Overview of "teengamb" Dataset from "faraway" Package

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This document provides a brief overview of the teengamb dataset in the faraway R package.

```
##
                                         income
                                                           verbal
         sex
                         status
                                            : 0.600
##
   Min.
           :0.0000
                            :18.00
                                                              : 1.00
                     Min.
                                     Min.
                                                      Min.
   1st Qu.:0.0000
                     1st Qu.:28.00
                                     1st Qu.: 2.000
                                                      1st Qu.: 6.00
##
##
   Median :0.0000
                     Median :43.00
                                     Median : 3.250
                                                      Median : 7.00
##
   Mean
           :0.4043
                     Mean
                            :45.23
                                     Mean
                                             : 4.642
                                                      Mean
                                                              : 6.66
   3rd Qu.:1.0000
                     3rd Qu.:61.50
                                     3rd Qu.: 6.210
                                                       3rd Qu.: 8.00
##
   Max.
           :1.0000
                     Max.
                            :75.00
                                            :15.000
                                                       Max.
                                                              :10.00
##
                                     Max.
##
        gamble
##
   Min. : 0.0
##
   1st Qu.: 1.1
##
   Median: 6.0
   Mean : 19.3
   3rd Qu.: 19.4
##
   Max. :156.0
```

From the summary, and the associated help (not shown), the following observations can be made:

The dataframe contains 47 rows and 5 columns.

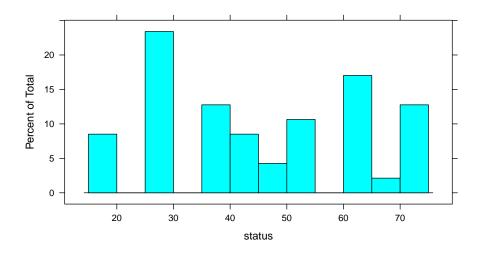


Figure 1: Histogram of the status variable

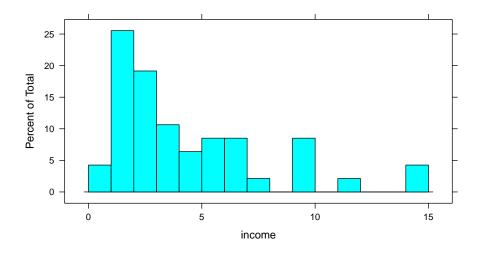


Figure 2: Histogram of the income variable

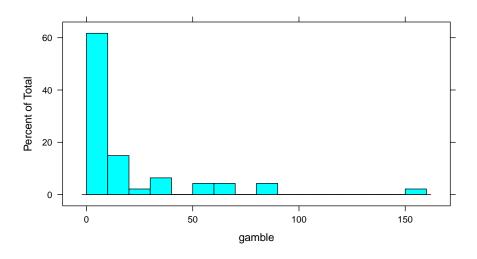
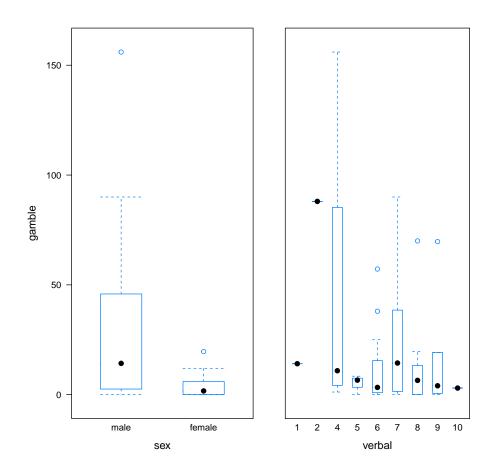


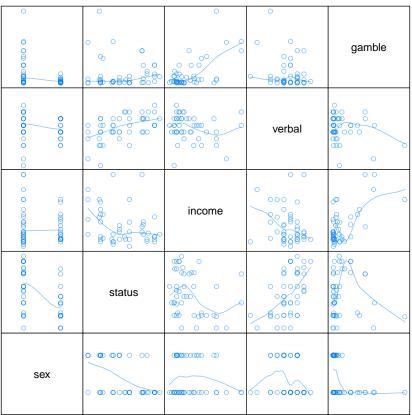
Figure 3: Histogram of the gamble variable



```
##
## Welch Two Sample t-test
##
## data: gamble by sex
## t = 3.6227, df = 28.503, p-value = 0.001123
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## 11.27085 40.54758
## sample estimates:
## mean in group male mean in group female
## 29.775000 3.865789
```

```
# Sex has been coded as integer values 0
# and 1. 40% of the observations are
# female.
```

Scatter Plot Matrix of teengamb



Scatter Plot Matrix

Figure 4: multi-variate comparisons

Correlogram of teengamb

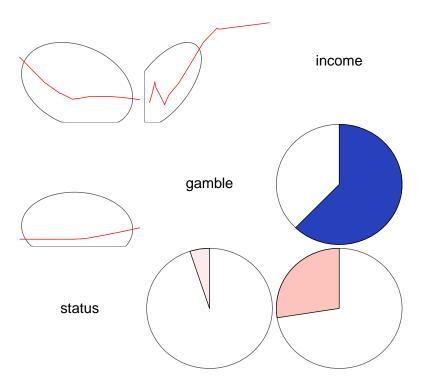


Figure 5: multi-variate comparisons