Lab 3

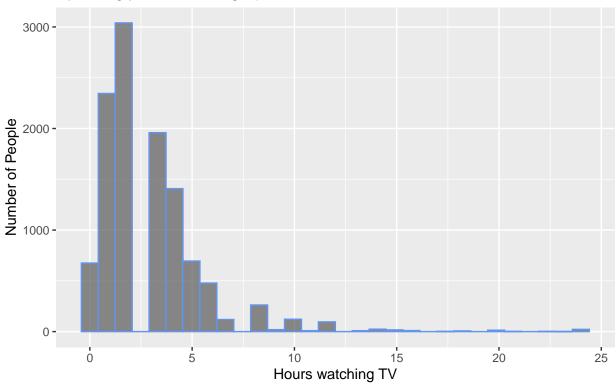
Tess

- 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.

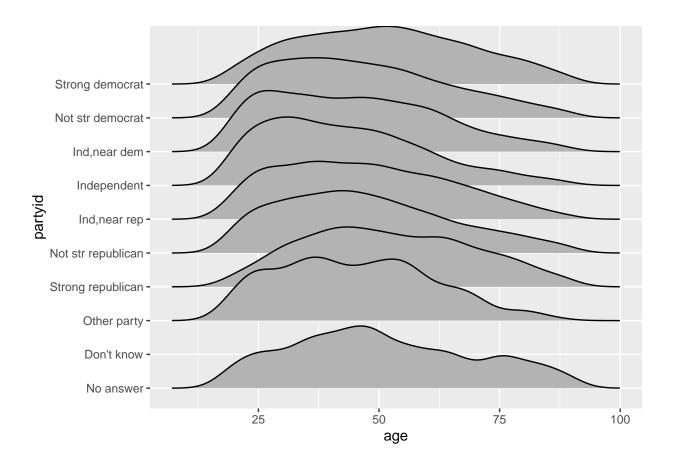
Comment out line 26 after you run it, but puting a # at the start.

- 2. Use ggplot to create a histogram of tvhours. 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

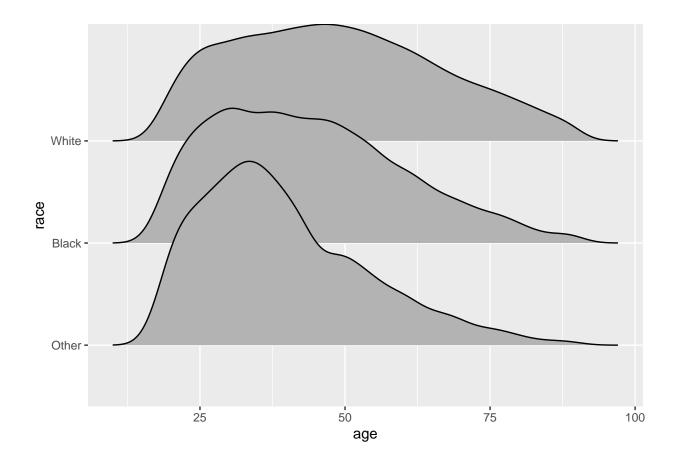
Number of TV hours watched By a largly white demographic



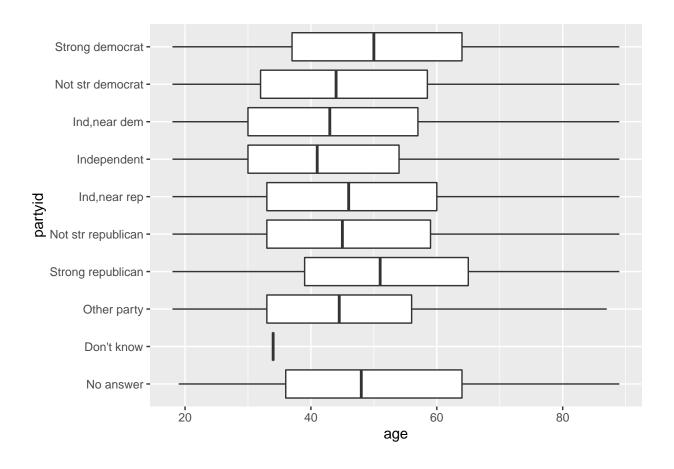
3. Create a ridgeline density plot of age by partyid. Do you notice any strong differences by party affiliation?

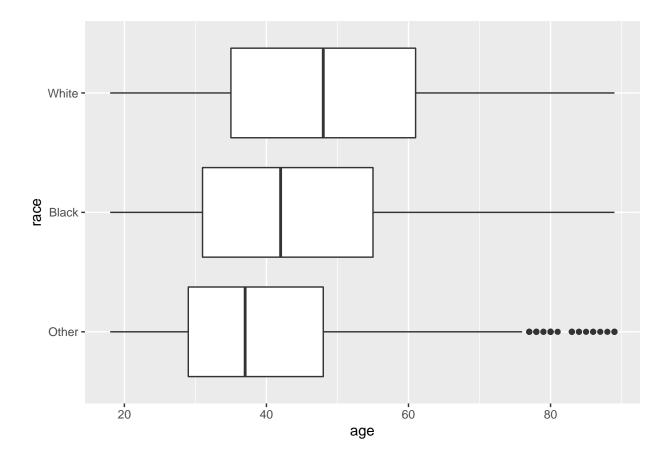


4. Modify the plot from Question 3 to produce separate ridgeline densities by race. Do you see any patterns?



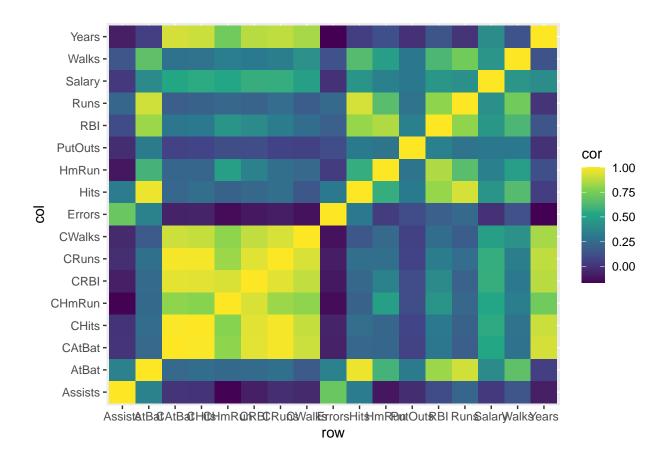
5. Replicate the plots from Questions 3 and 4, but this time displaying the relations with boxplots (i.e., one boxplot from Question 3 and one boxplot for Question 4 in the chunk below). Which do you think displays the relation more clearly? Why?



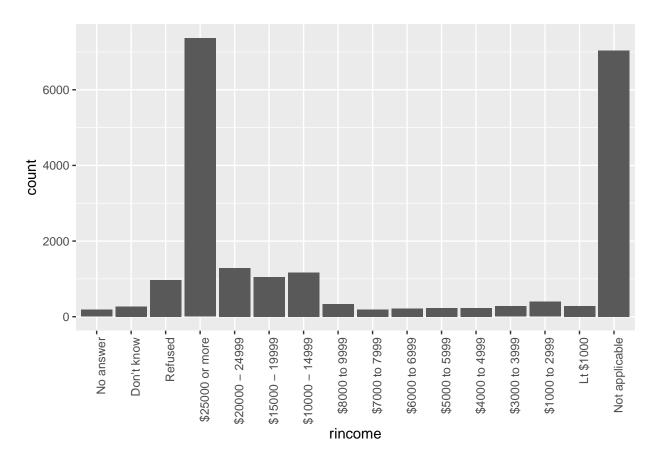


6. Run the following lines of code to get a correlation table as a data frame.

Use the correlation table to create a heatmap using <code>geom_tile</code>. 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.

