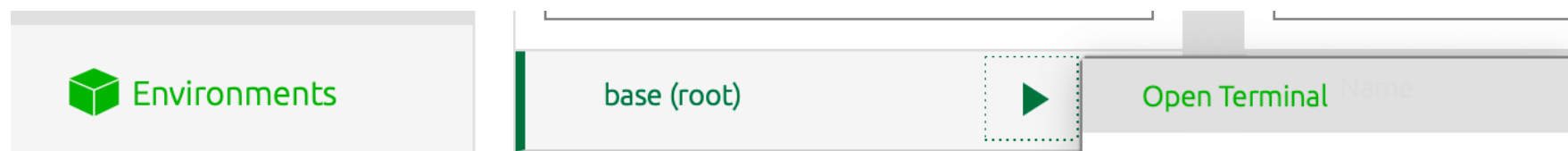


Lab1 Getting started with NP

Introduction to Human language Technology

Preparations

- Make sure you have administrator rights to install whatever you want
- Understanding the basics of the command line (windows) or terminal (mac, linux)
- Anaconda with Python 3.7 or higher
- Familiar with Jupyter notebooks or labs
- Useful:
 - Install Git: <https://git-scm.com/book/en/v2/Getting-Started-Installing-Git>
 - Use a “plain” text editor (not Word):
 - Windows: Notepad++
 - Mac/Linux: Atom
 - For Windows users to work with a terminal:
 - <https://docs.microsoft.com/en-us/windows/terminal/get-started> (Links to an external site.)
 - Simulate a unix/linux terminal on windows using Git-bash. Please follow the instructions here: <https://www.atlassian.com/git/tutorials/git-bash>
- Install all software in the same environment!!! To be sure, open a terminal from the Anaconda Navigator:
 - Choose Environments from the Left Pane, select “base (root)” and select “Open Terminal”



Getting the Lab notebooks

Check regularly for updates

Get the download link

- <https://github.com/cltl/ma-hlt-labs>

- Git installed:

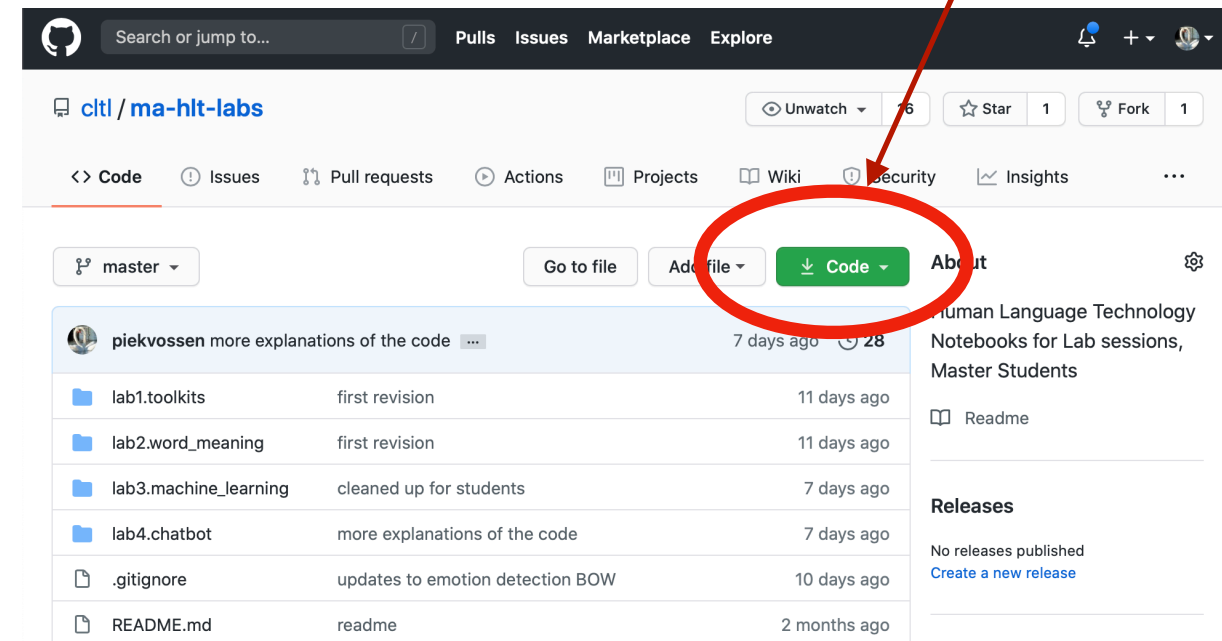
- Clone with ssh:

- `> git clone git@github.com:cltl/ma-hlt-labs.git`

- No local Git installed:

- Download ZIP file

- Unpack anywhere



- /Users/piek/Downloads/ma-hlt-labs/
 - lab1.toolkits
 - lab2.word_meaning
 - lab3.machine_learning
 - Lab4.chatbot
- ma-hlt-labs/
 - lab1.toolkits
 - lab2.word_meaning
 - lab3.machine_learning
 - Lab4.chatbot

Some Git

Only for those who use Git from command line

- At any moment in time you can check for updates on the server
 - Use “cd” to navigate to the directory with your local copy
 - This is a git directory (there is an invisible git flag with each file)
 - Type the command: `>git pull`
- WARNING:
 - You can change your local copy of the Git repository as much as you like but your local copy is no longer in sync
 - Git will see that there is a difference and refuse to perform “pull” to avoid that your local changes are destroyed
 - To keep your changes use “git clone” and create another directory for the latest version.

Installing software

Software packages and toolkits are installed from command line

- Instructions can be found on Canvas in the Basic Computer Skills
- Linux, Mac (Unix) users can launch a terminal
- Windows users can launch a command line window
 - <https://docs.microsoft.com/en-us/windows/terminal/get-started> (Links to an external site.)
- or
 - Simulate a unix/linux terminal on windows using Git-bash: <https://www.atlassian.com/git/tutorials/git-bash>
- In Jupyter notebooks you can also carry out commands in a cell by prefixing it with “%”
 - %ls -l
 - %pip install nltk
 - %mkdir test
 - %cd test
 - Etc.....

Anaconda Navigator

First steps to using notebooks

- After launching the Anaconda GUI you get a window as shown here with various tools
- When click on the launch button in the JupyterLab or JupyterNotebook panel, it will launch a browser with the Jupyter application opening in the Download folder in my case, where I cloned ma-htl-labs from Github
- Entering ma-htl-labs and lab1-toolkits, I find notebook files with the extension .ipynb
- Double clicking on Lab1.1-introduction.ipynb loads the first notebook with all instruction in your browser
- You are ready to go!

