

# Final Grade Reflection

Jamie Thompson

**My Grade:** I believe my grade equivalent to course work evidenced below to be an A.

## Learning Objective Evidence:

**WD-1:** Challenge 4, Evidence 1  
**WD-3:** Challenge 4, Evidence 2  
**DVS-5:** Challenge 4, Evidence 3  
**DVS-2:** Lab 5, Evidence 1  
**PE-4:** All of challenge 7  
**DVS-1:** Challenge 7, Evidence 2 &  
**PE-3:** Lab 8, Evidence 1  
**R-1:** All of Lab 9  
**DVS-7:** Lab 9, Evidence 1  
**DSM-2:** Lab 9, Evidence 3  
**DVS-6:** Lab 9, Evidence 4  
**WD-4:** Lab 9, Evidence 5 &

**WD-6:** Lab 4, Evidence 1  
**WD-2:** Challenge 4, Evidence 2  
**WD-5:** Challenge 4, Evidence 3  
**DVS-1:** Lab 5, Evidence 1 &  
**R-2:** All of challenge 7  
**WD-4:** Challenge 7, Evidence 1 &  
**PE-2:** Lab 8, Evidence 1  
**DSM-1:** PA 9, Evidence 1  
**R-3:** All of Lab 9  
**DVS-4:** Lab 9, Evidence 2  
**DVS-3:** Lab 9, Evidence 4  
**PE-1:** Lab 9, Evidence 4  
**WD-7:** Lab 9, Evidence 5

- *How I accomplished 2 columns* <https://quarto.org/docs/authoring/figures.html>

## Additional Evidence:

I have invested a lot of time and effort into this class and I believe it shows.

First, I have achieved S marks on nearly all my assignments except for 1, as well as have submitted a majority of my assignments on time (except for a few preview activities).

Second, I have extended my thinking on all my challenge problems, taking what I learned in class and finding solutions to those novel problems by experimenting and trying different approaches even if my end result didn't quite work out. When that happened, I would ask for help in my assignment and revise it next week with the suggestions given.

### • Extended Thinking Evidence:

- Challenge 4 **REVISED** for portfolio
- Challenge 7
- Lab 8 (styling the song)
- Lab 9 (after table formatting)

Third, as briefly mentioned in my second point I have demonstrated revising of my thinking. Whenever I received feedback to revise my assignment I would. Most of the time they were small revisions of me misinterpreting a question or not using something correctly. I did have one revision during week 7 for Lab 7 where I used a superseded function, and remembered I needed to check that before I use a function

I find. Also in that assignment I received feedback of redundancy, and remembered I could make a temp variable in a function or calculation so I do not have to repeat lines of code (and thus having that repeated line of code run multiple times to get the same calculation). This is imaged below!

```
# Function to rescale a single vector between 0 and 1.
rescale_01 <- function(vect) {
  stopifnot(is.numeric(vect),
            length(vect) > 1)

  numerator <- vect - min(vect, na.rm = TRUE)
  denominator <- max(vect, na.rm = TRUE) -
    min(vect, na.rm = TRUE)

  return(numerator / denominator)
}
```

Great function! I'd press you to think about the redundancy in your function. Is the same function being called multiple times? If so, how can you remove this redundancy?

```
# Function to rescale a single vector between 0 and 1.
rescale_01 <- function(vect) {
  stopifnot(is.numeric(vect),
            length(vect) > 1)

  min_value <- min(vect, na.rm = TRUE)

  numerator <- vect - min_value
  denominator <- max(vect, na.rm = TRUE) -
    min_value

  return(numerator / denominator)
}
```

Forth, I have demonstrated contributions to the classroom and my team. I was present for class and came prepared for class each week by doing the preview activities at least before each class. I also asked questions on behalf of my team and for myself when needed. Outside of class, I answered questions and gave helpful information on discord when I was able (see images below). As well as answer questions to my group members via a group chat whenever they had questions.



Jamie Thompson 11/12/2022 9:38 AM

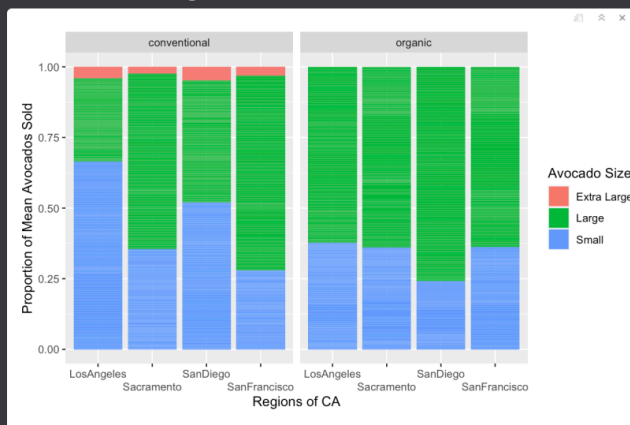
In case anyone wants to use the example used in class for changing text color within `ggplot` titles there was some missing information within the slides given in class: you need to install `ggtext` which allows `ggplot` to read `html` documentation! then you call on it with:

```
theme(plot.title = element_markdown())

title = str_c("Missing Fish Weights for ",
              "<span style = 'color:#A6CEE3'>**Trip 1**</span>",
              " and <span style = 'color:#1F87B4'>**Trip 2**</span>",
              subtitle = "by Section of Blackfoot River"
            ) +
  theme(plot.title = element_markdown())

Missing Fish Weights for Trip 1 and Trip 2
by Section of Blackfoot River
```

Hi Everyone, I'm struggling to reproduce the graph for #7. I've been able to get the general structure of it, but can't seem to get the fill argument of the `geom_bar` to stop sorting alphabetically. I want Small, Large, then Extra Large like the example. I've tried reversing the order of the column where I have the the Avocado Sizes, but nothing seems to work. Thanks



October 18, 2022



@ScottFB Hi Everyone, I'm struggling to reproduce the graph for #7. I've been able to get the general structure of it, but can't seem to ...

Jamie Thompson 10/18/2022 8:01 AM

I couldn't quite figure out that part either, however I could reverse the stacked graph order with `position = position_fill(reverse = TRUE)` instead of `position = "fill"` if that is what you used for the proportions.