Shiny-*ing* compareGroups

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The **compareGroups** package is an utility tool available on CRAN designed to build tables containing descriptions of several variables stratified by groups that can be displayed in a clear, easy to read format on the *R* console, or included in a LaTeX report, or exported to CSV or HTML file. Since 2010 when **compareGroups** package was first presented at useR! 2010 conference [1], a lot of work has been done to debug and improve it till the 2.1 current version, incorporating several important changes and innovations to improve its functionality and its capability, improving customisation of output tables (including number of decimals, categorisation, character formatting etc.), reading and coding raw SNP data using the functionality of the **SNPassoc** package[2], with quality control processes and summary outputs. The vignette has been extended with several examples, in line with new functionality, using data from a longitudinal RCT with >7,000 individuals: the PREDIMED study [3]. A paper about this package has been reviewed and accepted at the Journal of Statistical Software and it's only pending to be shortly published .

Shiny[4] is an elegant and powerful web framework for building interactive reports and visualizations using R - with or without web development skills. By Shiny analyses can be turn into interactive web applications that anyone can use. The users choose input parameters using easy and fiendly controls. The output incorporates any number of plots, tables, and summaries. We use the Shiny Server software to put our **compareGroups** package in an open free-access web. Users need only a web browser to access at our applications URL.

It opens a world of possibilities for analysts and students. Users only need prepare a data base in *SPSS*, *TEXT*, *EXCEL* or *R*. The menu (see figure) helps the users to produce the tables and figures they want. The output can be seen in the screen or be saved in different formats: the tables in *PDF*, *HTML* or Text file and the figures in *PDF*, *BMP*, *JPG*, *RPNG* or *TIF*.

References

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[3] Estruch R, Ros E, Salas-Salvadó J, Covas MI, Corella D,Arós F, et al. *Primary Prevention of Cardiovascular Disease with a Mediterranean Diet*. New England Journal of Medicine. vol 368-14, 1279-1290. 2013.

[4] URL http://www.rstudio.com/shiny/.