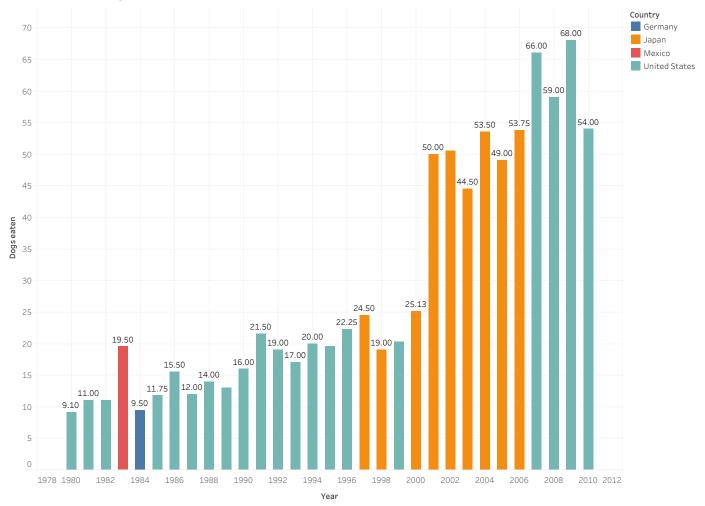
#### Bar Chart - Hot Dog Winners trend



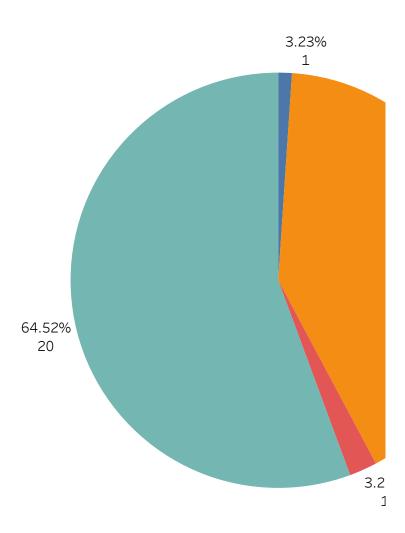
 $The plot of sum of Dogs \ eaten for Year. \ Color shows \ details \ about \ Country. \ The \ marks \ are \ labeled \ by \ sum of Dogs \ eaten.$ 

# Pie Chart - Hot Dog Contest Winners by Country



# Pie Chart - Hot Dog Contest Winners by Country

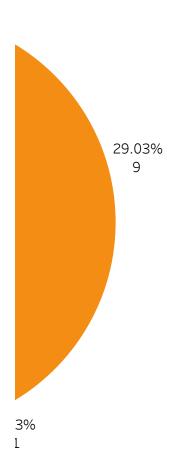




% of Total Count of hot-dog-contest-winners and count of hot-dog-contest-winners. Color shows details about Country. The marks are labeled by % of Total Count of hot-dog-contest-winners and count of hot-dog-contest-winners.

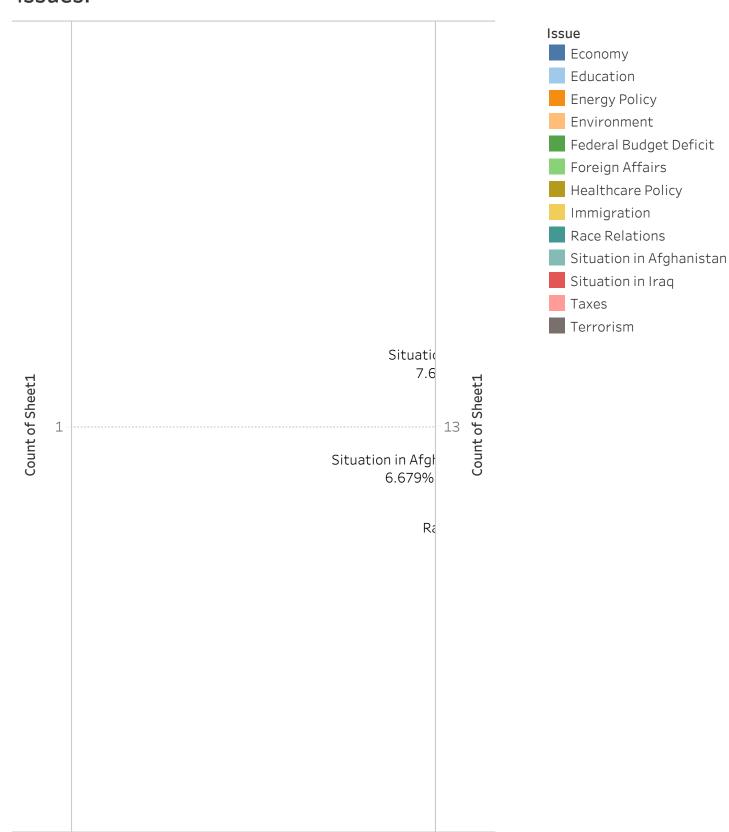
# Pie Chart - Hot Dog Contest Winners by Country





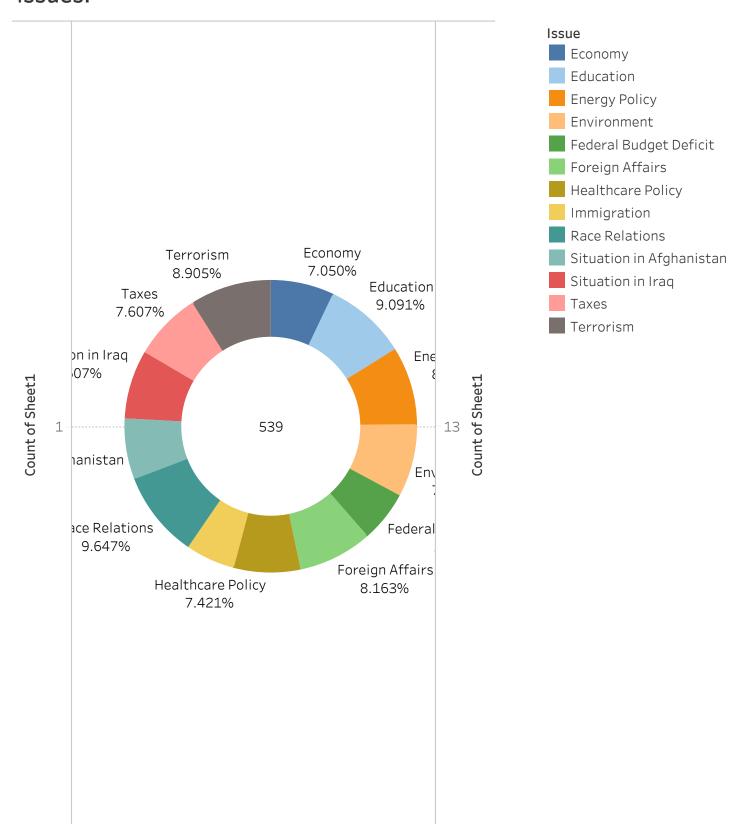
% of Total Count of hot-dog-contest-winners and count of hot-dog-contest-winners. Color shows details about Country. The marks are labeled by % of Total Count of hot-dog-contest-winners and count of hot-dog-contest-winners.

# Donut Chart - % of Approval ratings for diff issues.



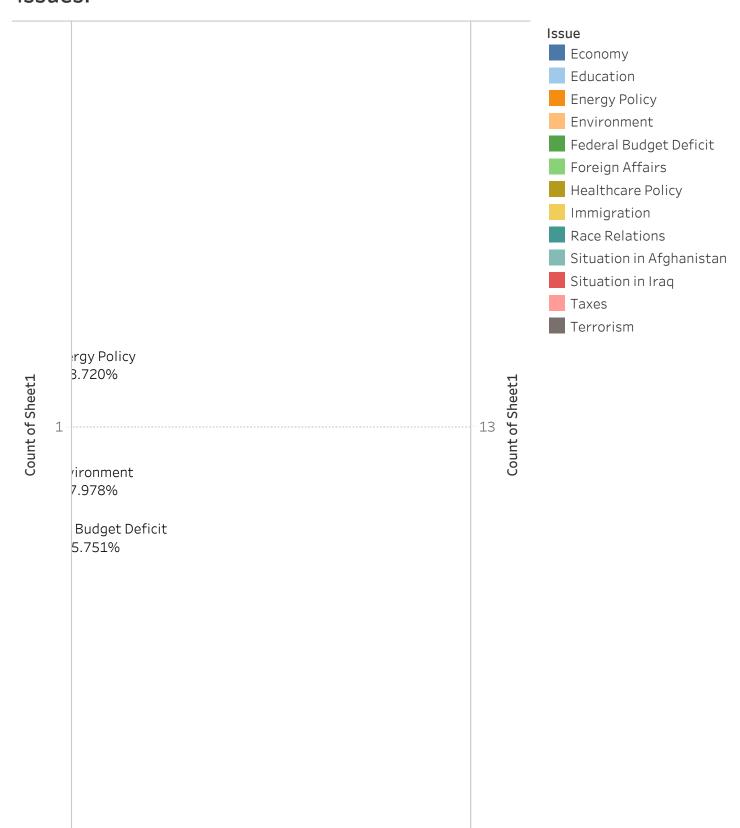
Count of Sheet1 and count of Sheet1. For pane Count of Sheet1: Color shows details about Issue. The marks are labeled by Issue and % of Total Approve. For pane Count of Sheet1 (2): The marks are labeled by sum of Approve.

# Donut Chart - % of Approval ratings for diff issues.

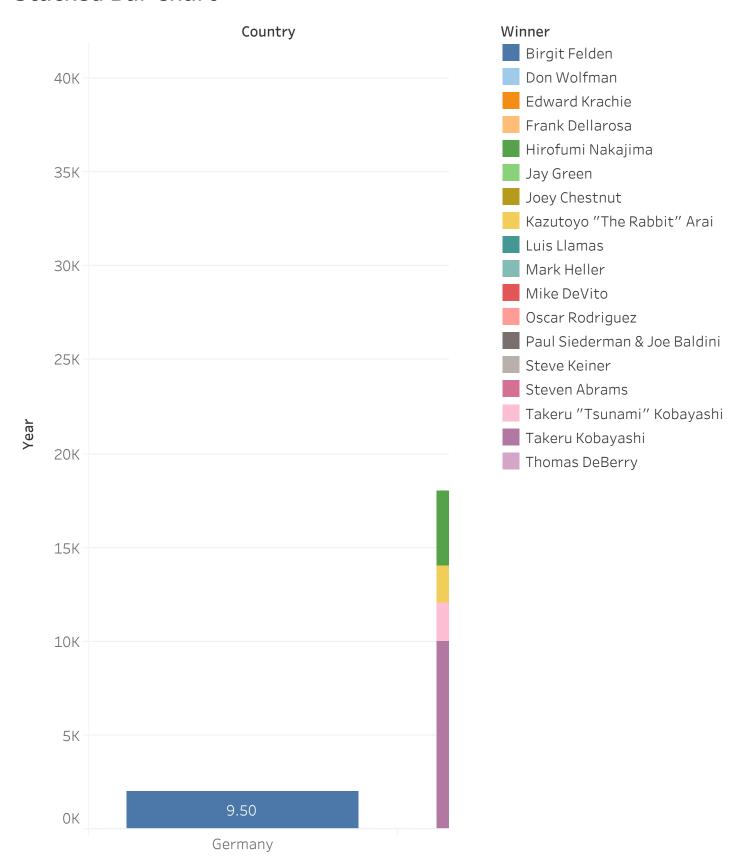


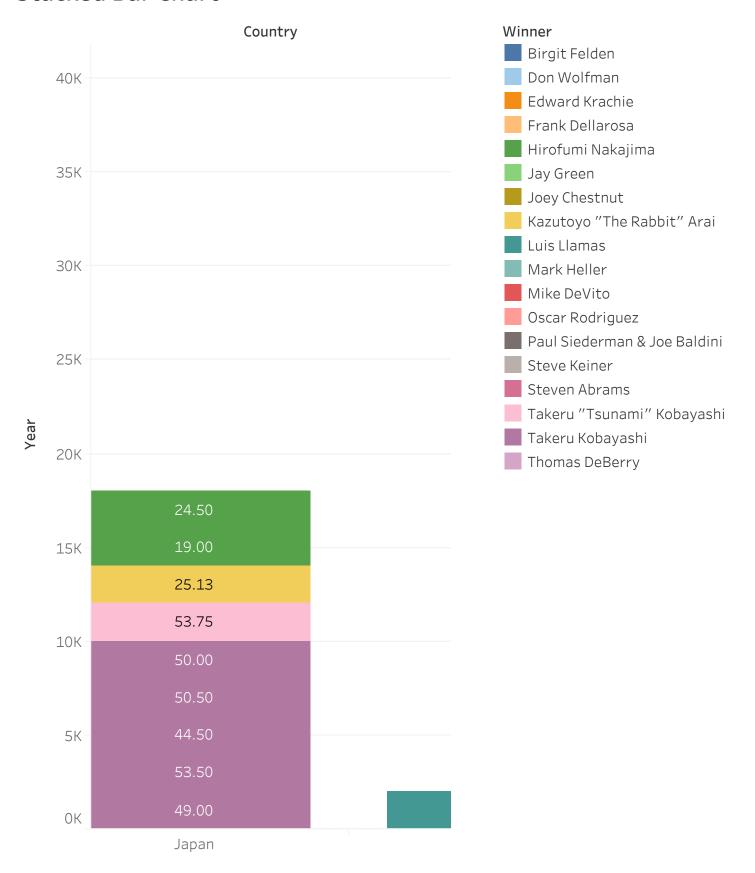
Count of Sheet1 and count of Sheet1. For pane Count of Sheet1: Color shows details about Issue. The marks are labeled by Issue and % of Total Approve. For pane Count of Sheet1 (2): The marks are labeled by sum of Approve.

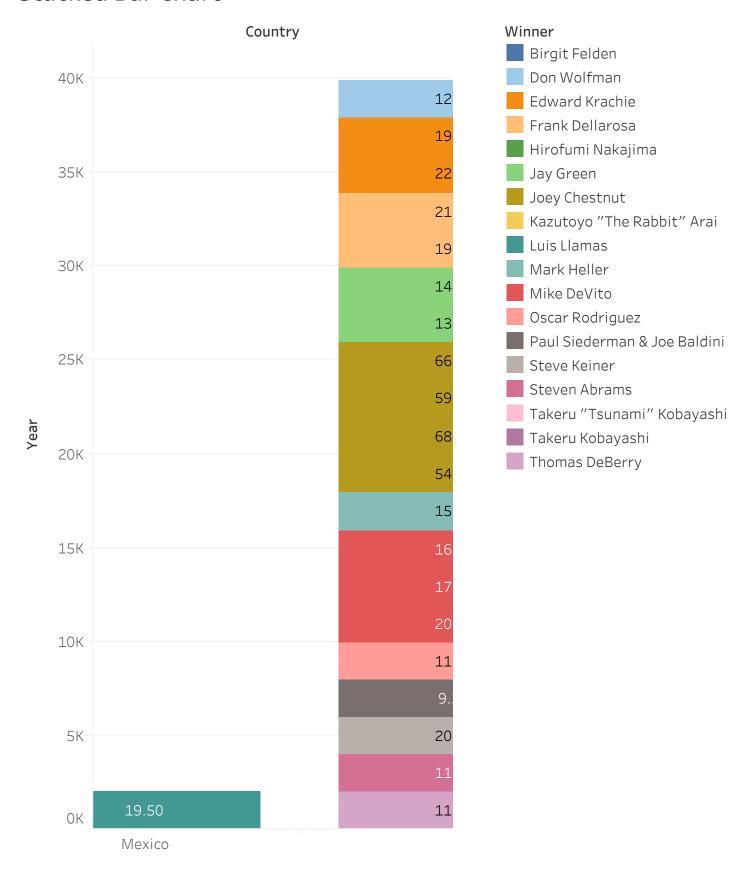
# Donut Chart - % of Approval ratings for diff issues.

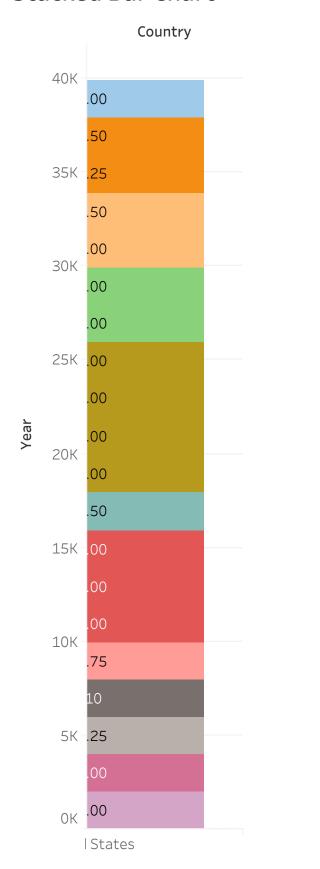


Count of Sheet1 and count of Sheet1. For pane Count of Sheet1: Color shows details about Issue. The marks are labeled by Issue and % of Total Approve. For pane Count of Sheet1 (2): The marks are labeled by sum of Approve.











Country Pie Chart - Hot Dog Contest Winners by Donut Chart - % of Approval ratings for Germany Country diff issues. Japan Mexico Terrorism Economy United States 8.905% 7.050% Education Taxes 3.23% 9.091% 7.607% Economy 1 Education Situation in Iraq Energy Policy Energy Policy 8.720% 29.03% Count of Sheet1 Count of Sheet1 Environment Federal Budget Deficit 539 13 Foreign Affairs 64.52% Situation in Afghanistan Healthcare Policy 20 Environment Immigration 7.978% Race Relations 3.23% Situation in Afghanis.. Race Relations Federal Budget Deficit 1 9.647% 5.751% Situation in Iraq Foreign Affairs Taxes Healthcare Policy 8.163% 7.421% Terrorism Winner Stacked Bar Chart Bar Chart - Hot Dog Winners trend Birgit Felden Don Wolfman 00.99 Country Edward Krachie 40K Frank Dellarosa 53.50 60 50.50 Hirofumi Nakajima Jay Green 30K Joey Chestnut Dogs eaten Kazutoyo "The Rabbi.. 40 Luis Llamas Year 20K Mark Heller 21.50 Mike DeVito Oscar Rodriguez 20 Paul Siederman & Joe.. 10K Steve Keiner Steven Abrams 9.50 19.50 0 Takeru "Tsunami" Ko.. 0К 1980 1985 1990 1995 2000 2005 2010 Takeru Kobayashi

Year

Thomas DeBerry

Germany

Japan

Mexico

United States

# Assignment1.2 - Python

```
In [1]: import pandas as pd
    from pandas import ExcelWriter
    from pandas import ExcelFile
    import matplotlib.pyplot as plt

# Import data to be used for visualization
    obama = pd.read_excel('ex1-2/obama-approval-ratings.xls')

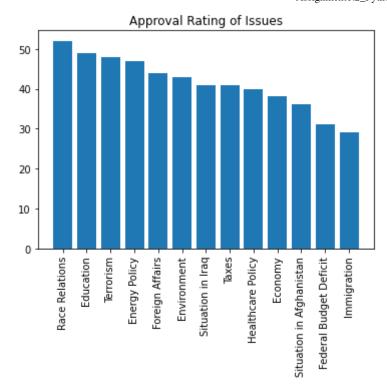
# Examine data
    print(obama)
```

	Issue	Approve	Disapprove	None
0	Race Relations	52	38	10
1	Education	49	40	11
2	Terrorism	48	45	7
3	Energy Policy	47	42	11
4	Foreign Affairs	44	48	8
5	Environment	43	51	6
6	Situation in Iraq	41	53	6
7	Taxes	41	54	5
8	Healthcare Policy	40	57	3
9	Economy	38	59	3
10	Situation in Afghanistan	36	57	7
11	Federal Budget Deficit	31	64	5
12	Immigration	29	62	9

#### **Plot Bar Chart**

Plot the issue in x-axis and any of the corresponding ratings in the y-axis with approval ratings as the measure.

```
In [2]: plt.bar(obama.Issue, obama.Approve)
    plt.title('Approval Rating of Issues')
    plt.xticks(rotation=90)
    plt.show()
```



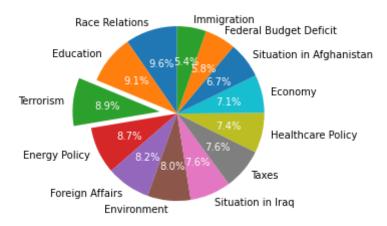
#### Plot Stacked Bar Chart

Plot each issue with their respective Approval, Disapproval and Neutral counts.

#### Plot Pie Chart

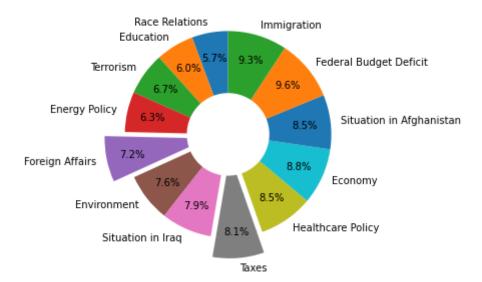
For pie chart demonstration, I would like to plot percentages for each issue of Obama dataset. I would also like to explode the third issue, i.e. Terrorism.

```
In [4]: # Create custom theme for graph
    csfont = {'fontname':'Century Gothic MS'}
    plt.rcParams['font.size'] = 10
```



#### **Plot Donut Chart**

Plot the disapproval percentages for each issue and explode the Foreign Affairs and Taxes issue.



In [ ]:

# Assignment 1.2

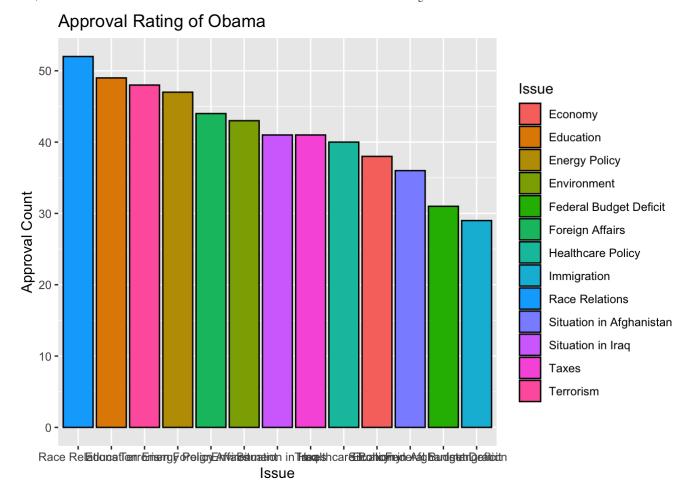
# Anjani Bonda

#### 12/10/2022

##		Issue	Approve	Disapprove	None
##	1	Race Relations	52	38	10
##	2	Education	49	40	11
##	3	Terrorism	48	45	7
##	4	Energy Policy	47	42	11
##	5	Foreign Affairs	44	48	8
##	6	Environment	43	51	6
##	7	Situation in Iraq	41	53	6
##	8	Taxes	41	54	5
##	9	Healthcare Policy	40	57	3
##	10	Economy	38	59	3
##	11	Situation in Afghanistan	36	57	7
##	12	Federal Budget Deficit	31	64	5
##	13	Immigration	29	62	9

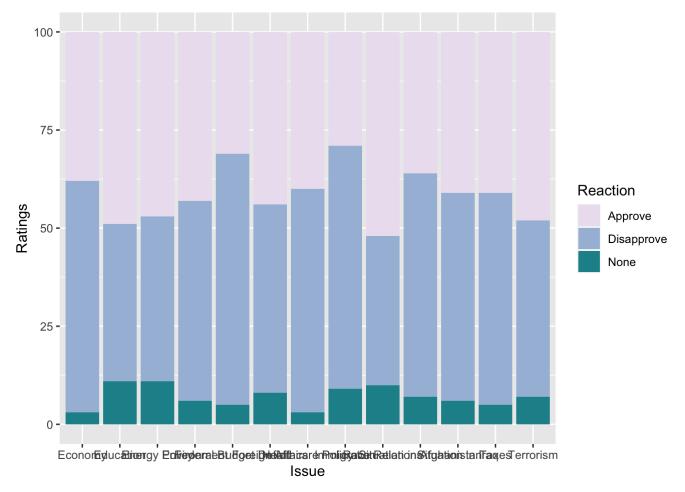
### Bar chart

Plot the issue in x-axis and any of the corresponding ratings in y-axis with approval ratings as the measure.



# Stacked Bar Chart

Plot each issue with their respective Approval, Disapproval and Neutral counts.

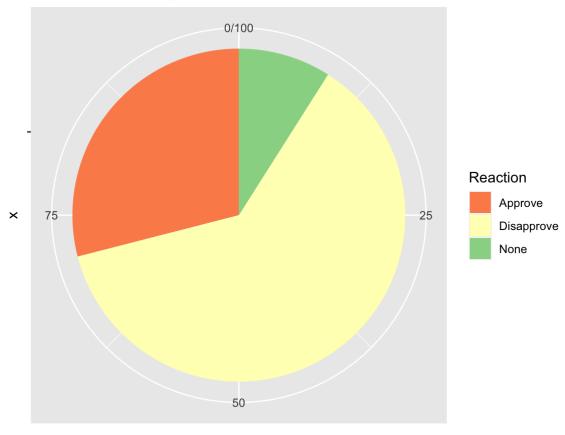


# Pie Chart

For pie chart, Plot Immigration issue and plot the different ratings in a pie.

```
obama_long %>%
  dplyr::filter(Issue=='Immigration') %>%
  ggplot2::ggplot(ggplot2::aes(x="", y=Ratings, fill=Reaction))+
       ggplot2::geom_bar(width = 1, stat = 'identity') +
       ggplot2::coord_polar('y', start=0) +
       ggplot2::ggtitle(label = 'Reaction on Immigration Issue in Obama Era') +
       ggplot2::scale_fill_brewer(palette='Spectral')
```

#### Reaction on Immigration Issue in Obama Era



Ratings

## **Donut Chart**

For donut chart, Plot Education issue and plot different ratings in the shape of a donut.

