PY0101EN-5.2_notebook_quizz_numpy2d

October 17, 2019

Get to Know a numpy Array

You will use the numpy array A for the following

[1]:
```
import numpy as np
A=np.array([[11,12],[21,22],[31,32]])
A
```

[1]:
```
array([[11, 12],
       [21, 22],
       [31, 32]])
```

1) type using the function type

[2]:
```
type(A)
```

[2]:
```
numpy.ndarray
```

2) the shape of the array

[3]:
```
A.shape
```

[3]:
```
(3, 2)
```

3) the type of data in the array

[4]:
```
A.dtype
```

[4]:
```
dtype('int64')
```

4) Find the second row of the numpy array A:

[5]:
```
A[1,0:2]
```

[5]:
```
array([21, 22])
```

Two kinds of Multiplying

you will use the following numpy arrays for the next questions

[6]:
```
A=np.array([[11,12],[21,22]])
B=np.array([[1, 0],[0,1]])
```

1) multiply array A and B

C=A*B

[8]:
```
C=A*B
C
```

[8]:
```
array([[11,  0],
       [ 0, 22]])
```

2) plot the function

[9]:
```
np.dot(A,B)
np.dot(B,A)
```

[9]:
```
array([[11, 12],
       [21, 22]])
```