

TO PASS 80% or higher



grade 100%

Graded Quiz: Test your Project Understanding

LATEST SUBMISSION GRADE 100%

✓ correct
Yes, we must use yield instead of return.

2. The main problem with the following piece of code is:

1 * def get_frames(filename):
2 video = cv2.VideoCapture(filename)
3 frames = []
4 while Video.isOpened():
5 ret.frame = video.read()
6 if ret:
7 frames.append(frame)
8 else
9 break
10 video.release()
11 return frames

- Too much memory space required
- Not a Python generator
- O Too slow

✓ correct
Correct, this function reads the entire video into memory before returning everything.

3. To represent a color video frame using a numpy array, how many dimensions should the array have?

1/1 point

1 / 1 point

Correct
 We must store the location of the pixel (two dimensions), plus another dimension for the Red, Green and Blue color intensities.

4. The reason we can't read a video frame from our movie file without reading the preceding ones first is:

1/1 point

- Frame rate is not available in video header.
- A Python generator starts iterating from the first item.
- Video compression.

Correct
Yes, after compressing the video, information in one frame depends on the previous ones, so we cannot just jump to a specific frame and ignore the preceding.

5. The color conventions we saw in this project were:

1/1 point

- matplotlib uses BGR, OpenCV uses RGB
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✓ **Correct**That is the correct convention.

6. If we were to set all the pixel values to 255, our video would be (choose the best):

1 / 1 point

- All Black
- All White
- Brighter

