# Assignment 1.2 - Week 1&2

## Aarti Ramani

2023-06-13

```
library(readxl)
library(ggplot2)
library(RColorBrewer)
library(plotly)
```

## Load required libraries

```
##
## Attaching package: 'plotly'
## The following object is masked from 'package:ggplot2':
##
## last_plot
## The following object is masked from 'package:stats':
##
## filter
## The following object is masked from 'package:graphics':
##
## layout
```

```
obama_approvals_df <- read_excel(path = "C:/Masters/GitHub/Summer2023/DSC640-Data Presentation & Visual nrow(obama_approvals_df)
```

### Read xls into a dataframe

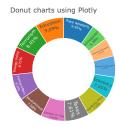
```
## [1] 13
```

head(obama\_approvals\_df,5)

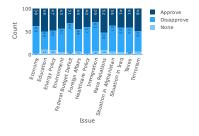
```
## # A tibble: 5 x 4
    Issue Approve Disapprove None
                  <dbl> <dbl> <dbl>
## 1 Race Relations
                   52
                              38
                                    10
                     49
## 2 Education
                               40
## 3 Terrorism
                    48
                               45
                                    7
## 4 Energy Policy
                    47
                               42
                                    11
## 5 Foreign Affairs
                    44
                               48
                                     8
```

### DONUT CHART

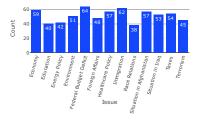
```
\#fig \leftarrow obama\_approvals\_df \%>\% \ plot\_ly(labels = \sim Issue, \ values = \sim Approve, \ textposition = 'outside', \ \#toutsubseteq 
#fig <- fig %>% add_pie(hole = 0.6)
#fig <- fig %>% layout(title = list(text='Donut charts using Plotly'),
                                                                                        autosize = T , showlegend = F)
#fig
fig1 <- plot_ly(obama_approvals_df, labels = ~Issue, values = ~Approve, #type = 'pie',
                               textposition = 'inside',
                              textinfo = 'percent+label',
                              text = ~paste(Issue),
                              marker = list(line = list(color = '#FFFFFF', width = 1)),
                               showlegend = FALSE)
fig1 <- fig1 %>% add_pie(hole = 0.6)
fig1 <- fig1 %>% layout(title = 'Donut charts using Plotly',
                                  xaxis = list(showgrid = FALSE, zeroline = FALSE, showticklabels = FALSE),
                                  yaxis = list(showgrid = FALSE, zeroline = FALSE, showticklabels = FALSE))
fig1
```



### STACKED BAR CHART



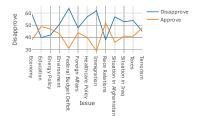
#### BAR CHART



## LINE CHART

```
# Line Chart

fig <- plot_ly(obama_approvals_df, x = ~Issue)
fig <- fig %>% add_lines(y = ~Disapprove, name = "Disapprove")
fig <- fig %>% add_lines(y = ~Approve, name = "Approve")
fig
```



## PIE CHART

