The following software must be installed before OntoNet:

<u>FOR MAC ONLY</u> : ***HomeBrew*** (not specific version)
Tape in your terminal : /bin/bash -c "$(curl -fsSL
https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
Follow the instructions printed into your terminal
(More instructions https://brew.sh/)

Python (use 3.7 or > version)

   <u>Linux</u> : Tape in your terminal : sudo apt install python3.7
   <u>Mac</u> : Tape in your terminal : brew install python

Git (we use version 2.34.1, this version or lastest is requiered)

   <u>Linux</u> : type 'sudo apt install git-all' in your terminal
   <u>Mac</u> : multiple options, see https://git-scm.com/download/mac

   --> Define your git user name and your name (necessary to use ODK !!!!!) with « git config --global user.name "YourUserNameHere" » and « git config --global user.email "YourUserEmailHere" »

Git LFS (3.5.1)

   <u>Linux</u> : Download the binary file 'Source code (tar.gy)' on https://github.com/git-lfs/git-lfs/releases (release 3.5.1). After make add to your $PATH the path to binary location. Run git lfs install to perform required global configuration changes : ./install.sh
   <u>Mac</u> : Use : brew install git-lfs

Docker (version 26.0.0)

   Install from https://www.docker.com/products/docker-desktop/, click on the arrow next to 'download for Linux' for Mac

ODK (latest version)

- **Step 1 :** Download the file seed-via-docker.* on https://ontology-development-kit.readthedocs.io/en/latest/NewRepo.html according your OS
- **Step 2 :** Create a directory ODK located wherever you prefer, and put the seed-via-docker file into it
- **Step 3 :** Make sure Docker is running (you will see the Docker whale in your toolbar on a Mac)
- **Step 4 :** In your terminal, go into ODK repertory and update with the last ODK version via Docker :

<u>Linux & Mac</u> : cd Path/to/your/ODK/repertory/
       docker pull obolibrary/odkfull

If you have the following error : '*Using default tag: latest*
permission denied while trying to connect to the Docker daemon socket at
unix:///var/run/docker.sock: Post "http://%2Fvar%2Frun%2Fdocker.sock/v1.45/images/create?
fromImage=obolibrary%2Fodkfull&tag=latest": dial unix /var/run/docker.sock: connect:
permission denied', do in your terminal :
  sudo groupadd docker
  sudo usermod -aG docker YourUserName
Disconnect and return in your user account, ensure Docker is running and try on your terminal
'docker run hello-world'. If the command work, retry to pull obolibrary/odkfull into your ODK
repertory

- **Step 5 :** Set you as owner of the file and give to you the rigths to execute the file seed-via-docker :

Linux & Mac : sudo chown [YourUserName] ./seed-via-docker.sh
    (if you need to ensure your username, use the command 'id -un' in your terminal)
    chmod u+x ./seed-via-docker.sh

- **Step 6 :** Test if ODK tool it's founctional : download the project.yaml file at https://github.com/INCATools/ontology-development-kit/blob/a88aaa0bbac89b267f4c1699caa94f32eb53bce4/examples/triffo/project.yaml#L4 and put it in your ODK repertory, with your seed-via-docker file. Use this following command must created in your ODK repertory a new repertory, 'triffo' in ODKrepertory/target/, without terminal error

Linux & Mac : ./seed-via-docker.sh -C ./project.yaml

If that didn't work and you just have the message 'This script only works with ODK 1.3.2 and later. For ODK 1.3.1 or earlier, use https://raw.githubusercontent.com/INCATools/ontology-development-kit/v1.3.1/seed-via-docker.sh', ensure you have defined a git user name and mail like in git Git installation instructions : in your terminal do the following commands :
   git config --get user.name : if nothing printed, use git config --global user.name
"YourUserNameHere"
   git config --get user.email : if nothing printed, use git config --global user.email
"YourUserEmailHere"

- **Step 7 :** Remove the created repertory 'triffo' into your created repertory 'target', and the file project.yaml

ROBOT (latest version)

  See instructions here: http://robot.obolibrary.org/

  --> For the step 2, if the download file have '.sh' or '.bat' in file name, rename the 'robot.sh' file
into 'robot'
  --> For the step 3, if put the file in other location than '/usr/local/bin/', update the terminal PATH:

Linux :

Do in your terminal 'cd ~'
In the .bashrc file, with your favourite terminal text editor (for exemple nano ou vi),open the file [eg: nano ./.bashrc] and write:
export PATH=$PATH:/path/to/directory/contain/robot.jar AND robot scripts
Save the file

Mac :
Do in your terminal 'cd ~'
In the .zshrc file (create it if didn't exist), with your favourite terminal text editor (for exemple nano ou vi),open the file [eg: nano ./.bashrc] and write:
export PATH=$PATH:/path/to/directory/contain/robot.jar AND robot scripts
Save the file
OR
Do in your terminal 'cd /etc/paths.d'
Create a new file : 'touch robot'
Write in this file : '/path/to/directory/contain/robot.jar AND robot scripts'
Save the file

Please do after step 4, close your terminal and reopen it. Test the command 'robot --help' and see if it's functional it's very important

awk (GNU version 5.1.0) and *gawk* (Awk GNU version 5.1.0)

   Linux : sudo apt-get install awk
            sudo apt-get install gawk
   Mac : brew install awk
         brew install gawk

sed (GNU version 4.8)
   Linux : sudo apt-get install sed
   Mac : brew install sed

DOWNLOAD THE TOOL

- **Step 1 :** Download OntoNet repertory given by the Transcriptional Control of Chordate Morphogenesis team and put it where you want in your files

- **Step 2 :** Update the variable 'ODKpath' : after the = symbol, write ~/your/path/to/directory/contain/seed-via-docker.sh or bat. Do this on the following tool's files :
  - OntoNet/*main.py*
  - OntoNet/*ManageProjectCreation.py*

- **Step 3 :** If it's not on the OntoNet directory, put the *token.txt* file given by the team into OntoNet repertory. *Don't rename it !!!*

To use OntoNet, going on tool's directory Path/where/is/directory/OntoNet and
Linux & Mac : use "python3 main.py" on your terminal