Project $N^{o}1$ Math 567: Winter 2016

1 2016 National Republican Primary

This is the graphic of 2016 GOP Primary from Feb. 2015. Trends are as follow: we have Donald Trump's trend in red curve, Ben Carson's in orange curve, Ted Cruz's in green curve, Marco Rubio's show in purple.

A quick view of the chart we can see that there are around six candidates which are still running and only three of them are relevant. A more in depth analysis show that Donald Trump is leading the race although he got into the race late(April 2015). He remain unknown during the first two months, before gaining popularity at a very fast pace and keep growing until now with 37%. Whereas, Ben Carson had lead the second place with a growing popularity from August to November where his popularity attain a pick at 20% and then drop bellow 10 for some reasons. And Ted Cruz,, who has his popularity below 10% flat since Feb. 2015 have started growing in popularity since November 2015, which might be cause by Ben Carson's falling and Republican need a second runner to trust. The others runners have had a pretty flat popularity which evolve around an average of 10%.

One important thing to notice is that lot of Republican Candidates haven't drop out yet.

The Script

- 2 2016 National Democratic Primary
- 3 2016 South Carolina Republican Presidential Primary

4 President Obama's Job Approval

The Chart bellow of Obama's job approval since the start of his Presidency shows in red the approval rate, in green the disapproval rate from late 2008 to February 2016.

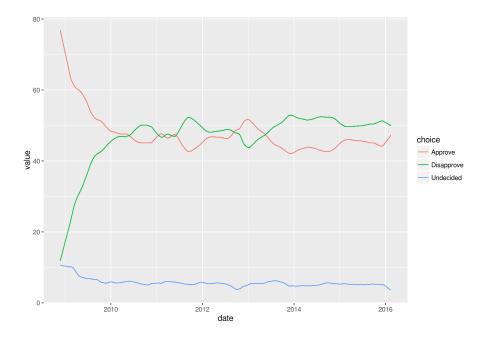


Figure 1: Caption here

From late 2008 the approval rate start high at about 80 percent, while the disapproval rate start as low as about 15 percent. The approval rate begin to decrease very fast whereas, oppositely the disapproval increased also at a fast rate until early 2010. From 2010 to now those have flatten at about 50 percent with some minor up and down.

The Script

The R Script used to produce this graph is shown bellow

5 Congress Job Approval

This chart bellow shows the American Congress job approval rating since the beginning of President Obama's presidency. In red is the approval rate and in green the disapproval rate.

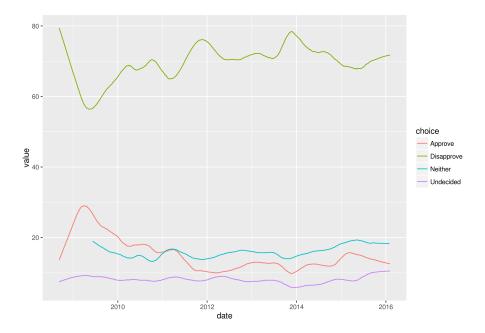


Figure 2: Caption here

The analysis of this chart show that from late 2008 the disapproval rate was hight to around 80 percent while the approval rate was very low at about 15 percent. And the approval rate began increasing at a fast pace before attaining his pick at around 30 percent, whereas in the opposite the disapproval rate started rapidly decreasing until attaining a minimal value of about 55 percent. Then from 2009 to mid 2011 the approval and disapproval rate evolve at a lower pace in opposite direction with an increase of disapproval to truthfully 78 percent and a decrease of approval to around 12 percent. From there those rate have flatten until now at about the 72 percent an 11 percent.

The Script

```
slug <- "congress-job-approval"
### polster Chart
chart_congress <- pollstr_chart(slug)</pre>
```