

## Assignment 1.2

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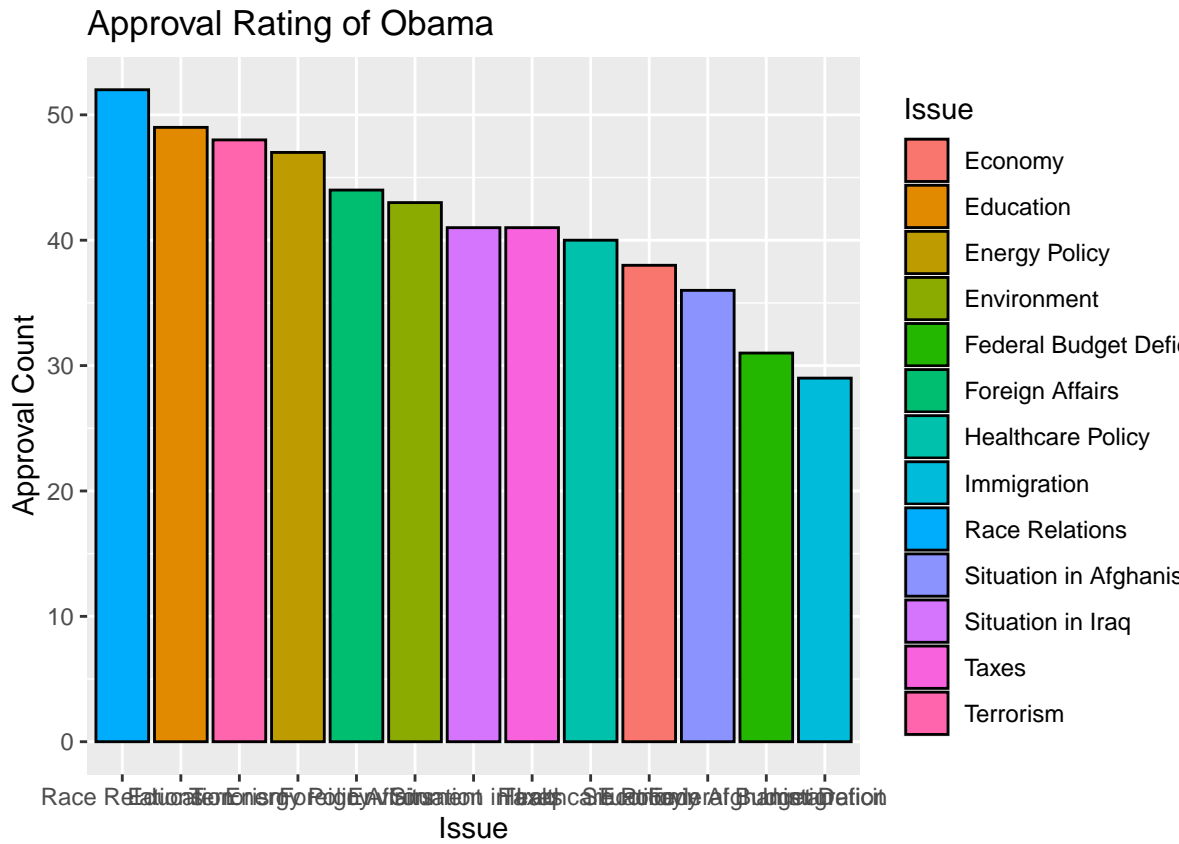
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You need to submit 3 bar charts, 3 stacked bar charts, 3 pie charts, and 3 donut charts using Tableau or PowerBI, Python and R using the data from the link below (the link will download a zipped folder containing three data files.) You may also use your own datasets if you wish. You can also submit using D3 if you choose – but it is not required. You can choose which library to use in Python or R, documentation is provided to help you decide and as you start to play around in the libraries, you will decide which you prefer.

##	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

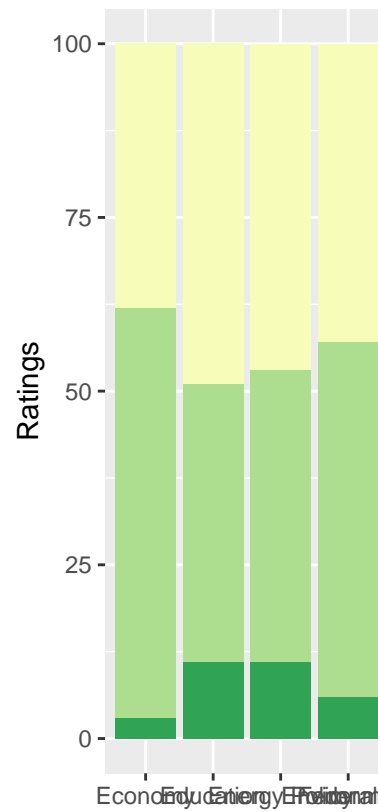
Bar chart

#####Plot the issue in *x-axis* and any of the corresponding ratings in the *y-axis*. I am chosing the approval



ratings as the measure

## Stacked Bar Chart

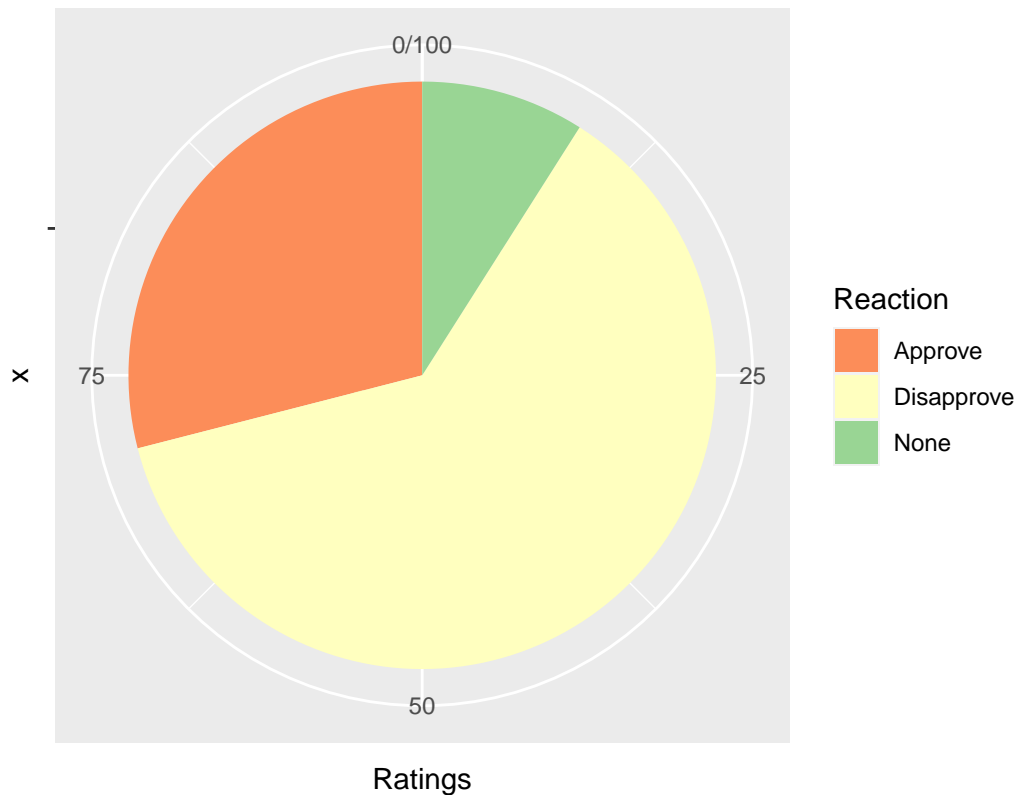


Plot each issue with their respective Approval, Disapproval and Neutral counts.

## Pie Chart

```
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')
```

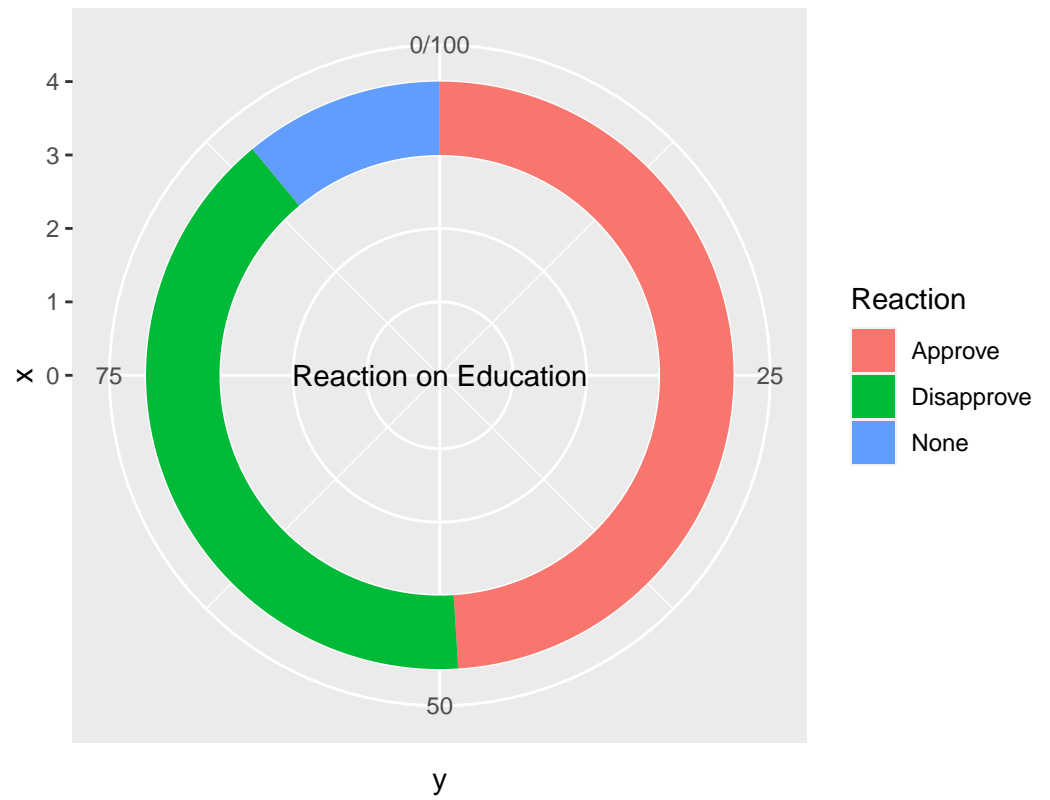
For pie chart demonstration, Plot Immigration issue and plot the different ratings in a pie.  
 Reaction on Immigration Issue in Obama Era



### Donut Chart

```
obama_long %>%
  dplyr::filter(Issue=='Education') %>%
  dplyr::mutate(ymax=cumsum(Ratings),
               ymin=c(0,ymax[1:length(ymax)-1])) %>%
  ggplot2::ggplot(ggplot2::aes(fill=Reaction, ymax=ymax, ymin=ymin, xmax=4, xmin=3)) +
    ggplot2::geom_rect() +
    ggplot2::coord_polar(theta='y') +
    ggplot2::xlim(c(0, 4)) +
    ggplot2::annotate('text', x = 0, y = 0, label = 'Reaction on Education') +
    ggplot2::labs(title='')
```

For donut chart demonstration, Plot Education issue and plot the different ratings in the shape



of a ring/donut.