

Mac OSX Install Guide

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0. About *Lexos*

Lexos is an integrated workflow of tools to facilitate the computational analyses of texts, presented in a web-based interface. *Lexos* is written primarily in Python 2.7.3 using the [Flask](#) microframework, based on Werkzeug and Jinja 2. A heavy dose of Javascript and CSS is included on the front-end. We increasingly incorporate the wiz from [D3.js](#) in our visualizations and the power in the [scikit-learn](#) modules for text and statistical processing.

1. Install Python

Install a free distribution of Python v2.7 called Anaconda¹.

a) Visit the website: <http://continuum.io/downloads>

b) On the website, locate [Choose Your Installer](#) on the screen; click on the MacOS icon.

c) Download the Anaconda installer (Python v2.7 Graphical Installer).

d) Double-click on the installer application icon (.pkg file) and follow the instructions on the screen.

e) Finally, select **Continue** to finish the install of Anaconda.

2. Install additional packages

Now that Anaconda has been installed, we can verify that we have installed it correctly. Then we will install the two additional packages we need to run *Lexos*.

a. Open a terminal window. *(If you are unfamiliar with how to access a terminal window, search for “terminal” in Spotlight. You should see a window appear with a command-line prompt, typically a “\$” prompt).*

b. Make sure that your package installer (pip) is up to date:

```
pip install -U pip
```

Your terminal should display some information showing you the update process. Once that is completed, you can now use 'pip' (python package installer) in the next step.

¹ **Anaconda** is a free distribution of the Python programming language for large-scale data processing, predictive analytics, and scientific computing, that aims to simplify package management and deployment. As of June 2015, Anaconda includes 270+ of the most popular Python packages, including most of the packages needed for *Lexos*.

c. Install two additional needed packages

```
pip install gensim  
pip install chardet
```

3. Download and extract Lexos

- a. Go to the Lexos github page: <https://github.com/WheatonCS/Lexos>
- b. 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 which contains the file folder which holds all the necessary source code for Lexos. **Extract** the contents of the .ZIP file **to your Desktop**. *If you want you can change the name of the containing folder from Lexos-master to just Lexos, but be sure to use the new name you used when in the command line on the subsequent steps.*

4. Start Lexos

- a. Open a new terminal window.
- b. On the command line, use the `cd` command to navigate inside the Lexos-master folder².

```
cd Desktop/Lexos-master
```

- c. **Start Lexos** -- On the command line enter:

```
python lexos.py
```

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 the following:

```
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)  
* Restarting with stat
```

Note: You must keep the “python lexos.py” command running while you use Lexos. You may minimize the terminal window, but do not close the terminal window.

d. **Using Lexos with your browser**

To interact with the program you need to open your favorite web browser (Firefox or Chrome) and in the URL-address bar enter:

```
localhost:5000
```

Because your computer is acting as both the web server and the user of Lexos, you may need to hit the Reset button in the top right corner of the Upload page to make sure files from any previous sessions are purged.

To quit Lexos simply close the terminal window (where you entered `python lexos.py`).

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² (If you need additional information on file navigation, check out this article by macworld <http://www.macworld.com/article/2042378/master-the-command-line-navigating-files-and-folders.htm>)