

Install Python on Ubuntu (Anaconda)

The way below utilizes bash scripts which is a faster way to install anaconda. This should work on Ubuntu 12.04 (precise), 14.04 (trusty), and 16.04 (xenial).

1. Open a new terminal.
2. Copy and paste the paste commands from either gist below on the terminal.

```
1  # Go to home directory
2  cd ~
3
4  # You can change what anaconda version you want at
5  # https://repo.continuum.io/archive/
6  wget https://repo.continuum.io/archive/Anaconda3-5.0.1-Linux-x86_64.sh
7  bash Anaconda3-5.0.1-Linux-x86_64.sh -b -p ~/anaconda
8  rm Anaconda3-5.0.1-Linux-x86_64.sh
9  echo 'export PATH=~/.anaconda/bin:$PATH' >> ~/.bashrc
10
11 # Refresh basically
12 source ~/.bashrc
13
14 conda update conda
```

3. The files are from the Anaconda installer archive.

<https://repo.continuum.io/archive/>

Pip install

1. Install Python, pip, and virtualenv.

On Ubuntu, Python is automatically installed and `pip` is *usually* installed. Confirm the `python` and `pip` versions:

```
python -V # or: python3 -V
```

```
pip -V # or: pip3 -V
```

To install these packages on Ubuntu:

```
sudo apt-get install python-pip python-dev python-virtualenv # for  
Python 2.7
```

```
sudo apt-get install python3-pip python3-dev python-virtualenv # for  
Python 3.n
```

We *recommend* using `pip` version 8.1 or higher. If using a release before version 8.1, upgrade `pip`:

```
pip install --upgrade pip
```

If not using Ubuntu and [setuptools](#) is installed, use `easy_install` to install `pip`:

```
easy_install -U pip
```

2. Create a directory for the virtual environment and choose a Python interpreter.

```
mkdir ~/tensorflow # somewhere to work out of
```

```
cd ~/tensorflow
```

Choose one of the following Python environments for the `./venv` directory:

```
virtualenv --system-site-packages venv # Use python default (Python 2.7)
```

```
virtualenv --system-site-packages -p python3 venv # Use Python 3.n
```

3. Activate the Virtualenv environment.

Use one of these shell-specific commands to activate the virtual environment:

```
source ~/tensorflow/venv/bin/activate # bash, sh, ksh, or zsh
```

```
source ~/tensorflow/venv/bin/activate.csh # csh or tcsh
```

```
. ~/tensorflow/venv/bin/activate.fish # fish
```

When the Virtualenv is activated, the shell prompt displays as `(venv) $`.

4. Upgrade pip in the virtual environment.

Within the active virtual environment, upgrade `pip`:

```
(venv)$ pip install --upgrade pip
```

You can install other Python packages within the virtual environment without affecting packages outside the `virtualenv`.

5. Install TensorFlow in the virtual environment.

Choose one of the available TensorFlow packages for installation:

- `tensorflow` —Current release for CPU
- `tensorflow-gpu` —Current release with GPU support
- `tf-nightly` —Nightly build for CPU

- `tf-nightly-gpu` —Nightly build with GPU support

Within an active Virtualenv environment, use `pip` to install the package:

```
pip install --upgrade tensorflow
```

Use `pip list` to show the packages installed in the virtual environment. [Validate the install](#) and test the version:

```
(venv)$ python -c "import tensorflow as tf; print(tf.__version__)"
```