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| mtcars {datasets} | R Documentation |

Motor Trend Car Road Tests

**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).

**Usage**

mtcars

**Format**

A data frame with 32 observations on 11 (numeric) variables.

|  |  |  |
| --- | --- | --- |
| [, 1] | mpg | Miles/(US) gallon |
| [, 2] | cyl | Number of cylinders |
| [, 3] | disp | Displacement (cu.in.) |
| [, 4] | hp | Gross horsepower |
| [, 5] | drat | Rear axle ratio |
| [, 6] | wt | Weight (1000 lbs) |
| [, 7] | qsec | 1/4 mile time |
| [, 8] | vs | Engine (0 = V-shaped, 1 = straight) |
| [, 9] | am | Transmission (0 = automatic, 1 = manual) |
| [,10] | gear | Number of forward gears |
| [,11] | carb | Number of carburetors |

**Source**

Henderson and Velleman (1981), Building multiple regression models interactively. *Biometrics*, **37**, 391–411.

**Examples**

require(graphics)

pairs(mtcars, main = "mtcars data", gap = 1/4)

coplot(mpg ~ disp | as.factor(cyl), data = mtcars,

panel = panel.smooth, rows = 1)

## possibly more meaningful, e.g., for summary() or bivariate plots:

mtcars2 <- within(mtcars, {

vs <- factor(vs, labels = c("V", "S"))

am <- factor(am, labels = c("automatic", "manual"))

cyl <- ordered(cyl)

gear <- ordered(gear)

carb <- ordered(carb)

})

summary(mtcars2)