

NumPy divide()



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Summary: in this tutorial, you'll learn how to use the numpy divide() function or the / operator to find the quotient of two equal-sized arrays, element-wise.

Introduction to the Numpy subtract function

The / operator or divide() function returns the quotient of two equal-sized arrays (https://www.pythontutorial.net/python-numpy/create-numpy-array/) by performing element-wise division.

Let's take some examples of using the / operator and divide() function.

Using NumPy divide() function and / operator to find the quotient of two 1D arrays

The following example uses the / operator to find the quotient of two 1-D arrays:

```
import numpy as np

a = np.array([8, 6])
b = np.array([2, 3])
```

23/2/23, 21:26 NumPy divide()

```
c = a/b
print(c)
```

Output:

```
[4. 2.]

8 6 / 2 3 = 4. 2.
```

How it works.

First, create two 1D arrays (https://www.pythontutorial.net/python-numpy/create-numpy-array/) with two numbers in each:

```
a = np.array([8, 6])
b = np.array([2, 3])
```

Second, find the quotient of a/b by using the * operator:

```
c = a / b
```

The / operator returns the quotient of each element in array a with the corresponding element in array b:

```
[8/2, 6/3] = [4,2]
```

Similarly, you can use the divide() function to get the quotient of two 1D arrays as follows:

```
import numpy as np

a = np.array([8, 6])
b = np.array([2, 3])
```

23/2/23, 21:26 NumPy divide()

```
c = np.divide(a, b)
print(c)
```

Output:

```
[4. 2.]
```

Using NumPy divide() function and / operator to get the quotient of two 2D arrays

The following example uses the / operator to find the quotient of two 2D arrays:

```
import numpy as np

a = np.array([[10, 8], [6, 4]])
b = np.array([[5, 2], [2, 1]])

c = a/b
print(c)
```

Output:

```
[[2. 4.]
[3. 4.]]
```

In this example, the / operator performs element-wise division:

```
[[ 10/5 8/2]
[3*7 4*8]]
```

Likewise, you can use the divide() function to find the products of two 2D arrays:

```
import numpy as np
```

23/2/23, 21:26 NumPy divide()

Output:

```
[[2. 4.]
[3. 4.]]
```

Summary

• Use the * operator or divide() function to find the quotient of two equal-sized arrays.