

Module 2, Assignment 2

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1.

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr      1.1.4      v readr      2.1.5
## v forcats    1.0.0      v stringr   1.5.1
## v ggplot2    3.4.4      v tibble    3.2.1
## v lubridate  1.9.3      v tidyr     1.3.1
## v purrr      1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

2.

```
## Rows: 320 Columns: 6
## -- Column specification -----
## Delimiter: ","
## chr (2): soy_protein, tank_category
## dbl (4): tank_id, fish_id, avg_tank_temp, day_30_weight
##
## 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 soy_protein avg_tank_temp tank_category day_30_weight
##   <dbl>   <dbl> <chr>           <dbl> <chr>           <dbl>
## 1      1      1 1 low              77.2 warm             334.
## 2      1      2 low              77.2 warm             198.
## 3      1      3 low              77.2 warm             315.
## 4      1      4 low              77.2 warm             316.
## 5      1      5 low              77.2 warm              89.4
## 6      1      6 low              77.2 warm              74.7
```

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

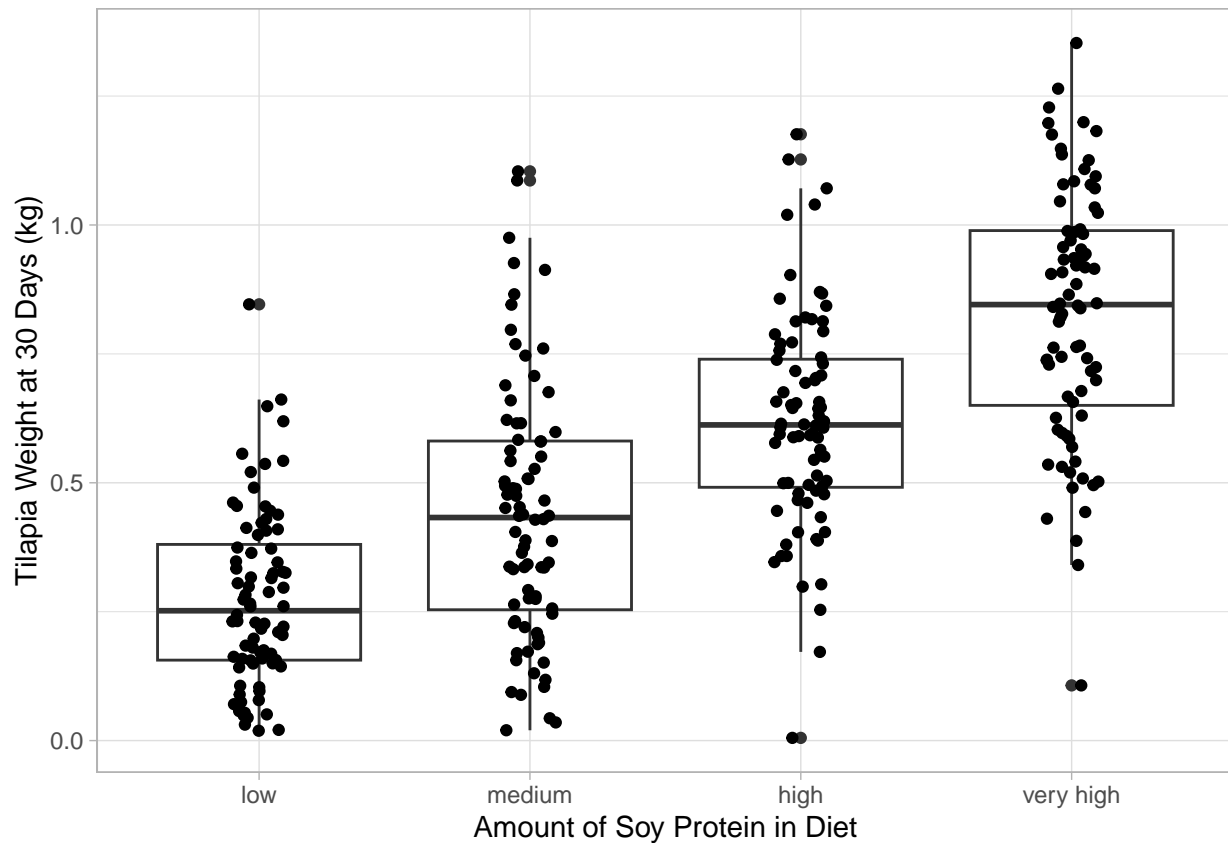
5.

```
##      tank_id fish_id soy_protein avg_tank_temp tank_category day_30_weight
## 1          1         1         low          77.2           warm    333.61062
## 2          1         2         low          77.2           warm    197.65859
## 3          1         3         low          77.2           warm    315.16449
## 4          1         4         low          77.2           warm    316.45632
## 5          1         5         low          77.2           warm     89.43901
## 6          1         6         low          77.2           warm     74.74951
## 7          1         7         low          77.2           warm    141.90766
## 8          1         8         low          77.2           warm     20.77609
## 9          1         9         low          77.2           warm     57.29804
## 10         1        10         low          77.2           warm    158.51861
##      day_30_weight_kg
## 1          0.33361062
## 2          0.19765859
## 3          0.31516449
## 4          0.31645632
## 5          0.08943901
## 6          0.07474951
## 7          0.14190766
## 8          0.02077609
## 9          0.05729804
## 10         0.15851861
```

6.

```
## # A tibble: 4 x 2
##   soy_protein mean_weight_kg
##   <fct>         <dbl>
## 1 low          0.276
## 2 medium       0.441
## 3 high         0.618
## 4 very high    0.829
```

7.



8.

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

```
## # A tibble: 8 x 3
## # Groups:   soy_protein [4]
##   soy_protein tank_category mean_weight_kg
##   <fct>        <chr>          <dbl>
## 1 low         cold            0.279
## 2 low         warm            0.272
## 3 medium      cold            0.420
## 4 medium      warm            0.448
## 5 high        cold            0.617
## 6 high        warm            0.620
## 7 very high   cold            0.824
## 8 very high   warm            0.833
```

9.

