Loan EDLD 651 Lab 3

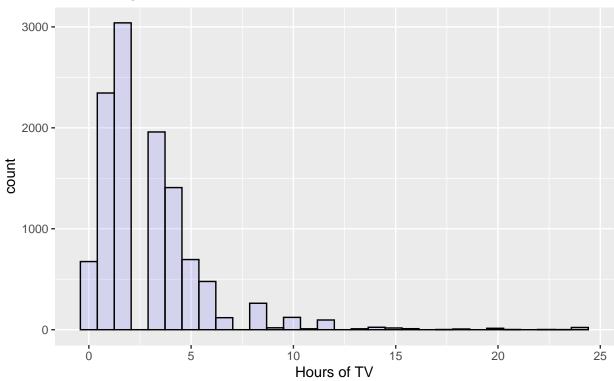
Chris Loan

- 1. Run the following code to load the tidyverse.
- 2. Run the following lines of code to view and read about the data we'll use for this lab.

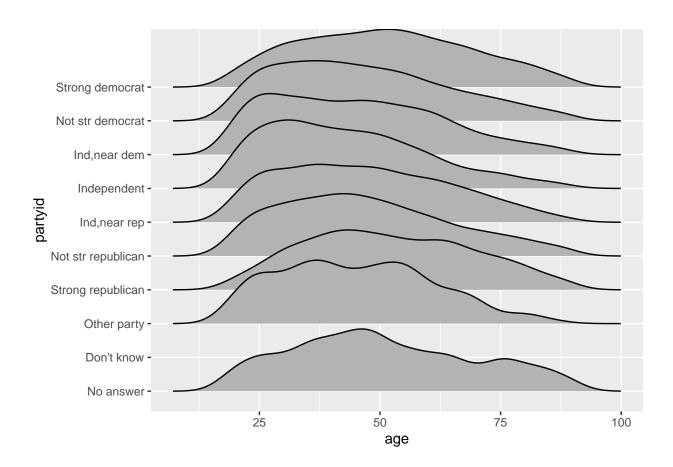
Comment out line 26 after you run it, but puting a # at the start.

- 2. Use ggplot to create a histogram of twhours. The plot should:
- Include a small amount of transparency so gridlines are visible under the histogram.
- Be a different color than the default
- Include meaningful axis labels
- Have a title and a subtitle

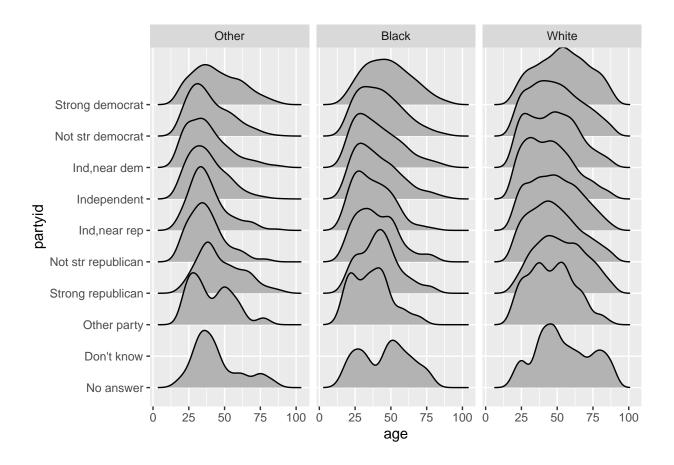
Counts of TV hours made from gss_cat dataset



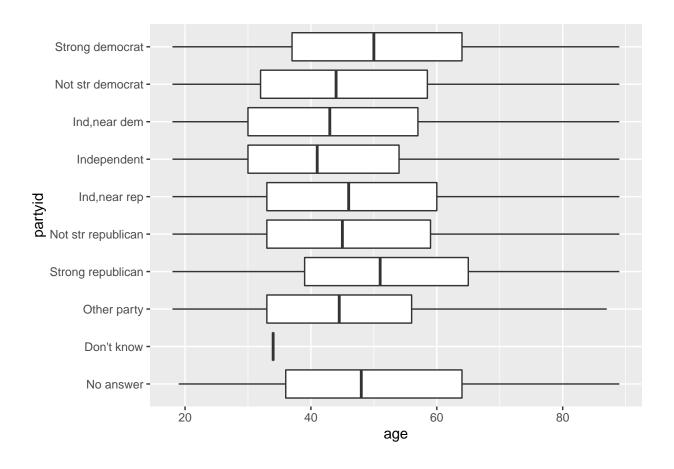
3. Create a ridgeline density plot of age by partyid. Do you notice any strong differences by party affiliation?

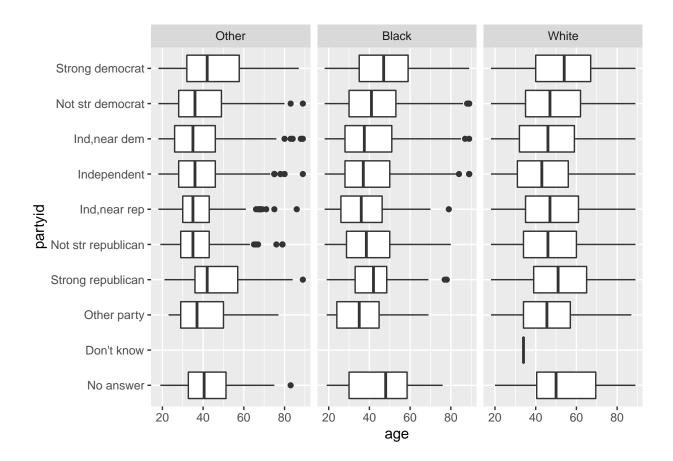


- * With only visual inspection, it's difficult to tell (and I feel I'm not good at density ridges yet; i * Though, it appears that older people are more likely to endorse strong affiliation with a party, comp
- - 4. Modify the plot from Question 3 to produce separate ridgeline densities by race. Do you see any patterns?



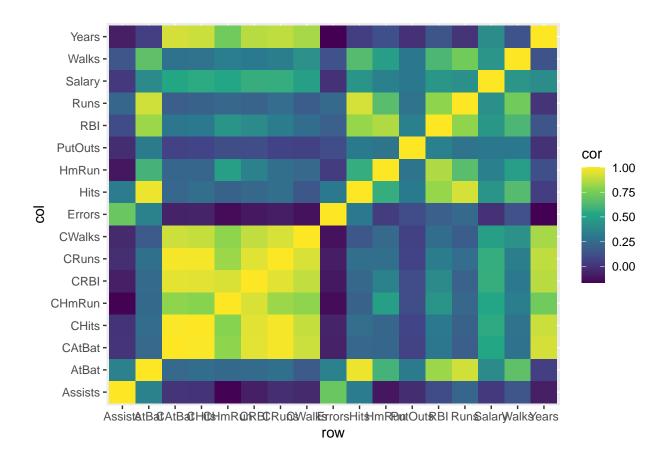
- * To me, I still see the same pattern, with more partisan endorsement as age increases.
- * This trend appears similar across age, but again, I'm not certain it is significant.
 - 5. Replicate the plots from Questions 3 and 4, but this time displaying the relations with boxplots (i.e., one boxplot from Question 3 and one boxplot for Question 4 in the chunk below). Which do you think displays the relation more clearly? Why?



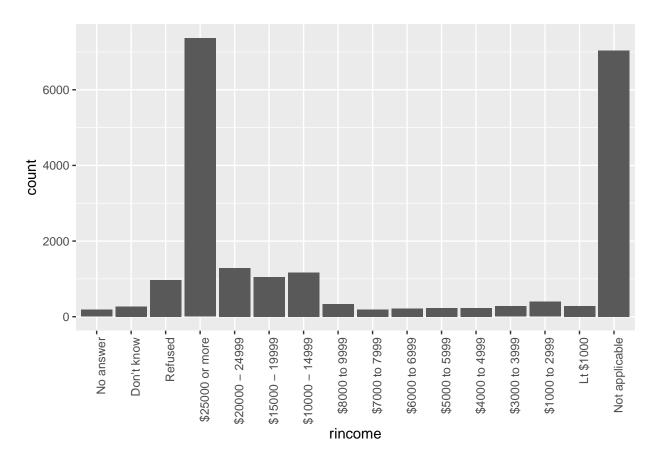


- * I personally prefer the boxplots, but that's mainly because I'm more confident in interpretting them.
- st I think the density plots are nice for showing a distribution is normal (or follows another distribut
 - 6. Run the following lines of code to get a correlation table as a data frame.

Use the correlation table to create a heatmap using geom_tile. Change the colors to one of the four viridis palettes. What does the heatmap help you see?



7. The code below will produce a barplot.



Use the code below to create a new data set - gss_cat_new - that redefines the rincome variable so that Not applicable is displayed first, followed by No answer, Don't know, Refused, and then each income category from lowest to highest. Once you've redefined the factor variable, re-produce the plot above by running the ggplot code at the bottom of the chunk. The plot should have Not applicable closest to the y-axis, then No answer, Don't know, etc.

