Clarifications Organized by Problem (12/09/2022 11:20PM)

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All Sections

I've been plunking clarifications down as people ask. It might not be clear which answer goes with which problem. SO, I organized them by problem.

DATA DESCRIPTION:

- http://jeremyentner.com/3040_Final_Data/HtmlExample.html

FUNCTIONS:

1. To be absolutely clear, your reference for functions covered in class are those that appear in the NOTES PDF posted on CANVAS, not the scratch work notes.
   - Pipes were not covered during class. THey can not be used
   - HTTR was not covered during class. It can not be used
   - Scale and Coord functions that are related to graph aesthetics may be used regardless of this rule. There are many different versions of these swapping out the aesthetic. You can use any of these.
   - Any arguments and the input/values produced by the read_csv() and read.csv() dialogue menus(Import Dataset Menu) may be used as part of the read_csv() and read.csv() functions. Some of the argument values these produced are functions. These functions can be used as long as they are part of an argument for the read_csv() or read.csv() function.
   - as.numeric(), as.logical(), as.character(), as.double(), (the as.datatype varieties) can be used.
   - patchwork can be used.
   - you can not use the plot() function
   - If you are not sure, ASK. Assume that a function is not allowed until you are told otherwise.
   - BEFORE YOU ASK, YOU SHOULD CHECK THE NOTES.
   - nrow ncol were not covered.

RANDOM STATEMENTS:

- Alpha = .5 is fine
- You can use position = "fill"
- You should not wait until the day your exam is due to press the KNIT button for the first time. You should KNIT your document periodically to insure that your entire document will knit together. Not just that a code chunk will run.

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PROBLEM #1

- Questions 1- 6 are RMD questions. Each should have its own page in the final result. All will have the header listing the problem number and name. For 1,2,5,6 the rest of the page would be blank.
- RMarkdown questions should reference the RMARKDOWN example files.

PROBLEM #2

- Questions 1- 6 are RMD questions. Each should have its own page in the final result. All will have the header listing the problem number and name. For 1,2,5,6 the rest of the page would be blank.
- RMarkdown questions should reference the RMARKDOWN example files.
- Use all six header levels. That is what I did.

PROBLEM #3

- Questions 1- 6 are RMD questions. Each should have its own page in the final result. All will have the header listing the problem number and name. Problem 3 would have the list in addition to the header line on its page.
- In problem 3, I am referring to lists line this that appear in the text for problem #1. Text lists, not the list() function in R.
- RMarkdown questions should reference the RMARKDOWN example files.
- Problem 3 - You can use numbers or letters or roman numerals to make the ordered list. I just want to see that you can make a list in markdown.
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PROBLEM #4

- Questions 1- 6 are RMD questions. Each should have its own page in the final result. All will have the header listing the problem number and name. Problem 4 would have the Problem 4 header and the star trek quote.
- RMarkdown questions should reference the RMARKDOWN example files.

PROBLEM #5

- Questions 1- 6 are RMD questions. Each should have its own page in the final result. All will have the header listing the problem number and name. For 1,2,5,6 the rest of the page would be blank.
- RMarkdown questions should reference the RMARKDOWN example files.

PROBLEM #6

- Questions 1- 6 are RMD questions. Each should have its own page in the final result. All will have the header listing the problem number and name. For 1,2,5,6 the rest of the page would be blank.
- RMarkdown questions should reference the RMARKDOWN example files.

PROBLEM #7

- READ: http://jeremyentner.com/3040_Final_Data/HtmlExample.html
- If you can not figure out how to import the LEAVES.RDATA set in Problem #7, then you will not be able to do the subsequent questions. You will not receive credit for the subsequent related questions if you can not complete Problem #7. Similar for other questions that require importing data.
- Problem #7: IMPORTING RDATA - LEAVES.RDATA ----- LEAVES.RDATA will exist on my computer. You do not need to write code to download the file to my computer. You will want to download it and store it as I have described on your computer, so that you can write your code to access it from a folder on the your computer and on my computer when I run your code. You do not need to create any folders

PROBLEM #8

- Problem #8: I am asking about the length of a leaf. I modified the sentence to clear it up. The length of the leaf on the 50th line of LEAVES_3040 is ENTER_LENGTH_HERE.

PROBLEM #9

Nothing

PROBLEM #10

- Problem #10 - your result should be a single dataframe/tibble with a column for each variable and for each type of output. So, five columns. For a particular row, I should be able to see the combination of variable values. This can be done without creating separate dataframes/tibbles and combining them.
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PROBLEM #11

- Problem #11: It says " Each marker should not have its own graphing command." Markers are triangles. Canvas won't let me nicely put each command on seperate lines like you should be doind

1. This means that your graphing commands should NOT look like this: OtherGraphingCommands + Marker1 + Marker2 + Marker3 + marker4 + Marker5 + ... + maybeOtherGraphingCommands.
2. This means that your graphing commands should look like this: OtherGraphingCommands + MARKERCOMMAND + maybeOtherGraphingCommandsThatDontCreateMarkers.

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PROBLEM #112

- Read the entire line with 6, 8, 10 in it. "Homework 8 might have something useful. 6, 8, 10 were the sizes used." That is all I have to say about that

PROBLEM #13

Nothing

PROBLEM #41

- I have been asked if the data fed into the function will be ordered. The problem has you creating a function and applying it to the leaf lengths. Ask yourself, would your function work properly on the leaf lengths as given? (You function should work on any dataset, but the leaf data is a dataset, so would it work on that dataset as given.)
- Problem #14: Graduates
  - Name the components of your results min, q1, med, q3, max.
  - The first quartile is the median of the data values in your ordered list(small>>>large) that are to the left of the overall median. Include the overall median in these data values if there is an odd number of values in the overall data set.
  - 1,2,3,**3**,3,6,7 >>>>>> Median = **3**, q1 = median of 1,2,3,**3** = (2+3)/2 =2.5, q3 = median of **3**,3,6,7 = (3+6)/2 =4.5
  - 1,2,**3**,**3**,6,7 >>>>> Median =(3+**3**)/2 =3 , q1 = median 1,2,3 = 2, q3 = median **3**,6,7 = 6
  - 1,2,3,4,6,7 >>>>> Median =(3+4)/2 =3.5 , q1 = median 1,2,3 = 2, q3 = median **4**,6,7 = 6
  - This is the definition I want you to use. Use my definition.
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PROBLEM #15

Nothing

PROBLEM #16

- There are 4 files, and there is no overriding pattern. You probably want to clean up each individual file.

PROBLEM #17

- Problem 17. This is the 'messiest data'. The problem is about cleaning it up. However your code should NOT be customized for each file. Each file should have the same set of commands applied to it. Your code should not look like this
  A. for file XYZ001 do this
  B. for file XYZ002 do this
  C. for files XYZ003-XYZ100 do this
  D. for file XYZ101 do this
  E. etc
  F. Think, if you did the above, and I swapped names on file s XYZ002 and XYZ003 , your code would not work.
- As the problem states, "Your final answer should work regardless of the data files posted on the website. I should be able to remove some files, or add files that are consistent with the ones given here, and your code should still work."

PROBLEM #18

Nothing

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