

R to LaTeX, Univariate Analysis

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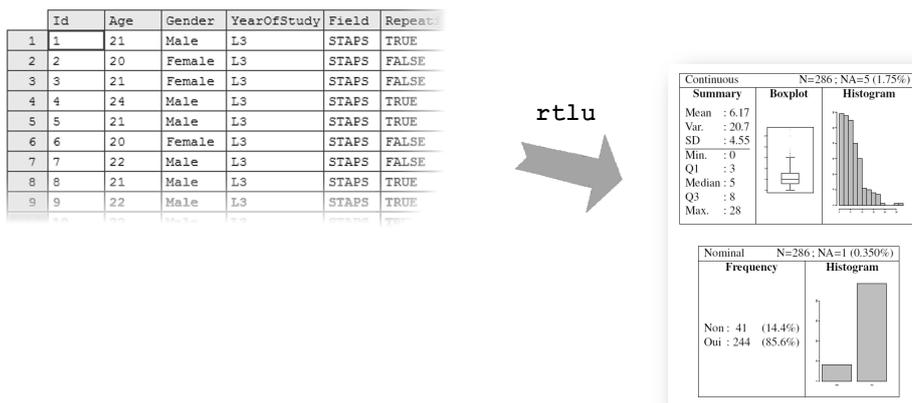
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Abstract

The package **r2lUniv** (R to LaTeX, Univariate analysis) provides facilities to export some R analysis in a LaTeX format. Working either on a single variable or on a data.frame, its main function **rtlu** computes several statistics and graphical output for each variable, according to their nature. Four kinds of variable are considered:

- For **nominal** variables (factor, logical and characters), rtlu display frequencies and barplot.
- For **ordinal** variables (ordered), rtlu computes frequencies, quartiles and barplot.
- Numerical variables (numeric and integer) are split in two categories. Numerical variables with only few modalities are considered as **discrete**. For discrete variables, rtlu performs frequencies, mean, standard deviation, quartiles, boxplot and barplot.
- Other numerical are **continuous**. For continuous variables, rtlu calculates mean, standard deviation, quartile, boxplot and histogram.

To illustrate its way of working, rtlu uses a data set resulting from enquiries led by some second year students of the University of Paris Ouest that had decide to investigate the “Exam Cheating in French Universities” [?].



Keywords: Interface to other languages, Univariate analysis, LaTeX

References

- [1] Christophe M. Genolini, *EPO2007: Exam cheating at French University*, <http://christophe.genolini.free.fr/EPO/EPO2007-Fraude.php>.