

**Step1:** Generate the \*.json file using the following format (The file **total.json** is attached) . We only use this file for training. Files below folder **annotations** are used for *evaluation using THUMOS14\_evalkit*.

infomation for all action instances in this video.

- action lable
- start time (sec)
- end time (sec)

duration of this video (sec)

**Step2:** Prepare your data, i. e., image frames and optical flow frames.

Example:

```
--frames/
|--class_1/
|   |--00000.jpg
|   |--00001.jpg
|   ...
--flow_frames/
|--class_1/
|   |--00000.jpg
|   |--00001.jpg
|   ...
```

**Step3:** Modify the corresponding code in **train.py**:

model\_file: path to save the trained model  
 rgb\_model\_file: pretrained weight of I3D (RGB).  
 flow\_model\_file: pretrained weight of I3D (Optical flow)  
 rgb\_root: path of rgb frames  
 flow\_root: path of optical flow frames  
 split\_file: generated file in **Step1**

*Please check other variables if needed.*

```
fight.txt
1 fight_000000 6.72 14.4
2 fight_000000 29.04 35.0
3 fight_000000 49.04 53.64
4 fight_000001 6.84 11.68
5 fight_000001 26.36 30.6
6 fight_000001 44.16 48.88
7 fight_000002 7.84 11.36
```

**Step4:** Run training procedure following README of github. Before evaluation using *THUMOS14\_evalkit*, you need to:

- Generate the annotations like fight.txt, which contains records with format 'file\_name-start\_time-end\_time'.
- Define the 'inf\_mapping.txt' for your dataset. It contains 'label-name-label' pairs like '1 drop 1'. The start number is 1.

Keep the same

Use the same label number as in the JSON file from step1