Notebook 1 Quiz Results for Joshua Cartwright Adams

(!) Correct answers are hidden.

Score for this attempt: **5** out of 5 Submitted Sep 6 at 6:37pm This attempt took 7 minutes.

Question 1	1 / 1 pts
Inspect the following code and select the best answer below.	
<pre>import cv2 img = cv2.imread("foo.png")</pre>	
If the file "foo.png" does not exist, what is stored in img?	
Nothing, cv2.imread raises a RuntimeError	
Nothing, cv2.imread raises an IOError	
An empty array	
None	
Correct! OpenCV does not raise an error if the file does not exist, wh can create unexpected errors elsewhere in your code at runtime.	ich

Question 2	1 / 1 pts
What is the default color space for color images read using cv2.imr	ead()?
RGBA	
HSV	

	RGB
•	BGR
	Correct! OpenCV stores the color channels in BGR order by default while most other libraries expect RGB order.

What is the default "dtype" of images read with OpenCV cv2.imread()? np.float64 np.uint8 Correct! Numpy assigns a default type of "uint8" (0-255) to the elements in the image array. int np.double

Question 4 Consider the following code and select the best answer below. import numpy as np img = np.zeros((4, 4)) assert(img[0][2] == img[0, 2])

What kind of error do you expect when this code is executed?

None of the Above

Correct! Remember that multi-indexing is the preferred syntax for numpy arrays: img[0, 2]

AssertionError

IndexError - too many values for array index

SyntaxError - too many values to unpack for array index

RuntimeError - cannot access array elements before they are initialized

Question 5	1 /
Consider the following code and select the be	est answer below.
<pre>import numpy as np import cv2 img = np.ones((4, 4)) assert(np.allclose(cv2.multiply(img, 256), np.m</pre>	
What kind of error do you expect when this co	ode is executed?
SyntaxError - ambiguous comparison operation	ator for arrays
RuntimeError - array value overflow	
AssertionError	
ValueError - incompatible array types	
None of the Above	
	so this operation is the same

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