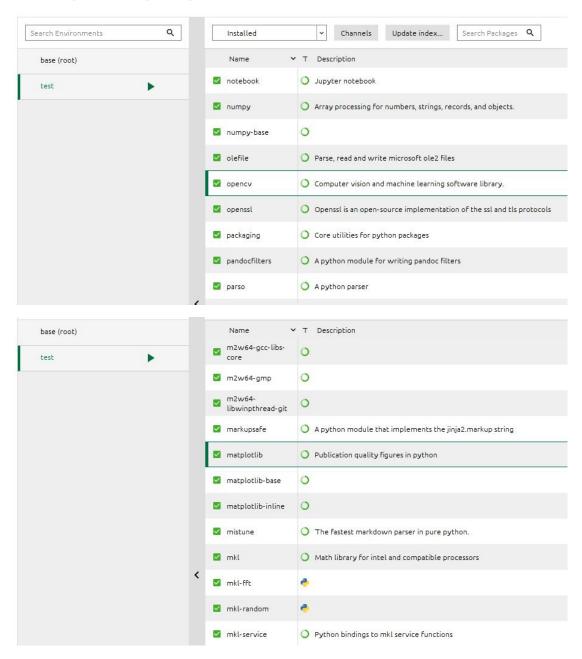


- 1. 安装 Anaconda
- 2. 安装虚拟环境
- 3. 安装 OpenCV, Numpy, Matplotlib





- 4. 学习 Numpy 和 CV2 工具包的使用
- 5. 用 OpenCV 检测人脸

```
In [1]: import cv2 as cv
In [2]: img = cv.imread('D:\FirstTerm\computer_vision\homework\lena.jpg', 1)
         cv.imshow("Raw Image", img)
         gray = cv.cvtColor(img, cv.COLOR_BGR2GRAY)
         detector = cv.CascadeClassifier("haarcascade_frontalface_default.xml")
         results = detector.detectMultiScale(gray, 1.5, 5)
         for x, y, w, h in results:
             cv.rectangle(img, (x, y), (x + w, y + h), (0, 0, 255), 2)
         text_str = "Lena"
         font_face = cv.FONT_HERSHEY_DUPLEX
         font_scale = 0.8
         font_thickness = 1
         text_w, text_h = cv.getTextSize(text_str, font_face, font_scale, font_thickness)[0]
         text_pt = (x - 60, y - 30)
         text_color = [255, 0, 0]
         cv.putText(img, text_str,text_pt, font_face, font_scale, text_color, font_thickness, cv.LINE_AA)
         cv.imshow("Face Detection", img)
         cv.waitKey(0)
```

