Data Visualiation with R Exercises

Load the example dataset (example2.tsv) using read tsv.

Filtering and Selecting

- 1. Use filter to find out how many genes have an adjusted p-value less than 0.05.
- 2. Find out which gene has the smallest p-value by sorting the data using arrange.
- 3. Make a new column in the data that is -log10 of the adjusted p-value column. You can use the log10 () function to calculate this.
- 4. Make a new data.frame that contains the GeneID, Name and all the normalised count columns.
- 5. Make the new data.frame data tidy using pivot longer.

Plotting

- 1. Using the iris dataset make a plot of Petal.Width (y) against Sepal.Width (x).
- 2. Now colour the points by Petal.Length and use the viridis colour scale using scale colour viridis c.
- 3. Change the colouring to Species, choose a hollow shape (one of 21-25) and pick 3 colours to use with scale fill manual.