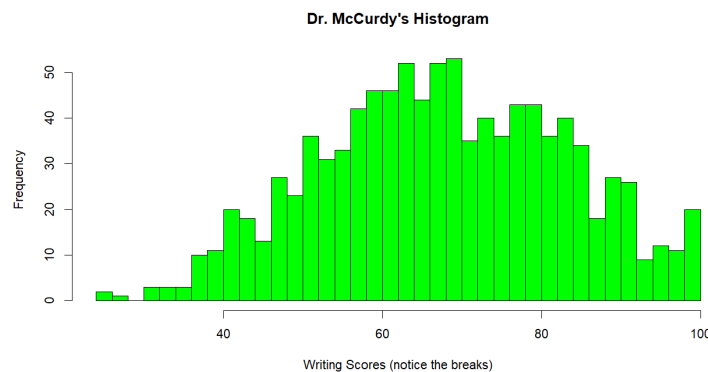

Homework for Lecture 15: Visualizations

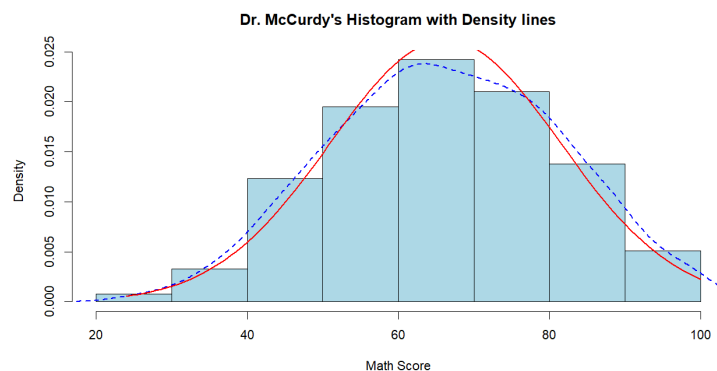
The following homework assignment should be completed as an RMarkdown document. Place R commands inside R code chunks and use the written “white space” of the document to explain what you are doing and what the output is telling us. Please submit both the knitted RMarkdown document (`.docx`) and the `.Rmd` file. You may discuss the assignment with your classmates, but your write-up and work should be done independently of your classmates. The use of AI is considered a violation of academic policy for this assignment. When in doubt, ask me what is and is not allowed.

For this assignment, you will recreate several plots using datasets from the **MSMU** library. Make sure you load the **MSMU** library in one of your opening chunks of code. Questions 1–6 use the **exam_data** dataset. Writing the word **elephant** as your first plot’s y-axis label and submitting it on time will get extra points.

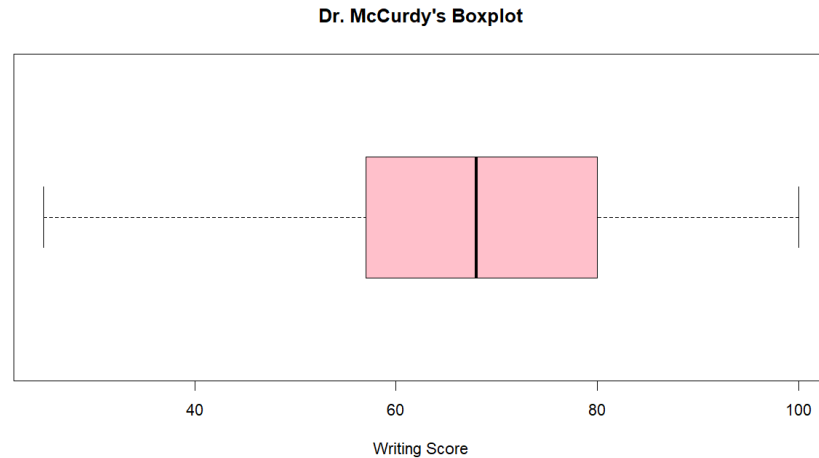
1. Using the **exam_data** dataset, recreate the following plot with your name as the title. Then explain in a single sentence what information the reader should take away from this picture.



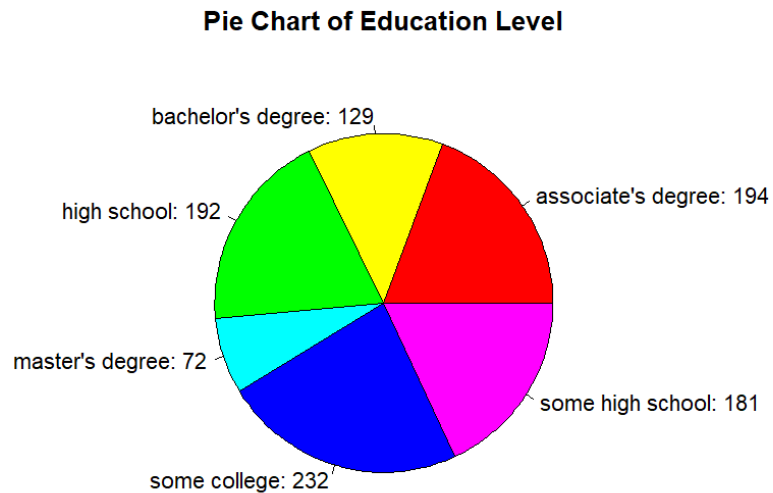
2. Using the **exam_data** dataset, recreate the following plot with your name as the title. Then explain in a single sentence what information the reader should take away from this picture.



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3. Using the `exam_data` dataset, recreate the following plot with your name as the title. Then explain in a single sentence what information the reader should take away from this picture.

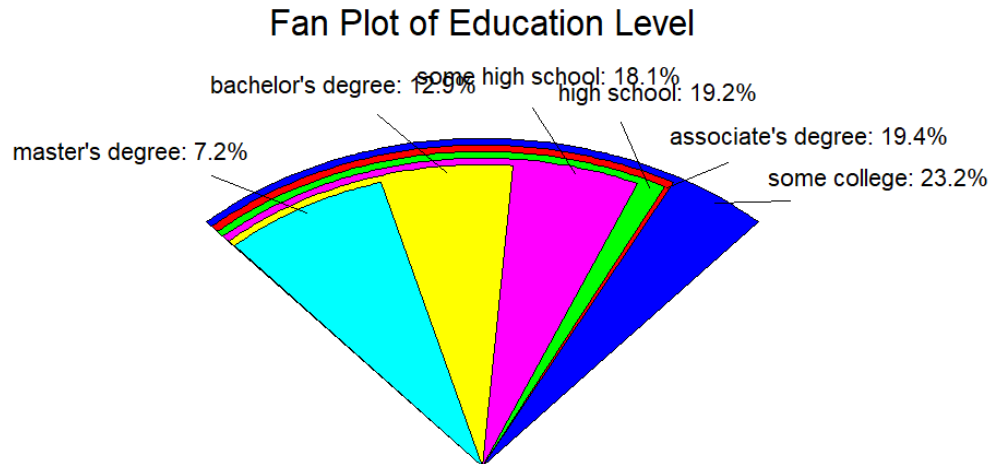


4. Using the `exam_data` dataset, recreate the following plot. The blue line represents the normal distribution. Then explain in a single sentence what information the reader should take away from this picture.



**** MORE PROBLEMS ON PAGE 3 ****

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5. Using the `exam_data` dataset, recreate the following plot. Then explain in a single sentence what information the reader should take away from this picture.



6. Using the `exam_data` dataset, recreate the following plot with your name as the title. Then explain in a single sentence what information the reader should take away from this picture. Do not worry if all of the names are not visible at the bottom; opening the plotting window may make them easier to see.

