Homework 4

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library(tidyverse)

## ── Attaching core tidyverse packages ──────────────────────── tidyverse 2.0.0 ──  
## ✔ dplyr 1.1.1 ✔ readr 2.1.4  
## ✔ forcats 1.0.0 ✔ stringr 1.5.0  
## ✔ ggplot2 3.4.2 ✔ tibble 3.2.1  
## ✔ lubridate 1.9.2 ✔ tidyr 1.3.0  
## ✔ purrr 1.0.1   
## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## ✖ dplyr::filter() masks stats::filter()  
## ✖ dplyr::lag() masks stats::lag()  
## ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

library(here)

## here() starts at /Users/katie/git/ENVS-193DS\_homework-04\_miller-katie

library(naniar)  
library(dplyr)

# reading in the data using here package  
fish <- read\_csv(here("data", "ntl6\_v12.csv"))

## Warning: One or more parsing issues, call `problems()` on your data frame for details,  
## e.g.:  
## dat <- vroom(...)  
## problems(dat)

## Rows: 349229 Columns: 15  
## ── Column specification ────────────────────────────────────────────────────────  
## Delimiter: ","  
## chr (8): lakeid, gearid, spname, sampletype, indid, fishpart, spseq, flag  
## dbl (5): year4, depth, rep, length, weight  
## lgl (1): sex  
## date (1): sampledate  
##   
## ℹ Use `spec()` to retrieve the full column specification for this data.  
## ℹ Specify the column types or set `show\_col\_types = FALSE` to quiet this message.

# filtering data frame to extract relevant info  
trout <- fish %>%   
 filter(spname %in% "TROUTPERCH") %>%   
 reframe(year = case\_when(spname == "TROUTPERCH" ~ year4),  
 species = case\_when(spname == "TROUTPERCH" ~ spname),  
 length = case\_when(spname == "TROUTPERCH" ~ length),  
 weight = case\_when(spname == "TROUTPERCH" ~ weight))

gg\_miss\_var(trout)

