Install softs List

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| --- | --- | --- |
| 版本 | 内容 | 编写人 |
| V1.0 | **Init doc 20170528** | **zhao** |
| V1.1 | **Add Tensorflow above libs** | **zhao** |
|  |  |  |

# OpenCV

OpenCV 2.4.x (Open Source Computer Vision Library) is an open source computer vision and machine learning software library。

# Tesseract

Optical Character Recognition

# Python

Python 2.x

# TensorFlow

TensorFlow is an open source software library for numerical computation using data flow graphs

# MySql

Database

# Install Software in Ubuntu

### install ffmpeg

sudo add-apt-repository ppa:kirillshkrogalev/ffmpeg-next

sudo apt-get update

sudo apt-get install ffmpeg

sudo apt-get install autoconf automake libtool

sudo apt-get install libpng12-dev

sudo apt-get install libjpeg62-dev

sudo apt-get install libtiff4-dev

sudo apt-get install libcv-dev

## test opencv

copy NumbesRecognition/install/Linuxcv/test To Linux disk

cd NumbesRecognition/install/Linuxcv/test

make

./test 1.jpg

If success runnig, Opencv is installed ok.

if found lib1394 error . the way to fix 1394lib Error:

Create a file /etc/udev/rules.d/raw1394.rules and add the following line:

KERNEL=="raw1394", GROUP="video"

# install python dev

apt-get install python-pip python-dev

# install TensorFlow

sudo pip install --upgrade <https://storage.googleapis.com/tensorflow/linux/cpu/tensorflow-1.0.0-cp27-none-linux_x86_64.whl>

apt-get install python-nose g++ libopenblas-dev

pip install Theano

pip install pyyaml

apt-get install libhdf5-serial-dev

pip install h5py

pip install keras

run once let it create cfg files

python

import tensorflow

import keras

quit()

if found RuntimeError: module compiled against API version 0xb but this version of numpy is 0xa

remove the matplotlib libs and reinstall

remove the old numpy libs

modify the Default DataFormat from channels\_end to channels\_first

vi ~/.keras/ keras.json

"image\_data\_format": "channels\_first",

train mnist datasets for cnn

Copy mnist.npz to ~/.keras/datasets/

pip install bottle

pip install imutils

apt-get install python-opencv

apt-get install python-skimage

apt-get install python-pywt

pip install cycler

pip install pytesseract

//v1.1 add

pip install matplotlib

pip install pillow

pip install pandas

pip install scipy

pip install scikit-learn

# Install tesseract in Ubuntu

sudo apt-get install tesseract-ocr

# install mysqldb in Ubuntu

apt-get install mysql-server

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# install opencv in windows

download Opencvinstall file form the url:

<http://pan.baidu.com/s/1dF6BNLv>

flower the Url cfg it.

http://blog.csdn.net/JDPlus/article/details/40920299