

```
▽ [152] my_slice.shape
秒
0 [153] my_slice = train_images[:,14:,14:]#15-28
で [154] plt.imshow(my_slice[13], cmap=plt.cm.binary)#0,1方式

print("数字6的右下角")
         print("數字6的右下角")
plt.grid(False)
              0 2 4 6 8 10 12
0 [155] my_slice = train_images[: ,7:-7, 7:-7]#原本第一個
「[156] plt.imshow(my_slice[13], cmap=plt.cm.binary)#0,1方式

print("數字8的中間裁切位子")

plt.grid(False)

    Numpy array

[157] import numpy as np
       • Numpy max() maximum()差別
            。 np.max() 最少接收一個參數,回傳所有內容的最大值
            ○ np.maximum(A, B) 最少接收兩個參數,回傳A與B逐個比較的最大值
    import numpy as np value - [1, 2, 3, 4, 9, 8, 7, 6]
[158] x = np.array([1,3,2,4]).reshape(2,2)

by y = np.array([-5,6,1,2])
        y. shape = (2, 2)
print("x:\n", x)
print("y:\n", y)
        z = x + y

z = np.maximum(z, 0.)
          [[0. 9.]]
```

<u>參考1</u> 參考2 這個論

warnings.warn(msg, FutureWarning)

100

[2.12824215 0.52457539 -0.25689168]]
/usr/local/lib/python3.8/dist-packages/seaborn/distributions.py:2619: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your cod

```
-3 -2 -1 0 1
(5)
(5)
(5)
             [0 0 2 3 2 0 2 2 1 3] array([31, 22, 39, 42, 23, 16, 14, 32, 4, 18, 45, 34, 48, 34, 2])
 [165] ## (6)

import
            np.random.normal(size = (4,4)) #虚生平均數0.擇連差為1的14*個樣本矩陣 np.random.normal(1,4,size = 1000) #產生平均數1.標準差為4的1000個樣本 sns. distplot(np.random.normal(1,4,size = 1000), bins = 20)
             <AxesSubplot:ylabel='Density'>
              € 0.06
                 0.04
                 0.02
                 0.00
                           -15
                                    -10
 [166] x = np.random.random((64, 3, 32, 10))

by y = np.random.random((32, 10))
             print(z.ndim)
          • Python 内積 點積大不同
(167] a=np. array([[1, 2], [3, 4]])

b⇒np. array([[1, -2], [-3, 4]])
             print("a: \n", a)
print("b: \n",b)
print("平常用到dot: \n",np.dot(a,b))
             print("inner: \n", np. inner(a, b))
print("element-wise product: \n", a*b)
             b:
[[11 12]
[13 14]]
平常用到dot
[[37 40]
[85 92]]
             inner:
[[35 41]
[81 95]]
             element-wise product.
[[11 24]
[39 56]]
[168] import numpy as np
```