

Course > Week 3... > Week 3... > Week 3...

Week 3 Quiz

Multiple Choice

1/1 point (graded)

When working with cells in Jupyter, what does "_" refer to?

•	The output of the last cell executed. \checkmark	

- A space in the line of code.
- A string character.

Answer

Correct: Video: "Jupyter: Getting Started"

Submit

1 Answers are displayed within the problem

True or False

1/1 point (graded)

Code in the Jupyter code cells are restricted to being one line.

True

False

Correct: Video: "Jupyter: Getting Started"

Submit

1 Answers are displayed within the problem

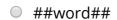
Multiple Choice

1/1 point (graded)

Using markdown cells in Jupyter, how do you format text as bold?









Answer

Correct: Video: "Documenting Analysis with Markdown Text"

Submit

1 Answers are displayed within the problem

Checkboxes

1/1 point (graded)

What are the 3 reasons that data scientists working in Python use numpy all the time?

✓ Its speed. ✓

✓ Its functionality. ✓
✓ Many packages rely on numpy. ✓
It enables text markup cells.
✓
Answer Correct: Video: "Why Numpy" Video: "Why Numpy" Video: "Why Numpy" Video: "Why Numpy" Video: "Why Numpy"
Answers are displayed within the problem
True or False
1/1 point (graded) Elements in numpy arrays must be all the same type.
● True ✔
O False
Answer Correct: Video: "Why Numpy" Submit
Answers are displayed within the problem

True or False

1/1 point (graded) ndarrays are mutable.



False

Answer

Correct: Video: "Numpy: ndarrays Basics"

Submit

1 Answers are displayed within the problem

Multiple Choice

1/1 point (graded) Look at the following code:

What error prints out after you run these two lines of code?

SyntaxError

NameError

KeyError

ValueError

Answer

Correct: Video: "Numpy: ndarrays Basics"

1 Answers are displayed within the problem

Multiple Choice

1/1 point (graded)

How do you create an Rank 1 array with numpy using the numbers 1, 2, 3?

- np.ndarray([1,2,3])
- np.array([1,2,3])
- np.array(1,2,3)
- onp.ndarray(1,2,3)
- np.ndarray([[1,2,3],[3,2,1])
- np.array([[1,2,3],[3,2,1])

Answer

Correct: Video: "Numpy: ndarrays Basics"

Submit

1 Answers are displayed within the problem

Multiple Choice

1/1 point (graded)

There is a syntax error in the code below.

np.array([11,12,13],[21,22,23])

How would you fix it to create the intended 2x3 array?

np.array([[11,12,13],[21,22,23]])

- np.array([11,12,13,21,22,23])
- np.array([11,12,13],[21,22,23])
- np.array[[11,12,13,21,22,23]]

Answer

Correct: Video: "Numpy: ndarrays Basics"

Submit

1 Answers are displayed within the problem

Multiple Choice

1/1 point (graded)

How would you change the number 5 to 7 in this matrix?

$$arr = np.array([1,2,3,4,5])$$

- \circ arr[0,5] = 7
- arr[4] = 7
- \circ arr[5] = 7
- \circ arr[0,4] = 7

Answer

Correct: Video: "Numpy: ndarrays Basics"

1 Answers are displayed within the problem

Checkboxes

1/1 point (graded) Given the code below:

Which of the following two commands below produce the same result?

- ✓ arr[0:1,1:3] ✓
- \Box arr[2,1:3]
- arr[1,1:3]
- arr[:1,1:3]
 ✓



Answer

Correct:

Video: "Numpy: ndarray Indexing" Video: "Numpy: ndarray Indexing" Video: "Numpy: ndarray Indexing" Video: "Numpy: ndarray Indexing"

Submit

1 Answers are displayed within the problem

Multiple Choice

1/1 point (graded)

lf١	you tr	y to	access	rows o	of a 3-b	y-3	nump	y arra	y called	"arr"	using the	command:

arr[:2,]

How many rows will be returned?

- 2
- 0 3
- IndexError: index out of bounds

Answer

Correct: Video: "Numpy: ndarrays Indexing"

Submit

1 Answers are displayed within the problem

Multiple Choice

1/1 point (graded)

You are given the following lines of code:

```
arr = np.array([[1,2,3],[4,5,6],[7,8,9]])
slice = arr[:2,1:3]
slice[0,0]
```

What is the result of "slice[0,0]" in your last line of code?

0 1



0 3

0 4

Answer

Correct: Video: "Numpy: ndarrays Indexing"

Submit

1 Answers are displayed within the problem

Multiple Choice

1/1 point (graded)

You are given the following lines of code:

What element in arr is equivalent to slice[0,0]?

- arr[0,0]
- arr[0,1]
- arr[2,2]
- arr[0,2]

Answer

Correct: Video: "Numpy: ndarrays Indexing"

Submit

1 Answers are displayed within the problem

True or False

1/1 point (graded)

Changing an element of an array slice in numpy will NOT change the original array.





Answer

Correct: Video: "Numpy: ndarrays Indexing"

Submit

1 Answers are displayed within the problem

Checkboxes

1/1 point (graded)

In what 3 ways can you quickly access numpy array elements?











Answer

Correct:

Video: "Numpy: ndarray boolean Indexing" Video: "Numpy: ndarray boolean Indexing" Video: "Numpy: ndarray boolean Indexing" Video: "Numpy: ndarray boolean Indexing"

1 Answers are displayed within the problem

Multiple Choice

1/1 point (graded)

What is the correct way to access elements of an array "arr" that are less than 0?

- arr[<0]</pre>
- arr[arr<0] </p>
- arr[arr[,]<0]</pre>

Answer

Correct: Video: "Numpy: ndarray boolean Indexing

Submit

1 Answers are displayed within the problem

Checkboxes

1/1 point (graded)

Select two valid ways to get the odd values of an array "arr."

- arr[(arr % 2 != 1)]
- arr[(arr % 2 != 0)]

 ✓
- arr[(arr % 2 == 1)]

 ✓

arr[(arr % 2 == 0)]



Answer

Correct:

Video: "Numpy: ndarray boolean Indexing" Video: "Numpy: ndarray boolean Indexing" Video: "Numpy: ndarray boolean Indexing" Video: "Numpy: ndarray boolean Indexing"

Submit

1 Answers are displayed within the problem

Multiple Choice

1/1 point (graded)

What requirement is needed to add two numeric numpy arrays?

- They need to have the same or compatible dimensions.
- They need to be of the same type.
- They need to be converted to type float first.

Answer

Correct: Video: "Numpy: ndarray DataTypes and Operations"

Submit

1 Answers are displayed within the problem

Multiple Choice

1/1 point (graded)

What command allows you to sum all of the elements in an Rank 2 ndarray called "a"?

● a.sum() ✔
sum(a)
O A+a
a.add()
nswer orrect: Video: "Numpy: Statistical, Sorting, and Set Operations" Submit Answers are displayed within the problem
Iultiple Choice
1 point (graded) hat is the result of the following lines of code?
a=np.array(["cat","dog","fish"]) b=np.array(["dog","fish","rabbit"]) print(np.setdiff1d(a,b))
● ['cat']
○ ['rabbit']

Answer

['dog' 'fish']

['cat' 'dog' 'fish' 'rabbit']

Correct: Video: "Numpy: Statistical, Sorting, and Set Operations"

Submit

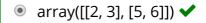
1 Answers are displayed within the problem

Multiple Choice

1/1 point (graded)

What is the output of the following broadcasting call?

```
A = np.array([[1],[2]])
B = np.array([[1,2],[3,4]])
A + B
```



- array([[2, 4], [4, 6]])
- array([[1, 2], [3, 4],[1,2]])
- Value Error

Answer

Correct: Video: "Numpy: Broadcasting"

Submit

1 Answers are displayed within the problem

True or False

1/1 point (graded)

Take a look at the following lines of code:

```
a = np.array([2, 3])
b1 = np.array([1])
b2 = 1
```

True or False: a+b1 and a+b2 result in the same ndarray.

- True ✓
 - False

Answer

Correct: Video: "Numpy: Broadcasting"

Submit

1 Answers are displayed within the problem

Checkboxes

1/1 point (graded)

Which of the following are benefits of ndarrays over lists? Select 3.

- ✓ Ndarrays are more space efficient. ✓
- Ndarrays are more optimized for memory.
- Ndarrays often have faster computation.
- Ndarrays have more variable types than lists.



Answer

Correct:

Video: "Numpy: Speed Test ndarray vs list" Video: "Numpy: Speed Test ndarray vs list" Video: "Numpy: Speed Test ndarray vs list" Video: "Numpy: Speed Test ndarray vs list"

1 Answers are displayed within the problem

Multiple Choice

1/1 point (graded)

In an RGB images, which three values specifying a pixel's color correspond to the color white?

- 255, 255, 255
- 0, 0, 0
- 0 100, 100, 100
- 255, 0, 255

Answer

Correct: Video: "Satellite Image Example"

Submit

1 Answers are displayed within the problem

Multiple Choice

1/1 point (graded)

Which layer of the 3 layer matrix of colors corresponds to the color blue when working with images in Numpy?

Layer 0

● Layer 2 ✔				
ınswer				
Correct: Video: "Sa	atellite Image Exa	imple"		
Submit				

© All Rights Reserved