

Overview of “divusa” Dataset from “faraway” Package

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

##	year	divorce	unemployed	femlab
##	Min. :1920	Min. : 6.10	Min. : 1.200	Min. :22.70
##	1st Qu.:1939	1st Qu.: 8.70	1st Qu.: 4.200	1st Qu.:27.47
##	Median :1958	Median :10.60	Median : 5.600	Median :37.10
##	Mean :1958	Mean :13.27	Mean : 7.173	Mean :38.58
##	3rd Qu.:1977	3rd Qu.:20.30	3rd Qu.: 7.500	3rd Qu.:47.80
##	Max. :1996	Max. :22.80	Max. :24.900	Max. :59.30
##	marriage	birth	military	
##	Min. : 49.70	Min. : 65.30	Min. : 1.940	
##	1st Qu.: 61.90	1st Qu.: 68.90	1st Qu.: 3.469	
##	Median : 74.10	Median : 85.90	Median : 9.102	
##	Mean : 72.97	Mean : 88.89	Mean :12.365	
##	3rd Qu.: 80.00	3rd Qu.:107.30	3rd Qu.:14.266	
##	Max. :118.10	Max. :122.90	Max. :86.641	

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

The dataframe contains 77 rows and 7 columns.

Correlogram of divusa

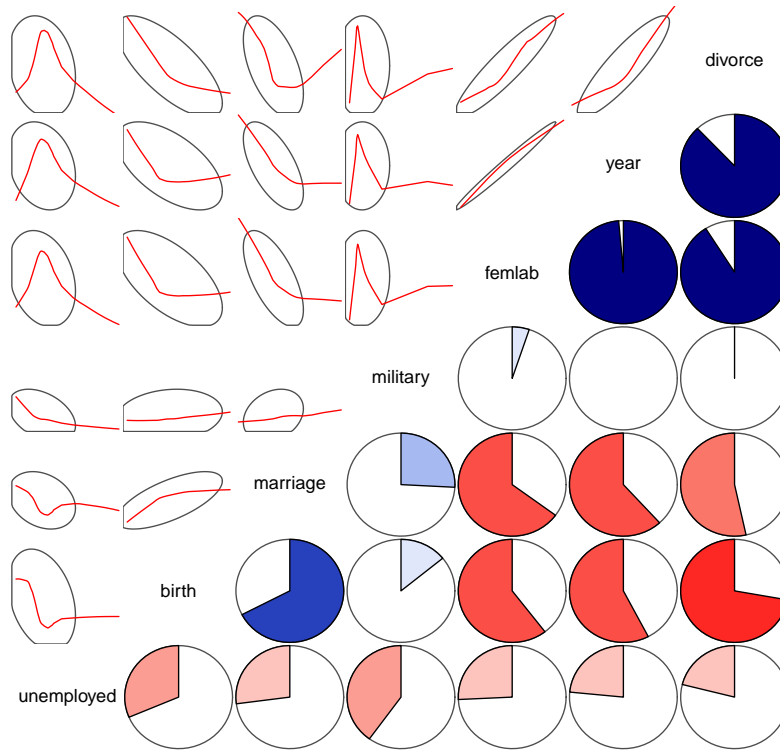


Figure 1: multi-variate comparisons

```
# Year is an integer value and should be
# used as a time series.

df <- df %>% mutate(year = ts(year, frequency = 1))
```

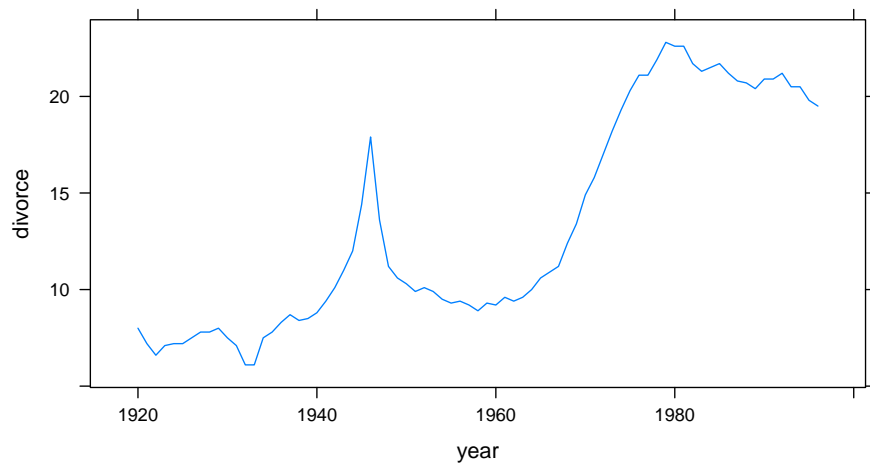


Figure 2: Time Series plot of divorce against year

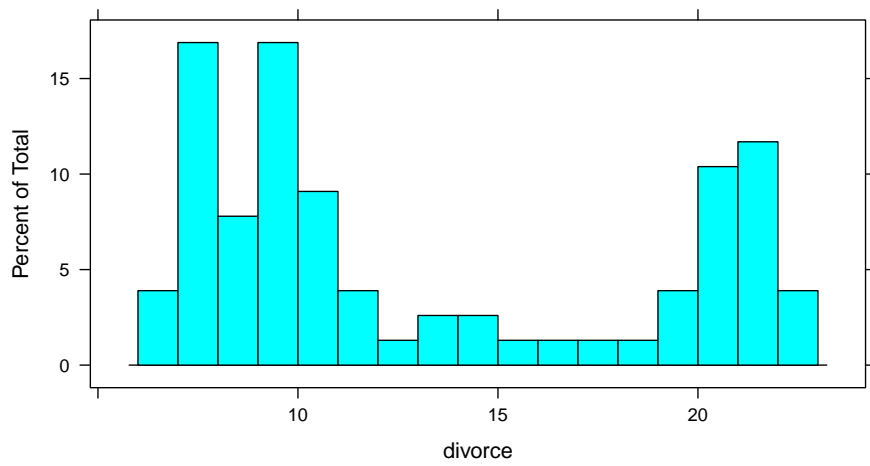


Figure 3: Histogram of the divorce variable

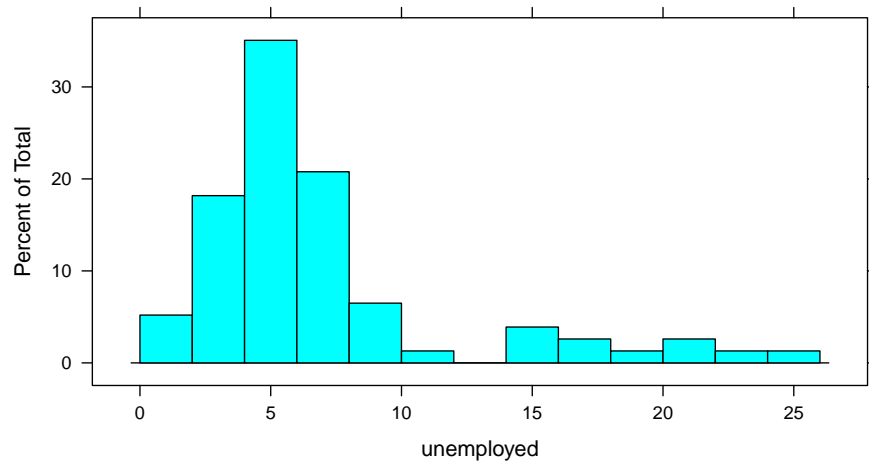


Figure 4: Histogram of the unemployed variable

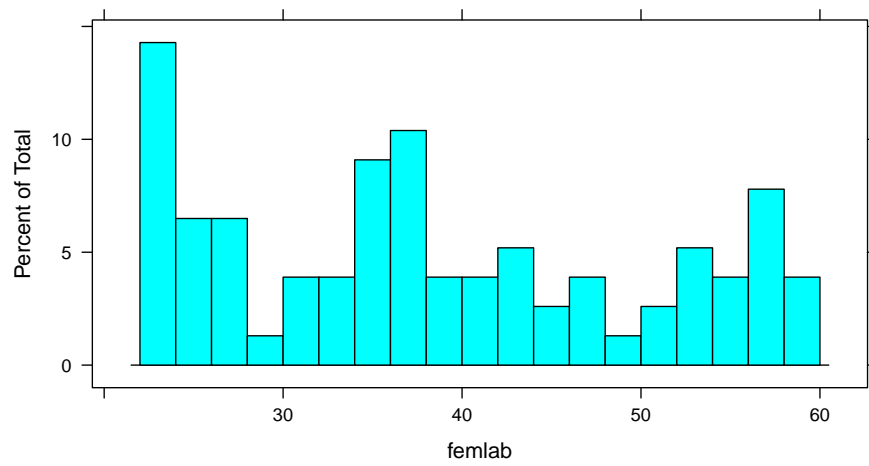


Figure 5: Histogram of the femlab variable

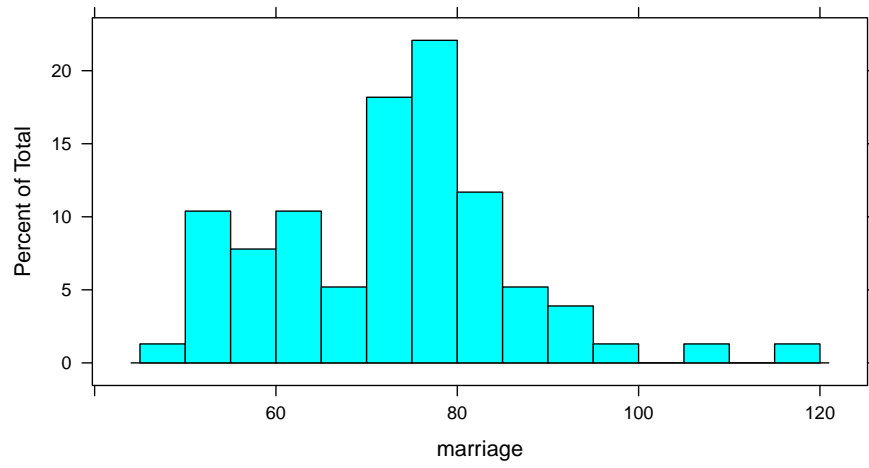


Figure 6: Histogram of the marriage variable

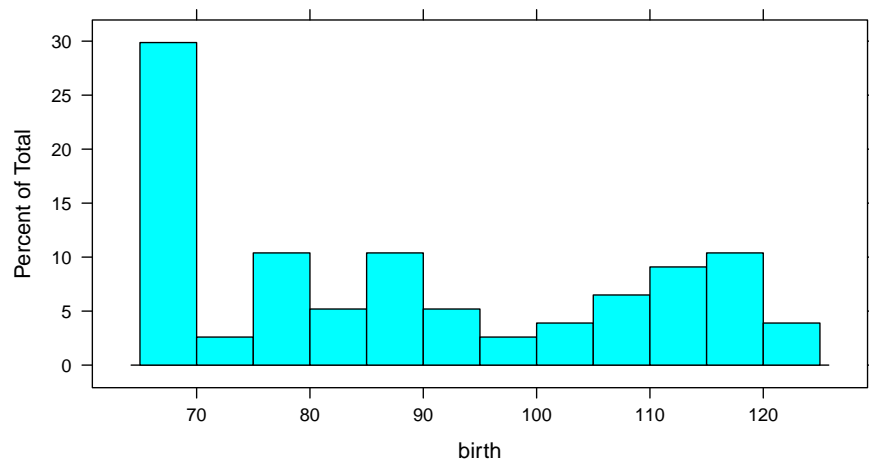


Figure 7: Histogram of the birth variable

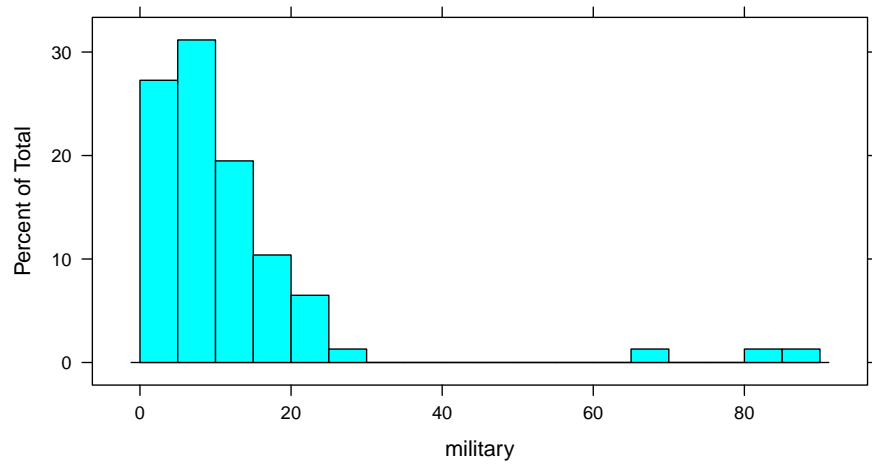


Figure 8: Histogram of the military variable

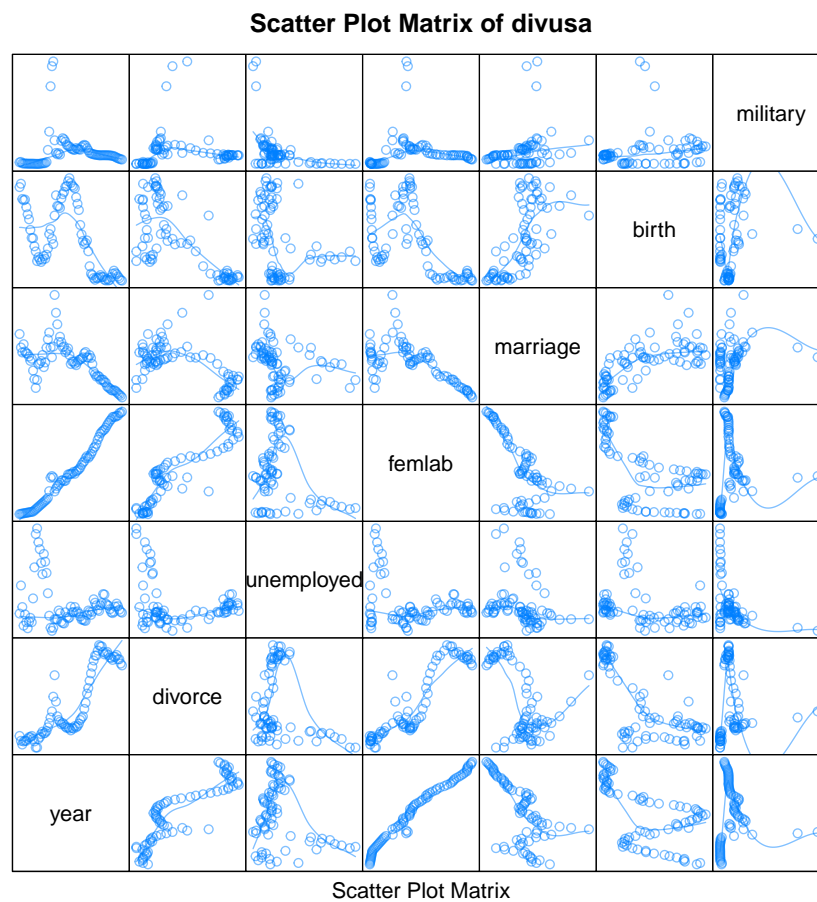


Figure 9: multi-variate comparisons