

R for Economics and Social Science Research

WORKSHOP

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WORKSHOP 2

1. Create a side-by-side bar plot with *region* on the X-axis and *corrupt_level* as fill color using the cross tabulation of *corrupt_level* and *region* that you have created in Workshop No. 1. Provide a brief description of the plot.
2. Create a bar plot of the mean of *healthy life expectancy* for all three regions in Asia (East, Southeast, South). Add errors bars based on standard error of the mean. Which region has the highest expectancy? lowest expectancy?
3. Using the 2022 and 2023 data sets, generate two separate interactive scatter plots of *GDP* and *happiness score*. Can money buy happiness?
4. Generate an animated scatter plot of *freedom to make life choices* and *happiness score*. Use *year* as frame in the animation.
5. Create density plot of all continuous variables and check if each has a normal (bell-shaped) distribution.
6. Using the 2023 data set, is there a significant (statistical) difference between the mean happiness score of country with *low* and *high* poverty? Check all necessary assumptions of the test that you are using.