如何使用自动视频标签系统

1.安装 Tensorflow for python.

follow the instructions at

<https://www.tensorflow.org/install/>

verify that you have Python 2.7+ and Tensorflow 1.0.0 or higher installed by running the following commands:

python --version

python -c 'import tensorflow as tf; print(tf.\_\_version\_\_)'

2.安装 OpenCV for python

https://docs.opencv.org/trunk/d2/de6/tutorial\_py\_setup\_in\_ubuntu.html

running this command should print True:

python -c 'import cv2; print cv2.VideoCapture().open("/path/to/some/video.mp4")'

3.下载软件包和模型

<https://github.com/cmti95035/CMTI-Youtube-Tagging>

4.解压模型

sudo apt-get install unzip

unzip frame\_model.zip file.zip

5.从待识别视频获取特性

a..将待识别的视频文件放入在一个文件内：

vid\_dataset.csv

/path/to/vid1,52;3;10

/path/to/vid2,7;67

b..将视频文件转化成feature 文件, 命名为target.tfrecord

python extract\_tfrecords\_main.py --input\_videos\_csv ../user/vid\_dataset.csv --output\_tfrecords\_file ../user/target.tfrecord

6. 运行识别命令:

python inference.py --output\_file=user/predictions.csv --input\_data\_pattern='user/target.tfrecord' --train\_dir=model/frame\_level\_logistic\_model --frame\_features=True --model=FrameLevelLogisticModel --feature\_names="rgb" --feature\_sizes="1024" --run\_once=True

7.运行翻译命令将标签编号专为文字. vocabulary.csv 需要在同一个目录

Python translate.py -f prediction.csv