

Motor Card Trend Road to ... Analysis

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Executive Summary

Data Description

The data was extracted from the 1974 Motor Trend US magazine, and comprises fuel consumption and 10 aspects of automobile design and performance for 32 automobiles (1973-74 models).

Data Format

Variable Details

- mpg Miles/(US) gallon
- cyl Number of cylinders
- disp Displacement (cu.in.)
- hp Gross horsepower
- drat Rear axle ratio
- wt Weight (1000 lbs)
- qsec 1/4 mile time
- vs V/S
- am Transmission (0 = automatic, 1 = manual)
- gear Number of forward gears
- carb Number of carburetors

Report Description

In this report I will analyze the mtcars data, and look for an appropriate relationship between the mpg (Miles/(US) gallon) variable and the am (Transmission (0 = automatic, 1 = manual)) variable and compare the difference between the two transmission types.

Data Manipulation

I will convert the columns in the data must be represented as factor variables.

```
data <- mtcars
data$cyl <- as.factor(data$cyl)
data$vs <- as.factor(data$vs)
data$am <- as.factor(data$am)
data$gear <- as.factor(data$gear)
data$carb <- as.factor(data$carb)
```

Exploratory Data Analysis

