

# Module 2, Assignment 1

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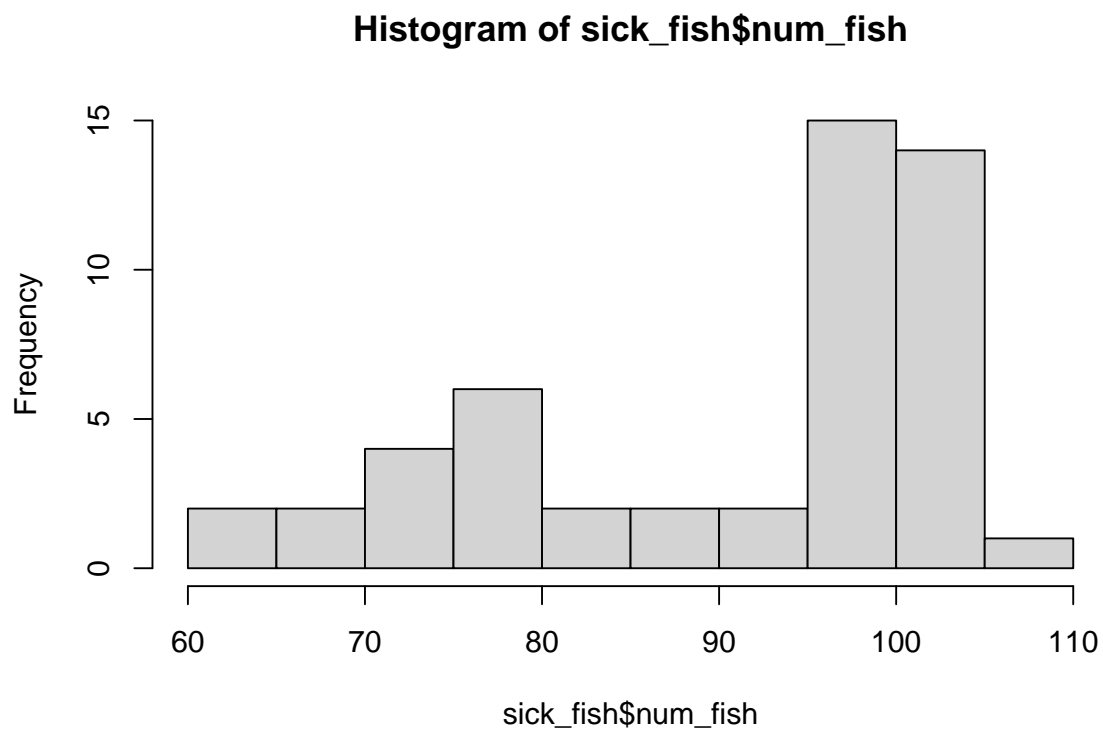
2023-09-24

```
## -- 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   1.5.2
## v ggplot2    4.0.0      v tibble    3.3.0
## v lubridate  1.9.4      v tidyr     1.3.1
## v purrr      1.1.0
## -- 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.

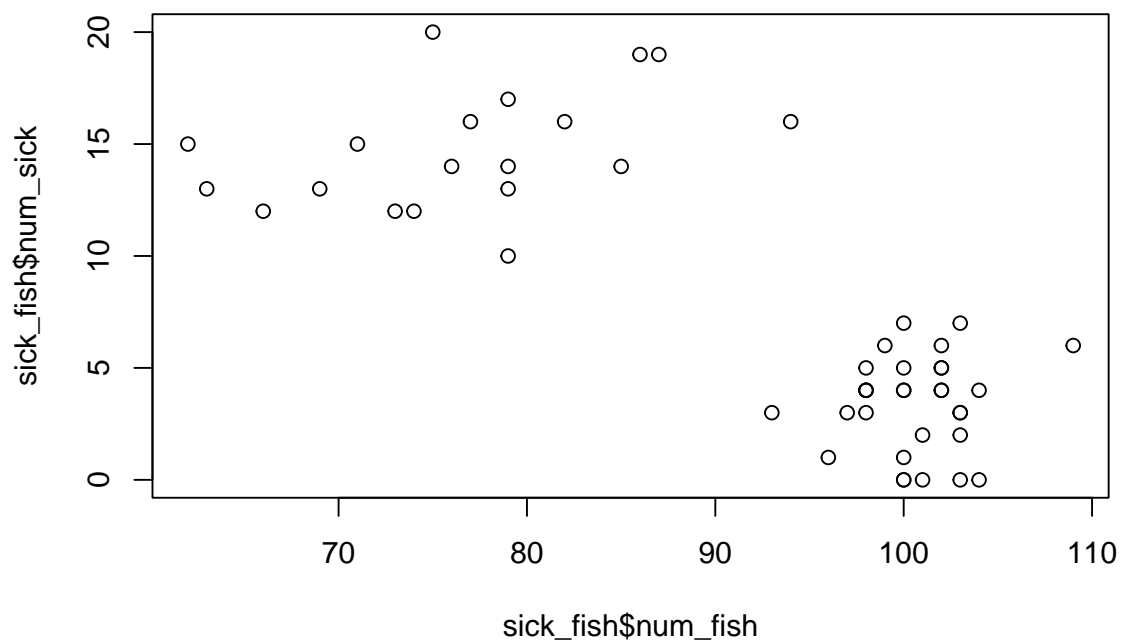
## Rows: 50 Columns: 7
## -- Column specification -----
## Delimiter: ","
## chr (1): species
## dbl (6): tank_id, avg_daily_temp, num_fish, day_length, tank_volume, num_sick
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.

1. ## # A tibble: 6 x 7
##   tank_id species avg_daily_temp num_fish day_length tank_volume num_sick
##   <dbl> <chr>      <dbl>    <dbl>    <dbl>    <dbl>    <dbl>
## 1    388 tilapia      24.3      93      10      399.      3
## 2    425 tilapia      24.6      98      11      400.      4
## 3    420 tilapia      23.0     103      9       399.      2
## 4    819 trout        14.1      85      11      401.     14
## 5    176 tilapia      23.3      98      10      400.      3
## 6    926 trout        13.8      79      12      400.     10
```

Plotting with base R

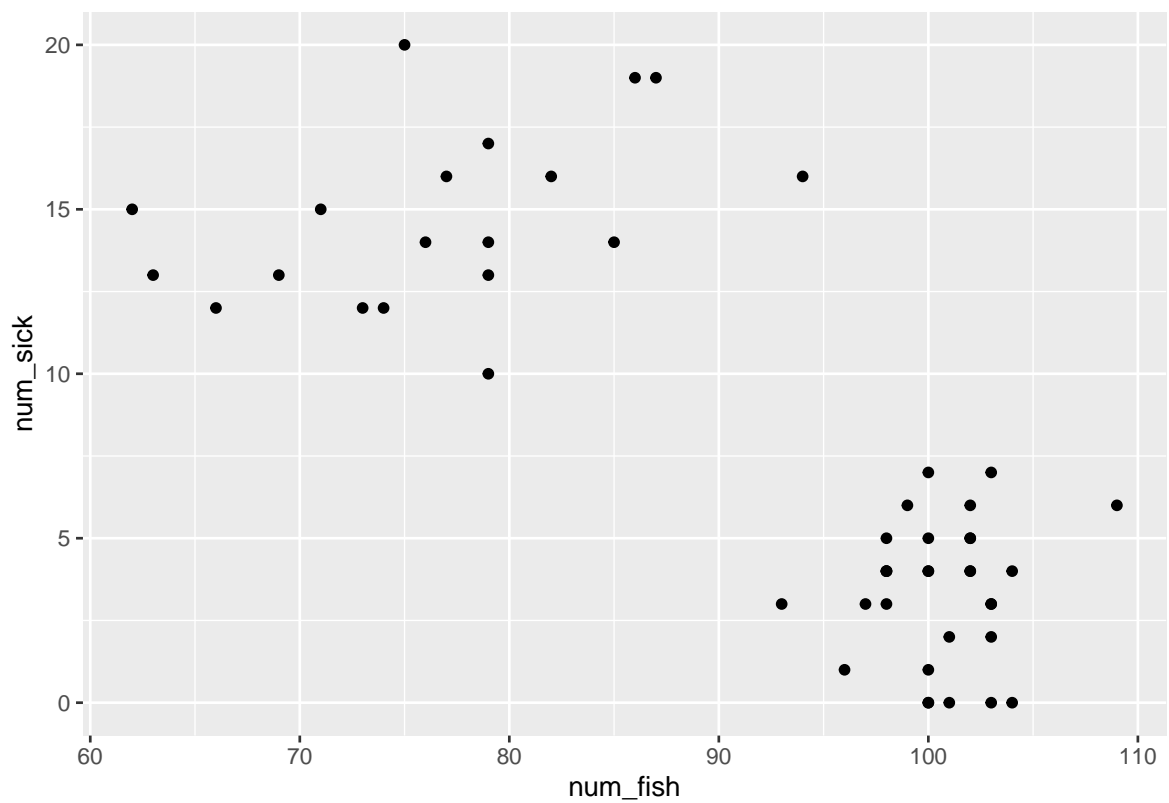


4.

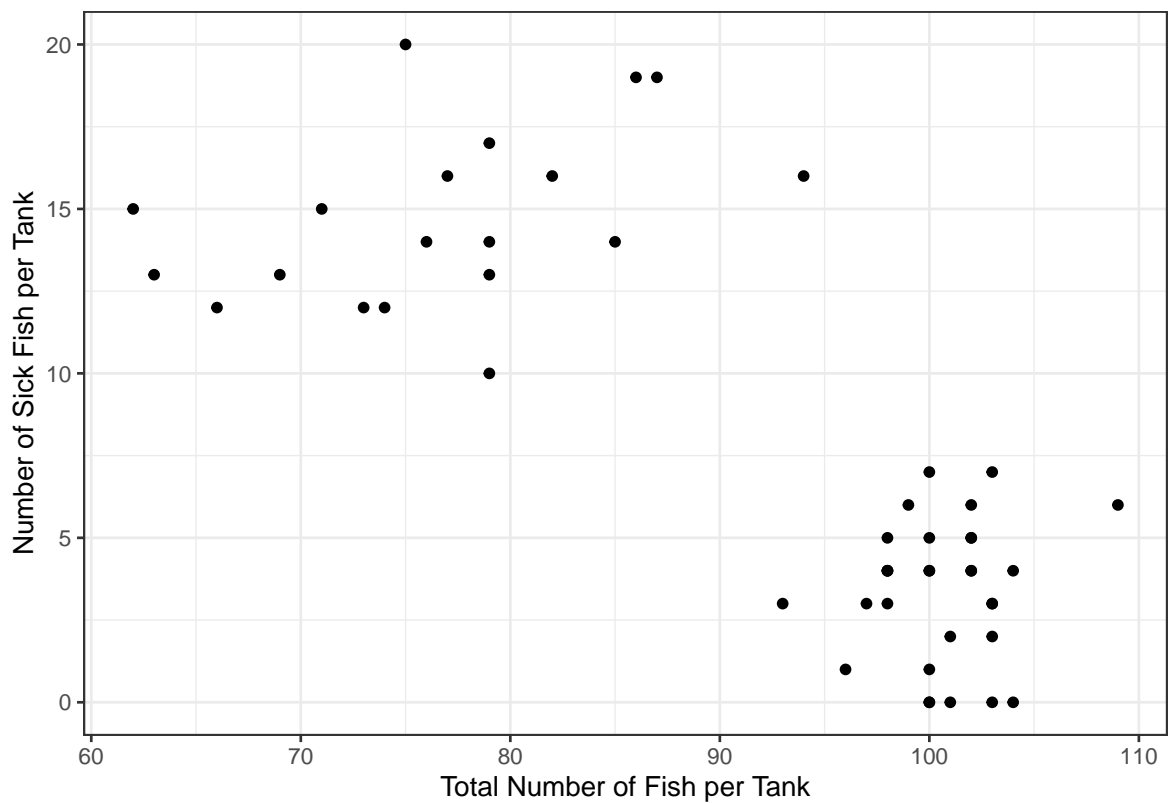


5.

Using ggplot2



8.



9.

```
10. ## # A tibble: 2 x 3
    ##   species mean_sick sd_sick
    ##   <chr>      <dbl>   <dbl>
    ## 1 tilapia    3.39    2.11
    ## 2 trout     14.7    2.68
```