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Python+OpenCV+tf 开发环境搭建



## 主要内容

- OpenCV Python安装
- 开发环境搭建与测试

# OpenCV Python开发环境搭建

- Python 3.6
- Pycharm IDE
- OpenCV-Python - 下载地址: <https://www.jetbrains.com/pycharm/download/>
- <https://www.python.org/>
- <https://pypi.org/project/opencv-python/>
- `pip install opencv-python`
- `pip install opencv-contrib-python`
- `pip install tensorflow`
- `import cv2`

# 安装顺序

- 首先下载安装Python 3.6
- 然后安装Pycharm IDE
- 执行所有pip install命令
- 重启IDE即可

```
C:\>pip install opencv-python
```

# OpenCV Python人脸检测

```
1 import cv2 as cv
2
3 image = cv.imread("D:/vcprojects/images/three.png")
4 h, w = image.shape[:2]
5 detector = cv.CascadeClassifier(cv.data.harcascades +
6                                 "haarcascade_frontalface_default.xml")
7 faces = detector.detectMultiScale(image, scaleFactor=1.1,
8                                   minNeighbors=3, minSize=(30, 30), maxSize=(w//2, h//2))
9 for x, y, w, h in faces:
10     cv.rectangle(image, (x,y), (x+w, y+h), (0, 0, 255), 2, 8, 0)
11
12 cv.imshow("result", image)
13 cv.waitKey(0)
14 cv.destroyAllWindows()
```



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**Thank You !**