

## Windows 7 and 8 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 2.7.11 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 Anaconda<sup>1</sup>.

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

b) On the website, locate Choose Your Installer on the screen; click on the Windows link.

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

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

*Note: The install location is not important; however, make sure that you leave the option to 'Update the PATH variable' checked so that later when you type `python lexos.py` on a command-line in the terminal later in these instructions, Windows will know that you specifically want to use the Anaconda distribution of Python. This prevents any confusion if you already have a different version of Python installed.*

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 your command prompt.** *(If you are unfamiliar with how to access the command prompt hit [WindowsKey] + [R] to bring up the Run box and type cmd.exe into the text field and hit enter). You should see a black-window appear with a command-line prompt.*

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<sup>1</sup> **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 2016, Anaconda includes 820+ of the most popular Python packages, including most of the packages needed for *Lexos*.

**b. Verify that Anaconda is installed** by typing in the terminal the following command:

```
python -V
```

*You should see a response that looks like :*

*Python 2.7.11 :: Anaconda 4.1.0 (64-bit) If you do not see “:: Anaconda 4.1.0” then you did not update your PATH variable during the Anaconda installation (back on Step #1) and thus, you should return to Step #1 and reinstall Anaconda correctly.*

**c. 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.*

**d. Install three additional needed packages**

```
pip install gensim
```

```
pip install chardet
```

```
pip install natsort
```

```
pip install ete2
```

### 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 (*[WindowsKey] + [R]* to bring up the Run box and type *cmd.exe*)

**b.** On the command line, use the *cd* command to navigate inside the *Lexos-master* folder<sup>2</sup>.

```
cd Desktop\Lexos-master
```

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

```
python lexos.py
```

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2 If you need additional information on file navigation on the Windows command-line, check out this article by wikihow <http://www.wikihow.com/Change-Directories-in-Command-Prompt>).

*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; IE is not supported) 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 command prompt window (where you entered python lexos.py ).*

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