Installation Guide : Python & LaTeX

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1   Python Installation

Python can be installed in various ways. A quick and preferred method for windows/mac is to install the Anaconda distribution package.

1.1   Anaconda Installation

Installing on Windows (https://docs.continuum.io/anaconda/install/windows):

- Download Anaconda : https://www.anaconda.com/download/

  NOTE : Install Python 2.7 version

- Double click the installer to launch.

  NOTE: If you encounter any issues during installation, temporarily disable your anti-virus software during install, then re-enable it after the installation concludes. If you have installed for all users, uninstall Anaconda and re-install it for your user only and try again.

- Click Next.

- Read the licensing terms and click I Agree.

- Select an install for "Just Me" unless you're installing for all users (which requires Windows Administrator privileges) and click Next.

- Select a destination folder to install Anaconda and click Next.

  NOTE: Install Anaconda to a directory path that does not contain spaces or unicode characters.

  NOTE: Do not install as Administrator unless admin privileges are required.

- Choose whether to add Anaconda to your PATH environment variable. We recommend not adding Anaconda to the PATH environment variable, since this can interfere with other software. Instead, use Anaconda software by opening Anaconda Navigator or the Anaconda Prompt from the Start Menu.

- Choose whether to register Anaconda as your default Python 2.7. Unless you plan on installing and running multiple versions of Anaconda, or multiple versions of Python, you should accept the default and leave this box checked.

- Click Install. You can click Show Details if you want to see all the packages Anaconda is installing. NOTE : It takes some time for the complete installation.

- Click Next.

- After a successful installation you will see the "Thanks for installing Anaconda" image.

- You can leave the boxes checked "Learn more about Anaconda Cloud" and "Learn more about Anaconda Support" if you wish to read more about this cloud package management service and Anaconda support. Click Finish. [You can uncheck them too!]

- After your install is complete, verify it by opening Anaconda Navigator, a program that is included with Anaconda. From your Windows Start menu, select the shortcut Anaconda Navigator. If Navigator opens, you have successfully installed Anaconda.

After your install completes, start using Anaconda with the instructions in Getting started.https://docs.continuum.io/anaconda/user-guide/getting-started

For Mac OS (https://docs.continuum.io/anaconda/install/mac-os)

- Download the graphical macOS installer for 2.7 version of Python : https://www.anaconda.com/download/

- Double-click the .pkg file.

- Answer the prompts on the Introduction, Read Me and License screens.

- On the Destination Select screen, select Install for me only. NOTE: If you get the error message "You cannot install Anaconda in this location," reselect Install for me only.

- On the Installation Type screen, you may choose to install in another location. The standard install puts Anaconda in your home user directory:

- Click the Install button.

After your install completes, start using Anaconda with the instructions in Getting started.https://docs.continuum.io/anaconda/user-guide/getting-started

For Linux (https://docs.continuum.io/anaconda/install/linux)
NOTE : This is only for completeness. If you are using Linux distribution Python is already installed in your system.

- In your browser, download the Anaconda installer for Linux for python 2.7(https://www.anaconda.com/download/)

- Enter the following to install Anaconda for Python 2.7:

```
bash ~/Downloads/Anaconda2-4.4.0-Linux-x86_64.sh
```

  NOTE: Include the bash command regardless of whether or not you are using Bash shell.

  NOTE: If you did not download to your Downloads directory, replace /Downloads/ with the path to the file you downloaded.

  NOTE: Choose "Install Anaconda as a user" unless root privileges are required.

- The installer prompts "In order to continue the installation process, please review the license agreement." Click Enter to view license terms.

- Scroll to the bottom of the license terms and enter Yes to agree to them.

- The installer prompts you to click Enter to accept the default install location, CTRL-C to cancel the installation, or specify an alternate installation directory. If you accept the default install location, the installer displays "PREFIX=/home/<user>/anaconda<2 or 3>" and continues the installation. It may take a few minutes to complete.

- The installer prompts "Do you wish the installer to prepend the Anaconda<2 or 3> install location to PATH in your /home/<user>/.bashrc ?" Enter Yes.

  NOTE: If you enter "No", you must manually add the path to Anaconda or conda will not work. See FAQ.

- The installer finishes and displays "Thank you for installing Anaconda<2 or 3>!"

- Close and open your terminal window for the installation to take effect, or you can enter the command source /.bashrc.

- Verify your installation by entering conda list. If the installation was successful, the terminal window displays a list of installed Anaconda packages.

After your install completes, start using Anaconda with the instructions in Getting started.https://docs.continuum.io/anaconda/user-guide/getting-started

2 LaTeX Installation

One of the cross-platform latex editors is Texmaker, which can be downloaded and installed from:
http://www.xm1math.net/texmaker/download.html
You can choose other latex editors:

- TeXstudio : http://www.texstudio.org/

- TeXworks : https://www.tug.org/texworks/

- TeXShop(only for Mac) : http://pages.uoregon.edu/koch/texshop/