# 1. Location of OpenPose

OpenPose directory:/usr/local/openpose
Some models:/usr/local/openpose/models
Build files:/usr/local/openpose/build
Build files (Python):/usr/local/openpose/pybuild
PyOpenPose:/usr/local/pyopenpose

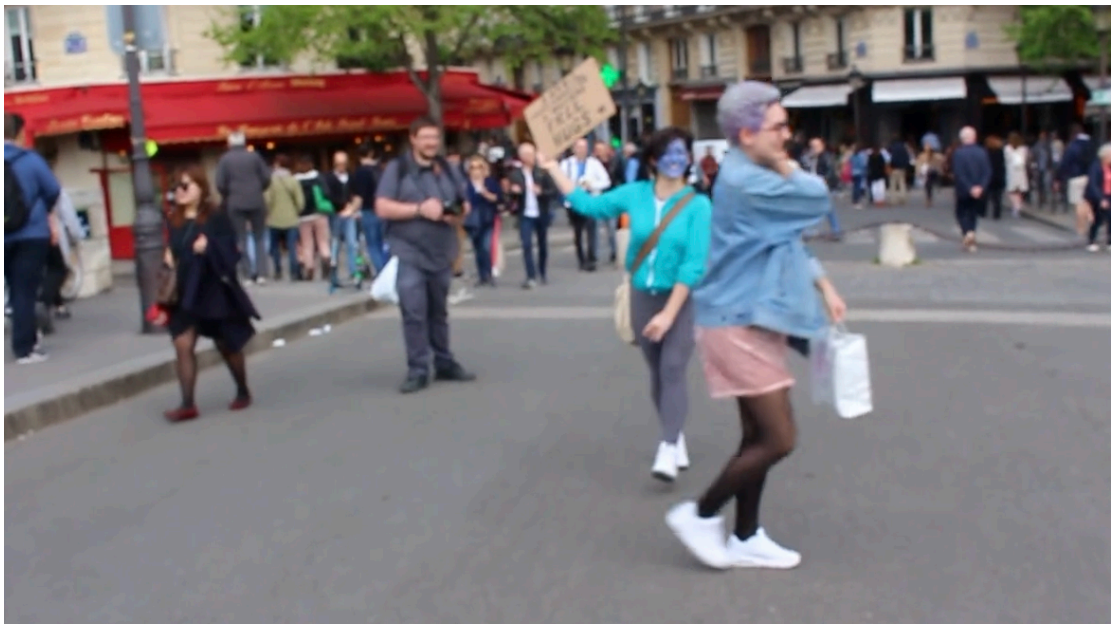
# 2. How To Use OpenPose

## (a) By Command Line:

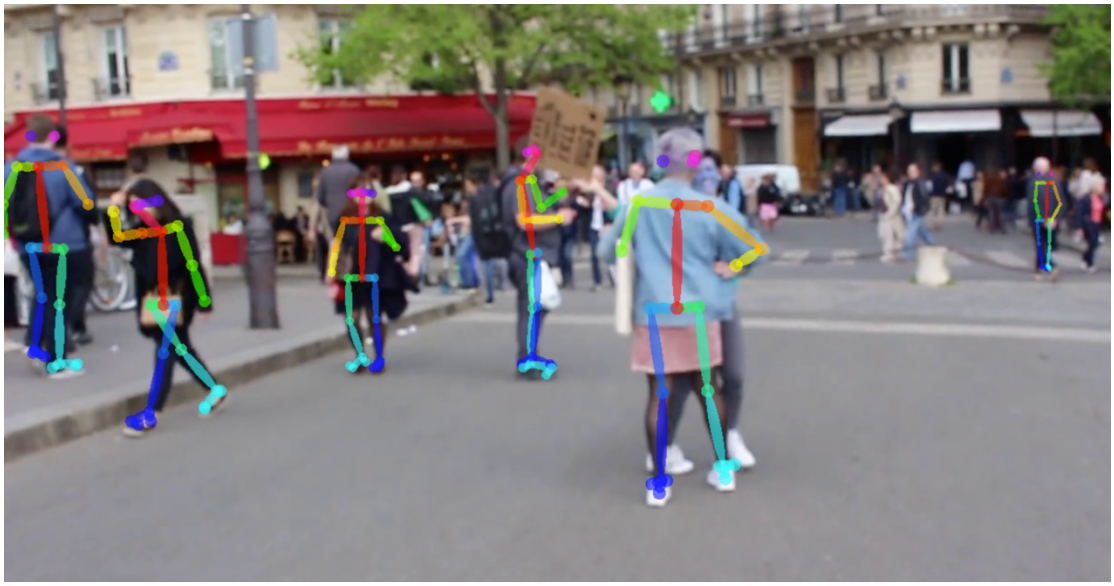
For example:
If we use hand & face model to handle with a video and need some output file in JSON format and one processed video instead of displaying videos in screen, we can input:

```
cd /usr/local/openpose
./build/examples/openpose/openpose.bin \
   --write_json test/outputJSON/ \
   --display 0 \
   --video "test/video.avi" \
   --write_video test/outputVideo.avi \
   --hand models/hand \
  --face models/face
```

Before:



Now: (About 126s)



More details on:
https://qiita.com/wada-n/items/e9e6653effc1e3d0c566
(Japanese)

(b) By PyOpenPose

PyOpenPose is a Python API for openpose and released in Jan 2019. It includes body, face, hands, and all the functionality of the C++ API.

We can see some information on:
https://github.com/CMU-Perceptual-Computing-Lab/openpose/blob/master/doc/modules/python_module.md
and
https://www.aiuai.cn/aifarm709.html
(Chinese)

We can import PyOpenPose by:

```
import sys
sys.path.append('/usr/local/pyopenpose')
from openpose import *
```

Or

```
import sys
sys.path.append('/usr/local/openpose/pybuild/python')
from openpose import *
```

But if we want use some models in a Python script, we have to write :

```
    ...
    params = dict()
    params["model_folder"] = "/usr/local/openpose/models/"
    ...
```

Some examples are showed in:
/usr/local/openpose/pybuild/examples/tutorial_api_python
We can use scripts in this directory to test.