### Camionetas

### Elisa Gaspar

### 2024-04-10

```
library(readr)
camionetas <- read_csv("~/Diplomatura UNPA-YPF/Módulo III/Clase 10 Abril/camionetas.csv")</pre>
## New names:
## Rows: 32 Columns: 17
## -- Column specification
## ----- Delimiter: "," chr
## (1): ...1 dbl (16): mpg, cyl, disp, hp, drat, wt, qsec, vs, am, gear, carb,
## ...13, ......
## i Use 'spec()' to retrieve the full column specification for this data. i
## Specify the column types or set 'show_col_types = FALSE' to quiet this message.
## * '' -> '...1'
## * '' -> '...13'
## * '' -> '...14'
## * '' -> '...15'
## * '' -> '...16'
## * '' -> '...17'
View(camionetas)
head (camionetas$drat)
                       3 3 93 110 175 105
## [1]
head(camionetas)
## # A tibble: 6 x 17
                                    mpg cyl disp
                                                                                      hp drat
                                                                                                                      wt qsec
                                                                                                                                                      ٧s
                                                                                                                                                                      am gear carb ...13
             <chr> <dbl> 
## 1 Mazda~
                                       21
                                                         6
                                                                   160
                                                                                   110
                                                                                                        3
                                                                                                                        9
                                                                                                                                        2
                                                                                                                                                      62
                                                                                                                                                                     16
                                                                                                                                                                                     46
                                                                                                                                                                                                        0
                                                                                                                                                                                                                        1
## 2 Mazda~
                                       21
                                                         6
                                                                   160
                                                                                    110
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                                                                                                                         9
                                                                                                                                        2
                                                                                                                                                   875
                                                                                                                                                                      17
                                                                                                                                                                                        2
                                                                                                                                                                                                        0
                                                                                                                                                                                                                        1
## 3 Datsu~
                                       22
                                                         8
                                                                       4
                                                                                    108
                                                                                                     93
                                                                                                                         3
                                                                                                                                     85
                                                                                                                                                        2
                                                                                                                                                                     32
                                                                                                                                                                                                     61
## 4 Horne~
                                       21
                                                                         6
                                                                                    258
                                                                                                                         3
                                                                                                                                                         3
                                                                                                                                                                                      19
                                                         4
                                                                                                   110
                                                                                                                                      8
                                                                                                                                                                   215
                                                                                                                                                                                                      44
                                                                                                                                                                                                                        1
## 5 Horne~
                                       18
                                                         7
                                                                         8
                                                                                    360
                                                                                                   175
                                                                                                                         3
                                                                                                                                      15
                                                                                                                                                         3
                                                                                                                                                                      44
                                                                                                                                                                                      17
                                                                                                                                                                                                        2
                                                                                                                                                                                                                        0
## 6 Chen ~
                                       18
                                                                         6
                                                                                    225
                                                                                                   105
                                                                                                                         2
                                                                                                                                                        3
                                                                                                                                                                      46
                                                         1
                                                                                                                                      76
## # i 4 more variables: ...14 <dbl>, ...15 <dbl>, ...16 <dbl>, ...17 <dbl>
tail(camionetas$drat)
```

## [1] 91 1 264 175 3 109

```
tail(camionetas)
## # A tibble: 6 x 17
                                 mpg cyl disp hp drat
            . . . 1
                                                                                                        wt qsec
                                                                                                                                          ٧s
                                                                                                                                                         am gear carb ...13
##
            <chr> <dbl> 
## 1 Porsc~ 26 12
                                                            120
                                                                           3 91
                                                                                                                           43
                                                                                                                                         2
                                                                                                                                                        14
                                                                                                       4
                                                                                                                                                                       16
                                                                                                                                                                                       7
                                                                                                                                                                                                        0
                                                                                                                                          77
## 2 Lotus~
                                    30
                                                                  4
                                                                                95
                                                                                           1
                                                                                                           113
                                                                                                                           3
                                                                                                                                                                      513
                                                                                                                                                                                       16
                                                                                                                                                                                                        9
                                                                                                                                                         1
## 3 Ford ~
                                                     8
                                                                  8
                                                                              351
                                                                                            264
                                                                                                                            22
                                                                                                                                                          17
                                    15
                                                                                                           4
                                                                                                                                            3
                                                                                                                                                                        14
                                                                                                                                                                                        5
                                                                                                                                                                                                        0
## 4 RAM
                                    19
                                                     7
                                                                  6
                                                                              145
                                                                                            175
                                                                                                               3
                                                                                                                            62
                                                                                                                                            2
                                                                                                                                                         77
                                                                                                                                                                        15
                                                                                                                                                                                         5
                                                                                                                                                                                                        0
## 5 Ford ~
                                    15
                                                     8
                                                               301
                                                                              335
                                                                                            3
                                                                                                              54
                                                                                                                           3
                                                                                                                                           57
                                                                                                                                                         14
                                                                                                                                                                         6
                                                                                                                                                                                                        1
                                                     4
## 6 Volvo~
                                    21
                                                                   4
                                                                              121
                                                                                            109
                                                                                                                4
                                                                                                                                             2
                                                                                                                                                         78
                                                                                                                                                                        18
                                                                                                                                                                                         6
                                                                                                                                                                                                        1
                                                                                                                            11
## # i 4 more variables: ...14 <dbl>, ...15 <dbl>, ...16 <dbl>, ...17 <dbl>
mean(camionetas$mpg)
## [1] 19.6875
mean(camionetas$cyl)
## [1] 5.09375
class(camionetas)
## [1] "spec tbl df" "tbl df"
                                                                                "tbl"
                                                                                                                       "data.frame"
library(readr)
camionetas <- read csv("~/Diplomatura UNPA-YPF/Módulo III/Clase 10 Abril/camionetas.csv")
## New names:
## Rows: 32 Columns: 17
## -- Column specification
## ------ Delimiter: "," chr
\#\# (1): ...1 dbl (16): mpg, cyl, disp, hp, drat, wt, qsec, vs, am, gear, carb,
## i Use 'spec()' to retrieve the full column specification for this data. i
## Specify the column types or set 'show_col_types = FALSE' to quiet this message.
## * '' -> '...1'
## * '' -> '...13'
## * '' -> '...14'
## * '' -> '...15'
## * '' -> '...16'
## * ' ' -> ' . . . 17'
View(camionetas)
class(camionetas)
```

"data.frame"

## [1] "spec\_tbl\_df" "tbl\_df" "tbl"

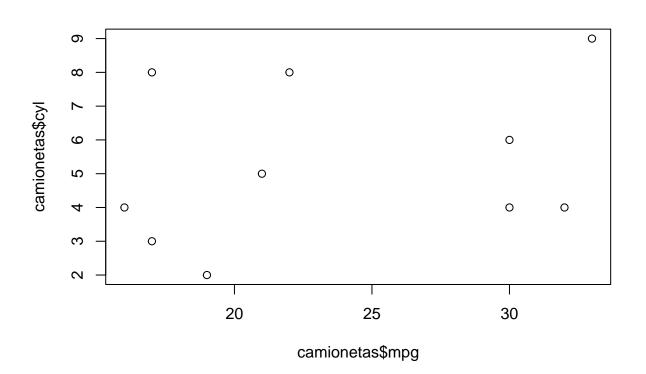
```
camionetas
## # A tibble: 10 x 17
##
                      ...1
                                                                                      disp
                                                                                                                       hp drat
                                                                                                                                                                   wt qsec
                                                                                                                                                                                                                                     am gear carb ...13
                                                  mpg
                                                                        cyl
                                                                                                                                                                                                              ٧S
##
                      <chr> <dbl> 
##
              1 Merc~
                                                      22
                                                                                8
                                                                                                     4
                                                                                                                    140
                                                                                                                                                8
                                                                                                                                                                   95
                                                                                                                                                                                            3
                                                                                                                                                                                                              92
                                                                                                                                                                                                                                        3
                                                                                                                                                                                                                                                          15
                                                                                                                                                                                                                                                                                22
                                                                                                                                                                                                                                                                                                         9
##
                                                                                2
                                                                                                     6
                                                                                                                   167
                                                                                                                                                 6
                                                                                                                                                                                                              92
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                                                                                                                                                                                                                                                          44
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              2 Merc~
                                                      19
                                                                                                                                                               123
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                                                                                                                   167
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##
             3 Merc~
                                                     17
                                                                                                                                                 6
                                                                                                                                                               123
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                                                                                                                                                                                                                                                                               18
                                                                                                                   275
## 4 Merc~
                                                      16
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                                                                                                     8
                                                                                                                                                8
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                                                                                                                                                                                                                                                                               17
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## 5 Merc~
                                                      17
                                                                               3
                                                                                                     8
                                                                                                                    275
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                                                                                                                                                               180
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                                                                                                                                                                                                                 7
                                                                                                                                                                                                                                       3
                                                                                                                                                                                                                                                          73
                                                                                                                                                                                                                                                                               17
                                                                                                                                                                                                                                                                                                         6
## 6 Fiat~
                                                                                                     4
                                                                                                                                                                                                                                       2
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                                                                                                                      75
## 7 Hond~
                                                     30
                                                                               6
                                                                                                     4
                                                                                                                                                7
                                                                                                                                                                 52
                                                                                                                                                                                            4
                                                                                                                                                                                                              93
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                                                                                                                                                                                                                                                                                                      52
                                                                                                                                                                                                                                                                                                        9
## 8 Toyo~
                                                      33
                                                                               9
                                                                                                                       71
                                                                                                                                                                  65
                                                                                                                                                                                                              22
                                                                                                                                                                                                                                                      835
                                                                                                                                                                                                                                                                                19
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## 9 Toyo~
                                                      21
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## 10 Lotu~
                                                      30
                                                                                4
                                                                                                     4
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                                                                                                                                                                                                                                                      513
                                                                                                                                                                                                                                                                                16
## # i 4 more variables: ...14 <dbl>, ...15 <dbl>, ...16 <dbl>, ...17 <dbl>
mean(camionetas$mpg)
## [1] 23.7
camionetas1 <- camionetas[,c(2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)]
camionetas1
## # A tibble: 10 x 14
##
                             mpg
                                                  cyl disp
                                                                                                 hp drat
                                                                                                                                             wt qsec
                                                                                                                                                                                        ٧s
                                                                                                                                                                                                              am gear carb ...13 ...14
##
                      <dbl> 
##
                                22
                                                                                              140
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##
              2
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##
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                                                                                                                                         123
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                                                                                                                                                                                         92
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##
            4
                                16
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##
             5
                                17
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                                                                                                                                          180
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                                                                                                                                                                                                                 3
                                                                                                                                                                                                                                    73
                                                                                                                                                                                                                                                                                                         0
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##
              6
                                32
                                                          4
                                                                               4
                                                                                                 78
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                                                                                                                                             66
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                                                                                                                                                                                                                                                                                47
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                                30
                                                                                                                          7
##
           7
                                                          6
                                                                               4
                                                                                                 75
                                                                                                                                             52
                                                                                                                                                                      4
                                                                                                                                                                                        93
                                                                                                                                                                                                                  1
                                                                                                                                                                                                                                                          18
                                                                                                                                                                                                                                                                                52
                                                                                                                                                                                                                                                                                                         1
                                                                                                                                                                                                                                 615
##
            8
                                33
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                                                                                4
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                                                                                                                                                                                                                                                                                                         1
                                21
                                                         5
                                                                                4
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                                                                                                                                                                                                                  2
                                                                                                                                                                                                                                 465
##
             9
                                                                                              120
                                                                                                                           1
                                                                                                                                                                       3
                                                                                                                                                                                                                                                          20
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                                                                                                                                                                                                                                                                                                         1
## 10
                                30
                                                          4
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                                                                                                                                          113
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                                                                                                                                                                                        77
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                                                                                                                                                                                                                                 513
                                                                                                                                                                                                                                                          16
                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                         1
## # i 1 more variable: ...15 <dbl>
sapply(camionetas1, function(x) mean(x))
                                        cyl disp
                                                                                      hp drat
                                                                                                                                                qsec
                                                                                                                                                                                                   am gear carb ...13 ...14
                 mpg
                                                                                                                                  wt
                                                                                                                                                                             VS
##
              23.7
                                       5.3 5.2 146.3
                                                                                                  5.3 109.4
                                                                                                                                                   3.3
                                                                                                                                                                      49.7
                                                                                                                                                                                                2.3 261.3 18.4 14.9 0.8
## ...15
##
             0.4
mean(camionetas$...16, na.rm = T)
## [1] 3.8
```

camionetas <- na.omit(camionetas)</pre>

```
mean(camionetas$...17, na.rm = T)
## [1] 2.3
camionetas2 <- camionetas[,c(2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15)]
camionetas2
## # A tibble: 10 x 14
##
                                                                                                                                         am gear carb ...13 ...14
                                 cyl disp
                                                                hp drat
                                                                                             wt qsec
                                                                                                                          ٧s
##
              <dbl> 
##
        1
                     22
                                      8
                                                     4
                                                              140
                                                                                 8
                                                                                             95
                                                                                                              3
                                                                                                                           92
                                                                                                                                            3
                                                                                                                                                       15
                                                                                                                                                                      22
                                                                                                                                                                                       9
                                                                                                                                                                                                     1
##
       2
                     19
                                      2
                                                     6
                                                              167
                                                                                  6
                                                                                           123
                                                                                                              3
                                                                                                                          92
                                                                                                                                            3
                                                                                                                                                        44
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       3
                                                                                  6
                                                                                           123
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                                                                                                                          92
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##
                     17
                                      8
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                                                              167
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                                                                                                                                                                      18
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##
      4
                     16
                                      4
                                                    8
                                                              275
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                                                                                           180
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                                                                                                                            7
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                                                                                                                                                                      17
                                                                                                                                                                                                     0
## 5
                     17
                                      3
                                                    8
                                                              275
                                                                                           180
                                                                                                              3
                                                                                                                            7
                                                                                                                                           3
                                                                                                                                                       73
                                                                                                                                                                      17
                                                                                 8
                                                                                                                                                                                       6
                                                                                                                                                                                                     0
##
       6
                     32
                                      4
                                                    4
                                                                78
                                                                                 7
                                                                                            66
                                                                                                              4
                                                                                                                           8
                                                                                                                                           2
                                                                                                                                                       2
                                                                                                                                                                      19
                                                                                                                                                                                     47
                                                                                                                                                                                                     1
##
       7
                     30
                                      6
                                                    4
                                                                75
                                                                                 7
                                                                                            52
                                                                                                              4
                                                                                                                          93
                                                                                                                                                     615
                                                                                                                                                                      18
                                                                                                                                                                                     52
                                                                                                                                                                                                     1
##
                     33
                                                                71
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                                                                                                                                                     835
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      8
                                      9
                                                    4
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                                                                                                              4
                                                                                                                                           1
                                                                                                                                                                      19
                                                                                                                                                                                                     1
##
        9
                     21
                                      5
                                                    4
                                                              120
                                                                                 1
                                                                                             97
                                                                                                              3
                                                                                                                           7
                                                                                                                                           2
                                                                                                                                                     465
                                                                                                                                                                      20
                                                                                                                                                                                       1
                                                                                                                                                                                                     1
## 10
                     30
                                      4
                                                                 95
                                                                                           113
                                                                                                              3
                                                                                                                          77
                                                                                                                                           1
                                                                                                                                                     513
                                                                                                                                                                      16
                                                                                                                                                                                       9
                                                                                                                                                                                                     1
## # i 1 more variable: ...15 <dbl>
sapply(camionetas2, function(x) sd(x))
##
                          mpg
                                                       cyl
                                                                                 disp
                                                                                                                   hp
                                                                                                                                            drat
                                                                                                                                                                             wt
##
            6.7995098
                                        2.3593784
                                                                     1.6865481
                                                                                               76.5695762
                                                                                                                               3.0568684
                                                                                                                                                          44.5500966
                        qsec
##
                                                                                                                                                                       ...13
                                                         VS
                                                                                      am
                                                                                                               gear
                                                                                                                                            carb
##
            0.4830459
                                      42.1163732
                                                                     1.0593499 312.9689548
                                                                                                                               1.7126977 18.4959455
##
                      ...14
                                                   ...15
                                        0.5163978
##
            0.4216370
sd(camionetas$...16, na.rm = T)
## [1] 0.6324555
sd(camionetas$...17, na.rm = T)
## [1] 1.159502
summary(camionetas)
##
                                                                                                                                         disp
                   . . . 1
                                                                                                       cyl
                                                                                                                                                                             hp
                                                                   mpg
## Length:10
                                                       Min.
                                                                    :16.0
                                                                                           Min.
                                                                                                        :2.0
                                                                                                                                              :4.0
                                                                                                                                                              Min.
                                                                                                                                                                               : 71.00
## Class :character
                                                       1st Qu.:17.5
                                                                                           1st Qu.:4.0
                                                                                                                             1st Qu.:4.0
                                                                                                                                                              1st Qu.: 82.25
##
        Mode :character
                                                       Median:21.5
                                                                                           Median:4.5
                                                                                                                            Median:4.0
                                                                                                                                                              Median :130.00
                                                                                                                                             :5.2
##
                                                       Mean
                                                                        :23.7
                                                                                           Mean :5.3
                                                                                                                             Mean
                                                                                                                                                              Mean :146.30
##
                                                       3rd Qu.:30.0
                                                                                           3rd Qu.:7.5
                                                                                                                             3rd Qu.:6.0
                                                                                                                                                               3rd Qu.:167.00
##
                                                       Max.
                                                                       :33.0
                                                                                           Max.
                                                                                                           :9.0
                                                                                                                                                                               :275.00
                                                                                                                            Max.
                                                                                                                                             :8.0
                                                                                                                                                              Max.
```

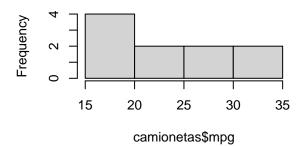
```
qsec
##
         drat
                          wt
                                                            ٧S
                                                                             am
##
    Min.
           :1.00
                           : 52.00
                                                             : 7.00
                                                                               :1.00
                    Min.
                                      Min.
                                             :3.00
                                                      Min.
                                                                       Min.
                    1st Qu.: 73.25
    1st Qu.:2.25
                                      1st Qu.:3.00
                                                      1st Qu.: 7.25
                                                                       1st Qu.:1.25
    Median:6.50
                    Median :105.00
                                      Median:3.00
                                                      Median :49.50
                                                                       Median:2.50
##
##
    Mean
           :5.30
                    Mean
                           :109.40
                                      Mean
                                             :3.30
                                                      Mean
                                                             :49.70
                                                                       Mean
                                                                              :2.30
##
    3rd Qu.:7.75
                    3rd Qu.:123.00
                                      3rd Qu.:3.75
                                                      3rd Qu.:92.00
                                                                       3rd Qu.:3.00
##
    Max.
           :8.00
                    Max.
                           :180.00
                                      Max.
                                             :4.00
                                                      Max.
                                                             :93.00
                                                                       Max.
                                                                              :4.00
##
         gear
                           carb
                                            ...13
                                                           ...14
                                                                          ...15
##
    Min.
           : 2.00
                      Min.
                             :16.00
                                       Min.
                                              : 1.0
                                                       Min.
                                                               :0.0
                                                                      Min.
                                                                             :0.0
                      1st Qu.:17.25
                                       1st Qu.: 4.5
                                                                      1st Qu.:0.0
##
    1st Qu.: 22.25
                                                       1st Qu.:1.0
    Median : 58.50
                      Median :18.00
                                       Median: 9.0
                                                       Median:1.0
                                                                      Median:0.0
          :261.30
##
    Mean
                             :18.40
                                       Mean
                                              :14.9
                                                              :0.8
                                                                      Mean
                                                                             :0.4
                      Mean
                                                       Mean
                                       3rd Qu.: 9.0
                                                                      3rd Qu.:1.0
##
    3rd Qu.:501.00
                      3rd Qu.:19.00
                                                       3rd Qu.:1.0
##
    Max.
           :835.00
                      Max.
                             :22.00
                                              :52.0
                                                                             :1.0
                                       Max.
                                                       Max.
                                                               :1.0
                                                                      Max.
##
        ...16
                        ...17
##
    Min.
           :3.00
                    Min.
                           :1.00
##
    1st Qu.:3.25
                    1st Qu.:1.25
    Median:4.00
                    Median:2.00
##
    Mean
           :3.80
                           :2.30
                    Mean
    3rd Qu.:4.00
                    3rd Qu.:3.00
##
    Max.
           :5.00
                    Max.
                           :4.00
```

### plot(camionetas\$mpg, camionetas\$cyl)

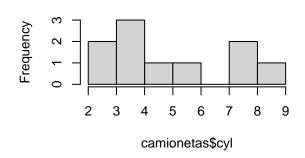


```
par(mfrow=c(2,2))
hist(camionetas$mpg)
hist(camionetas$cyl)
hist(camionetas$disp)
hist(camionetas$hp)
```

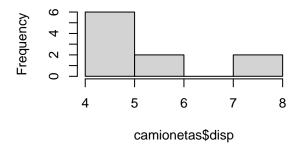
### Histogram of camionetas\$mpg



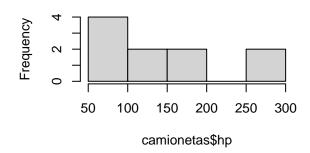
### Histogram of camionetas\$cyl



### Histogram of camionetas\$disp



### Histogram of camionetas\$hp

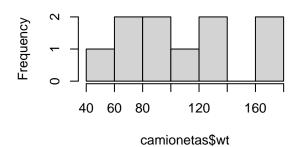


hist(camionetas\$drat)
hist(camionetas\$wt)
hist(camionetas\$qsec)
hist(camionetas\$vs)

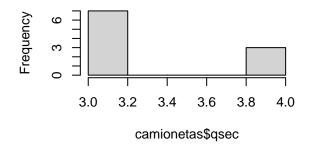
### Histogram of camionetas\$drat

# 2 3 4 5 6 7 8 camionetas\$drat

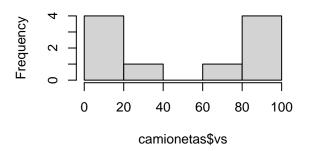
### Histogram of camionetas\$wt



### Histogram of camionetas\$qsec



### Histogram of camionetas\$vs

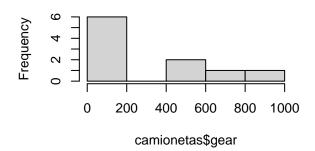


hist(camionetas\$am)
hist(camionetas\$gear)
hist(camionetas\$carb)
hist(camionetas\$...13)

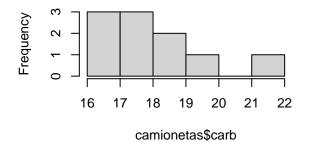
### Histogram of camionetas\$am

# 1.0 1.5 2.0 2.5 3.0 3.5 4.0 camionetas\$am

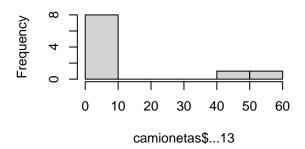
### Histogram of camionetas\$gear



### Histogram of camionetas\$carb



### Histogram of camionetas\$...13

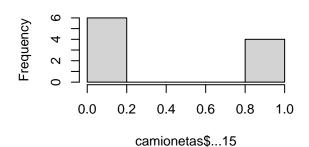


```
hist(camionetas$...14)
hist(camionetas$...15)
hist(camionetas$...16)
hist(camionetas$...17)
```

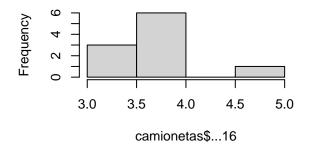
### Histogram of camionetas\$...14

# 0.0 0.2 0.4 0.6 0.8 1.0 camionetas\$...14

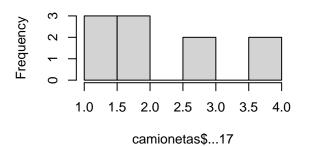
### Histogram of camionetas\$...15



### Histogram of camionetas\$...16



### Histogram of camionetas\$...17



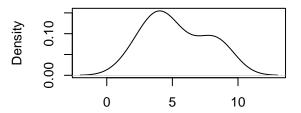
```
par(mfrow=c(2,2))
plot(density(camionetas$mpg))
plot(density(camionetas$cyl))
plot(density(camionetas$disp))
plot(density(camionetas$hp))
```

### density(x = camionetas\$mpg)

### 10 20 30 40

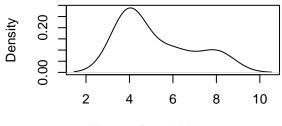
N = 10 Bandwidth = 3.861

### density(x = camionetas\$cyl)



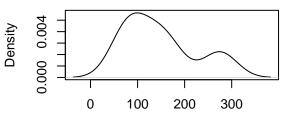
N = 10 Bandwidth = 1.34

### density(x = camionetas\$disp)



N = 10 Bandwidth = 0.8476

### density(x = camionetas\$hp)



N = 10 Bandwidth = 35.92

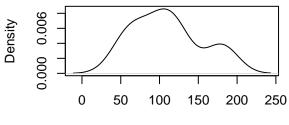
plot(density(camionetas\$drat))
plot(density(camionetas\$wt))
plot(density(camionetas\$qsec))
plot(density(camionetas\$vs))

### density(x = camionetas\$drat)

### 0.00 0.10 0 2 10

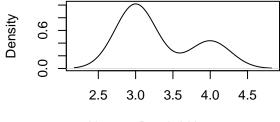
N = 10 Bandwidth = 1.736

### density(x = camionetas\$wt)



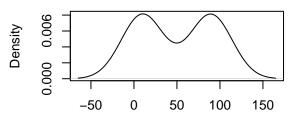
N = 10 Bandwidth = 21.08

### density(x = camionetas\$qsec)



N = 10 Bandwidth = 0.2743

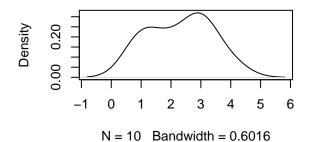
### density(x = camionetas\$vs)



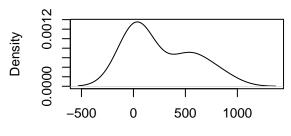
N = 10 Bandwidth = 23.92

plot(density(camionetas\$am))
plot(density(camionetas\$gear))
plot(density(camionetas\$carb))
plot(density(camionetas\$...13))

### density(x = camionetas\$am)

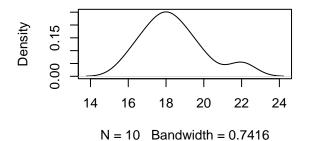


### density(x = camionetas\$gear)

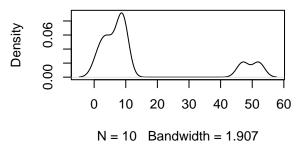


N = 10 Bandwidth = 177.7

### density(x = camionetas\$carb)



### density(x = camionetas\$...13)

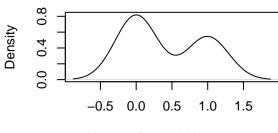


```
plot(density(camionetas$...14))
plot(density(camionetas$...15))
plot(density(camionetas$...16, na.rm = T))
plot(density(camionetas$...17, na.rm = T))
```

### density(x = camionetas\$...14)

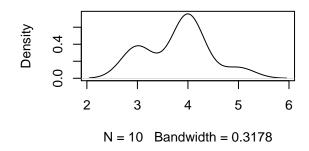
### -0.5 0.0 0.5 1.0 1.5 N = 10 Bandwidth = 0.2394

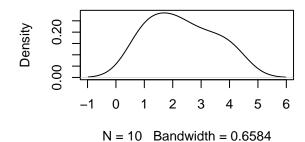
### density(x = camionetas\$...15)



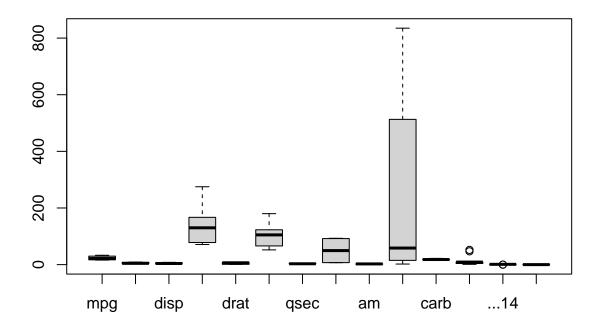
N = 10 Bandwidth = 0.2932

### density(x = camionetas\$...16, na.rm = 1 density(x = camionetas\$...17, na.rm = 1

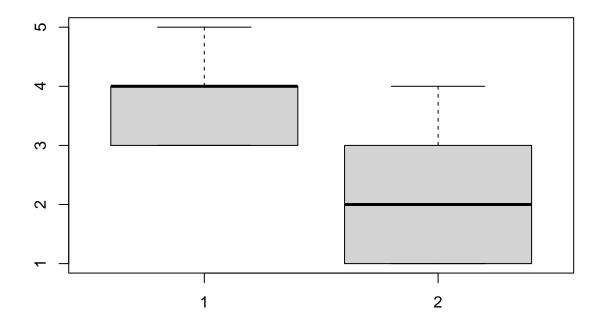




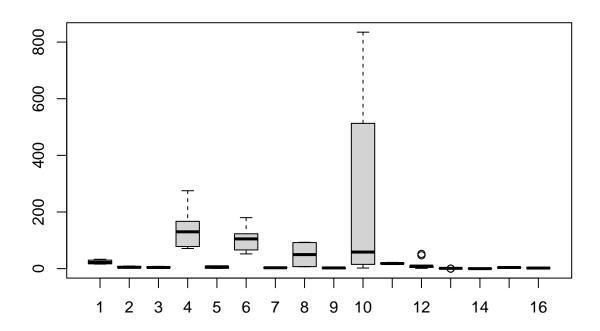
boxplot(camionetas2)



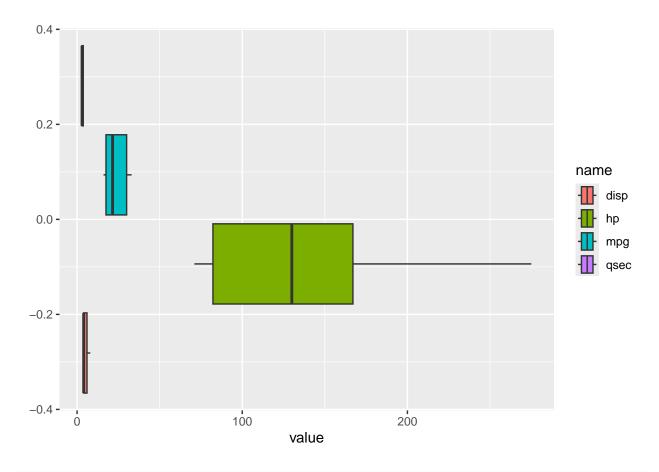
boxplot(camionetas\$...16, camionetas\$...17)



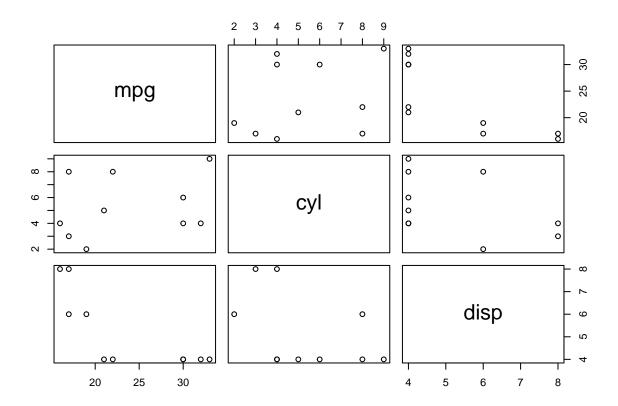
 ${\tt boxplot(camionetas\$mpg, camionetas\$cyl, camionetas\$disp, camionetas\$hp, camionetas\$drat, camionetas\$wt, camionetas\$tyl, camionetas$ tyl, camionetas\$tyl, c



```
library(tidyr)
mtcars_long <- pivot_longer(camionetas, c("mpg", "disp", "hp", "qsec"))
library(ggplot2)
ggplot(mtcars_long, aes(x = value, fill= name)) + geom_boxplot()</pre>
```



plot(camionetas[, 2:4])



### library(GGally)

```
## Registered S3 method overwritten by 'GGally':
```

- ## method from
- ## +.gg ggplot2