

# Overview of “sat” Dataset from “faraway” Package

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

##	expend	ratio	salary	takers
##	Min. :3.656	Min. :13.80	Min. :25.99	Min. : 4.00
##	1st Qu.:4.882	1st Qu.:15.22	1st Qu.:30.98	1st Qu.: 9.00
##	Median :5.768	Median :16.60	Median :33.29	Median :28.00
##	Mean :5.905	Mean :16.86	Mean :34.83	Mean :35.24
##	3rd Qu.:6.434	3rd Qu.:17.57	3rd Qu.:38.55	3rd Qu.:63.00
##	Max. :9.774	Max. :24.30	Max. :50.05	Max. :81.00
##	verbal	math	total	
##	Min. :401.0	Min. :443.0	Min. : 844.0	
##	1st Qu.:427.2	1st Qu.:474.8	1st Qu.: 897.2	
##	Median :448.0	Median :497.5	Median : 945.5	
##	Mean :457.1	Mean :508.8	Mean : 965.9	
##	3rd Qu.:490.2	3rd Qu.:539.5	3rd Qu.:1032.0	
##	Max. :516.0	Max. :592.0	Max. :1107.0	

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

The dataframe contains 50 rows and 7 columns.

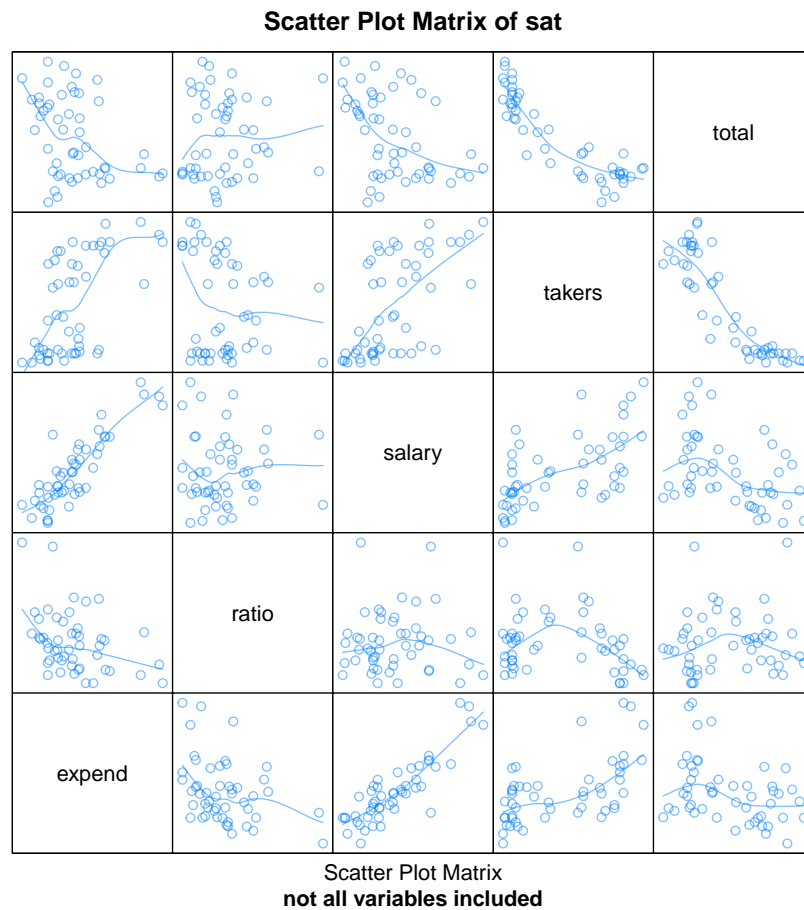


Figure 1: multi-variate comparisons

```
# Row names give the specific US State
# name. There are no factor variables for
# coding.

# The math and verbal variables are
# highly correlated with each other and
# the total variable. They will not be
# shown in the splom.
```

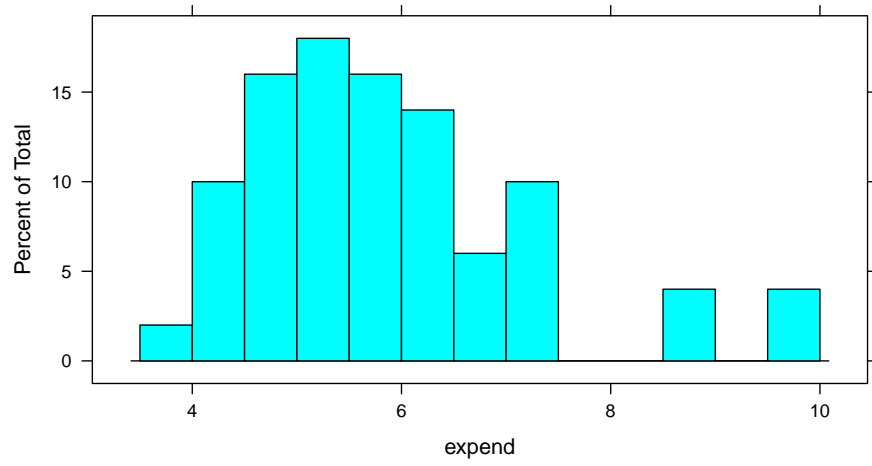


Figure 2: Histogram of the expend variable

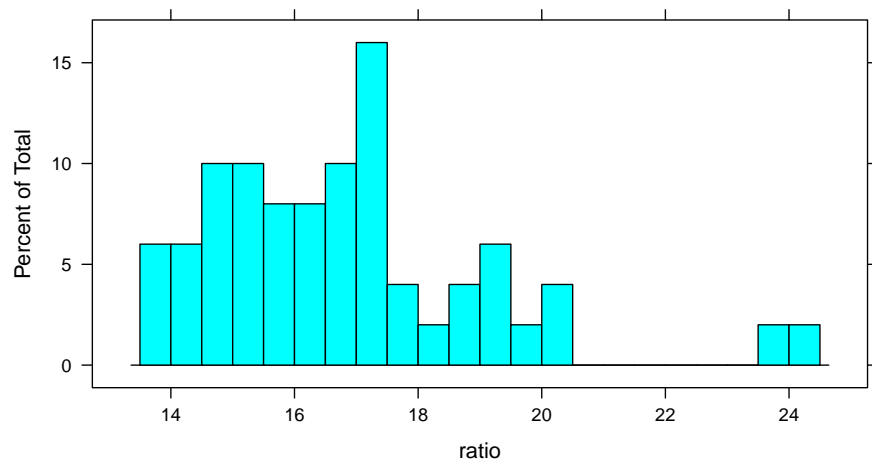


Figure 3: Histogram of the ratio variable

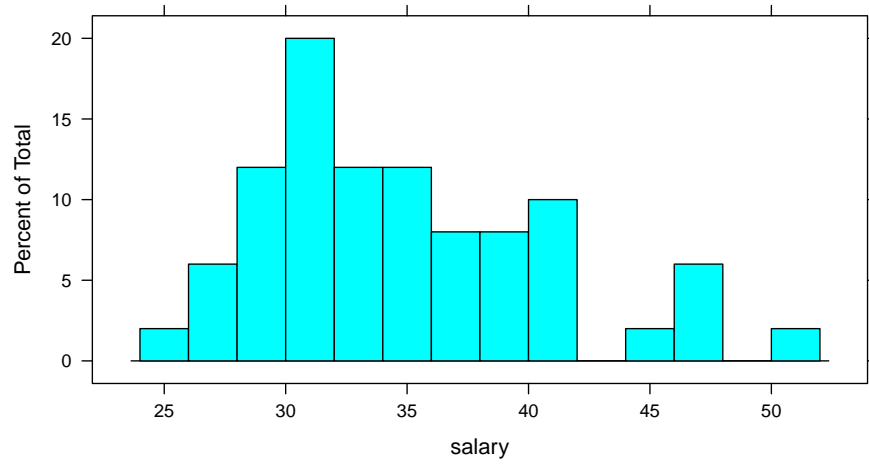


Figure 4: Histogram of the salary variable

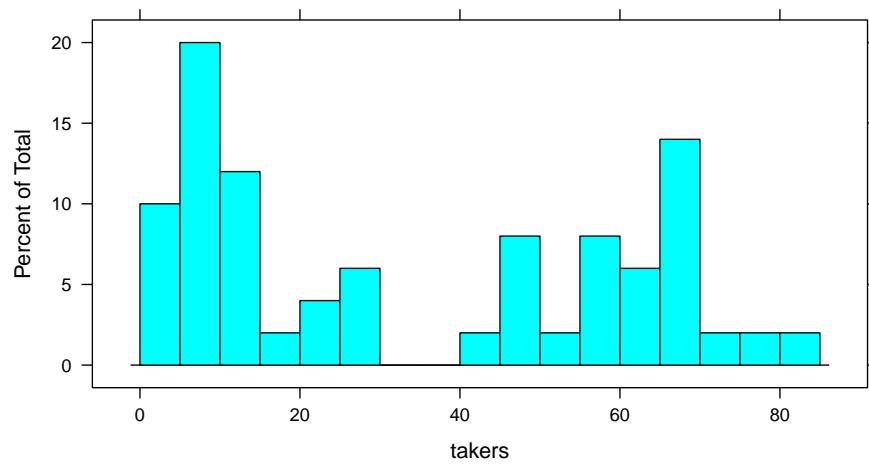


Figure 5: Histogram of the takers variable

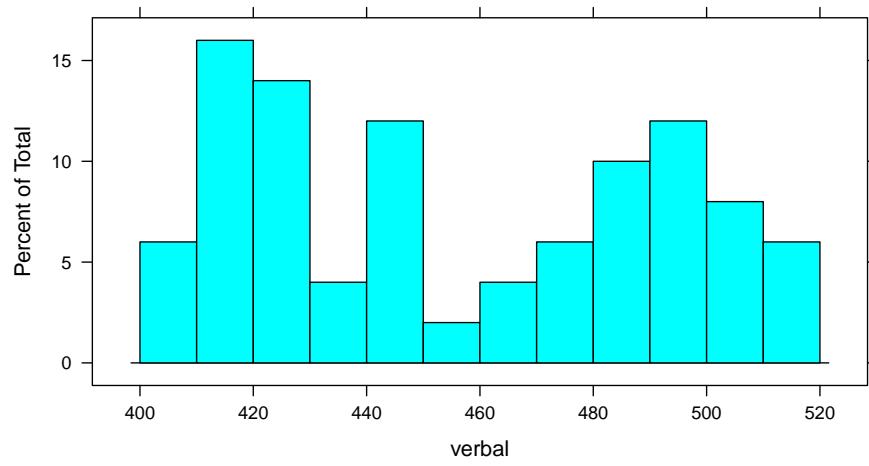


Figure 6: Histogram of the verbal variable

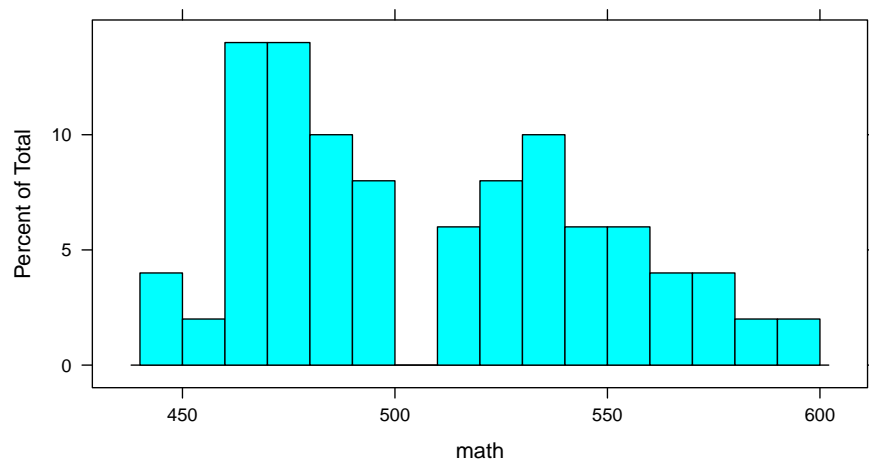


Figure 7: Histogram of the math variable

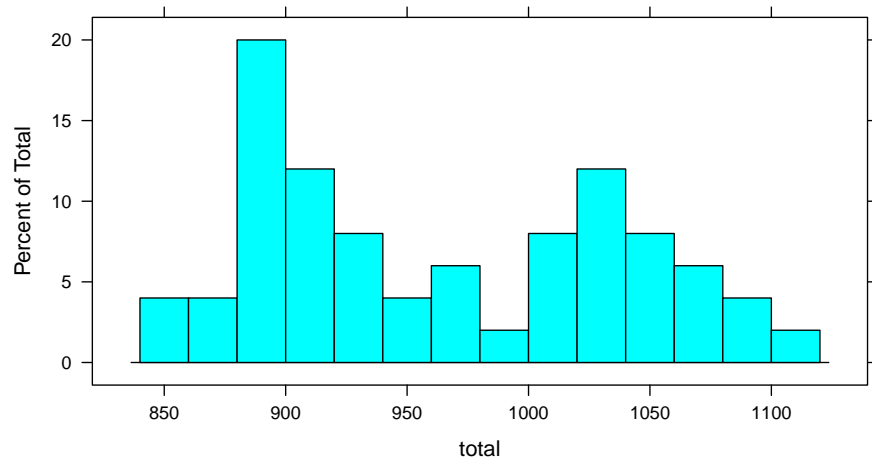


Figure 8: Histogram of the total variable

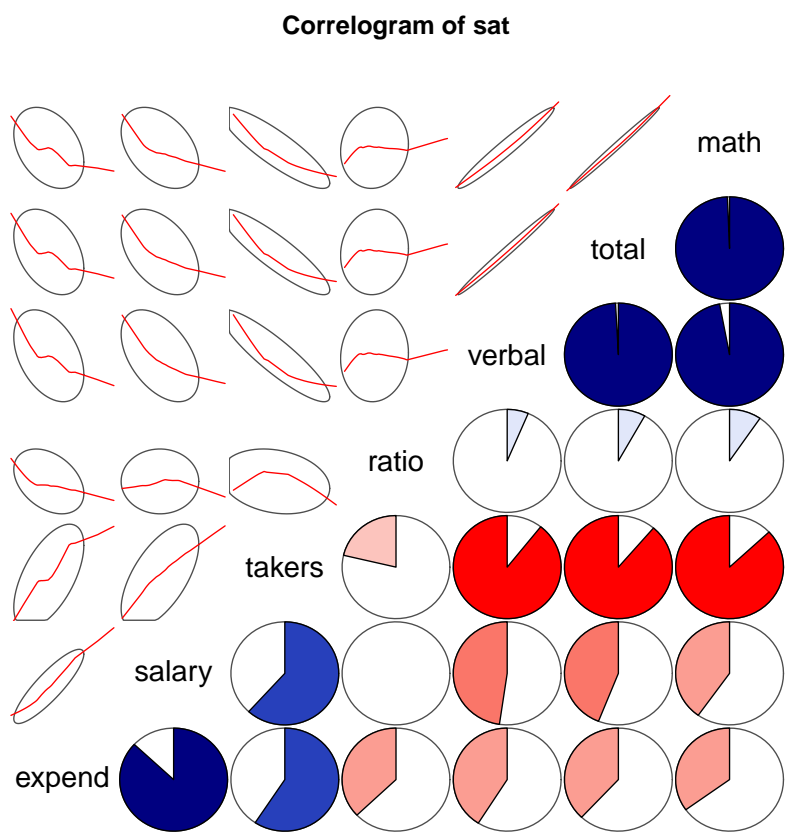


Figure 9: Correlogram