rapport, an *R* report template system

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*rapport* is an *R* package aimed at creating reproducible statistical report templates. The goal of this talk is to discuss *rapport*’s unique approach to report reproducibility through a blend of literate programming and template-based reporting, that allows the user to replicate his analysis against any suitable dataset, by means of a simple *R* command. We will explain the usage of template-specific inputs that one can match against the dataset variables or custom *R* objects in order to produce a report. The role of *Pandoc* document converter in *rapport* templates will be discussed alongside its importance in export of the rendered reports to plethora of external formats. We will unveil how *rapport* uses *brew*-style tags (<% %>) in order to evaluate *R* expressions and how is the output of the evaluated expressions “guessed” and displayed in an appropriate manner. *pander* backend will also be discussed, as it provides a robust cache engine, applies a uniform look to all the *graphics*, *lattice* or *ggplot2* plots and permits the manipulation of template parts via *R* control structures. *rapport*’s (dis)similarities with packages like *brew*, *Sweave* or *knitr* will be exposed. We will see what justifies the claim that “*rapport* was built with the Web in mind” and how does *rapport* fit into web-developer’s daily routine in general.

**References**

