R-intro: software installation in Windows

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7 de Julho de 2018

Contents

Installing the required software for the course

The following software are required/mandatory to the course:

- *R* version 3.5 (as of 7/7/2018) [http://cran.radicaldevelop.com/] (the portuguese CRAN mirror)

- *RStudio* version 1.1.453 (as of 7/7/2018) [https://www.rstudio.com/products/rstudio/download/#download]

Installing optional software for the course

The following software is optional (but recommended) to this R-intro course. Since the course will mainly be developed in Rmarkdown format, it is generally a good idea enabling RStudio to create pdf files. We will also install a set of functionalities that will allow R to build package (in Windows only.. for now).

Building packages and creating pdf files in Windows

Enabling R to build packages

- Install *RTools* - check which version corresponds to your installed R (usually the most recent is recommended) [https://cran.r-project.org/bin/windows/Rtools/index.html]

Enabling R to build pdf files from RMarkdown/LaTeX:

- Install *MiKTeX* from [https://miktex.org/download]

RTools and MiKTeX post-installation

After installing these two programs, verify if the *Path* environmental variable (go to: Control Panel > System > Advanced > Environmental variables) actually contains the two following paths for *Rtools* and *MiKTeX* binaries:

- **"C:/Rtools/bin"** (this may be different depending on the installation path of RTools)

- **"C:/Rtools/gcc-X.xx/bin"** (X.xx - version number of the compiler; this may be different depending on the installation path of RTools)

- **"C:/MiKTeX/miktex/bin/x64/"** (also depends on MiKTeX installation path)