

Week 2: 1.2 Exercises: Charts

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9/13/2020

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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.

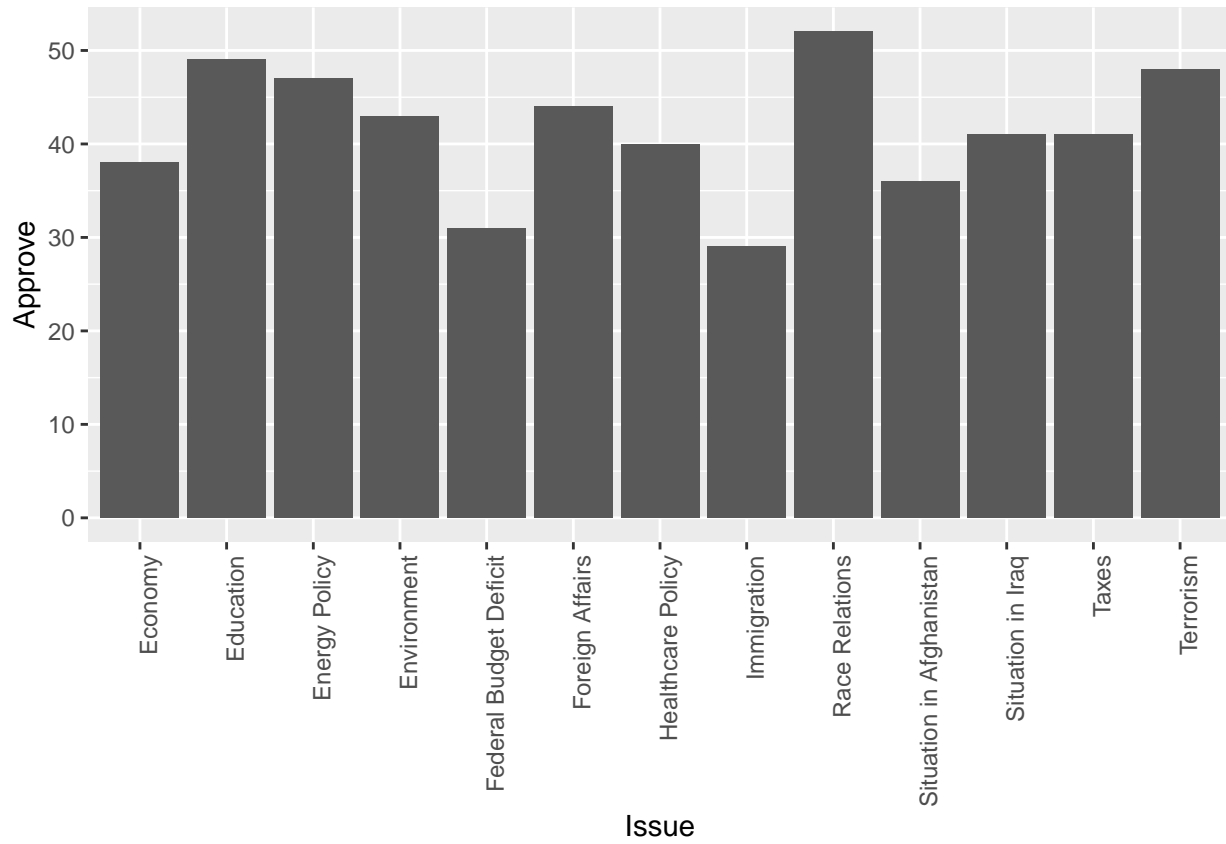
Data source We are using dataset from Data Source URL file.

Data structure:

```
## 'data.frame':   13 obs. of  4 variables:
## $ Issue       : chr  "Race Relations" "Education" "Terrorism" "Energy Policy" ...
## $ Approve     : num  52 49 48 47 44 43 41 41 40 38 ...
## $ Disapprove  : num  38 40 45 42 48 51 53 54 57 59 ...
## $ None       : num  10 11 7 11 8 6 6 5 3 3 ...
```

Construct Charts:

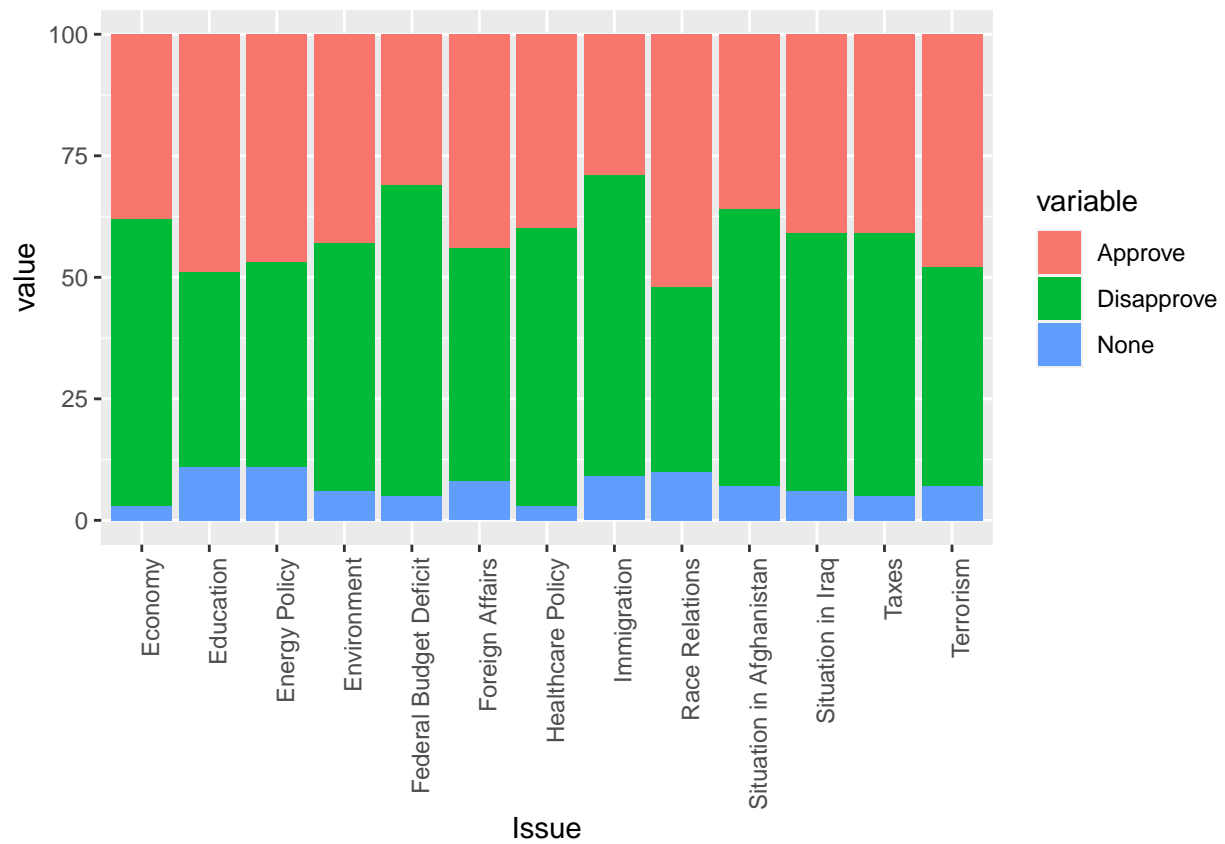
Bar Chart



Stacked Bar Chart

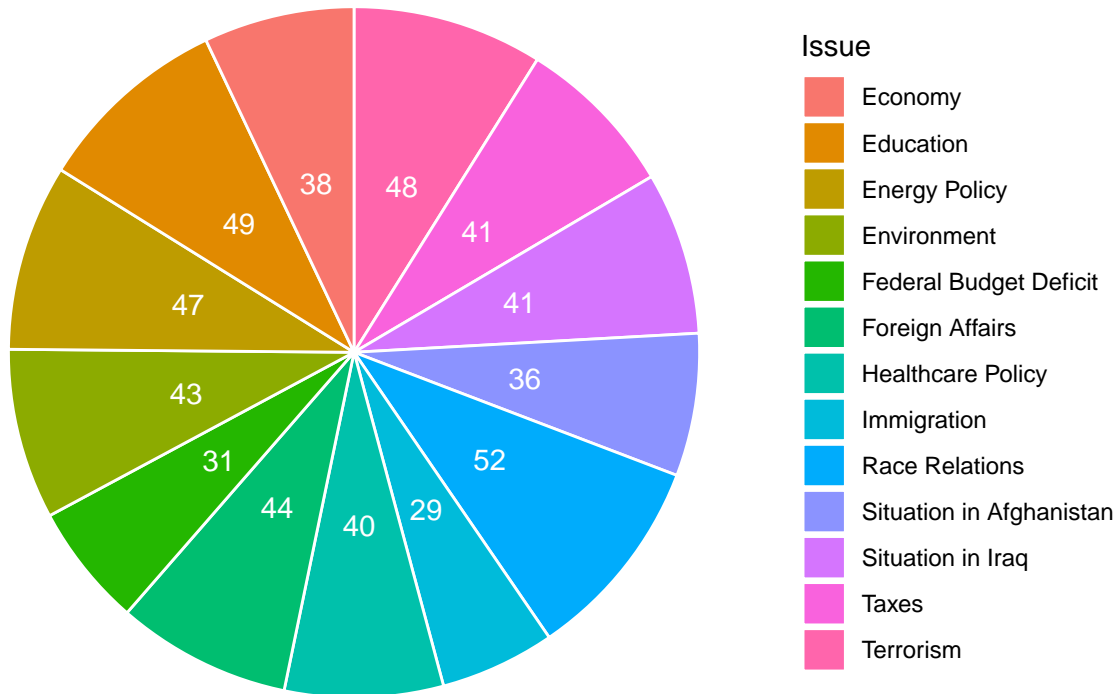
Used melt to tranform dataset

Using Issue as id variables



Pie Chart : Issue Approve Rating

To put the labels in the center of pies, I used $\text{cumsum}(\text{Approve}) - 0.5 * \text{Approve}$ as label position.



Donut Chart : Issue Disapprove Rating

To put the labels in the center of pies, I used $\text{cumsum}(\text{Disapprove}) - 0.5 * \text{Disapprove}$ as label position.

