

Module 2, Assignment 2

Ellen Bledsoe

2023-02-23

```
1. ## -- Attaching packages ----- tidyverse 1.3.1 --

## v ggplot2 3.3.5      v purrr 0.3.4
## v tibble 3.1.6       v dplyr 1.0.7
## v tidyr 1.1.4        v stringr 1.4.0
## v readr 2.1.1        v forcats 0.5.1

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()

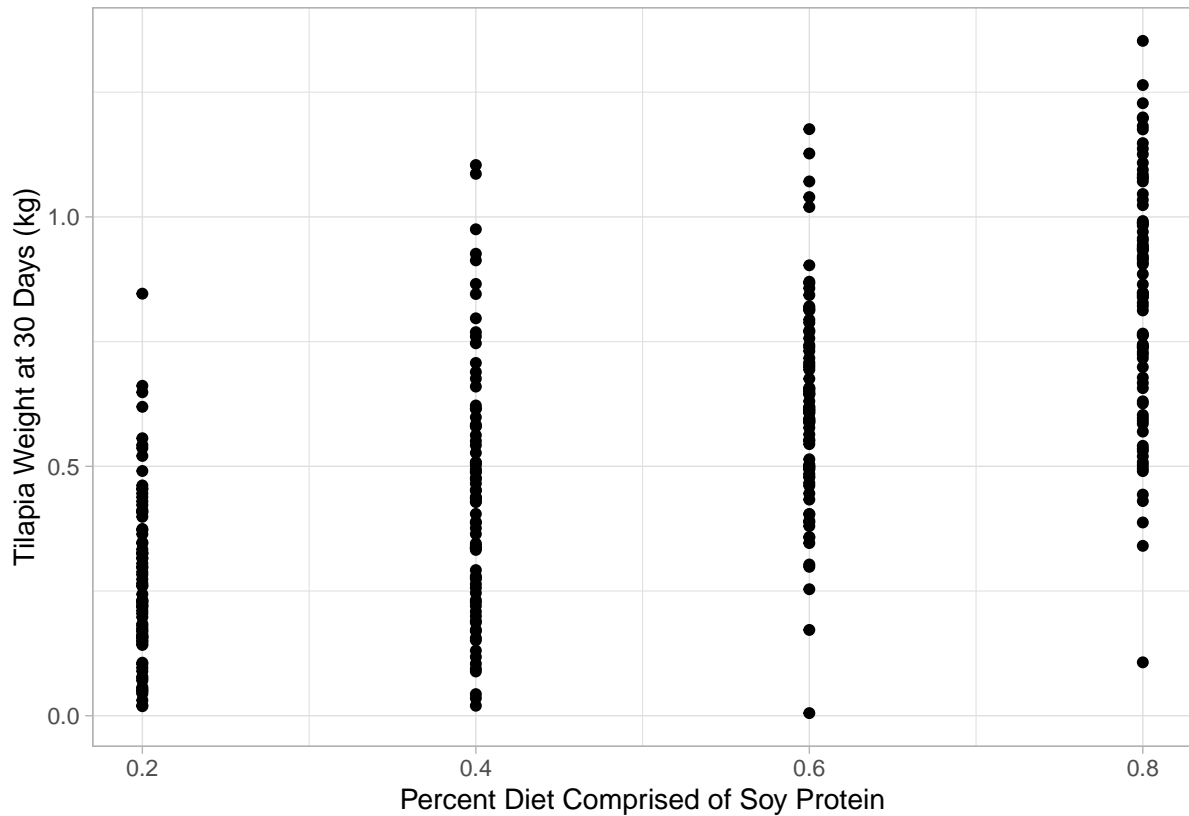
2. ## Rows: 320 Columns: 6
## -- Column specification -----
## Delimiter: ","
## chr (1): tank_category
## dbl (5): tank_id, fish_id, perc_soy_protein, day_30_weight, avg_tank_temp
##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.

## # A tibble: 6 x 6
##   tank_id fish_id perc_soy_protein day_30_weight avg_tank_temp tank_category
##   <dbl>   <dbl>         <dbl>         <dbl>         <dbl> <chr>
## 1      1      1          0.2          334.         77.2 warm
## 2      1      2          0.2          198.         77.2 warm
## 3      1      3          0.2          315.         77.2 warm
## 4      1      4          0.2          316.         77.2 warm
## 5      1      5          0.2           89.4         77.2 warm
## 6      1      6          0.2           74.7         77.2 warm

## # A tibble: 6 x 6
##   tank_id fish_id perc_soy_protein day_30_weight avg_tank_temp tank_category
##   <dbl>   <dbl>         <dbl>         <dbl>         <dbl> <chr>
## 1     16     315          0.8         1228.         76.1 warm
## 2     16     316          0.8          630.         76.1 warm
## 3     16     317          0.8          508.         76.1 warm
## 4     16     318          0.8          443.         76.1 warm
## 5     16     319          0.8          495.         76.1 warm
## 6     16     320          0.8         1078.         76.1 warm

5.
```

```
6. ## # A tibble: 4 x 2
  ##   perc_soy_protein mean_weight_kg
  ##   <dbl>         <dbl>
  ## 1         0.2         0.276
  ## 2         0.4         0.441
  ## 3         0.6         0.618
  ## 4         0.8         0.829
```



```
7.
8. ## 'summarise()' has grouped output by 'perc_soy_protein'. You can override using
  ## the '.groups' argument.
```

```
## # A tibble: 8 x 3
## # Groups:   perc_soy_protein [4]
##   perc_soy_protein tank_category mean_weight_kg
##   <dbl> <chr>         <dbl>
## 1         0.2 cold         0.279
## 2         0.2 warm         0.272
## 3         0.4 cold         0.420
## 4         0.4 warm         0.448
## 5         0.6 cold         0.617
## 6         0.6 warm         0.620
## 7         0.8 cold         0.824
## 8         0.8 warm         0.833
```

