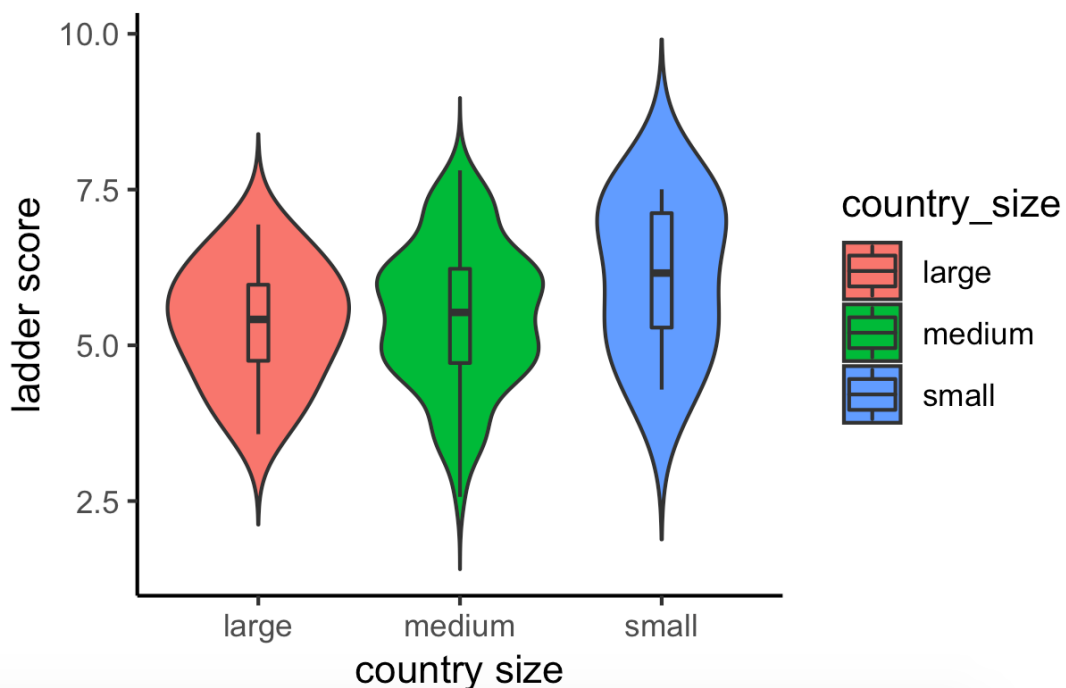


Week 5 Practice

Elena Leib & Willa Voorhies

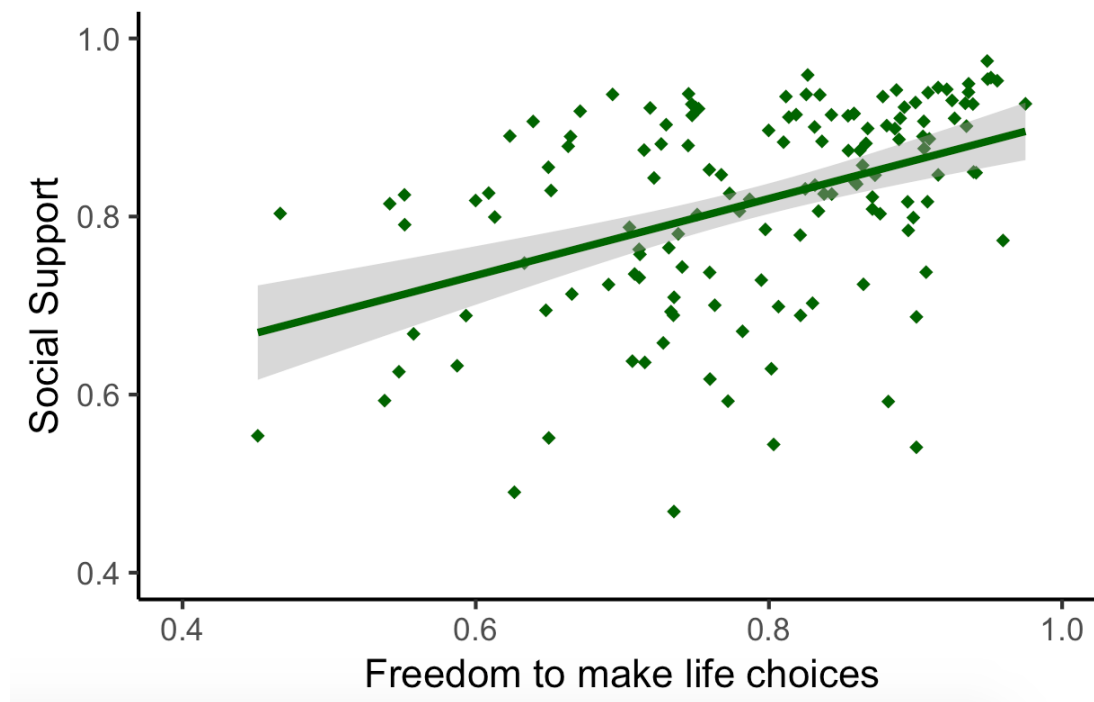
This week, you will be working with data from the 2020 World Happiness Report. They use a measure called “ladder score” to measure happiness in countries. They also collect a bunch of other measures for each country. We have also included population and the new variables you created last time.

- 1) Load in world-happiness_2020.csv and look at your data
- 2) Create a violin plot relating happiness levels to social support. Use ladder_score_cat as the x-value and Social_support as the y-value.
- 3) Is this relationship between social support and happiness the same for all country sizes? (hint: Remember the categorical country_size variable you created last time).
- 4) Recreate the following violin plot looking at ladder score by country size.



- 5) Customize the above plot in the following ways:
 - a) Change the y-axis to go from 0 - 10
 - b) Change the color scheme to a color of your choosing

- c) Remove the legend because it is redundant by adding the following object to the bottom of your ggplot code: `theme(legend.position = "none")`
- 6)
- i) Recreate the plot below:
- Hint: we've set a few options in our scatter plot object.
- `color = "dark green" and shape = "diamond"`



- ii) Include the option `se = FALSE` in your regression line object. What does this do?
- 7) Create your own plot to look at two or more variables of interest. Select the appropriate geometric object for the type of data and add your own customizations.