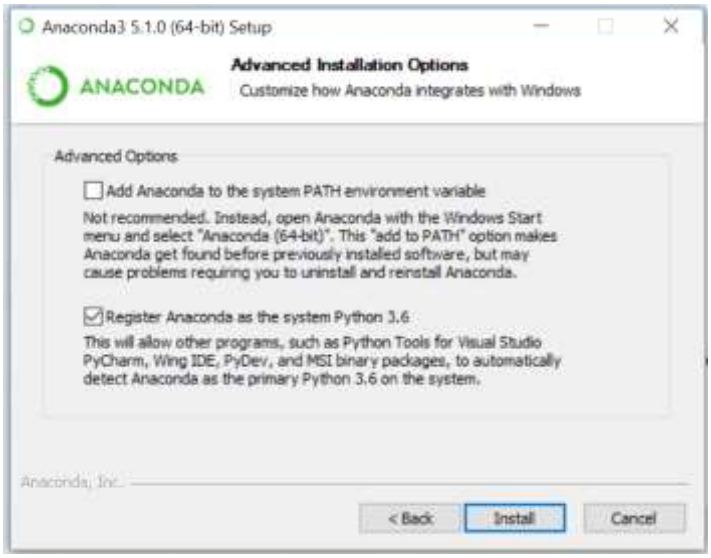
Introduction to Data Mining – Practical 1

Installing Software

Python

1. There 2 main variations of Python in use (2.7 and 3.6). Python 2.7 is mainly useful for back-compatibility with certain libraries as Python 3 is more recent. Here we will use Python 3.6.
2. Depending on your operating system and hardware, install the Anaconda distribution (e.g. Windows 64 bit version) from https://www.anaconda.com/download

3. Use the default installation options:

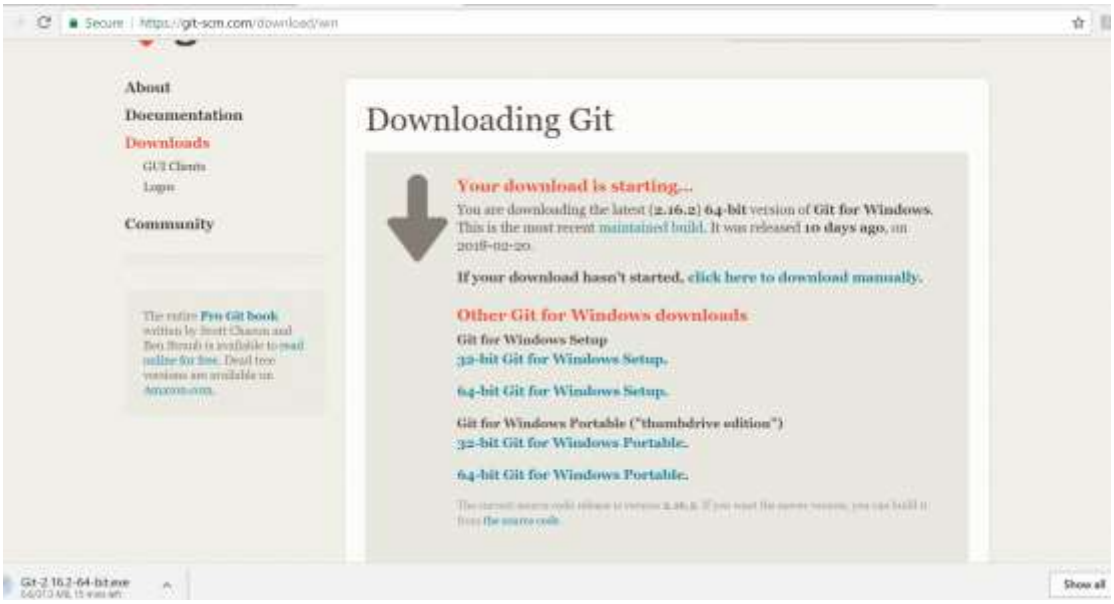


4. This will install both Python and Jupyter (IPython)
5. See also https://jupyter.readthedocs.io/en/latest/install.html#new-to-python-and-jupyter

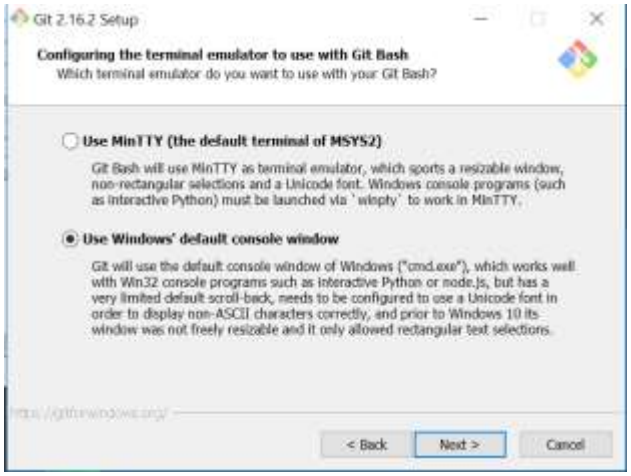
Git

Git is a version control system, it is used in this tutorial to access the assignment description and data. Again, don't worry if you don't fully understand it yet or have not seen it before, more information will be provided as we progress in the course.

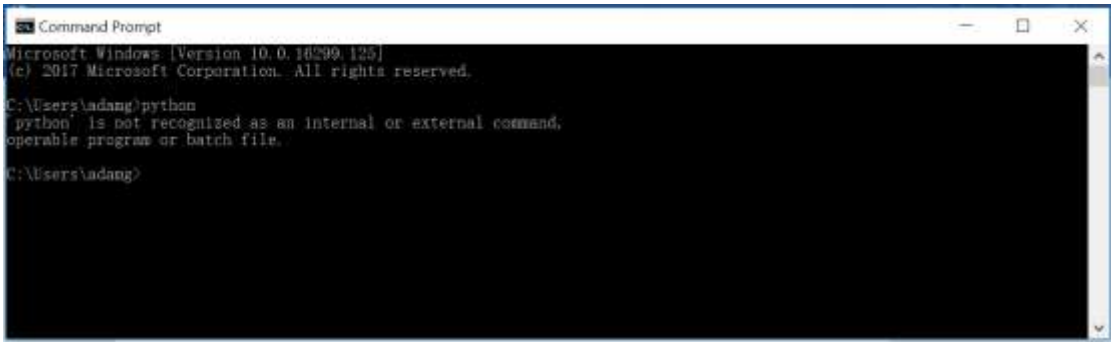
1. Download the appropriate release for your operating system from https://git-scm.com/downloads
2. Run the installer



3. Use the default options for the installer, you can use the following option for the terminal emulator to make it easier to run IPython (but then will not have resizable terminal windows):



4. Open a windows command prompt and type "python":



5. Add python and Jypyter to the path variable:

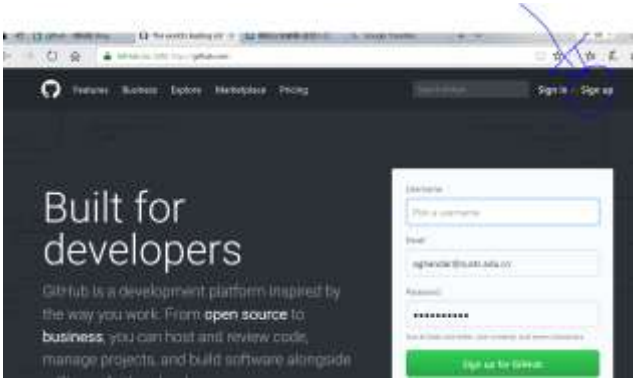
- SETX PATH "%PATH%;C:\ProgramData\Anaconda3\Scripts;C:\ProgramData\Anaconda3"

(note: your path might be different if you performed the installation for a user – check under c:/users/your_username)

6. Close and reopen the windows command prompt you are able to run Python:

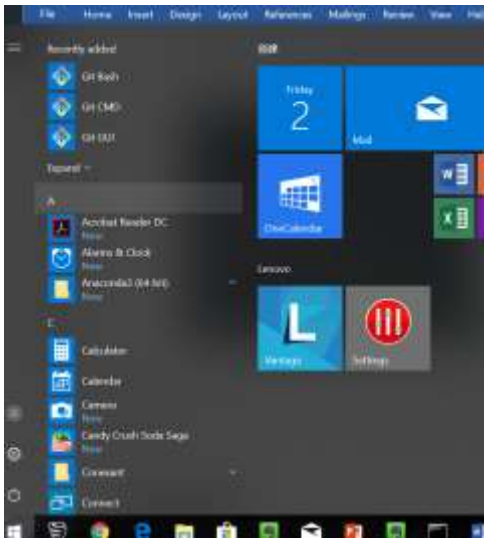
Create a Github account

Navigate to http://github.com and create an account (sign up)

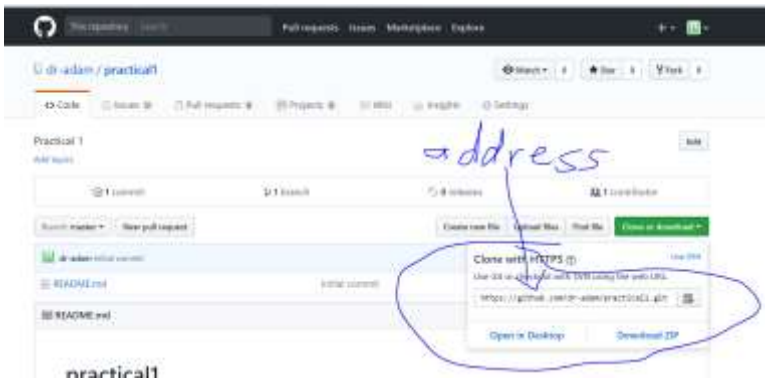


Clone the practical 1 repo to your local machine

Open a gitbash terminal:



Navigate to the assignment 1 repo at https://github.com/dr-adam/practical1 and create a clone on your machine (click on "Clone or Download to obtain the address):



Now in the bash terminal create a directory for the assignment in your machine and then clone the assignment from the course repo to there:

** unix commands:

- Change directory: ls
- Make new directory: mkdir <directory name>
- Change directory: cd