

Object Detection

25 September 2018 14:45

Language programming; Python (3.7.0)

<http://www.Opencv.org>

Ebook references:

<http://gen.lib.rus.ec>

Keyword: Programming Computer Vision with Python

Read some articles from <https://ieeexplore.ieee.org/>

With keyword "Computer Vision" or "OpenCV"

Then create one page summary, then upload on [http://github.com/\[your NIM\]](http://github.com/[your NIM])

Create a new repository "Kecerdasan-Buatan"

<https://sci-hub.tw/https://ieeexplore.ieee.org/document/8245047/>

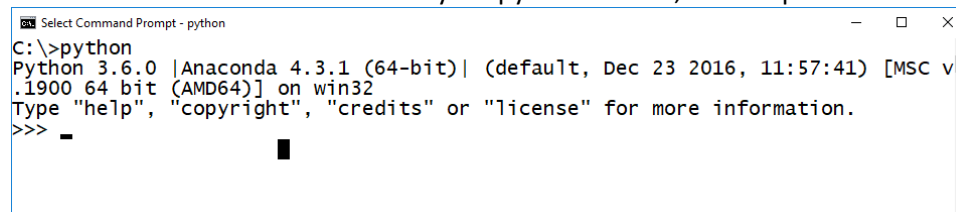
Examples how to use opencv & raspberry pi:

<https://www.pyimagesearch.com/2018/06/25/raspberry-pi-face-recognition/>

Insttaling Python (>3.5):

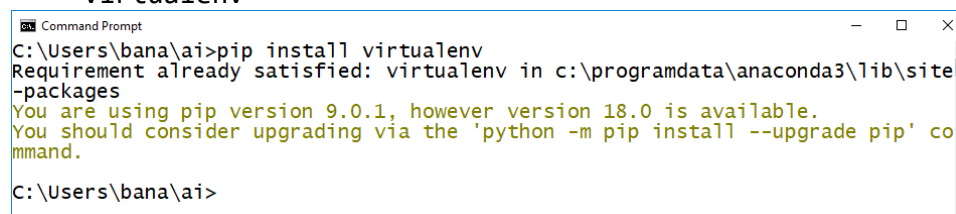
<https://www.python.org/downloads/>

Download & install then make sure your python is work, see the picture bellow



Create Virtual Environment for OpenCV Project:

- Create new sub folder "c:\users\acer>md ai"
- Goto new ai subfolder "c:\users\acer>cd ai"
- Download virtualenv module (library) : "c:\users\acer\ai>pip install virtualenv"



- Create virtual environment inside **aienv** subfolder: c:\users\acer\ai>virtualenv aienv

```
Command Prompt
C:\Users\bana\ai>virtualenv aienv
Using base prefix 'c:\programdata\anaconda3'
New python executable in C:\Users\bana\ai\aienv\Scripts\python.exe
Installing setuptools, pip, wheel...done.

C:\Users\bana\ai>
```

➤ Activate your aienv environment: c:\users\acer\ai>aienv\Scripts\activate

```
Select Command Prompt
C:\Users\bana\ai>aienv\Scripts\activate

(aienv) C:\Users\bana\ai>
```

➤ Install module opencv:

- (aienv) C:\Users\bana\ai>pip install opencv-python

```
Select Command Prompt
(aienv) C:\Users\bana\ai>pip install opencv-python
Collecting opencv-python
  Using cached https://files.pythonhosted.org/packages/17/2f/d9cc975666db25dcc412b76f46510ece2bd921465a361336d441a8313dc6/opencv_python-3.4.3.18-cp36-cp36m-win_amd64.whl
Collecting numpy>=1.11.3 (from opencv-python)
  Downloading https://files.pythonhosted.org/packages/15/7b/162a54ef1827fa9324d0610a526ab68b3c76c30b928c437df8c1d39bda86/numpy-1.15.2-cp36-none-win_amd64.whl (13.5MB)
    100% |#####| 13.5MB 2.2MB/s
Installing collected packages: numpy, opencv-python
Successfully installed numpy-1.15.2 opencv-python-3.4.3.18

(aienv) C:\Users\bana\ai>
```