

# Module 2, Assignment 1

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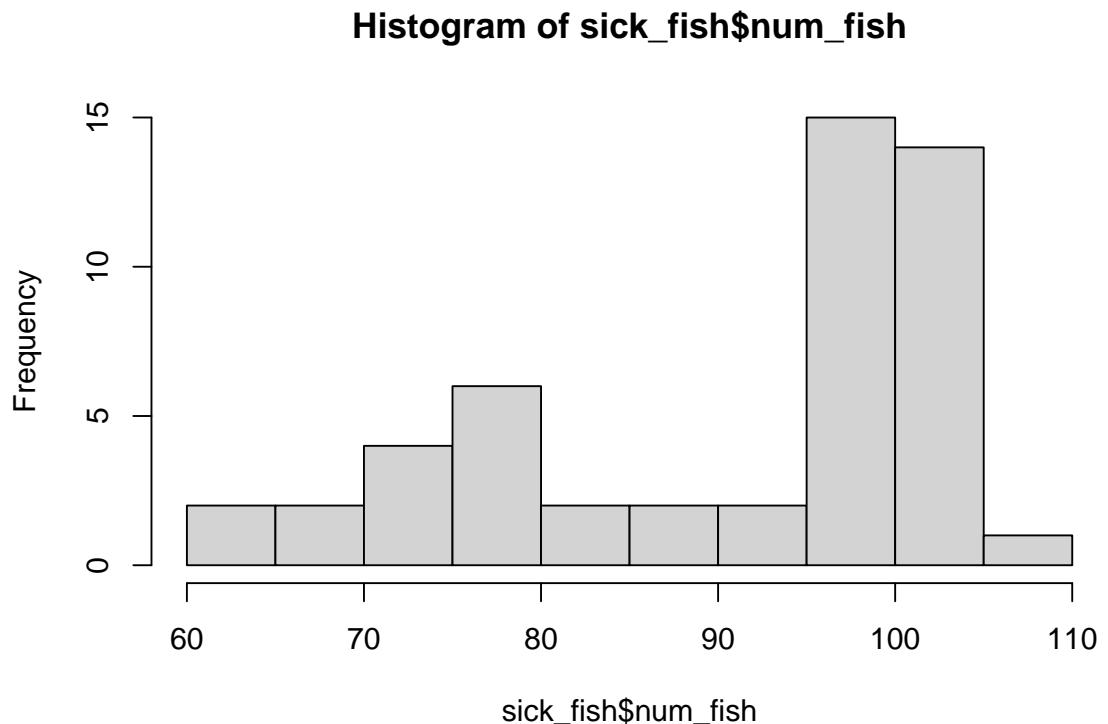
```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr     1.1.4     v readr     2.1.5
## vforcats   1.0.0     v stringr   1.5.2
## v ggplot2   4.0.0     v tibble    3.3.0
## v lubridate 1.9.4     v tidyrr    1.3.1
## v purrr    1.1.0

## -- 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

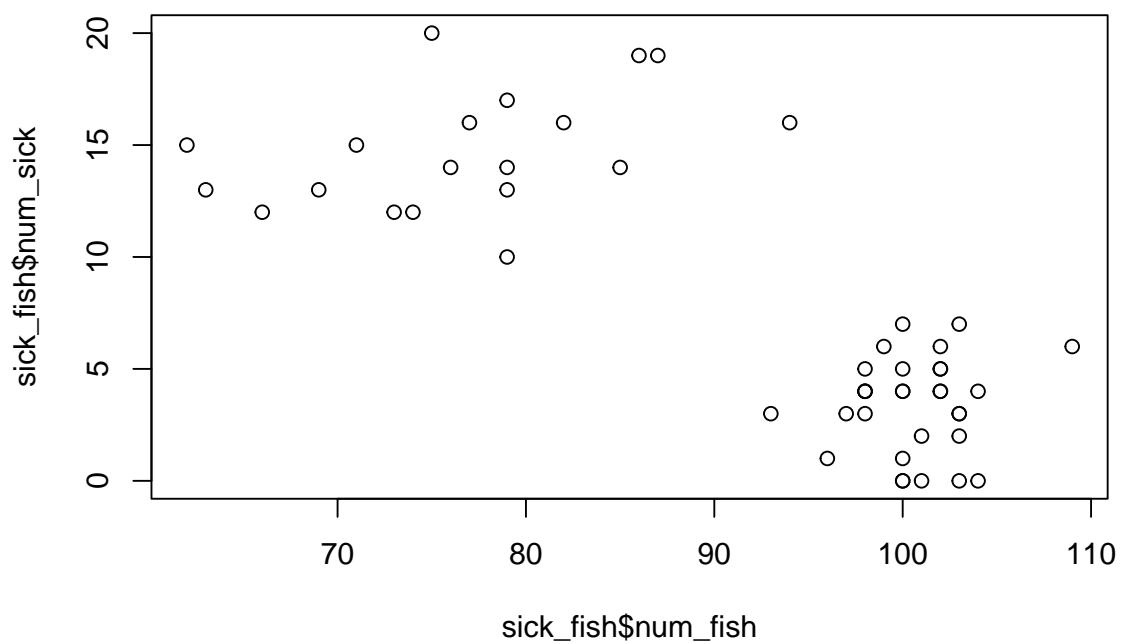
## Rows: 50 Columns: 7
## -- Column specification -----
## Delimiter: ","
## chr (1): species
## dbl (6): tank_id, avg_daily_temp, num_fish, day_length, tank_volume, num_sick
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types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

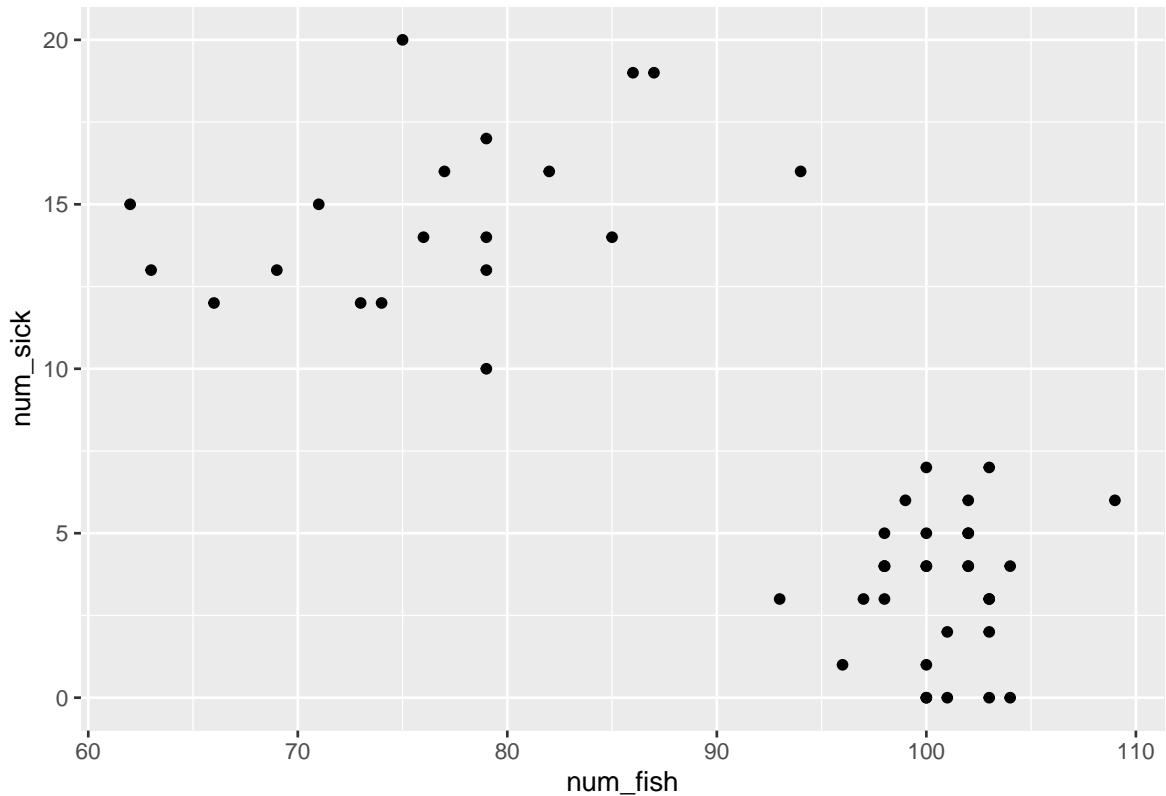


4.

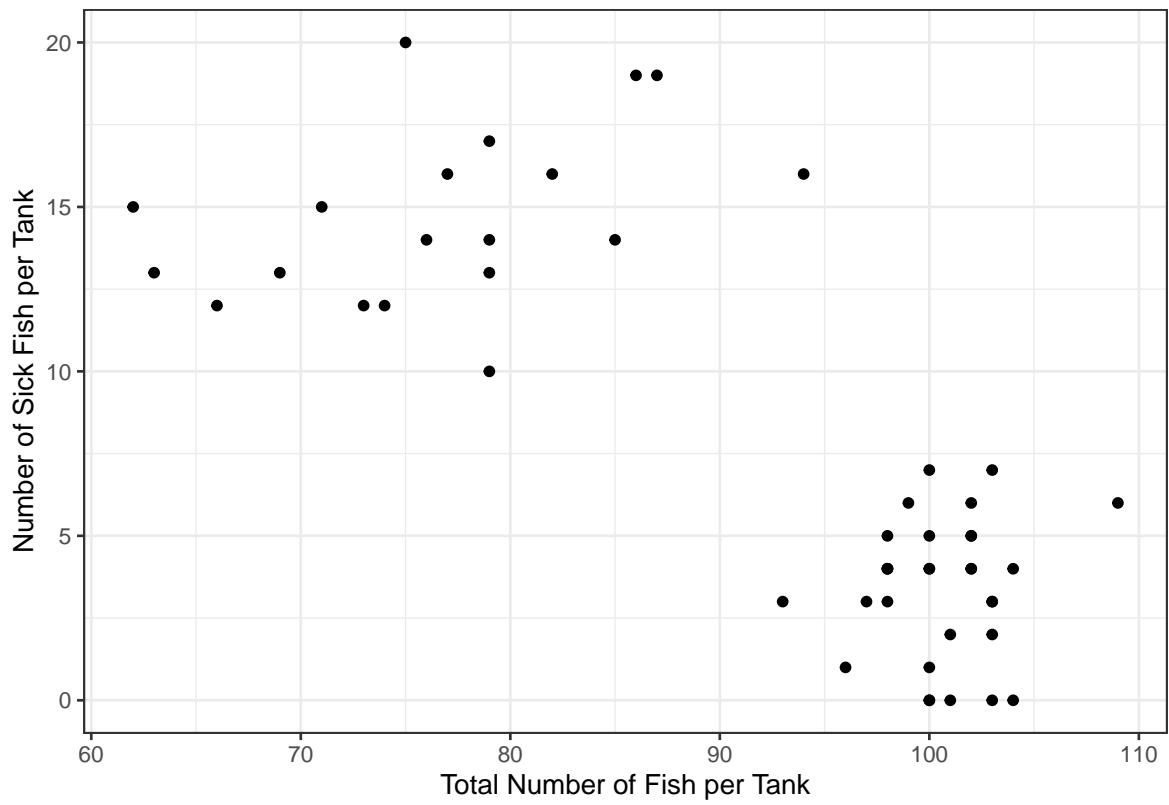


5.

## 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
```