

# Windows Manual Installation Guide

---

## Overview:

1. [About Lexos](#)
2. [Installing Python and Anaconda](#)
3. [Installing Additional Packages](#)
4. [Downloading and Extracting Lexos](#)
5. [Starting and Launching Lexos](#)
6. [Quitting Lexos](#)

## About Lexos

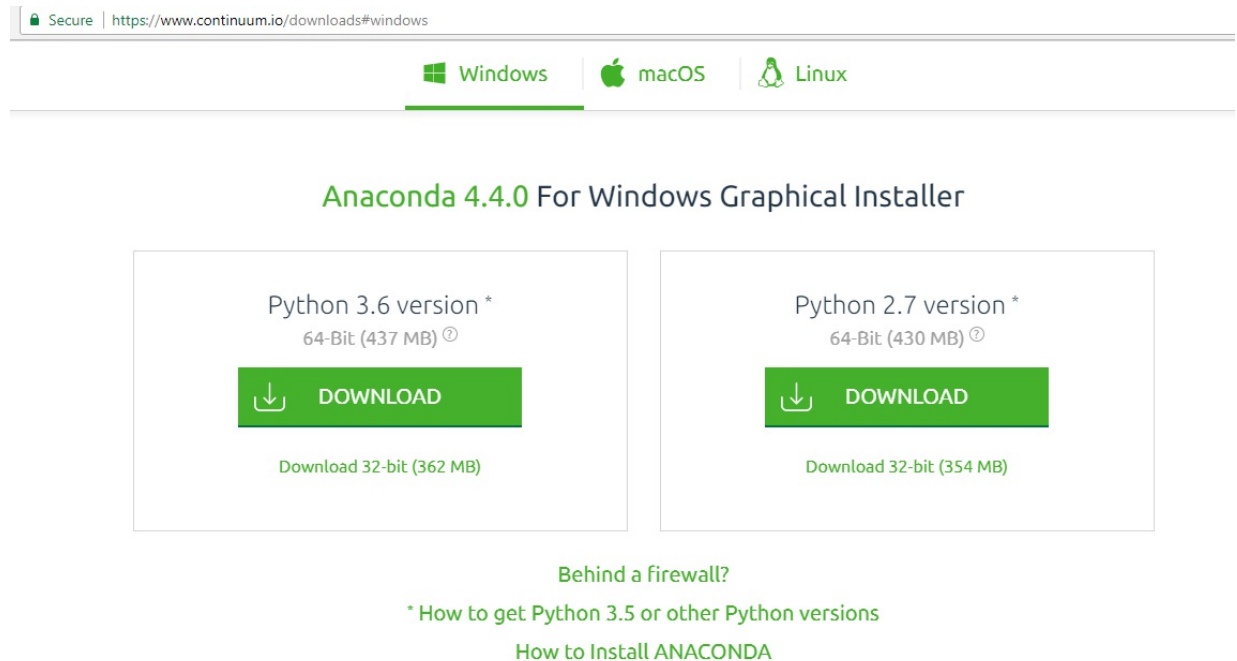
Lexos is an integrated workflow of tools to facilitate computational text analysis, presented in a web-based interface. Lexos is written primarily in Python 2.7.11 using the [Flask](#) microframework, based on Werkzeug and Jinja 2. A heavy dose of Javascript and CSS is included on the front-end. We increasingly incorporate the wiz from [D3.js](#) in our visualizations and the power in the [scikit-learn](#) modules for text and statistical processing.

## Installing Python and Anaconda

If you do not already have Python v2.7 installed on your computer, we recommend installing it through the free Anaconda distribution.<sup>[1]</sup> If you already have Python, Anaconda will run alongside your current installation. **Note: If you are installing Lexos v3.2 or above from the master branch of the Lexos repository, make sure to install Python 3.x instead. The rest of the installation procedure should be the same.**

1. Visit the Anaconda downloads page on the web:  
<https://continuum.io/downloads>. Locate the **Windows symbol**

on the screen (the window); click on this **Windows** link to get to **Anaconda 4.4.0 For Windows Graphical Installer**.

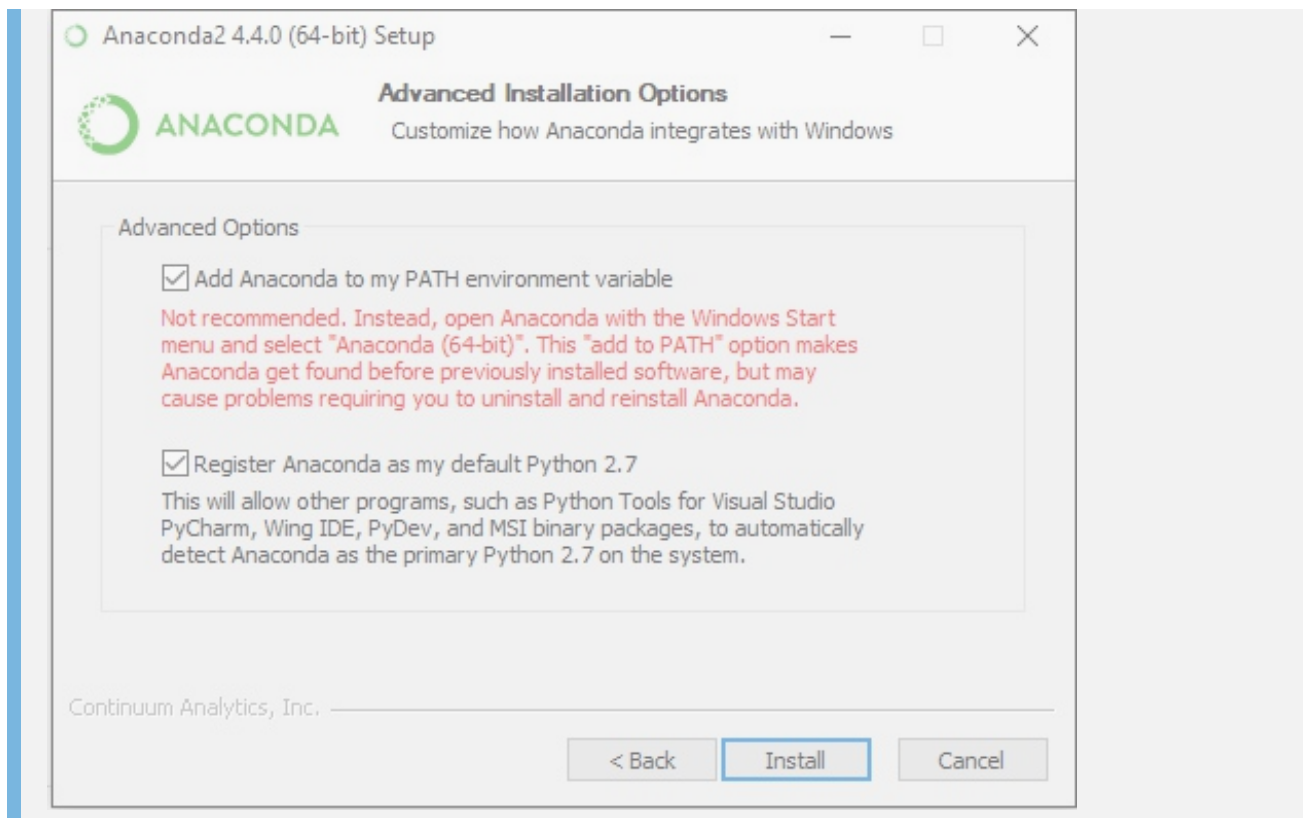


2. Download the **Python 2.7 version 64-Bit** by clicking on the green Download button.

If you have an older computer, you may have to use the Windows 32-bit version, in which case, you should click the smaller link below. If you are unsure whether your computer is running a 32-bit or a 64-bit version of Windows, follow the instructions at <https://support.microsoft.com/en-us/kb/827218>.

3. Double-click the installer application icon (it will be called something like **Anaconda2-4.4.0-Windows-x86\_64.exe**) and follow the instructions on the screen.

*Note: The installation location is not important; however, make sure that you check the option to **Add Anaconda to my PATH environment variable** (make sure both boxes are checked). This will ensure that Windows knows that you want to use the Anaconda distribution of Python when you launch Lexos. This is especially important if you already have a different version of Python installed.*



When the process is complete, select **Finish** to finish the installation of Anaconda.

You should now verify that we have installed it correctly. To do this, follow the instructions below:

1. Open a Windows 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. Then hit the **Enter** key. A black Command Prompt window should appear.
2. Type `python -V` (capital v) and hit the **Enter** key.

You should see a response that looks like: `Python 2.7.13 :: Anaconda 4.4.0 (64-bit)`. If you do not see `:: Anaconda 4.4.0` then you did not update your PATH variable during the Anaconda installation. We recommend that you uninstall Anaconda and try to install it again, following the instructions above. To uninstall Anaconda, go to your computer's Control Panel, choose **Add or Remove Programs** or **Uninstall a program** and then select **Python 2.7 (Anaconda)**.

## Installing Additional Python Packages

You must now install three additional Python packages needed to run *Lexos*.

1. Begin by making sure that your package installer (pip) is up to date. In the Command Prompt type `pip install -U pip` (capital u) and hit the **Enter** key. Your Command Prompt window will display some information showing you the update process. Once that is completed, you can now use 'pip' (python package installer) in the next step.
2. In the Command Prompt type the following three commands, hitting the **Enter** key after each one. The installation process for each may take some time.

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

When the last installation is finished, you are ready to download *Lexos*.

Note: If any odd errors occur ensure your Command Prompt is displaying something like `C:\Users\YOUR_NAME>` as your location, otherwise exit and open a new Windows Command Prompt.

## Downloading and Extracting *Lexos*

To download *Lexos*, enter

<https://github.com/WheatonCS/Lexos/archive/v3.1.1.zip> in your browser's address bar. Alternatively, go to the *Lexos* GitHub page: <https://github.com/WheatonCS/Lexos/releases>. Look under **Lexos v3.1.1**, click on the link that says **Source code (zip)** under **Downloads**

and save the file.

Once the *Lexos* zip archive has downloaded, right-click on the icon and click on **Show in Folder** to get to the file location. Right-click on the file icon and select **Extract All....** Choose where you would like to install *Lexos*. If you wish, you may change the name of the extracted folder from *Lexos-3.1.1* to *Lexos*. In the instructions below, we will assume that you did this and that you extracted the *Lexos* folder to the Desktop.

## Starting and Launching *Lexos*

Return to the Command Prompt window or open a new one by typing **[WindowsKey] + [R]** to bring up the Run box, and then type **cmd.exe**. In most cases, the Command Prompt window will open in your computer's user account directory. It will show your location by displaying something like **C:\Users\YOUR\_NAME>**. If the command prompt says something else, you may need to navigate to this folder. For help with navigation in the Windows Command Prompt, check out this article by Wikihow: <http://www.wikihow.com/Change-Directories-in-Command-Prompt> (skip to Part 2: Changing the Directory).

Now navigate to the *Lexos* folder by typing **cd Desktop\Lexos** and hit the **Enter** key. If you encounter an error, make sure that you are starting in your user account folder, that the *Lexos* folder is on the Desktop, and that it is called *Lexos*. The Command Prompt should now display **C:\Users\YOUR\_NAME\Desktop\Lexos>**. If not, close this Command Prompt window and open a new one.

Type **python lexos.py** and hit the **Enter** key. This will start *Lexos*. It may take a minute to see a response 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:

```
Restarting with stat
```

```
Debugger is active!  
Debugger PIN: 236-087-009  
Running on http://127.0.0.1:5000/ (Press CTRL+C to  
quit)
```

**Important:** Keep the `python lexos.py` command running while you use *Lexos*. You may minimize the Command Prompt window, **but do not close it**.

Once you see the message above, you are ready to launch *Lexos*. Go to a web browser and enter `localhost:5000` in the address bar. We recommend using either Firefox or Chrome (other browsers are not supported and may not work with *Lexos*). You will soon see the *Lexos* upload page. For information about using *Lexos*, click the "Gear" icon at the top right of the screen.

**Note:** 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.

## Quitting *Lexos*

To quit *Lexos* simply close your browser window and close the Command Prompt window running `python lexos.py`.

*Last edited: August 15, 2017*

[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 August 2017, Anaconda includes 720+ of the most popular Python packages, including most of the packages needed for *Lexos*.