

Motor Trends

C Tobin

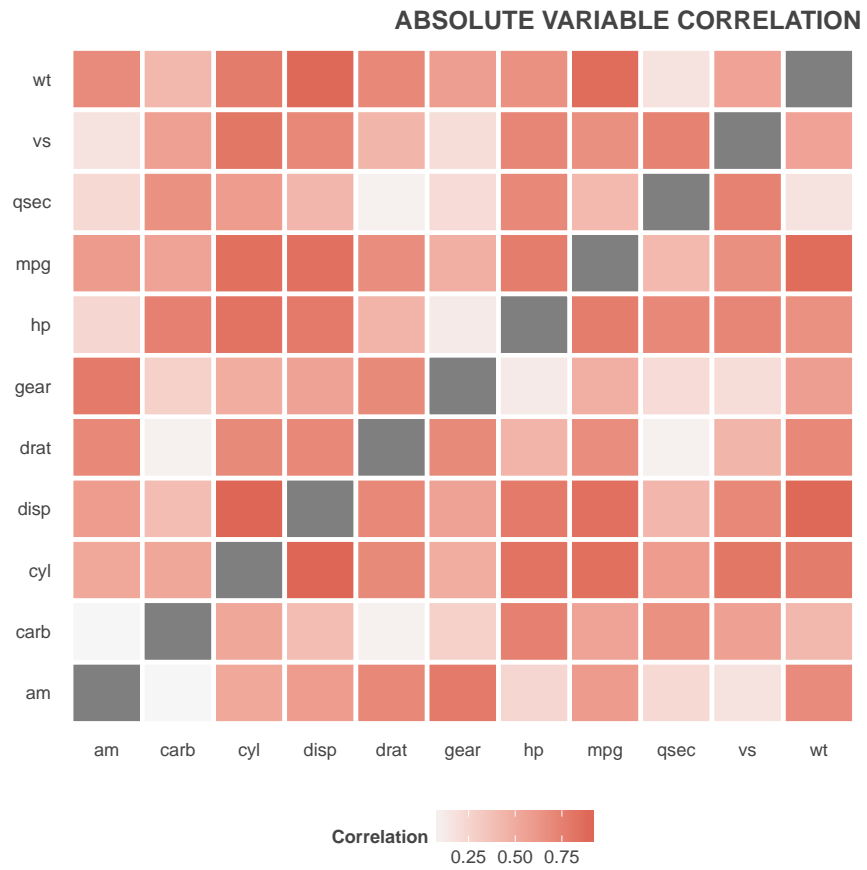
January 11, 2013

Introduction

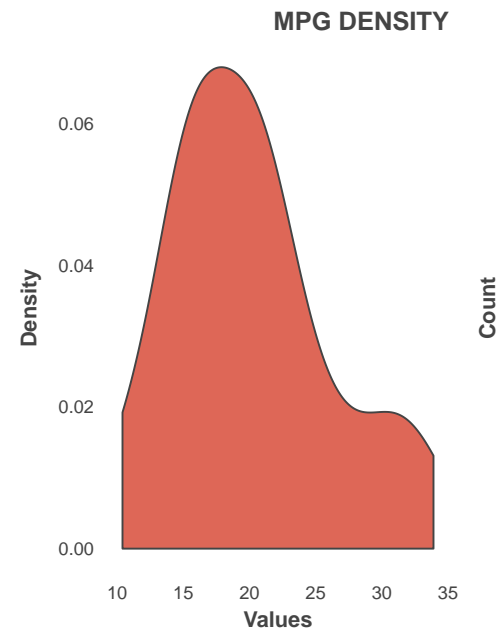
The data was extracted from the 1974 Motor Trend US magazine, and comprises fuel consumption and 10 aspects of automobile design and performance for 32 automobiles (1973–74 models).

CORRELATION

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

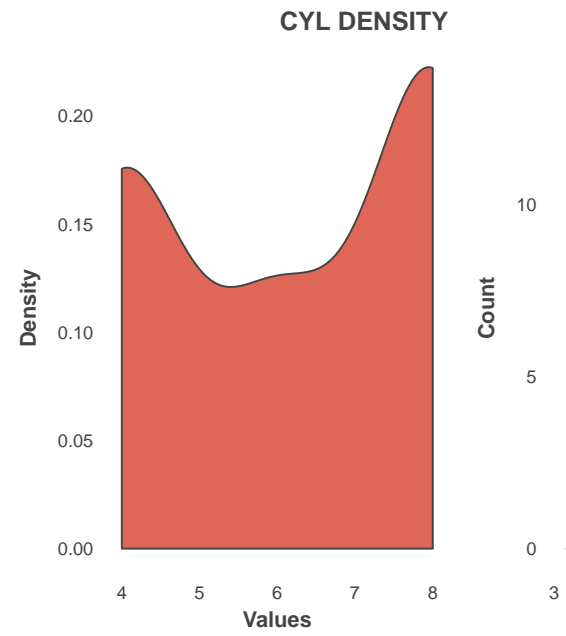


MPG



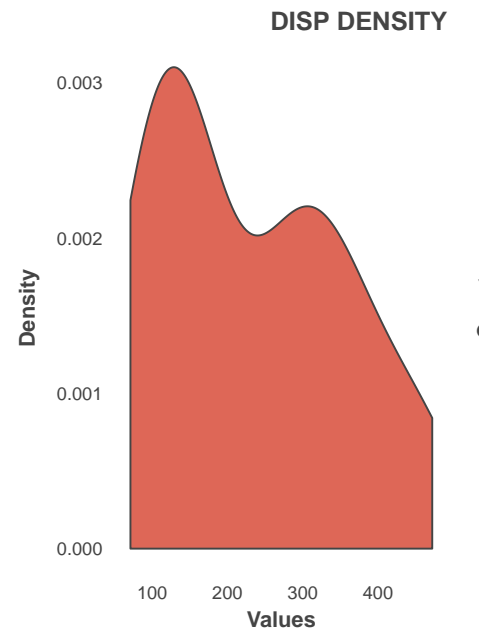
{mpg stands for Miles/(US) gallon. It values range from 10.4 to 33.9

CYL



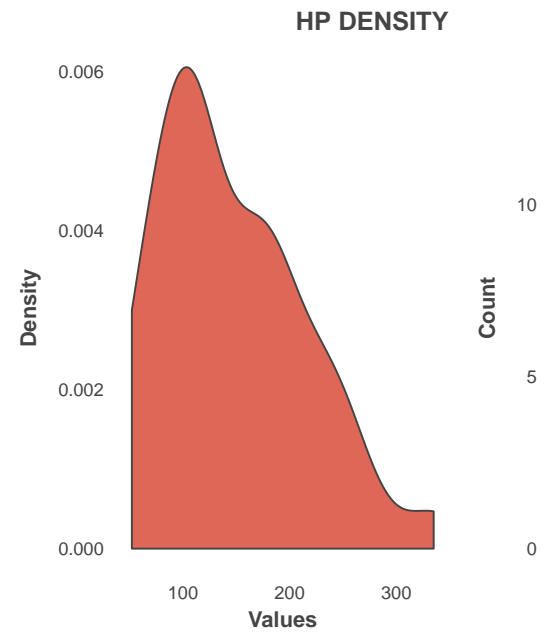
{cyl stands for Number of cylinders. It values range from 4 to 8

DISP



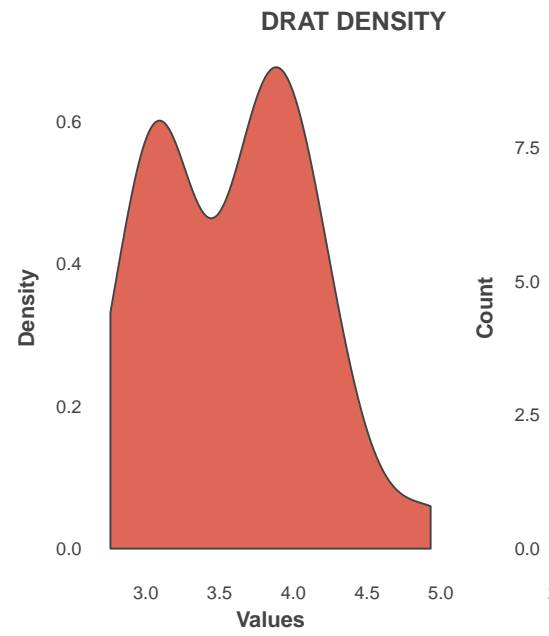
{disp stands for Displacement (cu.in.). It values range from 71.1 to 472

HP



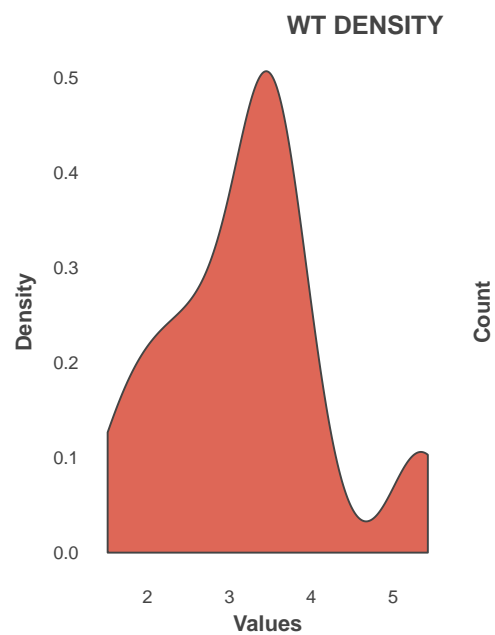
{hp stands for Gross horsepower. It values range from 52 to 335

DRAT



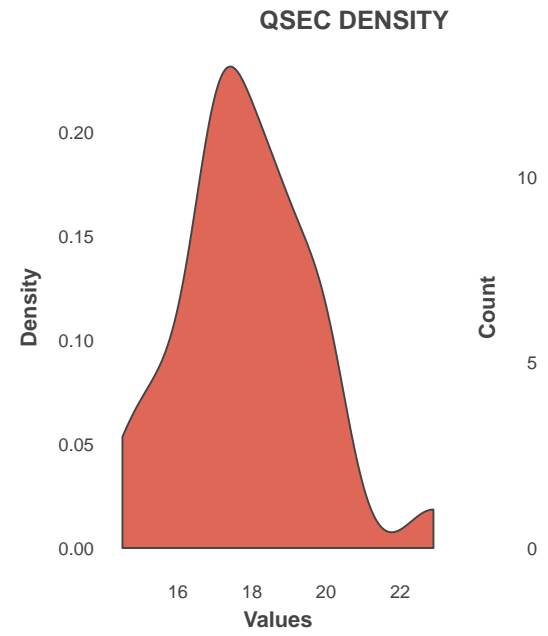
{drat stands for Rear axle ratio. It values range from 2.76 to 4.93}

WT



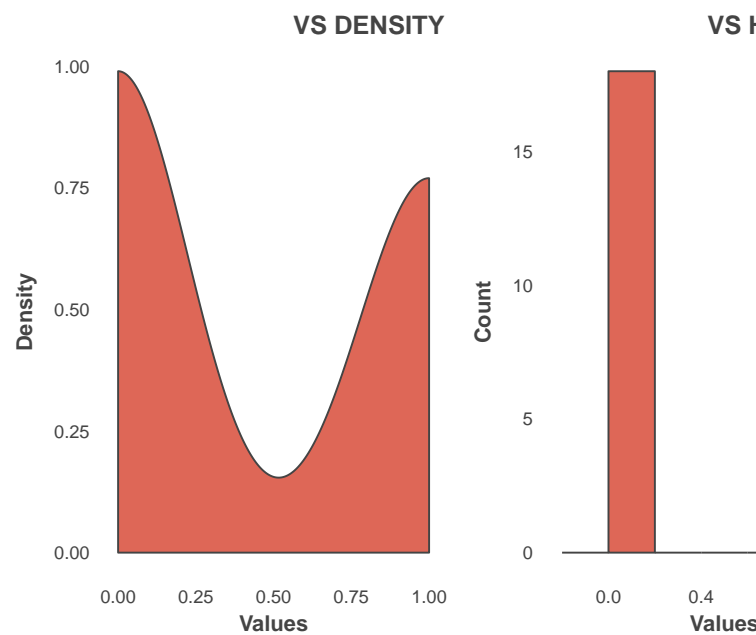
{wt stands for Weight (lb/1000). It values range from 1.513 to 5.424

QSEC



{qsec stands for 1/4 mile time. It values range from 14.5 to 22.9

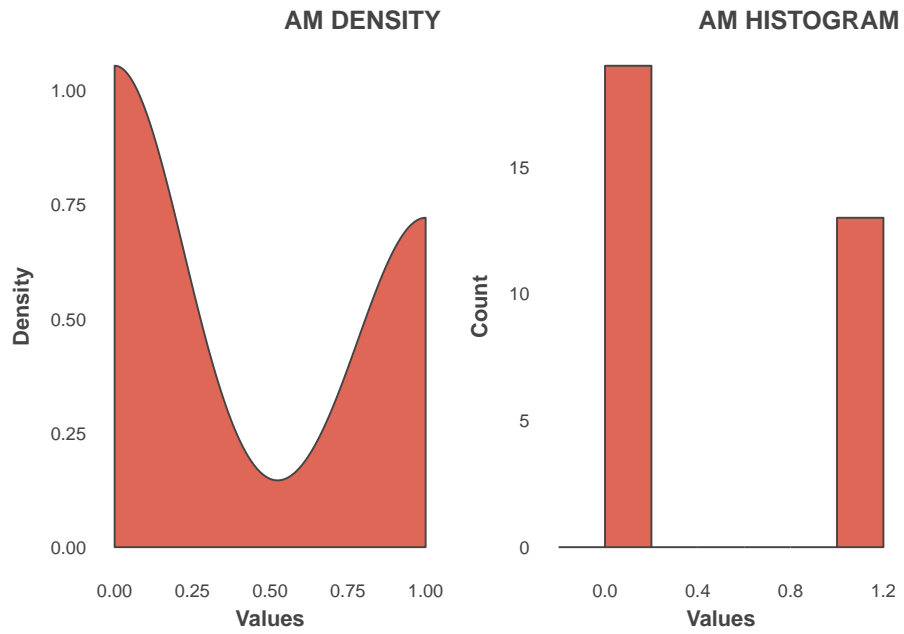
VS



{vs stands for V/S. It values range from 0 to 1

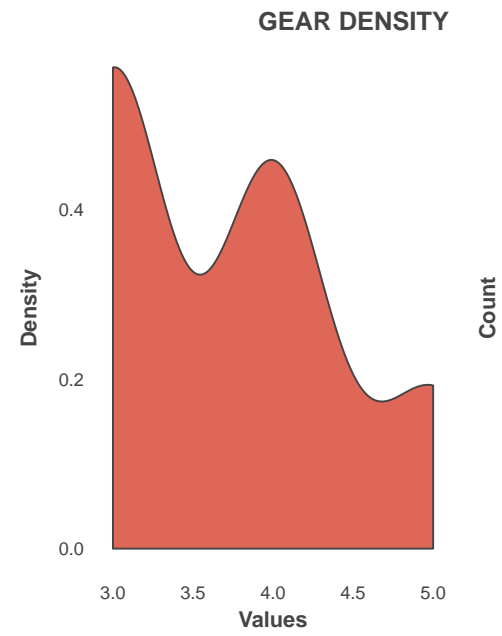
AM

{am stands for Transmission (0 = automatic, 1 = manual). It values range from 0 to



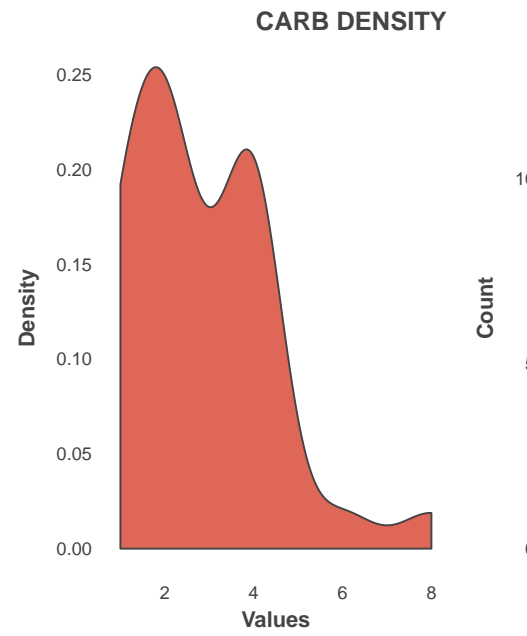
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GEAR



{gear stands for Number of forward gears. It values range from 3 to 5

CARB



{carb stands for Number of carburetors. It values range from 1 to 8