

Contents

1	plots	2
2	explanation	4

1 plots

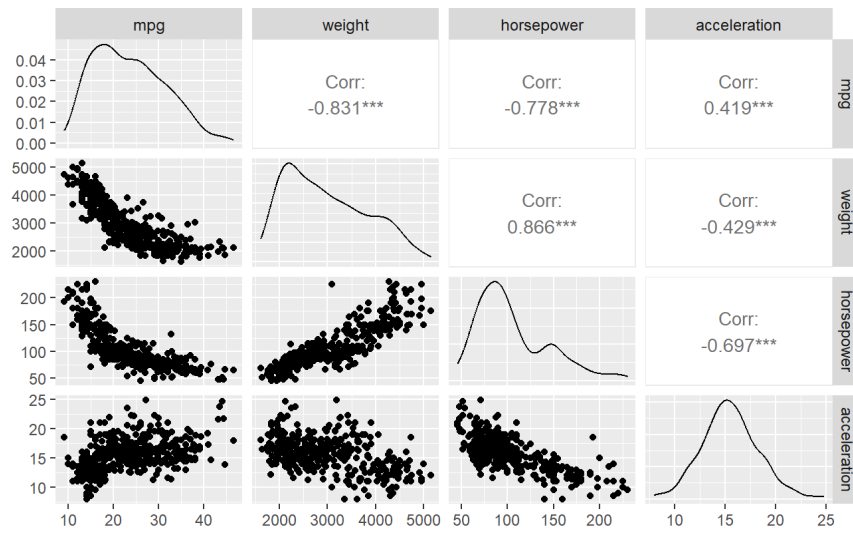


Figure 1: correlation coefficient matrix

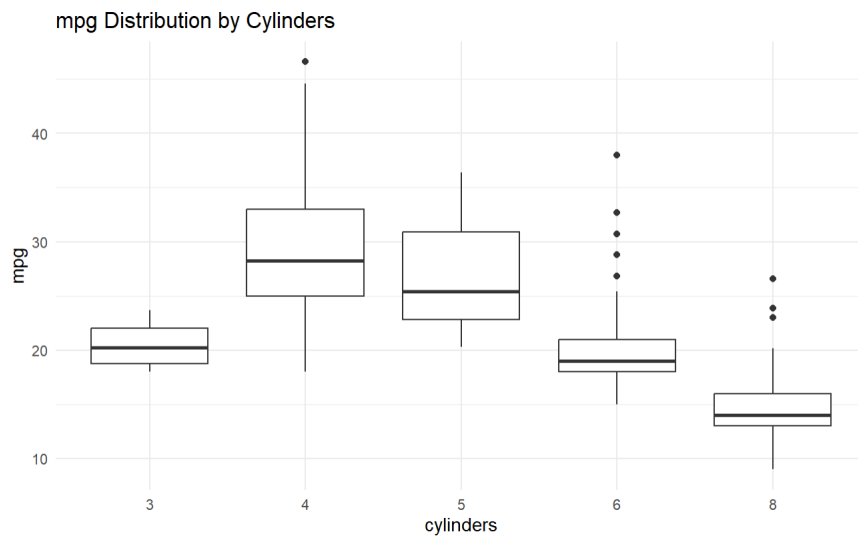


Figure 2: creat boxplot

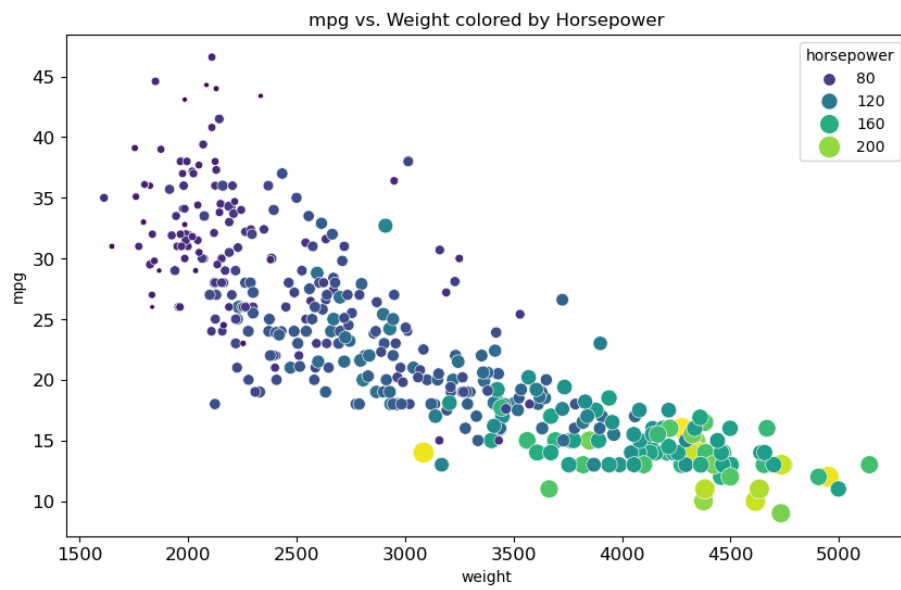


Figure 3: Creating scatter plot

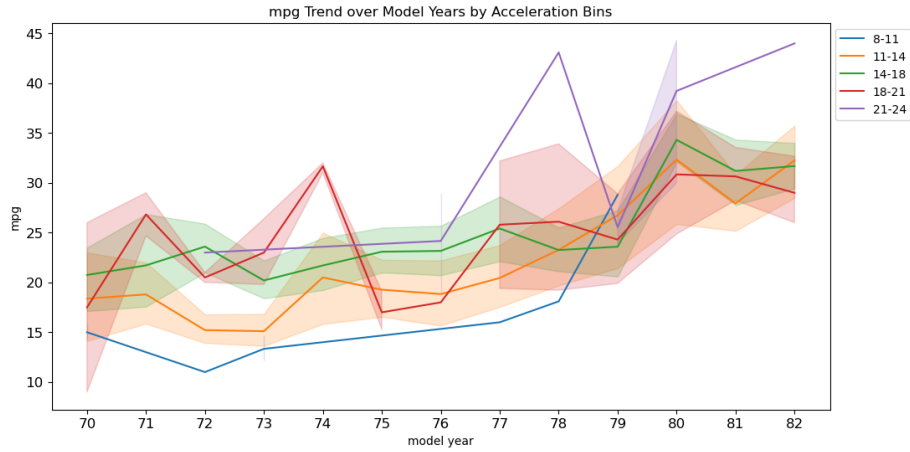


Figure 4: Creating grouped line plot

2 explanation

The dataset originates from the UCI Machine Learning Repository and represents the fuel efficiency ('mpg') of various cars, alongside their characteristics such as weight, horsepower, acceleration, and number of cylinders.

1. Pairplot: A visualization showcasing relationships and distributions for 'mpg', 'weight', 'horsepower', and 'acceleration'.
2. Boxplot: Displays the variation in 'mpg' across cars with different cylinder counts, revealing fuel efficiency tendencies.
3. Scatter Plot: Contrasts 'mpg' against car 'weight', with color and size hinting at 'horsepower', highlighting fuel efficiency's dependency on weight and power.
4. Line Plot: Traces 'mpg' trends over model years, segmented by 'acceleration' bins, illustrating the evolution of fuel efficiency and its association with acceleration.