

Module 2, Assignment 2

Ellen Bledsoe

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1.

```
## -- Attaching packages ----- tidyverse 1.3.0 --
```

```
## v ggplot2 3.4.1    v purrr  1.0.1
## v tibble  3.2.0    v dplyr  1.1.0
## v tidyr   1.3.0    v stringr 1.5.0
## v readr   2.1.4    v forcats 1.0.0
```

```
## -- 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
```

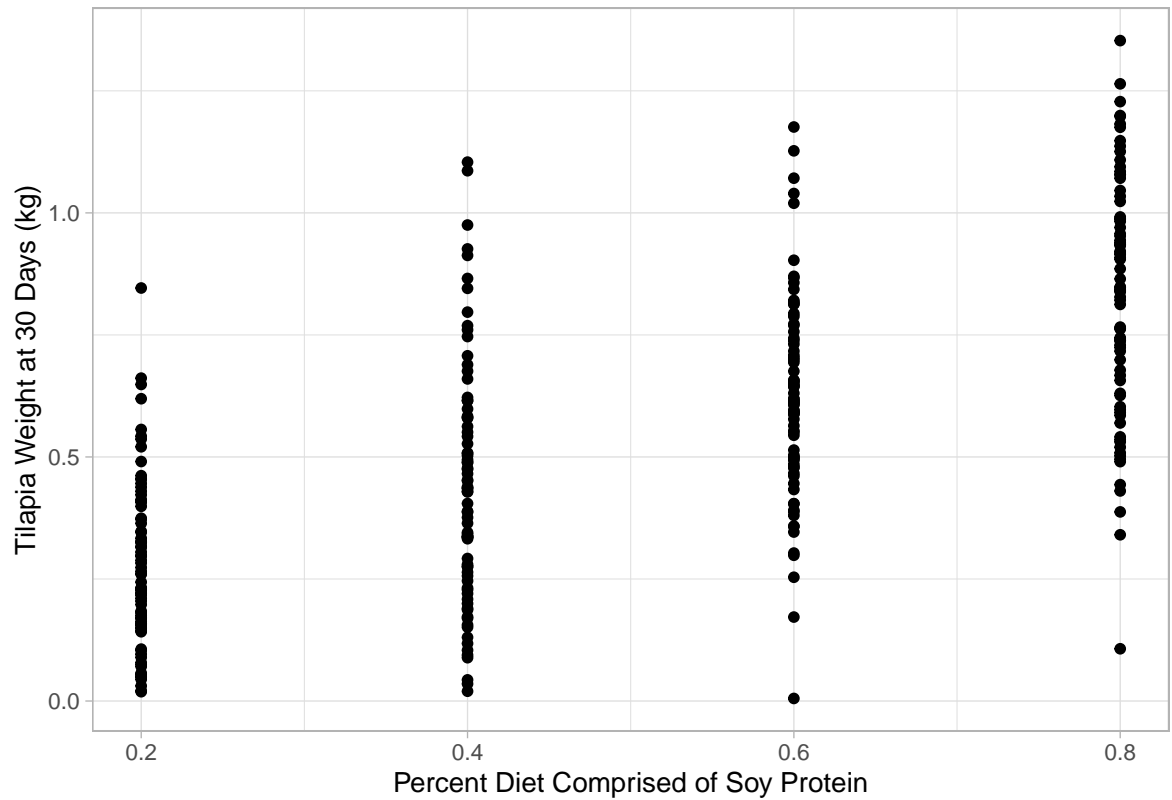
```
## 4     16     318           0.8           443.          76.1 warm
```

```
## 5     16     319           0.8           495.          76.1 warm
```

```
## 6     16     320           0.8          1078.          76.1 warm
```

3.

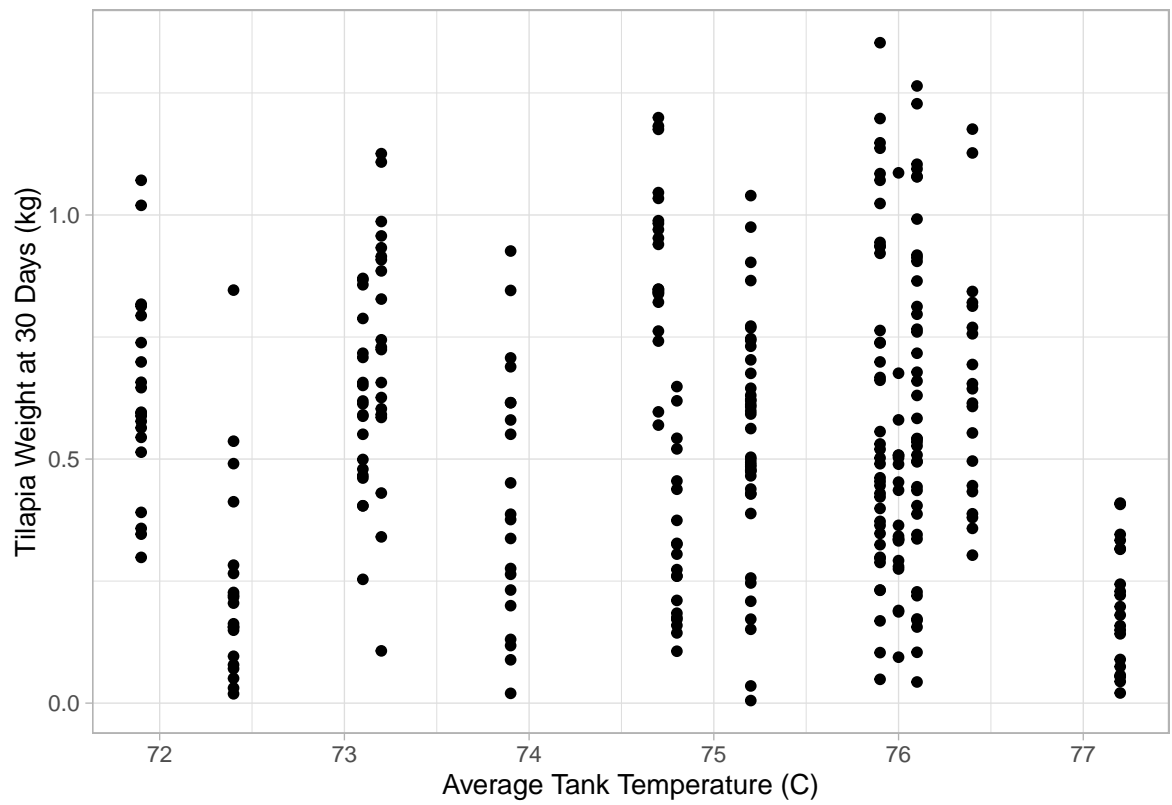
```
4. ## # A tibble: 4 x 2
##   perc_soy_protein mean_weight_kg
##   <dbl>         <dbl>
## 1         0.2         0.276
## 2         0.4         0.441
## 3         0.6         0.618
## 4         0.8         0.829
```



5.

6. ## '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
```



7.