

```
1 import numpy as np # conda install numpy
2 import cv2 as cv # pip install opencv-python
3
4 cap = cv.VideoCapture(1)
5 if not cap.isOpened():
6     print("Cannot open camera")
7     exit()
8 while True:
9     # Capture frame-by-frame
10    ret, frame = cap.read()
11    # if frame is read correctly ret is True
12    if not ret:
13        print("Can't receive frame (stream end?).
    Exiting ...")
14        break
15    # Our operations on the frame come here
16    gray = cv.cvtColor(frame, cv.COLOR_BGR2GRAY)
17
18    # Display the resulting frame
19    cv.imshow('frame', gray)
20    if cv.waitKey(1) == ord('q'):
21        break
22 # When everything done, release the capture
23 cap.release()
24 cv.destroyAllWindows()
```