numpy.multiply

numpy.multiply(x1, x2[, out]) = <ufunc 'multiply'>

Multiply arguments element-wise.

Parameters:	x1, x2 : array_like Input arrays to be multiplied.
Returns:	y : ndarray The product of x1 and x2, element-wise. Returns a scalar if both x1 and x2 are scalars.

点对点相乘，不是矩阵乘法

Previous topic
numpy.negative (numpy.negative.htr

Next topic
numpy.divide (numpy.divide.html)

Notes

Equivalent to x1 * x2 in terms of array broadcasting.

Examples

```
>>> np.multiply(2.0, 4.0)
8.0

>>> x1 = np.arange(9.0).reshape((3, 3))
>>> x2 = np.arange(3.0)
>>> np.multiply(x1, x2)
array([[  0.,   1.,   4.],
       [  0.,   4.,  10.],
       [  0.,   7.,  16.]])
```

行、行点对点相乘

```
>>> x1 = np.arange(9.0)
>>> x1
array([ 0.,  1.,  2.,  3.,  4.,  5.,  6.,  7.,  8.])
>>> x1.reshape((3,3))
array([[ 0.,  1.,  2.],
       [ 3.,  4.,  5.],
       [ 6.,  7.,  8.]])
>>> x2=np.arange(3.0)
>>> x2
array([ 0.,  1.,  2.])
```