

## DIGITS简易安装

- sudo dpkg -i cuda-repo-ubuntu1404\_8.0.61-1\_amd64.deb
- sudo dpkg -i nv-deep-learning-repo-ubuntu1404-gacuda8.0-cudnn5.1.10\_1-t\_amd64.deb
- sudo apt-get update
- sudo apt-get install cuda
- Sudo apt-get install digits





## DIGITS源码安装

- 1. 安装依赖deb包
- 2.安装CUDA, cuDNN, NCCL3.编译Caffe
- 4.编译安装Digits

# 1. 安装依赖deb包

sudo apt-get install --no-install-recommends buildessential cmake git gfortran libatlas-base-dev libboost-filesystem-dev libboost-python-dev libboost-system-devibboost-thread-dev libgflagsdev libgoogle-glog-dev libhdf5-serial-dev libleveldb-dev liblmdb-dev libopencv-dev libprotobuf-dev libsnappy-dev protobuf-compiler python-all-dev python-dev python-h5py pythonmatplotlib python-numpy python-opency python-pil python-pip python-protobuf python-scipy pythonskimage python-sklearn

# 1.安装deb依赖包

•sudo apt-get install --no-install-recommends graphviz python-flask python-flaskext.wtf python-gevent python-pil python-tk

# 2. 安装CUDA

- 下载CUDA安装包
- 网址:
- deb安装方法: https://developer.nvidia.com/cuda-downloads
- sudo dpkg -i cuda-repo-ubuntu1404\_8.0.44-1\_amd64.deb
- sudo apt-get update
- sudo apt-get install cuda

# 2. 安装CUDA

- •重启计算机加载显卡驱动
- ●配置开发环境export PATH=/usr/local/cuda/bin:\$PATH
- export
  LD\_LIBRARY\_PATH=/usr/local/cuda/lib64:\$LD
  \_LIBRARY\_PATH



# 3. 安装cuDNN

下载网址: https://developer.nvidia.com/cudnn

### cuDNN Download



### 3. 安装cuDNN

- tar xzvf cudnn-8.0-linux-x64-v5.1-ga.tgz
- sudo cp -P cuda/include/cudnn.h /usr/local/cuda/include
- sudo cp -P cuda/lib64/libcudnn\* /usr/local/cuda/lib64
- sudo chmod a+r /usr/local/cuda/include/cudnn.h \
- /usr/local/cuda/lib64/libcudnn\*
- sudo ldconfig



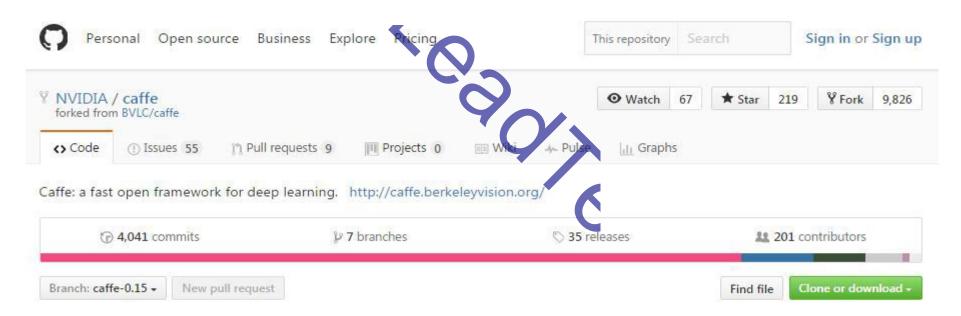


# 4. 安装NCCL

- ▶ 下载源码
- git clone https://github.com/NVIDIA/nccl.git
- build
- cd nccl
- make CUDA\_HOME=<cuda install path</li>
- install
- make install

# 5. 获取CAFFE-SOURCE

- export CAFFE\_ROOT=~/caffe
- git clone https://github.com/NVIDIA/caffe.git \$CAFFE\_ROOT



# 6. 编译CAFFE

- cd \$CAFFE\_ROOT
- mkdir build
- cd build
- •cmake ...
- make --jobs=4





### 7. DIGITS安装

- 获取源码
- > export DIGITS\_ROOT=~/digits
- git clone https://github.com/NVIDIA/DIGITS.git \$DIGITS\_ROOT
- ●启用插件
- > sudo pip install -e \$DIGITS\_ROOT
- ●启动server
- >./digits-devserver











#### Download Installer for Linux Ubuntu 14.04 x86\_64

The base installer is available for download below.













