

Lesson 4: Reading and Writing Videos

Reading video from file:

```
cap = cv2.VideoCapture('video.mp4')
```

Accessing your webcam:

```
cap = cv2.VideoCapture(0)
```

Read and display frames in a loop:

```
while cap.isOpened():  
    ret, frame = cap.read()  
    if not ret:  
        break  
    cv2.imshow('Frame', frame)  
    if cv2.waitKey(1) & 0xFF == ord('q'):  
        break
```

Writing video output:

```
out = cv2.VideoWriter('output.avi', cv2.VideoWriter_fourcc(*'XVID'), 20.0, (640, 480))  
out.write(frame)
```

Always release resources:

```
cap.release()  
out.release()  
cv2.destroyAllWindows()
```