

STAT 451 - Visualizing Data - Autumn 2025

Lab 6: Shiny - Exercise 3

In this lab, we will improve the visualization done in exercise 2 by adding interactivity to the dashboard. We will visualize the motor trend car road tests dataset (`data(mtcars)`). Create a folder with two files `ui.R` and `server.R`.

Write code to:

- Let the user select a car.
- Let the user choose between two tabs:
 - First plot: Plot miles per gallon as a function of weight. Color the data point corresponding to the selected car with a different color.
 - Second plot: Plot miles per gallon for different number of cylinders.
- Add info boxes giving information about the selected car (e.g. displacement, horsepower ...).
- In the side menu, add buttons to download the dataset and the first plot.
- Add the possibility to click on a data point and hover over the first plot.