Dear Zagreb course students,

We will use R in the hands-on analyses portions of the course. We ask that you please download R and the interface RStudio (both are totally free and available online) and install some necessary R packages **BEFORE** the course starts. This takes some time, but will save us a lot of time in the lessons. You will need your laptop and a stable internet connection to proceed. Just follow the directions below.

Installing R & RStudio
1. Installing R:
    a. go to www.r-project.org
    b. go to "download R"
    c. pick the option for the mirror "Croatia", and choose a local option (this choice doesn't really matter..)
    d. go to "Download R for ___" and pick the right operating system (e.g. Windows or Mac)
    e. go through the installation process and follow the instructions
2. Installing RStudio:
    a. go to www.rstudio.com
    b. go to "Download RStudio"
    c. go to "Download" for the Free Desktop Option
    d. pick the right operating system under "Installers for Supported Platforms"
    e. go through the installation process and follow the instructions

To start using R/RStudio:
Simply open RStudio, R will run in the background (Sort of like how Chrome is a browser for the internet. You 'see' the Chrome interface, but you browse the internet 'behind' it).

If you have problems up to here:
- try to ask colleagues or troubleshoot online
- try using: http://r-tutorial.nl/
- email us: jessica.rohmann@charite.de or marco.piccininni@charite.de

Running your first R Script (if you could install R and RStudio successfully) to install the requisite packages:
1. download the file we've attached called PackageInstallation.R and save it on your laptop in a folder you will be able to easily find.
2. now, open RStudio
3. go to: File > Open File…
4. choose the file PackageInstallation.R from the folder you saved it in
5. now, RStudio shows you the R Script file top left and the R Console bottom left.
6. to execute a individual command line in the Script, put the cursor in the line of the command which you want to execute and press the button "Run" in the top right corner of the Script (you will see that the command line will appear in the Console below).

7. to execute the entire R Script, highlight everything and press "Run". (We would like you to do this for this script now).
8. The installation process might take some time, depending on your internet connection. If everything works well, you should now see something having been printed in the Console in black, just as a graphic on the right hand side.
9. Do not worry if you get some messages (in red)
10. In the end, it should give you a message like 'packages successfully installed'. Note: we may not use all of the packages in the seminars, but they are useful to have installed.

Note: Once you have R, RStudio and the packages installed, you will not need to have an active internet connection to work with RStudio.