

# Motor Trends

C Tobin

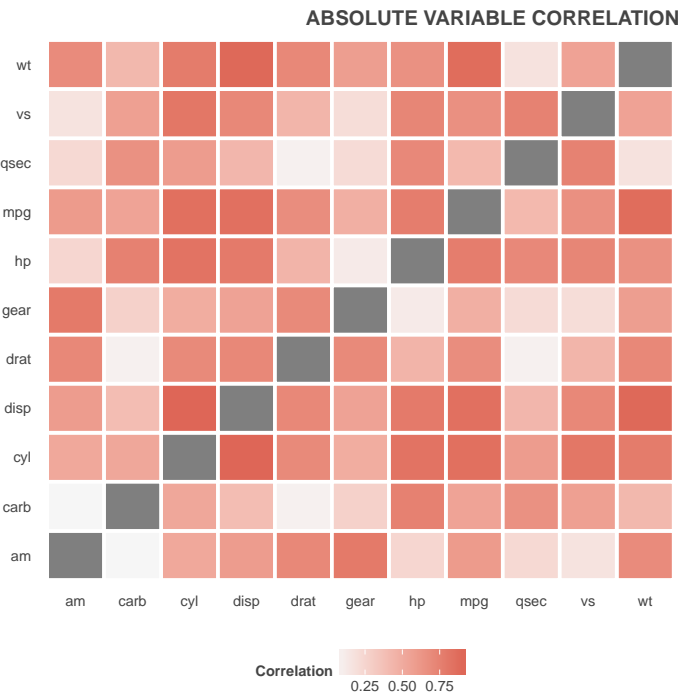
January 11, 2013

## **Introduction**

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).

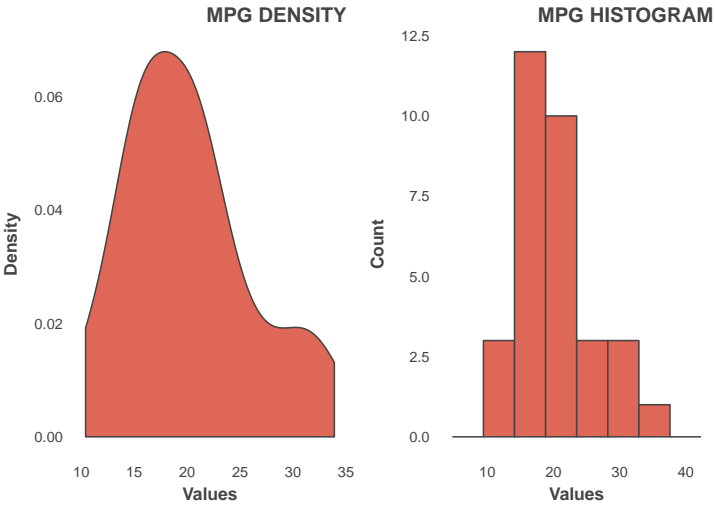
# CORRELATION

The plot below shows the absolute correlation between each of the attributes in the data. The mean absolute correlation is 0.56.



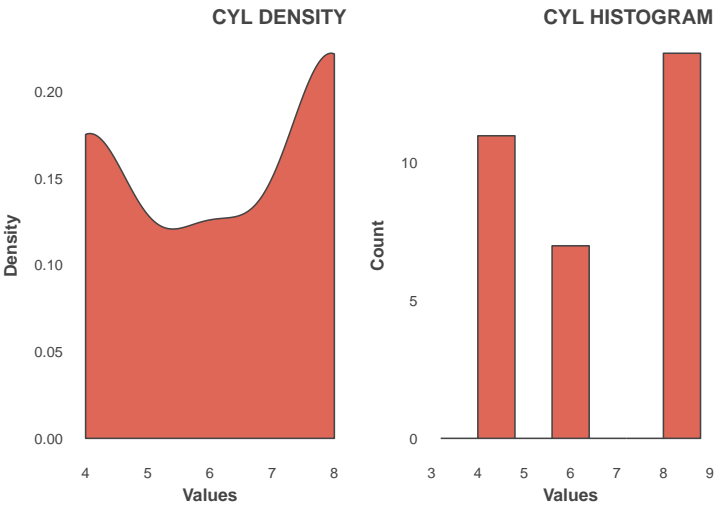
# MPG

*mpg stands for Miles/(US) gallon.*



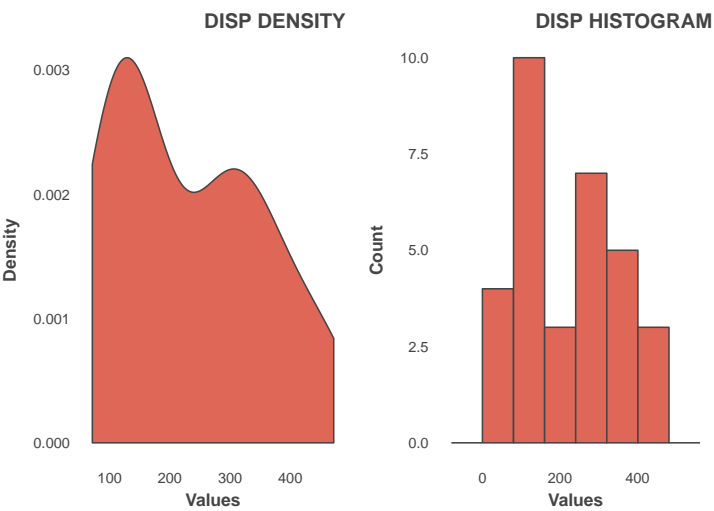
# CYL

*cyl stands for Number of cylinders.*



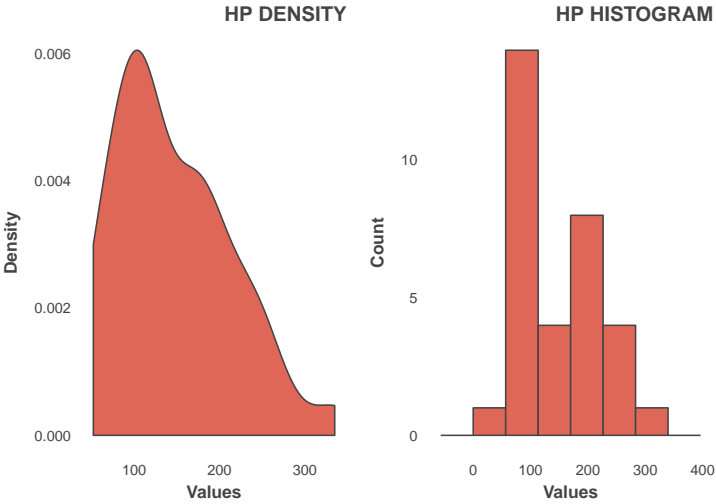
# DISP

*disp stands for Displacement (cu.in.).*



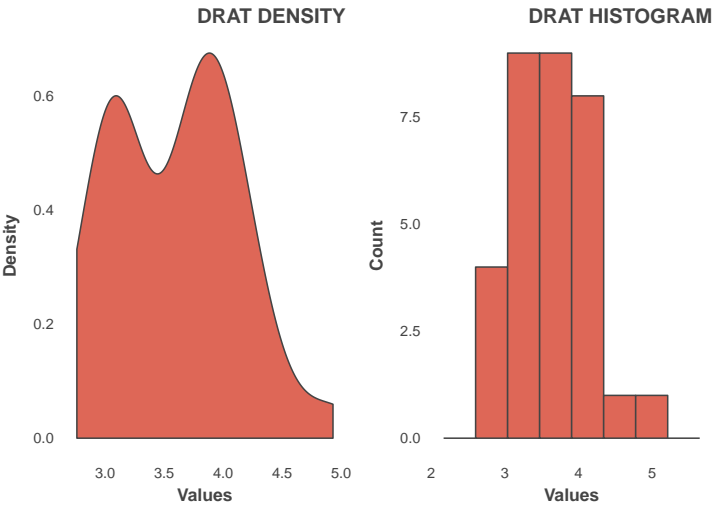
# HP

*hp stands for Gross horsepower.*



# DRAT

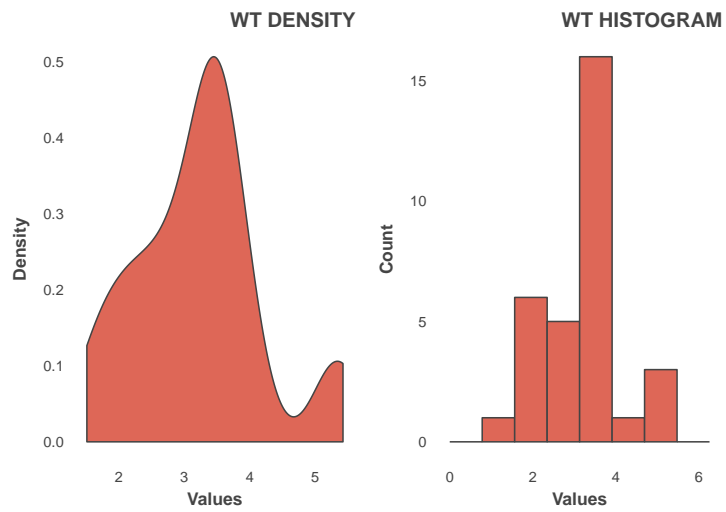
*drat stands for Rear axle ratio.*





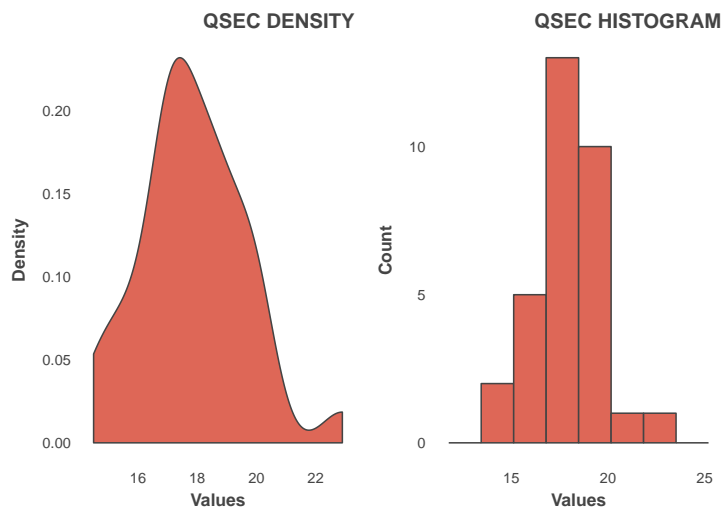
## WT

*wt* stands for *Weight (lb/1000)*.



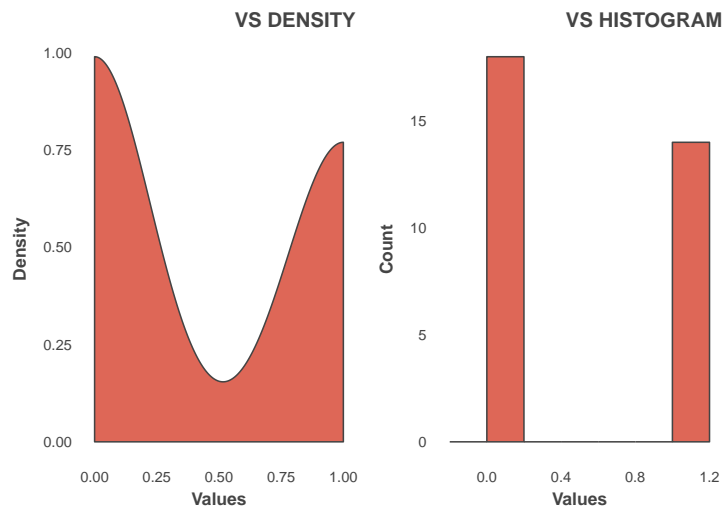
## QSEC

*qsec stands for 1/4 mile time.*



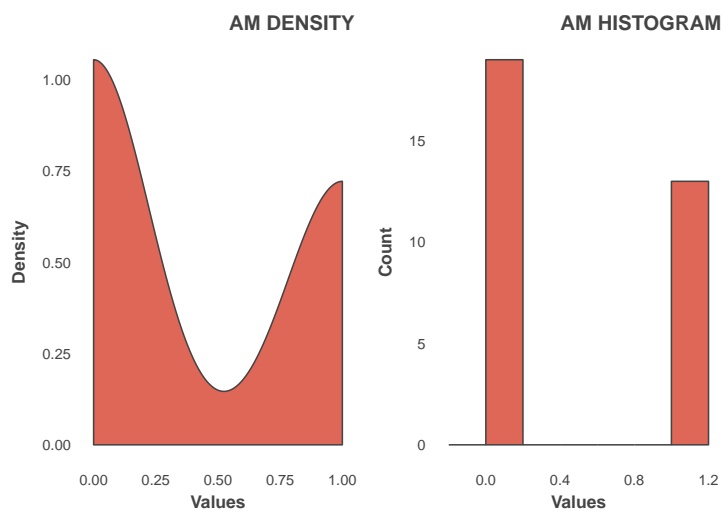
**VS**

*vs stands for  $V/S$ .*



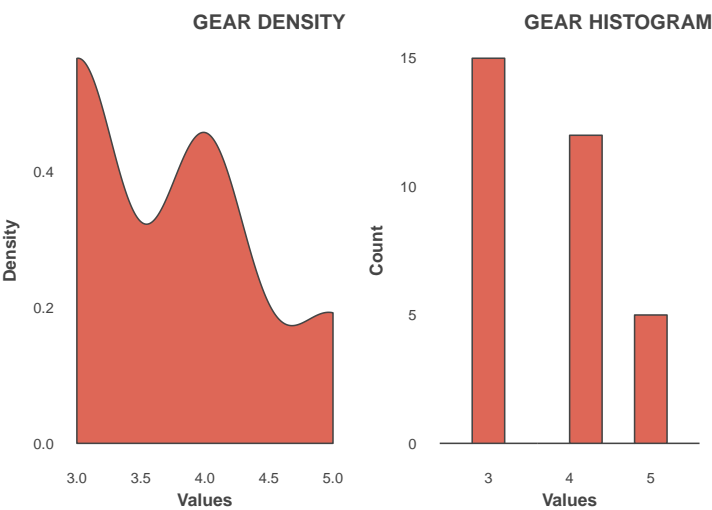
## AM

*am* stands for *Transmission* (0 = automatic, 1 = manual).



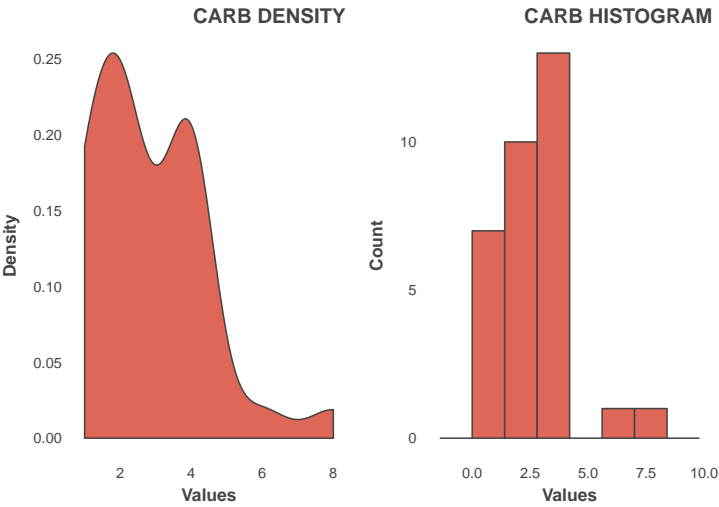
# GEAR

*gear stands for Number of forward gears.*



# CARB

*carb stands for Number of carburetors.*



# CLUSTERING

