Gergely Daróczi

Looong report

Fri Jul 20 12:17:28 2012

Contents

| ataset | 2 |
|---|----|
| escriptives | 6 |
| In details | 6 |
| $\operatorname{mpg} \ \ldots \ldots \ldots \ldots \ldots \ldots \ldots$ | 6 |
| cyl | 7 |
| disp | 8 |
| hp | 10 |
| drat | 11 |
| wt | 13 |
| qsec | 15 |
| vs | 17 |
| am | 18 |
| gear | 19 |
| carb | 20 |
| orrelation | 21 |
| ome models | 24 |
| $\operatorname{mpg} \ \ldots \ldots \ldots \ldots \ldots \ldots$ | 24 |
| cyl | 25 |
| disp | 25 |

| hp . | | | | | | • | • | | | | | | • | | • | • | | | 25 |
|-----------------------|---|--|--|--|--|---|---|--|--|--|--|--|---|--|---|---|--|--|----|
| drat | | | | | | | | | | | | | | | | | | | 26 |
| qsec | | | | | | | | | | | | | | | | | | | 26 |
| vs . | | | | | | | | | | | | | | | | | | | 26 |
| am . | | | | | | | | | | | | | | | | | | | 26 |
| gear | • | | | | | | | | | | | | | | | | | | 27 |
| carb | | | | | | | | | | | | | | | | | | | 27 |

I have written the below report in 10 mins:

Dataset

Here I will do a pretty fast report on mtcars which is:

| | mpg | cyl | disp | hp | drat |
|--------------------------|------|-----|-------|-----|------|
| Mazda RX4 | 21.0 | 6 | 160.0 | 110 | 3.90 |
| Mazda RX4 Wag | 21.0 | 6 | 160.0 | 110 | 3.90 |
| Datsun 710 | 22.8 | 4 | 108.0 | 93 | 3.85 |
| Hornet 4 Drive | 21.4 | 6 | 258.0 | 110 | 3.08 |
| Hornet Sportabout | 18.7 | 8 | 360.0 | 175 | 3.15 |
| Valiant | 18.1 | 6 | 225.0 | 105 | 2.76 |
| Duster 360 | 14.3 | 8 | 360.0 | 245 | 3.21 |
| Merc 240D | 24.4 | 4 | 146.7 | 62 | 3.69 |
| Merc 230 | 22.8 | 4 | 140.8 | 95 | 3.92 |
| Merc 280 | 19.2 | 6 | 167.6 | 123 | 3.92 |
| ${ m Merc}~280{ m C}$ | 17.8 | 6 | 167.6 | 123 | 3.92 |
| Merc~450SE | 16.4 | 8 | 275.8 | 180 | 3.07 |
| ${ m Merc}~450{ m SL}$ | 17.3 | 8 | 275.8 | 180 | 3.07 |
| ${ m Merc}~450 { m SLC}$ | 15.2 | 8 | 275.8 | 180 | 3.07 |
| Cadillac Fleetwood | 10.4 | 8 | 472.0 | 205 | 2.93 |
| Lincoln Continental | 10.4 | 8 | 460.0 | 215 | 3.00 |
| Chrysler Imperial | 14.7 | 8 | 440.0 | 230 | 3.23 |
| Fiat 128 | 32.4 | 4 | 78.7 | 66 | 4.08 |
| Honda Civic | 30.4 | 4 | 75.7 | 52 | 4.93 |
| Toyota Corolla | 33.9 | 4 | 71.1 | 65 | 4.22 |
| Toyota Corona | 21.5 | 4 | 120.1 | 97 | 3.70 |
| Dodge Challenger | 15.5 | 8 | 318.0 | 150 | 2.76 |
| AMC Javelin | 15.2 | 8 | 304.0 | 150 | 3.15 |
| Camaro Z28 | 13.3 | 8 | 350.0 | 245 | 3.73 |
| Pontiac Firebird | 19.2 | 8 | 400.0 | 175 | 3.08 |
| Fiat X1-9 | 27.3 | 4 | 79.0 | 66 | 4.08 |
| Porsche 914-2 | 26.0 | 4 | 120.3 | 91 | 4.43 |
| Lotus Europa | 30.4 | 4 | 95.1 | 113 | 3.77 |
| Ford Pantera L | 15.8 | 8 | 351.0 | 264 | 4.22 |
| Ferrari Dino | 19.7 | 6 | 145.0 | 175 | 3.62 |
| Maserati Bora | 15.0 | 8 | 301.0 | 335 | 3.54 |
| Volvo 142E | 21.4 | 3 4 | 121.0 | 109 | 4.11 |

| | wt | qsec | vs | am |
|------------------------|--------------------|-------|----|----|
| Mazda RX4 | 2.620 | 16.46 | 0 | 1 |
| Mazda RX4 Wag | 2.875 | 17.02 | 0 | 1 |
| Datsun 710 | 2.320 | 18.61 | 1 | 1 |
| Hornet 4 Drive | 3.215 | 19.44 | 1 | 0 |
| Hornet Sportabout | 3.440 | 17.02 | 0 | 0 |
| Valiant | 3.460 | 20.22 | 1 | 0 |
| Duster 360 | 3.570 | 15.84 | 0 | 0 |
| Merc 240D | 3.190 | 20.00 | 1 | 0 |
| Merc 230 | 3.150 | 22.90 | 1 | 0 |
| Merc 280 | 3.440 | 18.30 | 1 | 0 |
| Merc 280C | 3.440 | 18.90 | 1 | 0 |
| Merc~450SE | 4.070 | 17.40 | 0 | 0 |
| ${ m Merc}~450{ m SL}$ | 3.730 | 17.60 | 0 | 0 |
| Merc 450SLC | 3.780 | 18.00 | 0 | 0 |
| Cadillac Fleetwood | 5.250 | 17.98 | 0 | 0 |
| Lincoln Continental | 5.424 | 17.82 | 0 | 0 |
| Chrysler Imperial | 5.345 | 17.42 | 0 | 0 |
| Fiat 128 | 2.200 | 19.47 | 1 | 1 |
| Honda Civic | 1.615 | 18.52 | 1 | 1 |
| Toyota Corolla | 1.835 | 19.90 | 1 | 1 |
| Toyota Corona | 2.465 | 20.01 | 1 | 0 |
| Dodge Challenger | 3.520 | 16.87 | 0 | 0 |
| AMC Javelin | 3.435 | 17.30 | 0 | 0 |
| Camaro Z28 | 3.840 | 15.41 | 0 | 0 |
| Pontiac Firebird | 3.845 | 17.05 | 0 | 0 |
| Fiat X1-9 | 1.935 | 18.90 | 1 | 1 |
| Porsche 914-2 | 2.140 | 16.70 | 0 | 1 |
| Lotus Europa | 1.513 | 16.90 | 1 | 1 |
| Ford Pantera L | 3.170 | 14.50 | 0 | 1 |
| Ferrari Dino | 2.770 | 15.50 | 0 | 1 |
| Maserati Bora | 3.570 | 14.60 | 0 | 1 |
| Volvo 142E | $2.\overline{7}80$ | 18.60 | 1 | 1 |

| | gear | carb |
|--------------------------|------|------|
| Mazda RX4 | 4 | 4 |
| Mazda RX4 Wag | 4 | 4 |
| Datsun 710 | 4 | 1 |
| Hornet 4 Drive | 3 | 1 |
| Hornet Sportabout | 3 | 2 |
| Valiant | 3 | 1 |
| Duster 360 | 3 | 4 |
| Merc 240D | 4 | 2 |
| Merc 230 | 4 | 2 |
| Merc 280 | 4 | 4 |
| Merc 280C | 4 | 4 |
| Merc~450SE | 3 | 3 |
| ${ m Merc}~450{ m SL}$ | 3 | 3 |
| ${ m Merc}~450 { m SLC}$ | 3 | 3 |
| Cadillac Fleetwood | 3 | 4 |
| Lincoln Continental | 3 | 4 |
| Chrysler Imperial | 3 | 4 |
| Fiat 128 | 4 | 1 |
| Honda Civic | 4 | 2 |
| Toyota Corolla | 4 | 1 |
| Toyota Corona | 3 | 1 |
| Dodge Challenger | 3 | 2 |
| AMC Javelin | 3 | 2 |
| Camaro Z28 | 3 | 4 |
| Pontiac Firebird | 3 | 2 |
| Fiat X1-9 | 4 | 1 |
| Porsche 914-2 | 5 | 2 |
| Lotus Europa | 5 | 2 |
| Ford Pantera L | 5 | 4 |
| Ferrari Dino | 5 | 6 |
| Maserati Bora | 5 | 8 |
| Volvo 142E 5 | 4 | 2 |

Descriptives

| | Average | Median | Standard.deviation | Variance |
|------------------------|----------|---------|--------------------|--------------|
| mpg | 20.0906 | 19.200 | 6.0269 | 3.632e+01 |
| cyl | 6.1875 | 6.000 | 1.7859 | 3.190e+00 |
| disp | 230.7219 | 196.300 | 123.9387 | 1.536e + 04 |
| $\mathbf{h}\mathbf{p}$ | 146.6875 | 123.000 | 68.5629 | 4.701e + 03 |
| drat | 3.5966 | 3.695 | 0.5347 | 2.859 e-01 |
| \mathbf{wt} | 3.2172 | 3.325 | 0.9785 | 9.574 e - 01 |
| \mathbf{qsec} | 17.8487 | 17.710 | 1.7869 | 3.193e+00 |
| vs | 0.4375 | 0.000 | 0.5040 | 2.540 e-01 |
| am | 0.4062 | 0.000 | 0.4990 | 2.490 e-01 |
| gear | 3.6875 | 4.000 | 0.7378 | 5.444e-01 |
| carb | 2.8125 | 2.000 | 1.6152 | 2.609e+00 |

In details

\mathbf{mpg}

We found the folloing values here:

 $21.0,\ 21.0,\ 22.8,\ 21.4,\ 18.7,\ 18.1,\ 14.3,\ 24.4,\ 22.8,\ 19.2,\ 17.8,\ 16.4,\ 17.3,\ 15.2,\ 10.4,\ 10.4,\ 14.7,\ 32.4,\ 30.4,\ 33.9,\ 21.5,\ 15.5,\ 15.2,\ 13.3,\ 19.2,\ 27.3,\ 26.0,\ 30.4,\ 15.8,\ 19.7,\ 15.0\ \text{and}\ 21.4$

The mean of mpg is 20.09 while the standard deviation is: 6.027. The most frequent value in mpg is 10.4, but let us check out the frequency table too:

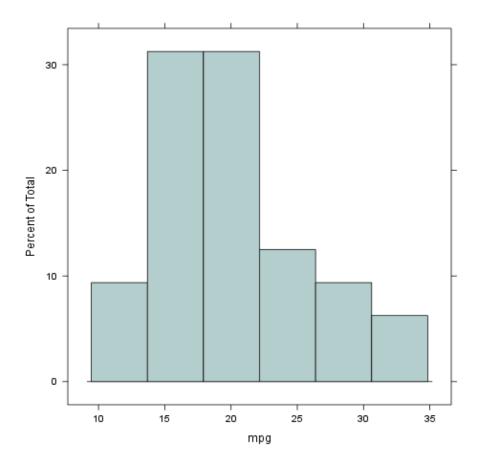
| 10.4 | 13.3 | 14.3 | 14.7 | 15 | 15.2 | 15.5 | 15.8 | |
|------|------|------|------|----|------|------|------|--|
| 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | |

| 16.4 | 17.3 | 17.8 | 18.1 | 18.7 | 19.2 | 19.7 | 21 |
|------|------|------|------|------|------|------|----|
| 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 |

| 21.4 | 21.5 | 22.8 | 24.4 | 26 | 27.3 | 30.4 |
|------|------|------|------|----|------|------|
| 2 | 1 | 2 | 1 | 1 | 1 | 2 |

| 32.4 | 33.9 |
|------|------|
| 1 | 1 |

Tables are boring, let us show the same with a histogram:



 \mathbf{cyl}

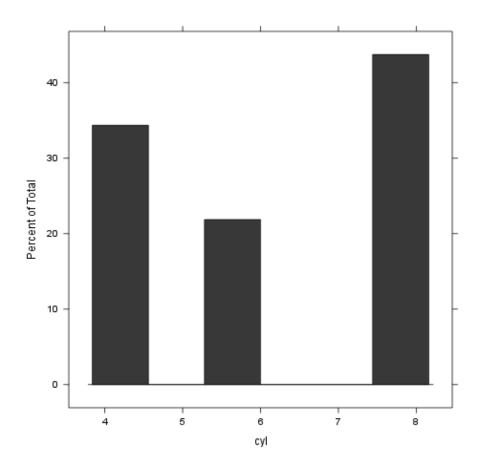
We found the folloing values here:

 $6,\ 6,\ 4,\ 6,\ 8,\ 6,\ 8,\ 4,\ 4,\ 6,\ 6,\ 8,\ 8,\ 8,\ 8,\ 8,\ 8,\ 4,\ 4,\ 4,\ 8,\ 8,\ 8,\ 8,\ 4,\ 4,\ 4,\ 8,\ 6,\ 8$ and 4

The mean of cyl is 6.188 while the standard deviation is: 1.786. The most frequent value in cyl is 8, but let us check out the frequency table too:

| 4 | 6 | 8 |
|----|---|----|
| 11 | 7 | 14 |

Tables are boring, let us show the same with a histogram:



 disp

We found the folloing values here:

 $160.0,\ 160.0,\ 108.0,\ 258.0,\ 360.0,\ 225.0,\ 360.0,\ 146.7,\ 140.8,\ 167.6,\ 167.6,\ 275.8,\ 275.8,\ 275.8,\ 472.0,\ 460.0,\ 440.0,\ 78.7,\ 75.7,\ 71.1,\ 120.1,\ 318.0,\ 304.0,\ 350.0,\ 400.0,\ 79.0,\ 120.3,\ 95.1,\ 351.0,\ 145.0,\ 301.0\ \text{and}\ 121.0$

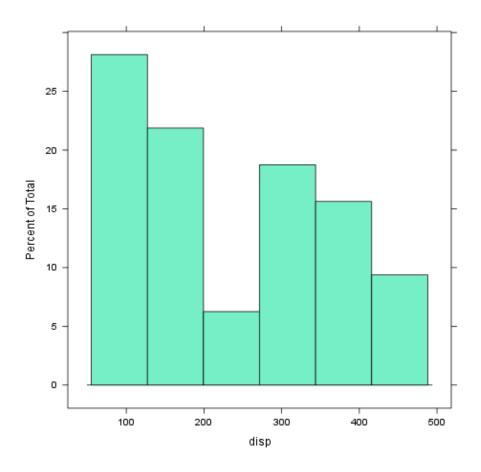
The mean of disp is 230.7 while the standard deviation is: 123.9. The most frequent value in disp is 275.8, but let us check out the frequency table too:

| 71.1 | 75.7 | 78.7 | 79 | 95.1 | 108 | 120.1 | 120.3 |
|------|------|------|----|------|-----|-------|-------|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| 121 | 140.8 | 145 | 146.7 | 160 | 167.6 | 225 | 258 |
|-----|-------|-----|-------|-----|-------|-----|-----|
| 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 |

| 275.8 | 301 | 304 | 318 | 350 | 351 | 360 | 400 | _ |
|-------|-----|-----|-----|-----|-----|-----|-----|---|
| 3 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | |

| 440 | 460 | 472 |
|-----|-----|-----|
| 1 | 1 | 1 |



hp

We found the folloing values here:

110, 110, 93, 110, 175, 105, 245, 62, 95, 123, 123, 180, 180, 180, 205, 215, 230, 66, 52, 65, 97, 150, 150, 245, 175, 66, 91, 113, 264, 175, 335 and 109

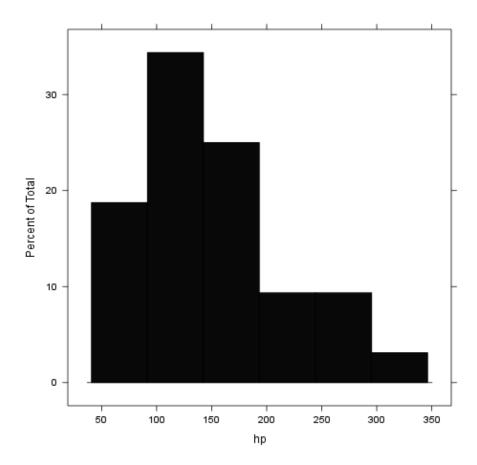
The mean of hp is 146.7 while the standard deviation is: 68.56. The most frequent value in hp is 110, but let us check out the frequency table too:

| 52 | 62 | 65 | 66 | 91 | 93 | 95 | 97 | 105 |
|----|----|----|----|----|----|----|----|-----|
| 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |

| 109 | 110 | 113 | 123 | 150 | 175 | 180 | 205 |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 3 | 1 | 2 | 2 | 3 | 3 | 1 |

| 215 | 230 | 245 | 264 | 335 |
|-----|-----|-----|-----|-----|
| 1 | 1 | 2 | 1 | 1 |

Tables are boring, let us show the same with a histogram:



 \mathbf{drat}

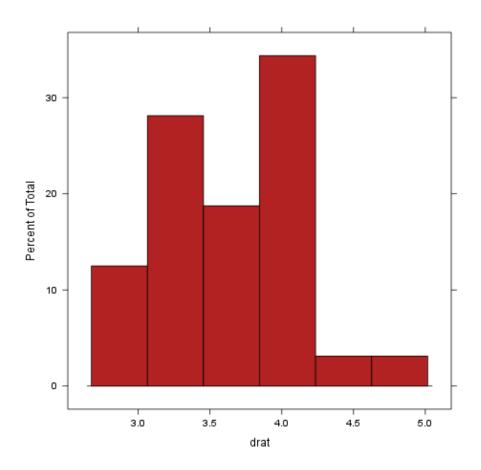
We found the folloing values here:

3.90, 3.90, 3.85, 3.08, 3.15, 2.76, 3.21, 3.69, 3.92, 3.92, 3.92, 3.07, 3.07, 3.07, 2.93, 3.00, 3.23, 4.08, 4.93, 4.22, 3.70, 2.76, 3.15, 3.73, 3.08, 4.08, 4.43, 3.77, 4.22, 3.62, 3.54 and 4.11

The mean of drat is 3.597 while the standard deviation is: 0.5347. The most frequent value in drat is 3.07, but let us check out the frequency table too:

| 2.76 | 2.93 | 3 | 3.07 | 3.08 | 3.15 | 3.21 | 3.23 |
|------|------|------|------|------|------|------|------|
| 2 | 1 | 1 | 3 | 2 | 2 | 1 | 1 |
| | | | | | | | |
| 3.54 | 3.62 | 3.69 | 3.7 | 3.73 | 3.77 | 3.85 | 3.9 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |

| 3.92 | 4.08 | 4.11 | 4.22 | 4.43 | 4.93 | _ |
|------|------|------|------|------|------|---|
| 3 | 2 | 1 | 2 | 1 | 1 | |



 \mathbf{wt}

We found the folloing values here:

 $2.620,\ 2.875,\ 2.320,\ 3.215,\ 3.440,\ 3.460,\ 3.570,\ 3.190,\ 3.150,\ 3.440,\ 3.440,\ 4.070,\ 3.730,\ 3.780,\ 5.250,\ 5.424,\ 5.345,\ 2.200,\ 1.615,\ 1.835,\ 2.465,\ 3.520,\ 3.435,\ 3.840,\ 3.845,\ 1.935,\ 2.140,\ 1.513,\ 3.170,\ 2.770,\ 3.570$ and 2.780

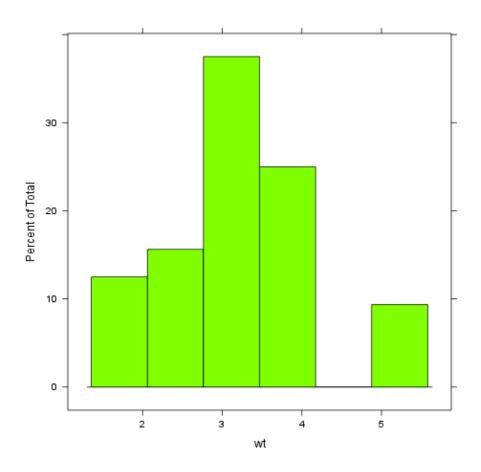
The mean of wt is 3.217 while the standard deviation is: 0.9785. The most frequent value in wt is 3.44, but let us check out the frequency table too:

| 1.513 | 1.615 | 1.835 | 1.935 | 2.14 | 2.2 | 2.32 |
|-------|-------|-------|-------|------|-----|------|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| 2.465 | 2.62 | 2.77 | 2.78 | 2.875 | 3.15 | 3.17 |
|-------|-------|-------|------|-------|------|------|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | |
| 3.19 | 3.215 | 3.435 | 3.44 | 3.46 | 3.52 | 3.57 |
| 1 | 1 | 1 | 3 | 1 | 1 | 2 |

| 3.73 | 3.78 | 3.84 | 3.845 | 4.07 | 5.25 | _ |
|------|------|------|-------|------|------|---|
| 1 | 1 | 1 | 1 | 1 | 1 | _ |

| 5.345 | 5.424 |
|-------|-------|
| 1 | 1 |



\mathbf{qsec}

We found the folloing values here:

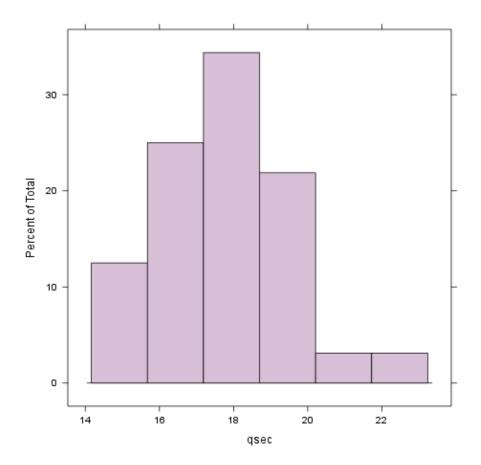
 $16.46,\ 17.02,\ 18.61,\ 19.44,\ 17.02,\ 20.22,\ 15.84,\ 20.00,\ 22.90,\ 18.30,\ 18.90,\ 17.40,\ 17.60,\ 18.00,\ 17.98,\ 17.82,\ 17.42,\ 19.47,\ 18.52,\ 19.90,\ 20.01,\ 16.87,\ 17.30,\ 15.41,\ 17.05,\ 18.90,\ 16.70,\ 16.90,\ 14.50,\ 15.50,\ 14.60 \ \text{and}\ 18.60$

The mean of qsec is 17.85 while the standard deviation is: 1.787. The most frequent value in qsec is 17.02, but let us check out the frequency table too:

| 14.5 | 14.6 | 15.41 | 15.5 | 15.84 | 16.46 | 16.7 | |
|------|------|-------|------|-------|-------|------|--|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | |

| 16.87 | 16.9 | 17.02 | 17.05 | 17.3 | 17.4 | 17.42 |
|-------|-------|-------|-------|------|-------|-------|
| 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| | | | | | | |
| 17.6 | 17.82 | 17.98 | 18 | 18.3 | 18.52 | 18.6 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | |
| 18.61 | 18.9 | 19.44 | 19.47 | 19.9 | 20 | 20.01 |
| 1 | 2 | 1 | 1 | 1 | 1 | 1 |

| 20.22 | 22.9 |
|-------|------|
| 1 | 1 |



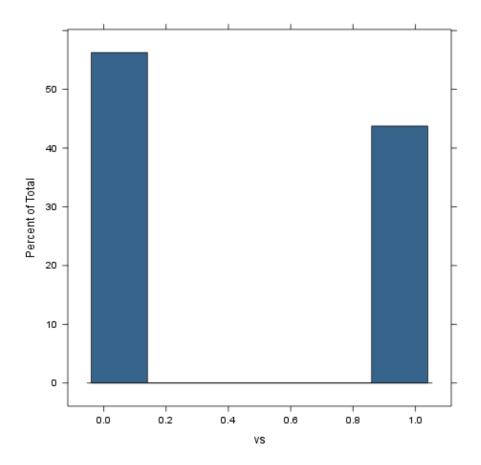
 $\mathbf{v}\mathbf{s}$

We found the folloing values here:

 $0,\ 0,\ 1,\ 1,\ 0,\ 1,\ 0,\ 1,\ 1,\ 1,\ 0,\ 0,\ 0,\ 0,\ 0,\ 1,\ 1,\ 1,\ 1,\ 0,\ 0,\ 0,\ 0,\ 1,\ 0,\ 1,\ 0,\ 0,\ 0$ and 1

The mean of vs is 0.4375 while the standard deviation is: 0.504. The most frequent value in vs is 0, but let us check out the frequency table too:

| 0 | 1 |
|----|----|
| 18 | 14 |

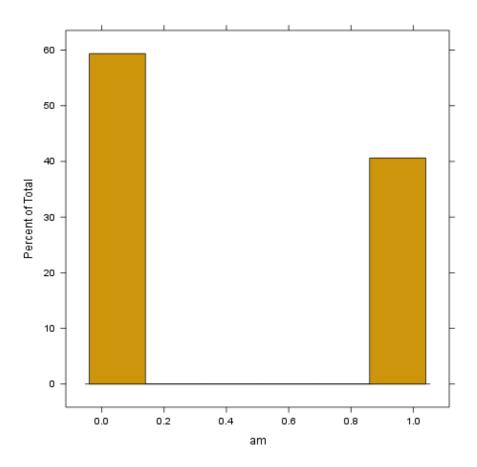


am

We found the folloing values here:

The mean of am is 0.4062 while the standard deviation is: 0.499. The most frequent value in am is 0, but let us check out the frequency table too:

| 0 | 1 |
|----|----|
| 19 | 13 |

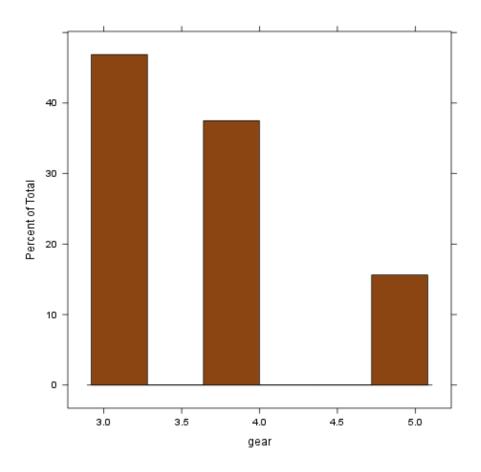


gear

We found the folloing values here:

The mean of gear is 3.688 while the standard deviation is: 0.7378. The most frequent value in gear is 3, but let us check out the frequency table too:

| 3 | 4 | 5 | |
|----|----|---|--|
| 15 | 12 | 5 | |



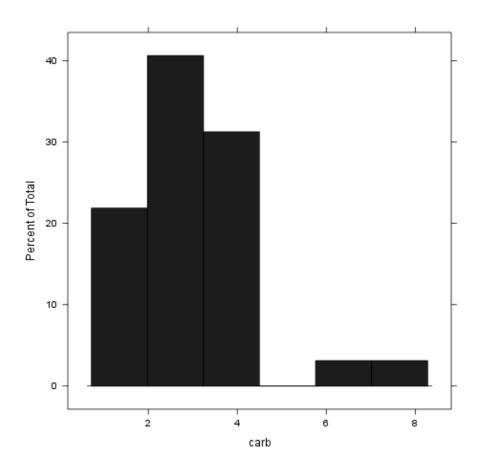
carb

We found the folloing values here:

$$4,\ 4,\ 1,\ 1,\ 2,\ 1,\ 4,\ 2,\ 2,\ 4,\ 4,\ 3,\ 3,\ 3,\ 4,\ 4,\ 4,\ 1,\ 2,\ 1,\ 1,\ 2,\ 2,\ 4,\ 2,\ 1,\ 2,\ 2,\ 4,\ 6,\ 8$$
 and 2

The mean of carb is 2.812 while the standard deviation is: 1.615. The most frequent value in carb is 2, but let us check out the frequency table too:

| 1 | 2 | 3 | 4 | 6 | 8 | _ |
|---|----|---|----|---|---|---|
| 7 | 10 | 3 | 10 | 1 | 1 | |



Correlation

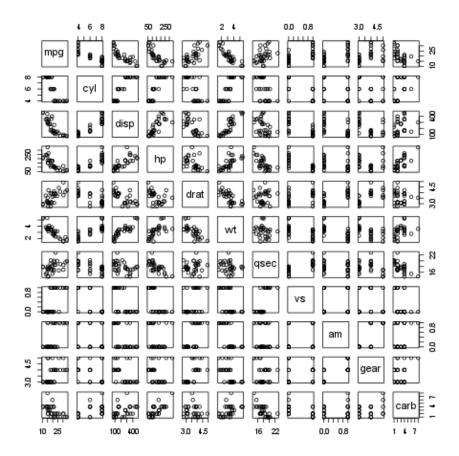
And here goes a correlation table:

| | mpg | cyl | disp | hp | drat |
|------------------------|----------|----------|----------|----------|----------|
| mpg | 1.00000 | -0.85216 | -0.84755 | -0.77617 | 0.68117 |
| cyl | -0.85216 | 1.00000 | 0.90203 | 0.83245 | -0.69994 |
| disp | -0.84755 | 0.90203 | 1.00000 | 0.79095 | -0.71021 |
| $\mathbf{h}\mathbf{p}$ | -0.77617 | 0.83245 | 0.79095 | 1.00000 | -0.44876 |
| \mathbf{drat} | 0.68117 | -0.69994 | -0.71021 | -0.44876 | 1.00000 |
| \mathbf{wt} | -0.86766 | 0.78250 | 0.88798 | 0.65875 | -0.71244 |
| \mathbf{qsec} | 0.41868 | -0.59124 | -0.43370 | -0.70822 | 0.09120 |
| vs | 0.66404 | -0.81081 | -0.71042 | -0.72310 | 0.44028 |
| am | 0.59983 | -0.52261 | -0.59123 | -0.24320 | 0.71271 |
| gear | 0.48028 | -0.49269 | -0.55557 | -0.12570 | 0.69961 |
| carb | -0.55093 | 0.52699 | 0.39498 | 0.74981 | -0.09079 |

| | wt | qsec | vs | am |
|--------------------------------|----------|----------|----------|----------|
| mpg | -0.86766 | 0.41868 | 0.66404 | 0.59983 |
| cyl | 0.78250 | -0.59124 | -0.81081 | -0.52261 |
| $\operatorname{\mathbf{disp}}$ | 0.88798 | -0.43370 | -0.71042 | -0.59123 |
| $\mathbf{h}\mathbf{p}$ | 0.65875 | -0.70822 | -0.72310 | -0.24320 |
| drat | -0.71244 | 0.09120 | 0.44028 | 0.71271 |
| \mathbf{wt} | 1.00000 | -0.17472 | -0.55492 | -0.69250 |
| \mathbf{qsec} | -0.17472 | 1.00000 | 0.74454 | -0.22986 |
| $\mathbf{v}\mathbf{s}$ | -0.55492 | 0.74454 | 1.00000 | 0.16835 |
| am | -0.69250 | -0.22986 | 0.16835 | 1.00000 |
| gear | -0.58329 | -0.21268 | 0.20602 | 0.79406 |
| carb | 0.42761 | -0.65625 | -0.56961 | 0.05753 |

| | gear | carb |
|------------------------|----------|----------|
| mpg | 0.48028 | -0.55093 |
| \mathbf{cyl} | -0.49269 | 0.52699 |
| disp | -0.55557 | 0.39498 |
| $\mathbf{h}\mathbf{p}$ | -0.12570 | 0.74981 |
| drat | 0.69961 | -0.09079 |
| \mathbf{wt} | -0.58329 | 0.42761 |
| \mathbf{qsec} | -0.21268 | -0.65625 |
| $\mathbf{v}\mathbf{s}$ | 0.20602 | -0.56961 |
| am | 0.79406 | 0.05753 |
| gear | 1.00000 | 0.27407 |
| carb | 0.27407 | 1.00000 |

And the same on a graph:



Yeah, that latter took a while to render in an image file :) That's not a pander issue.

Some models

Okay, let us find out how weight affects other variables:

mpg

A simple linear model: mtcars\$wt ~ mtcars\$mpg

| | Estimate | Std. Error | t value | $\Pr(> t)$ |
|-------------|-------------|--------------|--------------|-------------|
| (Intercept) | 6.047e + 00 | 3.087 e - 01 | 1.959e + 01 | 1.204e-18 |
| Independent | -1.409e-01 | 1.474 e - 02 | -9.559e + 00 | 1.294 e-10 |

Table 1: Fitting linear model: mtcars\$wt \sim Independent

cyl

A simple linear model: mtcars\$wt ~ mtcars\$cyl

| | Estimate | Std. Error | t value | $\Pr(> t)$ |
|-------------|-----------|--------------|-----------|-------------|
| (Intercept) | 5.646e-01 | 4.006e-01 | 1.409e+00 | 1.690e-01 |
| Independent | 4.287e-01 | 6.228 e - 02 | 6.883e+00 | 1.218e-07 |

Table 2: Fitting linear model: mtcars\$wt \sim Independent

${\bf disp}$

A simple linear model: mtcars\$wt ~ mtcars\$disp

| | Estimate | Std. Error | t value | $\Pr(> t)$ |
|-------------|-------------|------------|-------------|-------------|
| (Intercept) | 1.600e + 00 | 1.730 e-01 | 9.248e + 00 | 2.738e-10 |
| Independent | 7.010e-03 | 6.629 e-04 | 1.058e + 01 | 1.222e-11 |

Table 3: Fitting linear model: mtcars\$wt \sim Independent

$\mathbf{h}\mathbf{p}$

A simple linear model: mtcars\$wt ~ mtcars\$hp

| | Estimate | Std. Error | t value | $\Pr(> t)$ |
|-------------|-------------|------------|-------------|-------------|
| (Intercept) | 1.838e + 00 | 3.165 e-01 | 5.808e + 00 | 2.389e-06 |
| Independent | 9.401 e-03 | 1.960 e-03 | 4.796e + 00 | 4.146e-05 |

Table 4: Fitting linear model: mtcars\$wt \sim Independent

\mathbf{drat}

A simple linear model: mtcars\$wt ~ mtcars\$drat

| | Estimate | Std. Error | t value | $\Pr(> t)$ |
|-------------|------------|------------|--------------|-------------|
| (Intercept) | 7.906e+00 | 8.522 e-01 | 9.277e + 00 | 2.547e-10 |
| Independent | -1.304e+00 | 2.345 e-01 | -5.561e + 00 | 4.784 e-06 |

Table 5: Fitting linear model: mtcars\$wt \sim Independent

\mathbf{qsec}

A simple linear model: mtcars\$wt ~ mtcars\$qsec

| | Estimate | Std. Error | t value | Pr(> t) |
|-------------|-----------|------------|-----------|----------|
| (Intercept) | 4.924792 | 1.765407 | 2.789607 | 0.009081 |
| Independent | -0.095667 | 0.098433 | -0.971907 | 0.338868 |

Table 6: Fitting linear model: mtcars\$wt \sim Independent

\mathbf{vs}

A simple linear model: mtcars\$wt ~ mtcars\$vs

| | Estimate | Std. Error | t value | $\Pr(> t)$ |
|-------------|--------------|------------|-------------|-------------|
| (Intercept) | 3.689e + 00 | 1.950 e-01 | 1.891e + 01 | 3.203e-18 |
| Independent | -1.077e + 00 | 2.949e-01 | -3.654e+00 | 9.798e-04 |

Table 7: Fitting linear model: mtcars\$wt ~ Independent

am

A simple linear model: mtcars\$wt ~ mtcars\$am

| | Estimate | Std. Error | t value | $\Pr(> t)$ |
|-------------|-------------|------------|--------------|-------------|
| (Intercept) | 3.769e + 00 | 1.646 e-01 | 2.289e + 01 | 1.490e-20 |
| Independent | -1.358e+00 | 2.583e-01 | -5.258e + 00 | 1.125 e-05 |

Table 8: Fitting linear model: mtcars\$wt \sim Independent

gear

A simple linear model: mtcars\$wt ~ mtcars\$gear

| | Estimate | Std. Error | t value | Pr(> t) |
|-------------|------------|------------|------------|--------------|
| (Intercept) | 6.070e+00 | 7.392e-01 | 8.212e+00 | 3.632e-09 |
| Independent | -7.735e-01 | 1.967e-01 | -3.933e+00 | 4.587 e - 04 |

Table 9: Fitting linear model: mtcars\$wt \sim Independent

carb

A simple linear model: mtcars\$wt ~ mtcars\$carb

| | Estimate | Std. Error | t value | $\Pr(> t)$ |
|-------------|-----------|------------|------------------------|--------------|
| (Intercept) | 2.489e+00 | 3.230 e-01 | 7.705e+00 | 1.353 e-08 |
| Independent | 2.590e-01 | 9.998 e-02 | $2.591\mathrm{e}{+00}$ | 1.464 e - 02 |

Table 10: Fitting linear model: mtcars\$wt ~ Independent

This report was generated with R (2.15.1) and pander (0.1) on x86_64-unknown-linux-gnu platform.