# Table Demo

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## Contents



- See the RMarkdown that generated this file
- PDF looks great too!

## 1 Get Data

```
data("mtcars")
```

## 2 Replay The Data Set (May Not Look So Great)

```
mtcars
```

```
##                    mpg cyl  disp  hp drat    wt  qsec vs am gear carb
## Mazda RX4         21.0   6 160.0 110 3.90 2.620 16.46  0  1    4    4
## Mazda RX4 Wag     21.0   6 160.0 110 3.90 2.875 17.02  0  1    4    4
## Datsun 710        22.8   4 108.0  93 3.85 2.320 18.61  1  1    4    1
## Hornet 4 Drive    21.4   6 258.0 110 3.08 3.215 19.44  1  0    3    1
## Hornet Sportabout 18.7   8 360.0 175 3.15 3.440 17.02  0  0    3    2
## Valiant           18.1   6 225.0 105 2.76 3.460 20.22  1  0    3    1
## Duster 360        14.3   8 360.0 245 3.21 3.570 15.84  0  0    3    4
```

```
## Merc 240D           24.4   4 146.7  62 3.69 3.190 20.00  1  0    4    2
## Merc 230            22.8   4 140.8  95 3.92 3.150 22.90  1  0    4    2
## Merc 280            19.2   6 167.6 123 3.92 3.440 18.30  1  0    4    4
## Merc 280C           17.8   6 167.6 123 3.92 3.440 18.90  1  0    4    4
## Merc 450SE          16.4   8 275.8 180 3.07 4.070 17.40  0  0    3    3
## Merc 450SL          17.3   8 275.8 180 3.07 3.730 17.60  0  0    3    3
## Merc 450SLC         15.2   8 275.8 180 3.07 3.780 18.00  0  0    3    3
## Cadillac Fleetwood  10.4   8 472.0 205 2.93 5.250 17.98  0  0    3    4
## Lincoln Continental 10.4   8 460.0 215 3.00 5.424 17.82  0  0    3    4
## Chrysler Imperial   14.7   8 440.0 230 3.23 5.345 17.42  0  0    3    4
## Fiat 128            32.4   4  78.7  66 4.08 2.200 19.47  1  1    4    1
## Honda Civic         30.4   4  75.7  52 4.93 1.615 18.52  1  1    4    2
## Toyota Corolla      33.9   4  71.1  65 4.22 1.835 19.90  1  1    4    1
## Toyota Corona       21.5   4 120.1  97 3.70 2.465 20.01  1  0    3    1
## Dodge Challenger    15.5   8 318.0 150 2.76 3.520 16.87  0  0    3    2
## AMC Javelin         15.2   8 304.0 150 3.15 3.435 17.30  0  0    3    2
## Camaro Z28          13.3   8 350.0 245 3.73 3.840 15.41  0  0    3    4
## Pontiac Firebird    19.2   8 400.0 175 3.08 3.845 17.05  0  0    3    2
## Fiat X1-9           27.3   4  79.0  66 4.08 1.935 18.90  1  1    4    1
## Porsche 914-2       26.0   4 120.3  91 4.43 2.140 16.70  0  1    5    2
## Lotus Europa        30.4   4  95.1 113 3.77 1.513 16.90  1  1    5    2
## Ford Pantera L      15.8   8 351.0 264 4.22 3.170 14.50  0  1    5    4
## Ferrari Dino        19.7   6 145.0 175 3.62 2.770 15.50  0  1    5    6
## Maserati Bora       15.0   8 301.0 335 3.54 3.570 14.60  0  1    5    8
## Volvo 142E          21.4   4 121.0 109 4.11 2.780 18.60  1  1    4    2
```

# 3 Descriptive Statistics

```
# summary(mtcars)

psych::describe(mtcars)
```

```
##      vars  n   mean     sd median trimmed    mad   min    max  range  skew
## mpg     1 32  20.09   6.03  19.20   19.70   5.41 10.40  33.90  23.50  0.61
## cyl     2 32   6.19   1.79   6.00    6.23   2.97  4.00   8.00   4.00 -0.17
## disp    3 32 230.72 123.94 196.30  222.52 140.48 71.10 472.00 400.90  0.38
## hp      4 32 146.69  68.56 123.00  141.19  77.10 52.00 335.00 283.00  0.73
## drat    5 32   3.60   0.53   3.70    3.58   0.70  2.76   4.93   2.17  0.27
## wt      6 32   3.22   0.98   3.33    3.15   0.77  1.51   5.42   3.91  0.42
## qsec    7 32  17.85   1.79  17.71   17.83   1.42 14.50  22.90   8.40  0.37
## vs      8 32   0.44   0.50   0.00    0.42   0.00  0.00   1.00   1.00  0.24
## am      9 32   0.41   0.50   0.00    0.38   0.00  0.00   1.00   1.00  0.36
## gear   10 32   3.69   0.74   4.00    3.62   1.48  3.00   5.00   2.00  0.53
## carb   11 32   2.81   1.62   2.00    2.65   1.48  1.00   8.00   7.00  1.05
##      kurtosis    se
## mpg     -0.37  1.07
## cyl     -1.76  0.32
## disp    -1.21 21.91
## hp      -0.14 12.12
## drat    -0.71  0.09
## wt      -0.02  0.17
```

```
## qsec     0.34  0.32
## vs      -2.00  0.09
## am      -1.92  0.09
## gear    -1.07  0.13
## carb     1.26  0.29
```

# 4 Use Pander To Format Our Summary Results

```
library(pander)

pander(psych::describe(mtcars))
```

Table 1: Table continues below

| | vars | n | mean | sd | median | trimmed | mad | min |
|---|---|---|---|---|---|---|---|---|
| **mpg** | 1 | 32 | 20.09 | 6.027 | 19.2 | 19.7 | 5.411 | 10.4 |
| **cyl** | 2 | 32 | 6.188 | 1.786 | 6 | 6.231 | 2.965 | 4 |
| **disp** | 3 | 32 | 230.7 | 123.9 | 196.3 | 222.5 | 140.5 | 71.1 |
| **hp** | 4 | 32 | 146.7 | 68.56 | 123 | 141.2 | 77.1 | 52 |
| **drat** | 5 | 32 | 3.597 | 0.5347 | 3.695 | 3.579 | 0.7042 | 2.76 |
| **wt** | 6 | 32 | 3.217 | 0.9785 | 3.325 | 3.153 | 0.7672 | 1.513 |
| **qsec** | 7 | 32 | 17.85 | 1.787 | 17.71 | 17.83 | 1.416 | 14.5 |
| **vs** | 8 | 32 | 0.4375 | 0.504 | 0 | 0.4231 | 0 | 0 |
| **am** | 9 | 32 | 0.4062 | 0.499 | 0 | 0.3846 | 0 | 0 |
| **gear** | 10 | 32 | 3.688 | 0.7378 | 4 | 3.615 | 1.483 | 3 |
| **carb** | 11 | 32 | 2.812 | 1.615 | 2 | 2.654 | 1.483 | 1 |

| | max | range | skew | kurtosis | se |
|---|---|---|---|---|---|
| **mpg** | 33.9 | 23.5 | 0.6107 | -0.3728 | 1.065 |
| **cyl** | 8 | 4 | -0.1746 | -1.762 | 0.3157 |
| **disp** | 472 | 400.9 | 0.3817 | -1.207 | 21.91 |
| **hp** | 335 | 283 | 0.726 | -0.1356 | 12.12 |
| **drat** | 4.93 | 2.17 | 0.2659 | -0.7147 | 0.09452 |
| **wt** | 5.424 | 3.911 | 0.4231 | -0.02271 | 0.173 |
| **qsec** | 22.9 | 8.4 | 0.369 | 0.3351 | 0.3159 |
| **vs** | 1 | 1 | 0.2403 | -2.002 | 0.0891 |
| **am** | 1 | 1 | 0.364 | -1.925 | 0.08821 |
| **gear** | 5 | 2 | 0.5289 | -1.07 | 0.1304 |
| **carb** | 8 | 7 | 1.051 | 1.257 | 0.2855 |

# 5 Only Look At A Subset of Variables

```
mynewdata <- subset(mtcars, select = c(mpg, hp))

pander(psych::describe(mynewdata))
```

Table 3: Table continues below

| | vars | n | mean | sd | median | trimmed | mad | min | max |
|---|---|---|---|---|---|---|---|---|---|
| **mpg** | 1 | 32 | 20.09 | 6.027 | 19.2 | 19.7 | 5.411 | 10.4 | 33.9 |
| **hp** | 2 | 32 | 146.7 | 68.56 | 123 | 141.2 | 77.1 | 52 | 335 |

| | range | skew | kurtosis | se |
|---|---|---|---|---|
| **mpg** | 23.5 | 0.6107 | -0.3728 | 1.065 |
| **hp** | 283 | 0.726 | -0.1356 | 12.12 |

# 6 "Hand Built" Table

| Things | Outcome |
|---|---|
| Thing 1 | A |
| Thing 2 | B |