

mtcars.R

91939

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```
carsdata=mtcars
```

```
summary(carsdata)
```

```
##      mpg          cyl          disp          hp
##  Min.   :10.40    Min.   :4.000    Min.   : 71.1    Min.   : 52.0
##  1st Qu.:15.43    1st Qu.:4.000    1st Qu.:120.8    1st Qu.: 96.5
##  Median :19.20    Median :6.000    Median :196.3    Median :123.0
##  Mean   :20.09    Mean   :6.188    Mean   :230.7    Mean   :146.7
##  3rd Qu.:22.80    3rd Qu.:8.000    3rd Qu.:326.0    3rd Qu.:180.0
##  Max.   :33.90    Max.   :8.000    Max.   :472.0    Max.   :335.0
##      drat          wt          qsec          vs
##  Min.   :2.760    Min.   :1.513    Min.   :14.50    Min.   :0.0000
##  1st Qu.:3.080    1st Qu.:2.581    1st Qu.:16.89    1st Qu.:0.0000
##  Median :3.695    Median :3.325    Median :17.71    Median :0.0000
##  Mean   :3.597    Mean   :3.217    Mean   :17.85    Mean   :0.4375
##  3rd Qu.:3.920    3rd Qu.:3.610    3rd Qu.:18.90    3rd Qu.:1.0000
##  Max.   :4.930    Max.   :5.424    Max.   :22.90    Max.   :1.0000
##      am          gear          carb
##  Min.   :0.0000    Min.   :3.000    Min.   :1.000
##  1st Qu.:0.0000    1st Qu.:3.000    1st Qu.:2.000
##  Median :0.0000    Median :4.000    Median :2.000
##  Mean   :0.4062    Mean   :3.688    Mean   :2.812
##  3rd Qu.:1.0000    3rd Qu.:4.000    3rd Qu.:4.000
##  Max.   :1.0000    Max.   :5.000    Max.   :8.000
```

```
str(carsdata)
```

```
## 'data.frame': 32 obs. of 11 variables:
## $ mpg : num 21 21 22.8 21.4 18.7 18.1 14.3 24.4 22.8 19.2 ...
## $ cyl : num 6 6 4 6 8 6 8 4 4 6 ...
## $ disp: num 160 160 108 258 360 ...
## $ hp : num 110 110 93 110 175 105 245 62 95 123 ...
## $ drat: num 3.9 3.9 3.85 3.08 3.15 2.76 3.21 3.69 3.92 3.92 ...
## $ wt : num 2.62 2.88 2.32 3.21 3.44 ...
## $ qsec: num 16.5 17 18.6 19.4 17 ...
## $ vs : num 0 0 1 1 0 1 0 1 1 1 ...
## $ am : num 1 1 1 0 0 0 0 0 0 0 ...
## $ gear: num 4 4 4 3 3 3 3 4 4 4 ...
## $ carb: num 4 4 1 1 2 1 4 2 2 4 ...
```

```
class(carsdata)
```

```
## [1] "data.frame"
```

```
hist(carsdata$hp,prob=T)
```

```
lines(density(carsdata$hp),col=6,lwd=2)
```

