

CPCZurich2019 Tutorials – REINFORCEMENT LEARNING Installation Guide

Based on the following guidelines: <https://rpubs.com/CCSL/hBayesDM>

- 1) Install **R version 3.4.0** or later: <https://cloud.r-project.org/bin/>
- 2) We recommend installing **RStudio version 1.2x or later** as well as its interface is more user-friendly than R only:
<https://www.rstudio.com/products/rstudio/download/preview/>
 - a. Open RStudio. You should see an interface similar to the following image:

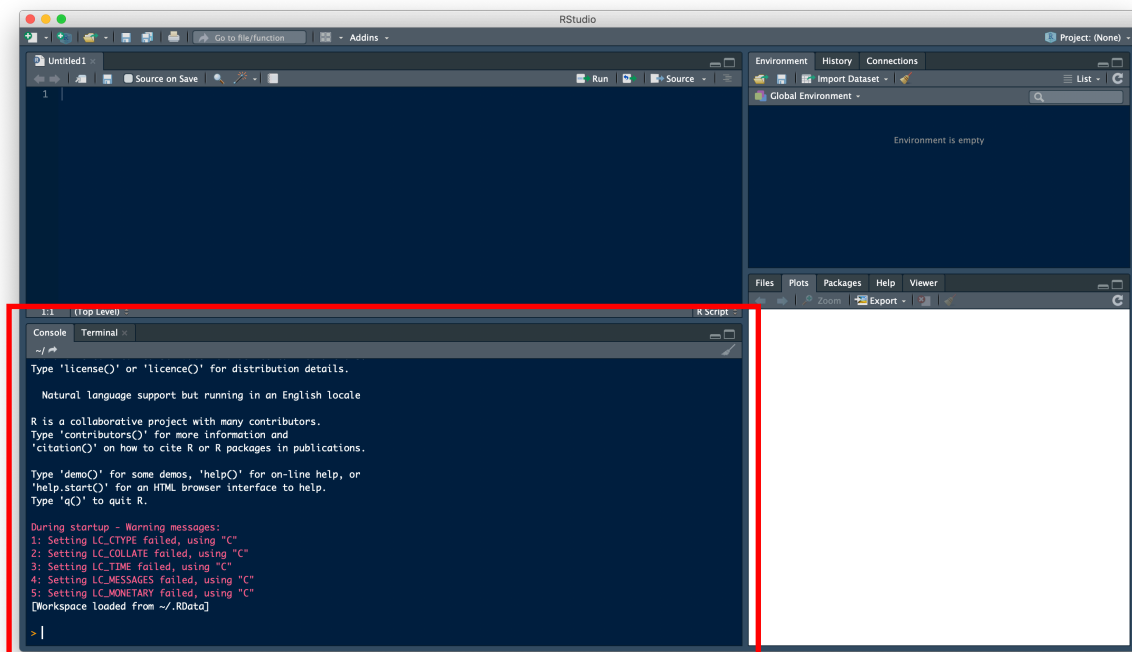


Fig.1: RStudio interface, with Console highlighted.
The default background color is white, but can be easily changed by going to Tools > Global Options > Appearance ☺

- 3) **For Windows users:** you will need to install RTools <https://cran.r-project.org/bin/windows/Rtools/>
- 4) **For Mac Users:** Please make sure XCode is installed on your Mac. You might already have it installed without ever using it. Otherwise get it in your AppStore: <https://apps.apple.com/us/app/xcode/id497799835?mt=12>
- 5) Install **RStan (2.18.1 or later)**: <https://github.com/stan-dev/rstan/wiki/RStan-Getting-Started>
(more information on RStan: <https://mc-stan.org/users/interfaces/rstan.html>)

1. The commands given in the first link are to be copied and pasted in the RStudio Console (see Fig.1).
2. It will come in handy to know how to set a working directory. The working directory is the folder in which you are currently working. You can set it using the graphical user interface as follows:

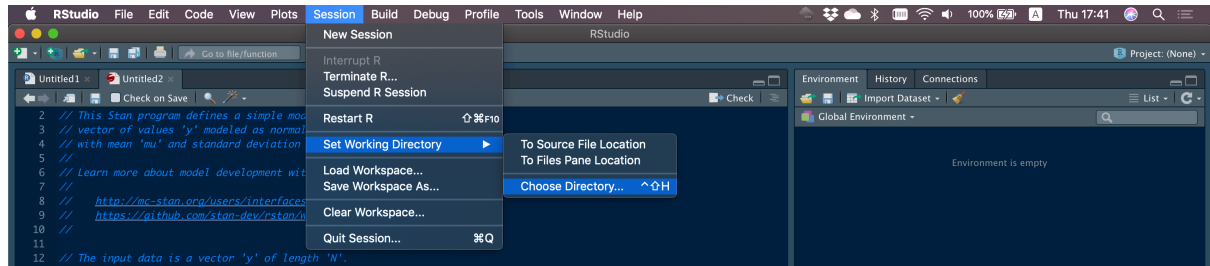


Fig. 2: Setting a working directory using the graphical interface

3. Check your RStan installation using the **Eight Schools example**.
- 6) Install the **hBayesDM Toolbox** by typing the following command into the **RStudio console**:
`install.packages("hBayesDM")`
- 7) **Restart RStudio** after hBayesDM is installed.
- 8) Check the hBayesDM Toolbox Website for further and detailed instructions on how to test if your installation was successful:
<https://rpubs.com/CCSL/hBayesDM>

You should be all set now ☺ !

If you have trouble getting to this point before the Practical Tutorial Session, please contact Inês Borges Pereira (inesb@student.ethz.ch). **In person assistance is preferred and will be provided during the Tuesday and Wednesday lunch breaks.** Please find Inês at the entrance of the lecture hall after the morning talks are finished. She will wait there for ca. 10 minutes.