

# GraphLab-Create Installation

## Step 1 - Register to get GraphLab Create product key

- <https://dato.com/products/create/quick-start-guide.html>

**1** Get Your Product Key

Sign up and instantly receive a GraphLab Create™ product key for your individual use. We will also send you a confirmation email. Already have GraphLab Create™ and want to get the latest version? Follow these [upgrade instructions](#).

All fields are required.

|                |           |
|----------------|-----------|
| First name     | Last name |
| E-mail address |           |
| Organization   | Job Title |

☒ Yes, I would like to receive emails about product updates from Dato.

By signing up, I agree to the GraphLab Create™ [license policy](#).

**GENERATE KEY**

## Step 2 - Insert Product Key into your GraphLab Configuration

- In your terminal, execute the code you get after signing up (NOTE: use your own product key)

```
(mkdir -p ~/.graphlab && echo -e "[Product]\nproduct_key=A687-2DEA-DE1D-9C87-FB01-1EC2-29E0-E07F" > ~/.graphlab/config && echo "Configuration file written") || echo "Configuration file not written"
```

## Step 3 - Install Python, IPython Notebook, Pip and GraphLab

What do I need to do?

1. Ensure your system is running [Python 2.7.x](#) (execute `python -V` in terminal)
2. Install [pip](#), a Python tool for installing Python packages
3. Choose the installation method below that works best for you

You can install GraphLab Create™ system-wide (recommended) or in a Python virtual environment (virtualenv).

Install system-wide

Install in a virtualenv

Copy and paste the following code into your terminal window and hit "Enter".

```
sudo pip install graphlab-create==1.3
```

If you are unsure about installing or upgrading these libraries system-wide we recommend installation with [virtualenv](#).

- 
- Instructions for Linux (RedHat derivatives) —> HDP Sandbox  
<http://forum.dato.com/discussion/55/graphlab-create-0-1-0-beta-linux-installation-notes#latest>

- If you already have python 2.6 installed, here's what you need to do on **Cloudera VM 5.3**
  - 
  - You need to install python 2.7.6
  - NOTE: If you use Cloudera 5.3 Virtual Machine, then you'll need to upgrade your firefox first!

## **Python 2.7.6 Installation on CentOS 6.4 (Cloudera 5.3 VM)**

### **Install Python2.7 Anaconda**

#### **- Test your python environment**

```
$ python -V
```

#### **- Download Anaconda**

```
curl -O https://3230d63b5fc54e62148e-c95ac804525aac4b6dba79b00b39d1d3.ssl.cf1.rackcdn.com/Anaconda-2.2.0-Linux-x86\_64.sh
```

#### **- Install Anaconda**

```
$ sh Anaconda-2.2.0-Linux-x86.sh
```

#### **- Add Anaconda path to local environment**

```
$ echo "export PYTHON27_HOME=/home/cloudera/anaconda" >> ~/.bash_profile
```

```
$ echo "export PATH=$PATH:$PYTHON27_HOME/bin" >> ~/.bash_profile
```

```
$ . ~/.bash_profile
```

#### **# Verify**

```
$ python2.7 -V
```

#### **# Add a symlink to point to python**

```
$ sudo rm -r /usr/bin/python
```

```
$ sudo ln -s /home/cloudera/anaconda/bin/python2.7 /usr/bin/python
```

### **Installing GraphLab**

**# Create a new virtual environment.** This will create a directory called "graphlab"

```
$ virtualenv --no-site-packages ~/graphlab
```

**# To activate the virtualenv.** After the virtualenv is activated, it will use the version of python stored inside the ~/graphlab directory and use only the packages installed in that directory.

```
$ source ~/graphlab/bin/activate
```

#### **# Install graphlab-create**

```
(graphlab) $ pip install graphlab-create
```

## **Step 4 - Run toy example in IPython Notebook**

```
# Launch python notebook from virtualenv
```

```
(graphlab)$ source ~/graphlab/bin/activate
```

```
(graphlab)$ ipython notebook
```

#### **# In ipython notebook**

```
import graphlab as gl
```

```
url = 'http://s3.amazonaws.com/dato-datasets/movie\_ratings/training\_data.csv'
```

```
data = gl.SFrame.read_csv(url, column_type_hints={"rating":int})
```

```
data.show()
```

```
model = gl.recommender.create(data, user_id="user", item_id="movie", target="rating")
```

```
results = model.recommend(users=None, k=5)
```

```
results.head()
```

