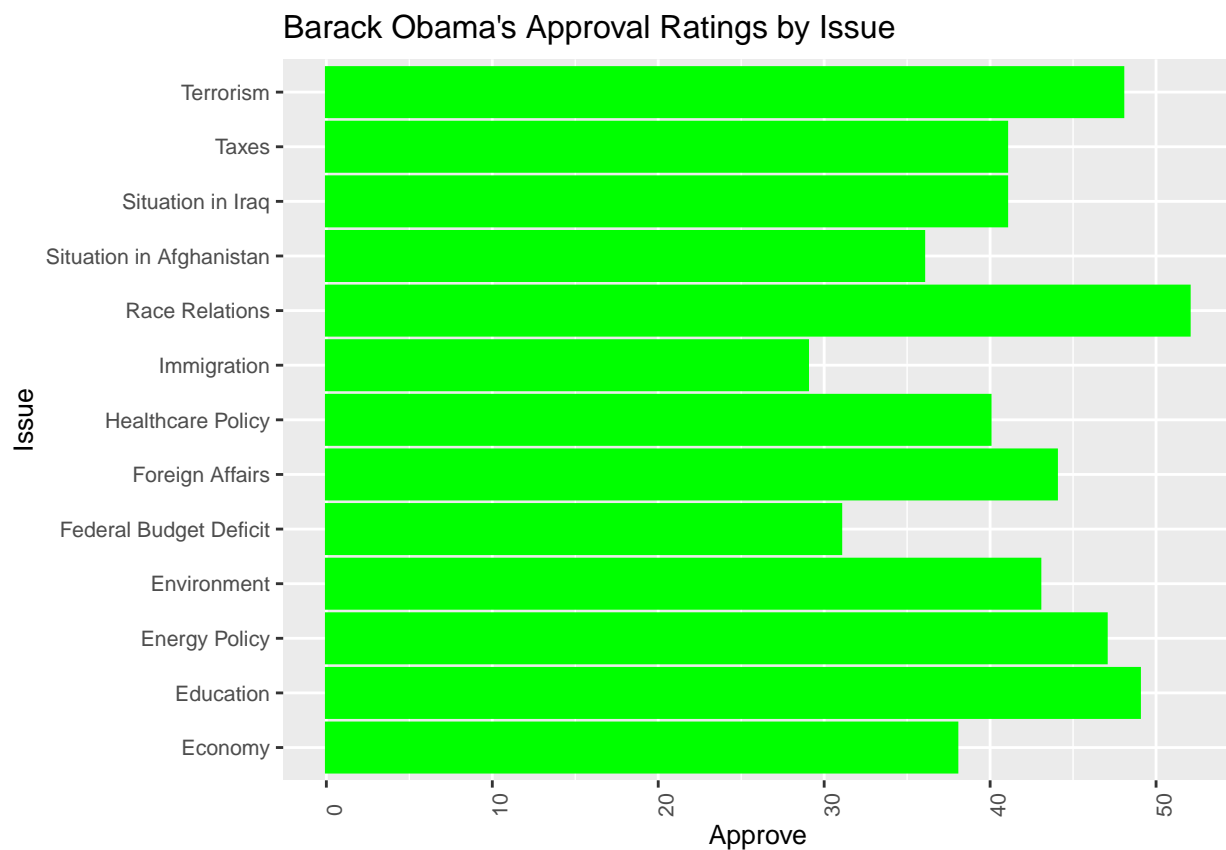# 1.2 Assignment

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June 19th, 2022

```r
# Create a bar chart
obamabc<-ggplot(data=obama_df, aes(x=Issue, y=Approve)) + geom_bar(stat="identity", color="Green", fill=

obamabc
```


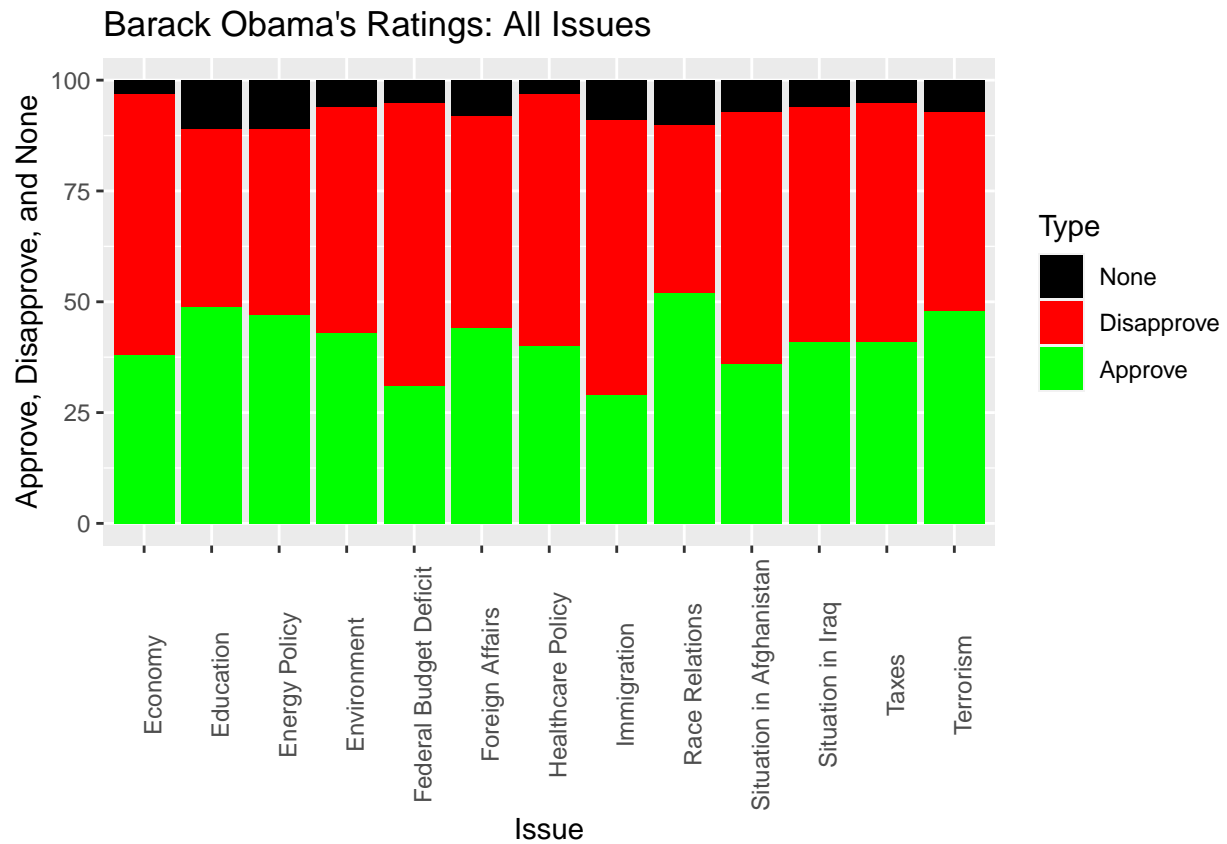Barack Obama's Approval Ratings by Issue

```r
# Convert data to long format
df_long <- gather(obama_df, Type, value, Approve:None, factor_key=TRUE)

# Build levels
df_long$Type <- factor(df_long$Type, levels = c('None', 'Disapprove', 'Approve'))
Type <- c('Approve', 'Disapprove', 'None')

# Create stacked bar chart
```
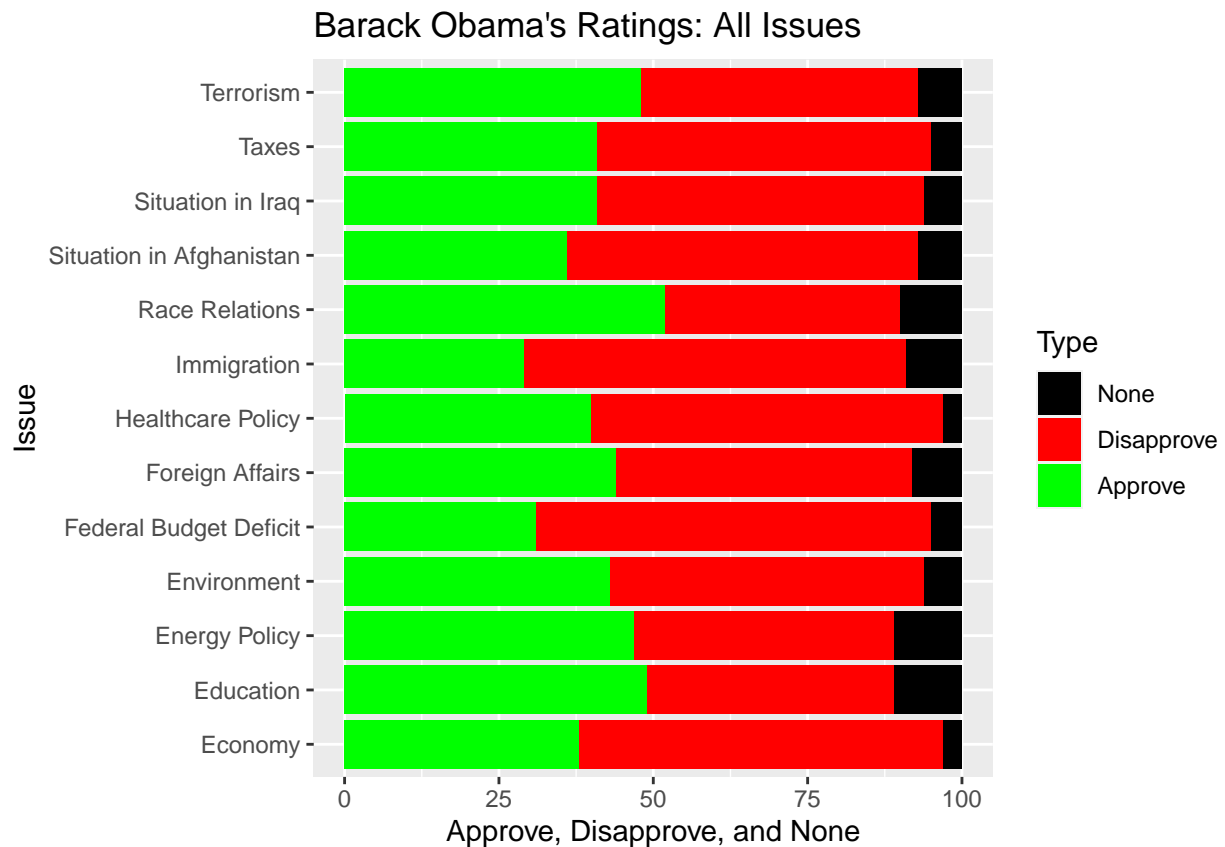
```r
obamasbc <- ggplot(df_long, aes(fill=Type, y=value, x=Issue)) +
geom_bar(position="stack", stat="identity") +
ggtitle("Barack Obama's Ratings: All Issues") + xlab("Issue") + ylab("Approve, Disapprove, and None") +

# Show chart
obamasbc
```

Barack Obama's Ratings: All Issues


```r
# Create stacked bar chart
obamasbc2 <- ggplot(df_long, aes(fill=Type, y=Issue, x=value)) +
geom_bar(position="stack", stat="identity") +
ggtitle("Barack Obama's Ratings: All Issues") + xlab("Approve, Disapprove, and None") + ylab("Issue") +

# Show chart
obamasbc2
```
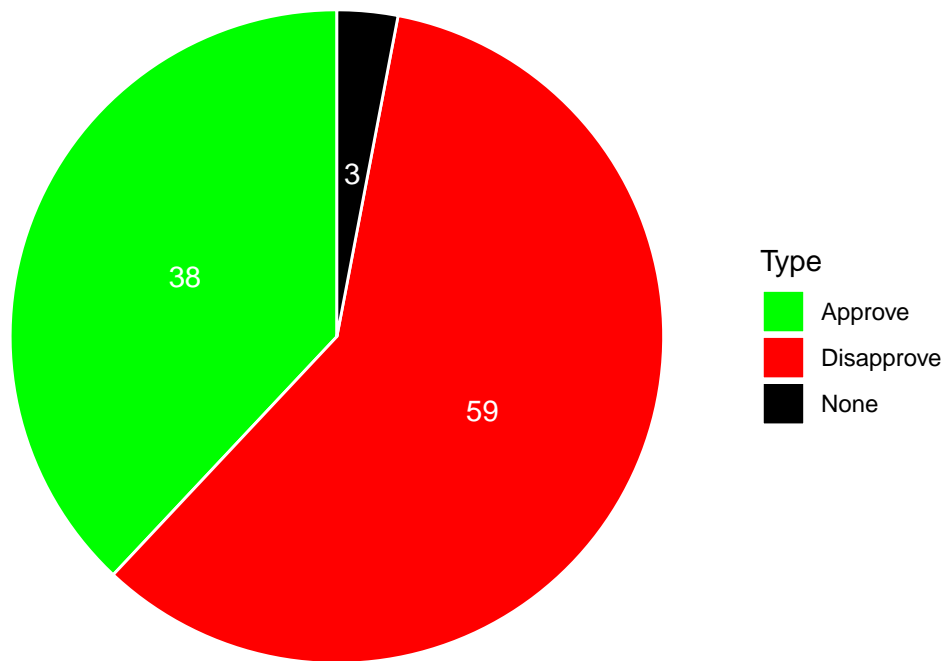
Barack Obama's Ratings: All Issues


```
# Extract needed information
rating <- c(obama_df$Approve[10], obama_df$Disapprove[10], obama_df$None[10])
type <- c('Approve', 'Disapprove', 'None')

# Build data frame
data <- data.frame(group=type, value=rating)

# Plot pie chart
obamapc <- ggplot(data, aes(x="", y=rating, fill=Type))+
geom_bar(stat="identity", width=1, color="white") +
coord_polar("y", start=0) + theme_void() +
ggtitle("Barack Obama's Ratings: Economy") + geom_text(aes(label = value), color = "white", position =

#Show chart
obamapc
```

Barack Obama's Ratings: Economy
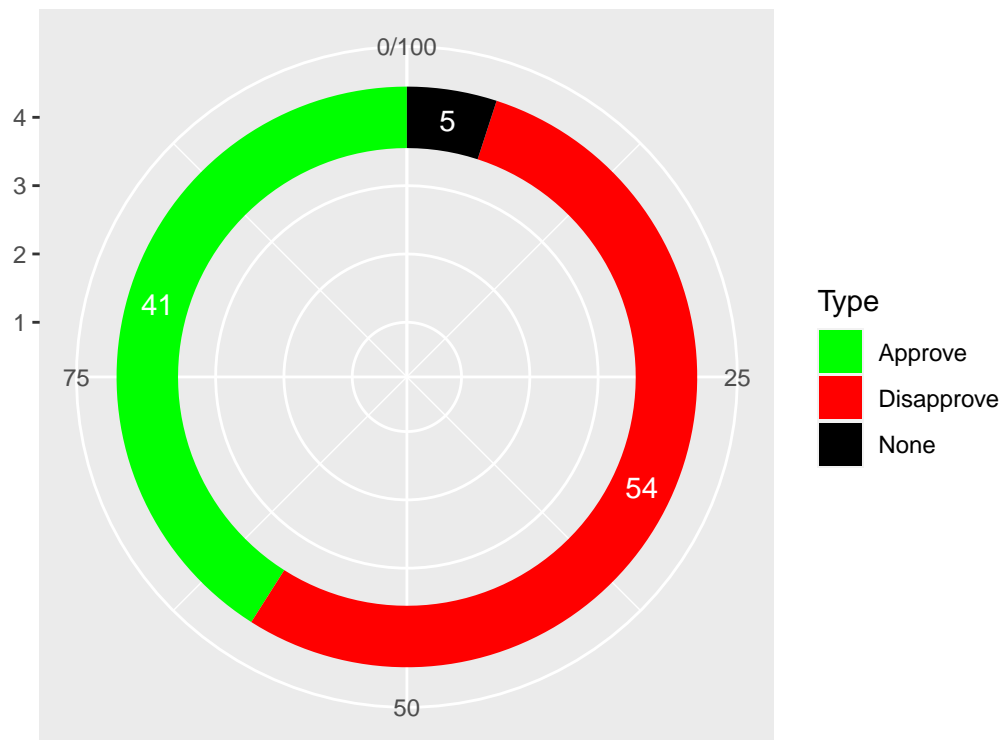


```
# Plot donut chart

# Extract needed information
rating <- c(obama_df$Approve[8], obama_df$Disapprove[8], obama_df$None[8])
type <- c('Approve', 'Disapprove', 'None')

# Build data frame
data2 <- data.frame(group=type, value=rating)

# set hole size
hsize <- 4

obamadc <- ggplot(data2, aes(x=hsize, y=rating, fill=Type))+
geom_col() +
coord_polar(theta = "y") +
xlim(c(0.2, hsize + 0.5)) +
ggtitle("Barack Obama's Ratings: Taxes")+ xlab("") + ylab("") + geom_text(aes(label = value), color = "

obamadc
```

Barack Obama's Ratings: Taxes


```
# Plot line chart

# Change column name
colnames(hotdog_df)[colnames(hotdog_df) == "Dogs eaten"] <- "Dogs_Eaten"

# Create a bar chart
hdline <- ggplot(hotdog_df, aes(x=Year, y= Dogs_Eaten)) + geom_line(color="red") + ggtitle("Hot Dogs Ea

hdline
```

Hot Dogs Eaten by Contest Winners Each Year