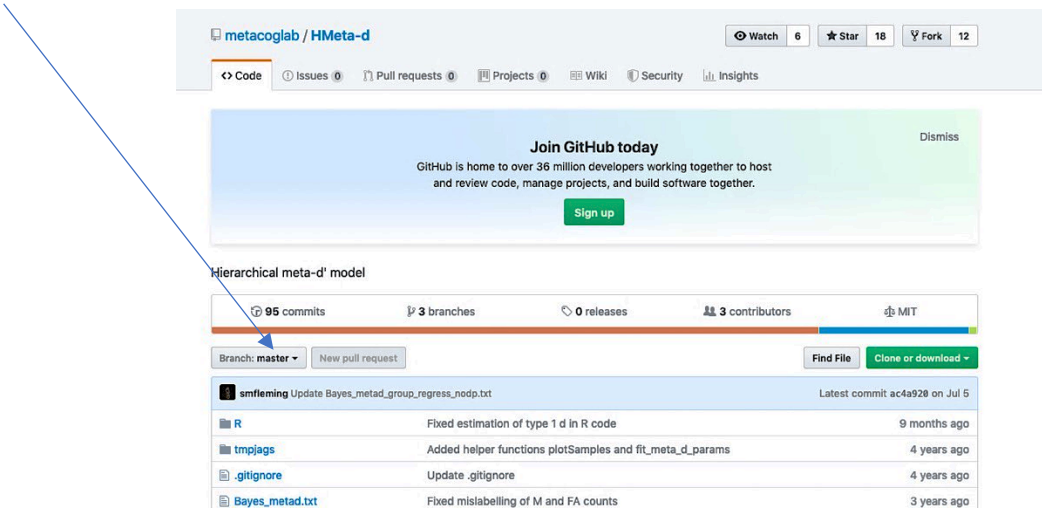
CPCZurich2019 Tutorials – METACOGNITION Installation Guide

PART 1: Main Toolbox Download

1) Make sure you install MATLAB and that you can open and run it before installing this Toolbox: https://www.mathworks.com/products/get-matlab.html

2) Then go to the Github page of the HMeta-d Toolbox and download the 'master' folder (found here: https://github.com/metacoglab/HMeta-d)



You will be provided with 2 possibilities to download the toolbox:

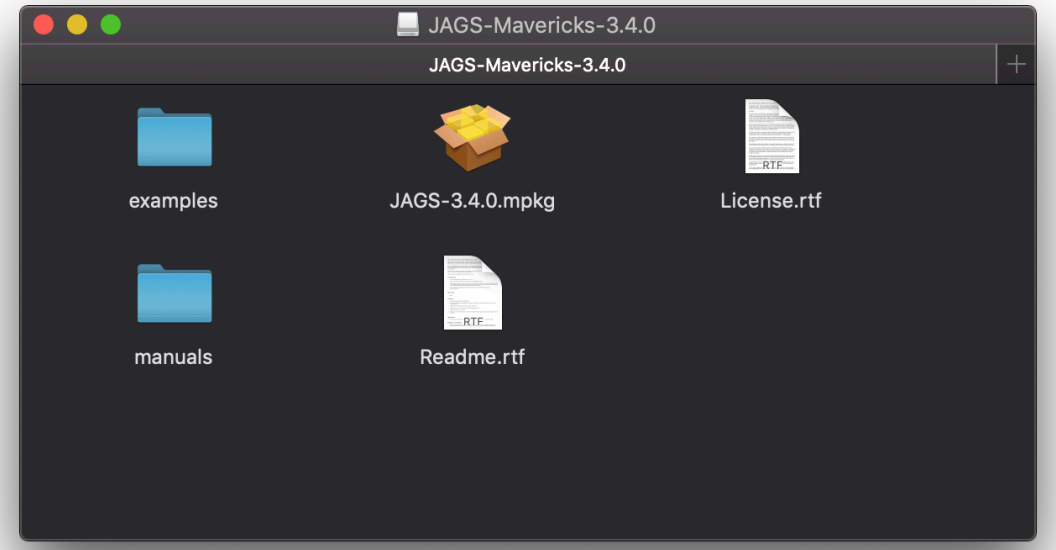
1. Downloading the Toolbox via .zip File.
2. Cloning the Toolbox. This allows you to keep up-to date with future changes in the Toolbox but is only possible if you have a git account.

For the purposes of this tutorial and if you do not have git, we advise you to use the first possibility and only download the .zip File.

3) Un-zip the file and put it in a folder/directory which you will use for the practical tutorial (e.g. Desktop/CPC2019/MetacognitionTutorial).
Make sure you do not have any spaces in the titles of your folders!

4) Now you need to install **JAGS 3.4.0** (an MCMC language similar to BUGS) on your machine, which can be found here: https://sourceforge.net/projects/mcmc-jags/files/JAGS/3.x/. **Note that there are compatibility issues between matjags and JAGS 4.X**. That is why **you will need to install JAGS 3.4.0** rather than the latest version.

1. Mac:
    a. If you follow the above link and click your way through to your operating system, you should land on this page: https://sourceforge.net/projects/mcmc-jags/files/JAGS/3.x/Mac%20OS%20X/
    Read the READMe carefully. JAGS-Mavericks-3.4.0.dmg is suitable for OS 10.9 (Mavericks) or later.
    b. Download and open the .dmg file. You will see the following window appear:



The first thing to do is to click on the Readme.rtf and read it. Please follow the instructions carefully.

2. Windows:
    a. Try to download the .exe file and open it. An installer will appear and will guide you through the installation. Jump to step 5). If you do not manage to run `exampleFit` or `exampleFit_group`, turn to the instructions below:
    b. For Windows, you might need to put in some extra effort. Go to: https://sourceforge.net/projects/mcmc-jags/files/Manuals/3.x/
    And download the installation manual. Go to the section on Windows and read everything before starting to download

anything. This will save you lots of time going back and forth because you did not know what the specific instructions were.

c. There are known issues with the installation on Windows. If you have trouble installing JAGS, do not worry. You will still be able to follow the majority of the tutorial.

5) Feel free to try the toolbox by following the tutorial instructions that can be found on the wiki: https://github.com/smfleming/HMM/wiki/HMeta-d-tutorial. In order to run the code, you first need to open MATLAB and in MATLAB navigate to the folder/directory you prepared (e.g. “MetacognitionTutorial”). Then right-click on the directory and “Add to Path”, “Selected Folders and Subfolders”.

   To get started try running `exampleFit` or `exampleFit_group`.

   Note: This is a great way to test that the version of JAGS you installed runs ☺.

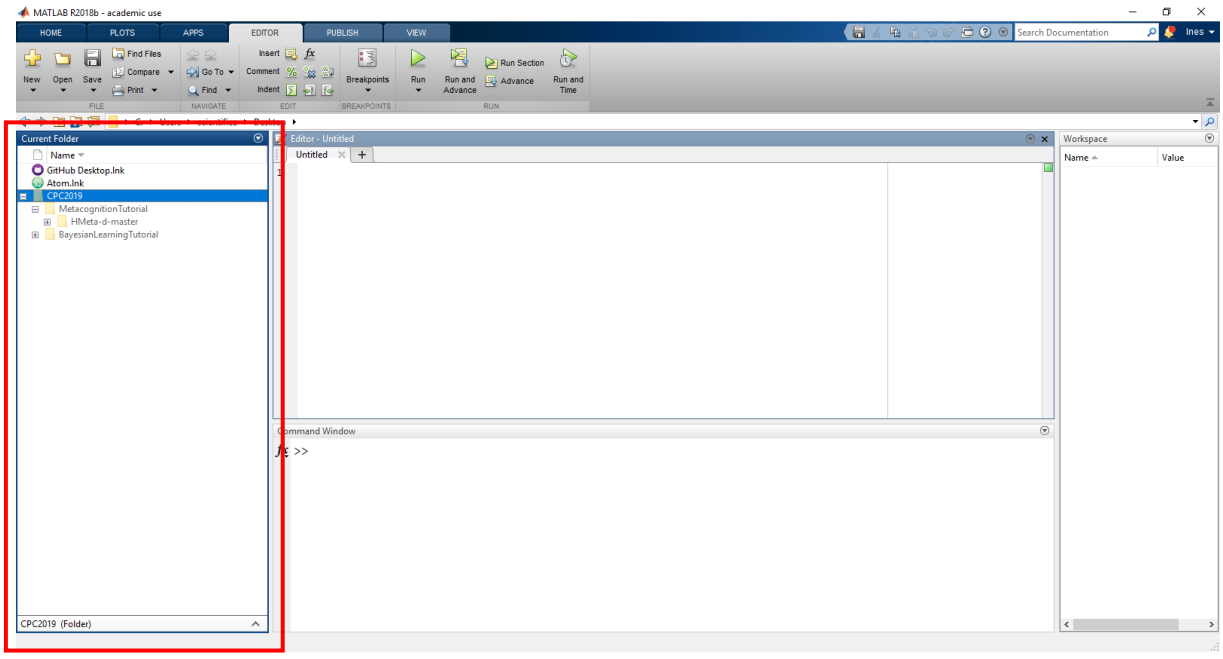


Fig. 1: MATLAB graphical user interface with the Current Folder window highlighted.

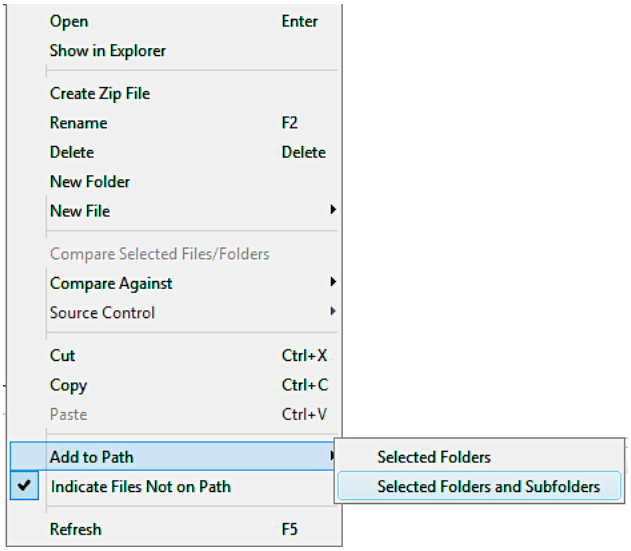


Fig. 2: Illustration of how to add a path (and all its subfolders) in MATLAB.

If you have **trouble installing JAGS**, do not worry. You will still be able to follow the majority of the tutorial.

PART 2: Tutorial-specific files

Once the tutorial slides and instructions have been finalised, they will be emailed to all individuals who have signed up to the tutorial.

When these files have been received, they will need to be added to the folder you created above (e.g. Desktop/CPC2019/MetacognitionTutorial).

FINAL NOTE:

In the tutorials always remember to check that the folder you created containing the HMeta-d Toolbox and tutorial-specific files (e.g. Desktop/CPC2019/MetacognitionTutorial) is added to your MATLAB path (folders and subfolders, as in point 5 above) when you open MATLAB for the tutorial ☺.

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.