**R2HTML package**

formatting HTML output on the fly
or by using a template scheme

Eric Lecoutre
Institut de statistique, Université catholique de Louvain
<lecoutre@stat.ucl.ac.be>

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We will present the **R2HTML** package. Basically, this package consists in a set of functions similar to base **print** or **cat** functions. Those functions allow to "export" R objects to a web page, by writing the **HTML** tags, as flat text. Thus, it is possible to every R user to manage complex **HTML** reports, without any **HTML** knowledge.

The package was initially designed for teaching purpose: the user may ask for an interactive output, all commands being automatically redirected to a **HTML** page. When using this functionnality, output are presented by using so called **HTML** frames, displaying both commands and their corresponding output at the same time. Only graphs have to be explicitly exported by using the command **HTMLplot()**, as there is no way to know when the user want to insert one graph (consider making a graph and adding lines on it). At the end of a training session, the student can take all the output with him - including graphs, exported as **PNG** of **JPEG**.

We will also illustrate a way of using the package to create complex reports for statistical analysis, which look can easily be modified. For that, we will use a sample analysis that returns an object (a list with a custom class), create a function that exports this object by exporting its pieces with the functions provided by the package. Thus, analysis and reporting are separated. Finally, we will demonstrate the power of **CSS** (Cascading Style Sheets) to also separate formatting instructions.

Latest version of **R2HTML** package is available to download in **CRAN** and comes with a vignette explaining it’s uses.