

Instructions

Python

A local install of pip3 is required,. To make this local install you do to following for you linux OS. This can be done as follows:

```
wget https://bootstrap.pypa.io/get-pip.py python3  
get-pip.py --user
```

Now, pip3 will be installed in your home directory under `/home/$USER/.local/bin/`.
The version should be checked with:

```
PATH=$PATH:$HOME/.local/bin pip3  
--version
```

The output you will get:

```
pip 19.0.1 from /home/$USER/.local/lib/python3.6/site-packages/pip (python 3.6)
```

What do we need to install to be able to do analysis in Python.

Next, **sklearn**, **scikit-image** and **numpy** need be installed as follows:

```
pip3 install --user sklearn pip3  
install --user scikit-image pip3  
install --user numpy
```

For the use of HOG, the functions that need to imported in python are:

```
from skimage.feature import hog
```

Documentation (HOG) https://scikit-image.org/docs/dev/auto_examples/features_detection/plot_hog.html

For the use of SVM, the functions that need to imported in python are:

```
from sklearn import svm
```

Documentation (SVM)
<https://scikit-learn.org/stable/modules/svm.html>