Mac OSX Install Guide

Overview:

1. Install Python and Anaconda

2. Install additional packages

3. Download and extract Lexos

4. Navigate to the correct directory and run Lexos

1. To run Lexos locally on your own personal computer you will first need to install Anaconda, which is a distribution of python which comes with additional packages which cover the more advanced visual and computational functionality of Lexos. Do not worry about this disrupting the version of python currently installed on your machine. So first off we need to install Anaconda which can be located here:

<http://continuum.io/downloads>

Download the correct version of Python 2.7 for your machine. Follow the guide that is on the same page as the download if you need help. Durring the install, make sure that you say YES to update the PATH variable. (This makes it so that when you use the python command in terminal, it knows to use the Anaconda distribution instead of the default one in /usr/bin.) Make sure to close and reopen the terminal so that the updated PATH can take effect. (If you do not wish to update the PATH variable for reasons specific to your computing needs, then to use the correct distribution you will need to manually specify the path to the python binary file within Anaconda, where ever you decide to install it. For example “~/anaconda/bin/python lexos.py” uses the python command from within my home directory.)

2. Now Anaconda has been installed we can verify that we installed it correctly and then install the two additional packages we need to run Lexos. Open terminal. First we want to verify that Anaconda is installed so type “python -V” into the command line and hit enter. You should see a response that looks like this: “Python 2.7.10 :: Anaconda 2.2.0 (64-bit)” (if you did not update your PATH variable in the previous step, you will need to specify where to find the python command,”~/anaconda/bin/python -V”)if you do not see :: Anaconda 2.2.0 you should reinstall Anaconda. If you did, then you are ok to begin installing the addition required packages. First though, you'll need to make sure that your package installer command is up to date so type “pip install -U pip” and hit enter. Your terminal should display some information showing you the update process, once that is completed you can now use 'pip' the python package installer. So type “pip install gensim” to install the first package and then “pip install chardet” to install the second one. Now you are almost ready to run Lexos on your personal computer.

3. Go to the Lexos github page <https://github.com/WheatonCS/Lexos> and at the bottom of the right-side navigation bar you will see a button to “Download ZIP”. Click this button to download a zipped file contaning all the necessary source code for Lexos. Extract the contents of this folder to your Desktop, if you want you can change the name of the containing folder from Lexos-master to just Lexos or whatever suits you, but be sure to use the name you choose when in the command line.

4. Now you have everything ready. Python has been sucessfully installed, all of the required packages are ready, and you have the code for Lexos downloaded and uncompressed and ready to be run. So open a new terminal and use the CD command to navigate inside the Lexos-master folder. If it is on your desktop you should be able to type “cd Desktop/Lexos-master”. After you have arrived at the Lexos folder, you are ready to run the program by typing “python lexos.py” and hitting enter. It may take a minute the first time you run the command because python has to reconfigure some of the project files for your computer, but shortly after you should see a message in the command prompt that says:

“ \* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

\* Restarting with stat ”

Lexos in now running on your computer! But where is it? To interact with the program you will need to open your favorite web browser and in the address bar type “localhost:5000” and hit enter. Because your computer is acting as both the server and the user of Lexos, you may need to hit the Reset button in the top right corner of the Upload/home page to make sure files from previous sessions do not get confused.

To quit Lexos simply close the command prompt window that it is running in. And to update simply re-download the Lexos zipped file from github and use it to replace the files on your desktop.

Thank you for using Lexos.