DSC640 Week1-2

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```
library(ggplot2)
library(readxl)
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.1 --
```

```
## v tibble  3.1.6     v dplyr   1.0.7
## v tidyr   1.1.4     v stringr 1.4.0
## v readr   2.1.1     v forcats 0.5.1
## v purrr   0.3.4
```

```
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
library(plyr)
```

```
## ------------------------------------------------------------------------------
```

```
## You have loaded plyr after dplyr - this is likely to cause problems.
## If you need functions from both plyr and dplyr, please load plyr first, then dplyr:
## library(plyr); library(dplyr)
```

```
## ------------------------------------------------------------------------------
```

```
##
## Attaching package: 'plyr'
```

```
## The following objects are masked from 'package:dplyr':
##
##     arrange, count, desc, failwith, id, mutate, rename, summarise,
##     summarize
```

```
## The following object is masked from 'package:purrr':
##
##     compact
```

```
library(dplyr)
library(pastecs)
```

```
##
## Attaching package: 'pastecs'
```

```
## The following objects are masked from 'package:dplyr':
##
##     first, last
```

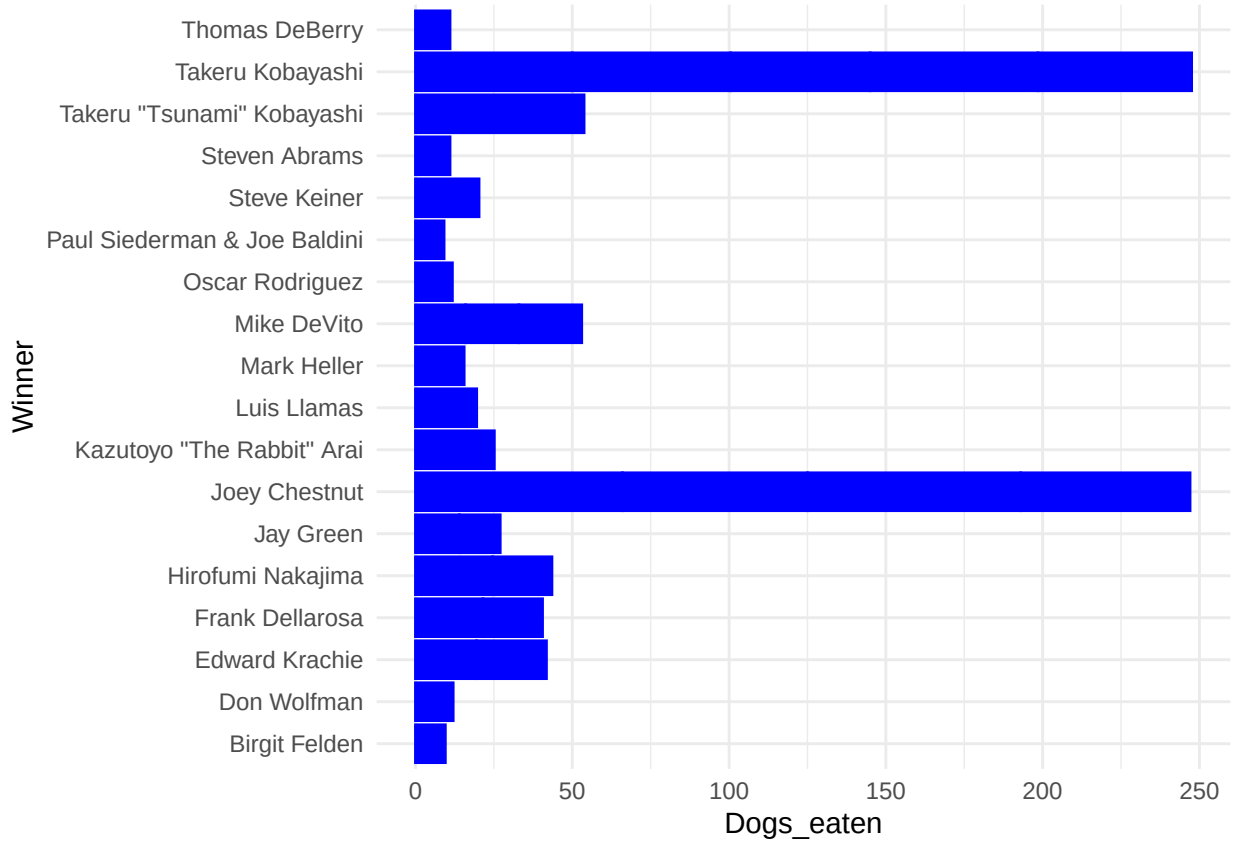
```
## The following object is masked from 'package:tidyr':
##
```

```
##     extract
```

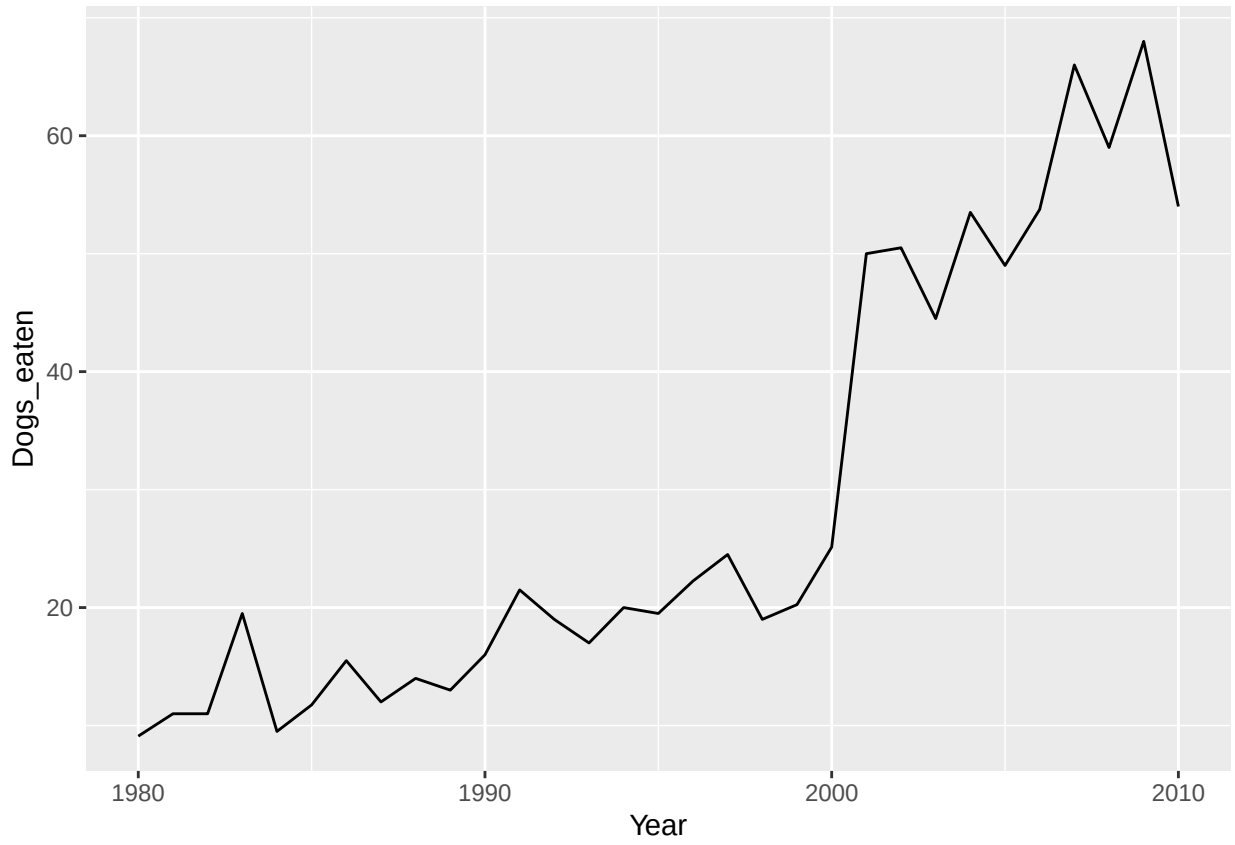
```
#set working directory
setwd('/Users/logan/Documents/GitHub/DSC640')

#load in obama approval dataset
obama_df <- read_excel("/Users/logan/Documents/GitHub/DSC640/obama-approval-ratings.xls")

#load in hotdog contest winner dataset
hotdog_df <- read_excel("/Users/logan/Documents/GitHub/DSC640/hotdog-contest-winners.xlsm")

#check colnames for hotdog_df
head(hotdog_df)
```

```
## # A tibble: 6 x 5
##    Year Winner                       `Dogs eaten` Country       `New record`
##   <dbl> <chr>                               <dbl> <chr>                 <dbl>
## 1  1980 Paul Siederman & Joe Baldini          9.1 United States             0
## 2  1981 Thomas DeBerry                       11   United States             0
## 3  1982 Steven Abrams                        11   United States             0
## 4  1983 Luis Llamas                          19.5 Mexico                    0
## 5  1984 Birgit Felden                         9.5 Germany                   0
## 6  1985 Oscar Rodriguez                      11.8 United States             0
```

```
#correct colnames for use in graphs
colnames(hotdog_df)[colnames(hotdog_df) == 'Dogs eaten'] <- 'Dogs_eaten'

#create a horizontal barchart
barc <- ggplot(data = hotdog_df, aes(x = Winner, y=Dogs_eaten)) + geom_bar(stat='identity', color='Blue
barc
```




```
#create a line chart
lineplot <- ggplot(data=hotdog_df, aes(x=Year,y=Dogs_eaten)) + geom_line()
lineplot
```

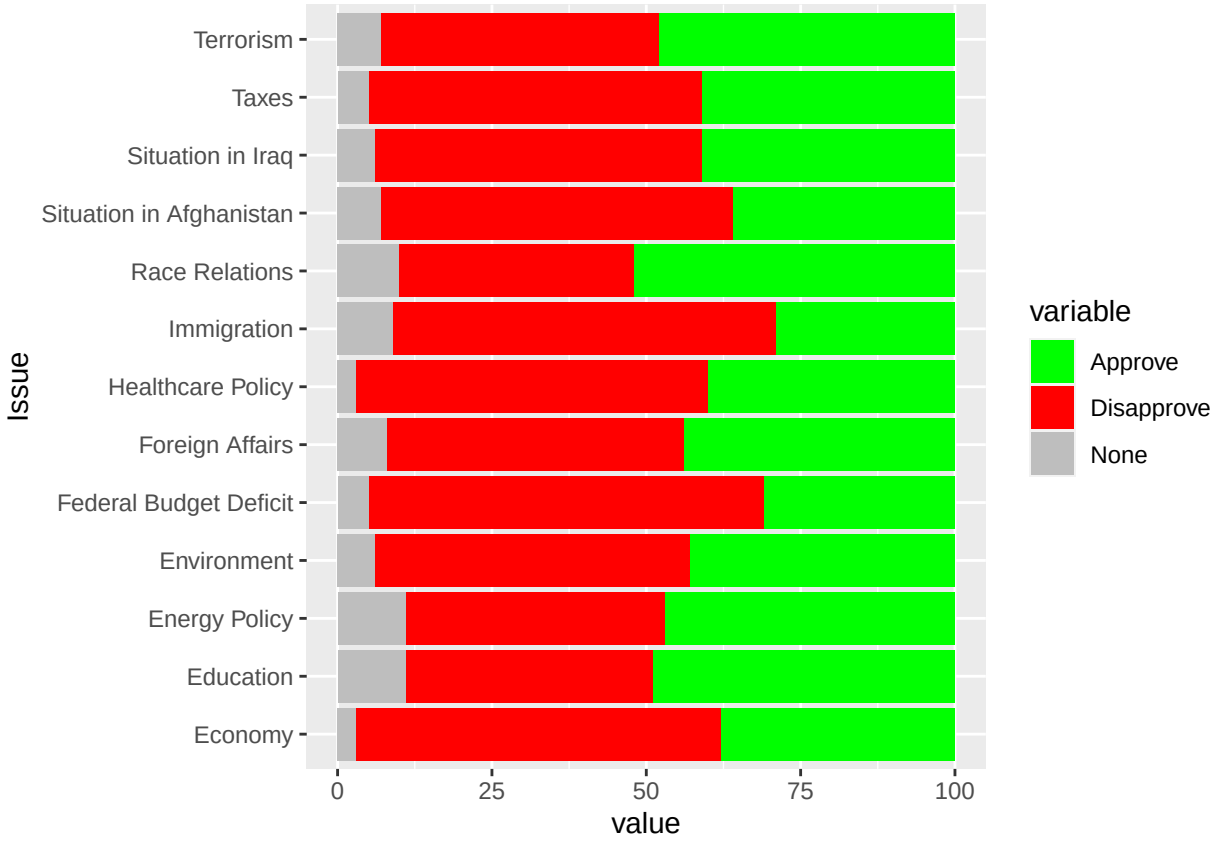



```
#load in reshape 2 library
library(reshape2)
```

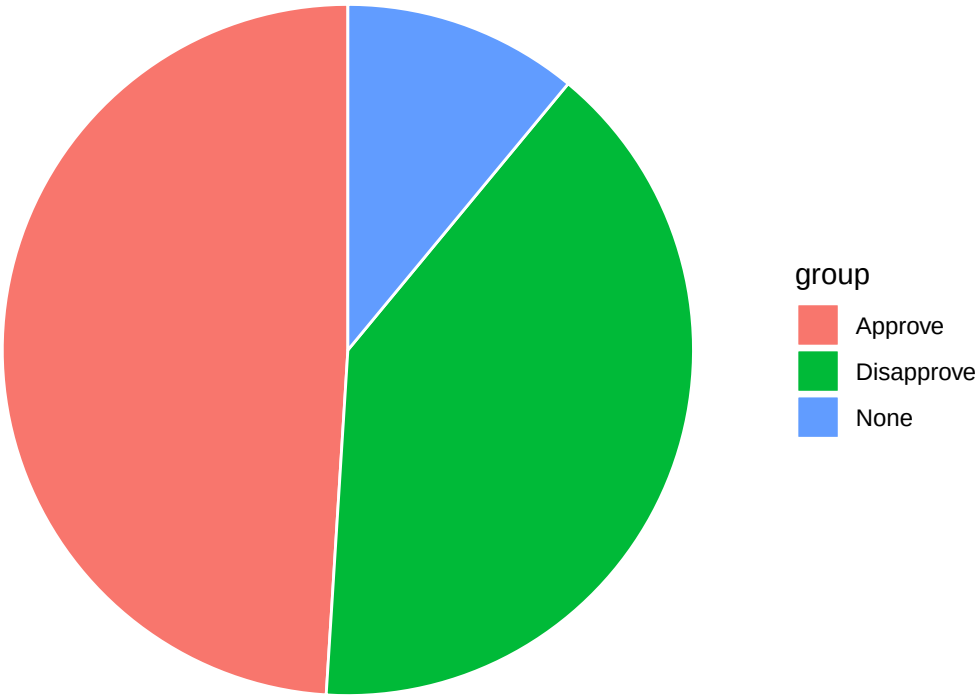
```
##
## Attaching package: 'reshape2'
```

```
## The following object is masked from 'package:tidyr':
##
##     smiths
```

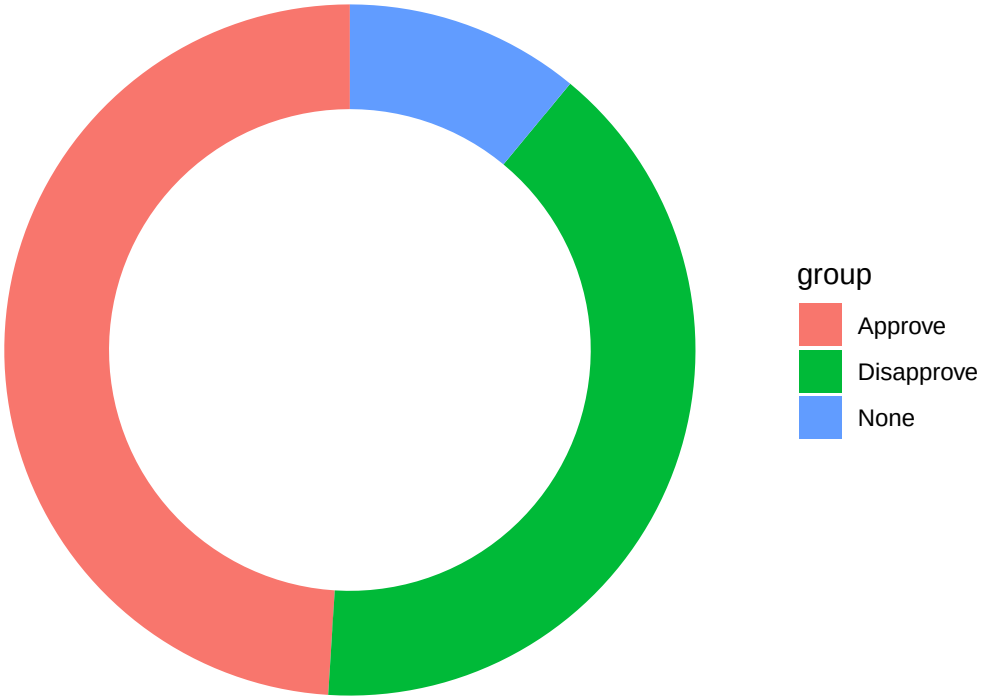
```
#melt obama_df for use in stacked bar chart
obama_df_two <- melt(obama_df, id.vars = 1)
#create stacked bar chart
stackedbar <- ggplot(data=obama_df_two, aes(fill=variable, x=Issue, y=value)) + geom_bar(position='stack
stackedbar
```




```
#create variable for Obamas ratings on Education
rating <- c(obama_df$Approve[2], obama_df$Disapprove[2], obama_df$None[2])
#create variable for type of rating
type <- c('Approve', 'Disapprove', 'None')
#create new dataframe for use in piechart
approve_df <- data.frame(group=type, value=rating)
#create piechart
piechart <- ggplot(data=approve_df, aes(fill=group, y=value, x="")) + geom_bar(stat='identity', width=1
piechart
```




```
#set holesize for donut chart
hsize=3

#create donut chart
donut <- piechart <- ggplot(data=approve_df, aes(fill=group, y=value, x=hsize)) + geom_bar(stat='identi
donut
```


group
Approve
Disapprove
None