

Task 2: Face detection

Code + Run

Spyder (Python 3.7)

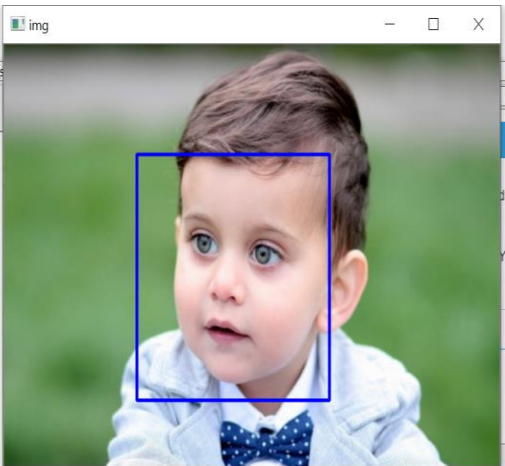
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C:\Python\Python37\Lib\site-packages\FaceDetection.py

temp.py untitled1.py untitled0.py t.py ShowImage.py FaceDetection.py

```
1  #-*- coding: utf-8 -*-
2  """
3  Created on Sat Jun 27 22:42:27 2020
4
5  @author: ASRAR
6  """
7
8  import cv2
9
10 # Load the cascade
11 face_cascade = cv2.CascadeClassifier('haarcascade_frontalface_default.xml')
12 # Read the input image
13 img = cv2.imread('13707636_f520.jpg')
14 # Convert into grayscale
15 gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
16 # Detect faces
17 faces = face_cascade.detectMultiScale(gray, 1.1, 4)
18 # Draw rectangle around the faces
19 for (x, y, w, h) in faces:
20     cv2.rectangle(img, (x, y), (x+w, y+h), (255, 0, 0), 2)
21 # Display the output
22 cv2.imshow('img', img)
23 cv2.waitKey()
24
```

img

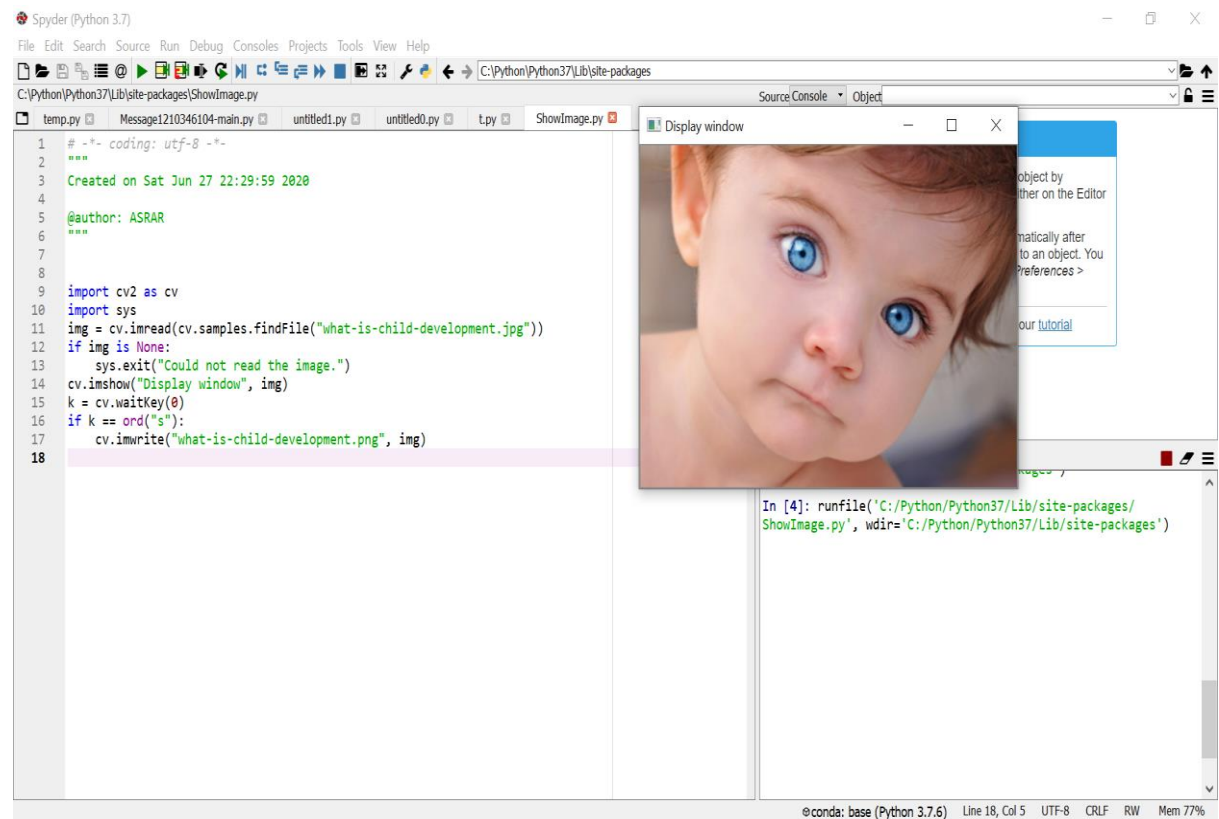


In [4]: runfile('C:/Python/Python37/Lib/site-packages/face.py',
wdir='C:/Python/Python37/Lib/site-packages')
Reloaded modules: PIL, PIL._version, PIL.Image, PIL.ImageMode,
PIL.TiffTags, PIL_binary, PIL_util, PIL_imaging, cffi,
cffi.api, cffi.lock, cffi.error, cffi.model

conda: base (Python 3.7.6) Line 24, Col 1 UTF-8 CRLF RW Mem 74%

Task 3: Show image

Code + Run



Reference:

- 1- <https://towardsdatascience.com/face-detection-in-2-minutes-using-opencv-python-90f89d7c0f81>
- 2- https://docs.opencv.org/master/d6/d00/tutorial_py_root.html