

Numpy

- description : numpy
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- lastupdate : 2020-07-14

```
[1] 1 import numpy as np

[12] 1 # 0 차원
      2 a =np.array(1)
      3 print(a.shape, a.ndim)

↳ (,) 0

[13] 1 # 1 차원
      2 a =np.array([1])
      3 print(a.shape, a.ndim)

↳ (1,) 1

[16] 1 # 2 차원
      2 a =np.array([[1, 2, 3],[1, 2, 3],[1, 2, 3]])
      3 print(a.shape, a.ndim)

↳ (3, 3) 2

[19] 1 # 2 차원
      2 a =np.array([[1]])
      3 print(a.shape, a.ndim)

↳ (1, 1) 2

▶ 1 # 3 차원
   2 a =np.array([[[1, 2], [1, 2], [1, 2]],[[1, 2], [1, 2], [1, 2]]])
   3 print(a.shape, a.ndim)

↳ (2, 3, 2) 3
```

Numpy

Google_Colab

```
[1] 1 import numpy as np
```

```
[12] 1 # 0 차원  
2 a =np.array(1)  
3 print(a.shape, a.ndim)
```

```
↳ () 0
```

```
[13] 1 # 1 차원  
2 a =np.array([1])  
3 print(a.shape, a.ndim)
```

```
↳ (1,) 1
```

```
[16] 1 # 2 차원  
2 a =np.array([[1, 2, 3],[1, 2, 3],[1, 2, 3]])  
3 print(a.shape, a.ndim)
```

```
↳ (3, 3) 2
```

```
[19] 1 # 2 차원  
2 a =np.array([[[]]])  
3 print(a.shape, a.ndim)
```

```
↳ (1, 1) 2
```

```
▶ 1 # 3 차원  
2 a =np.array([[[1, 2], [1, 2], [1, 2]],[[1, 2], [1, 2], [1, 2]]])  
3 print(a.shape, a.ndim)
```

```
↳ (2, 3, 2) 3
```

Tip

, [numpy](#)

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. - 2023.12



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Last update: **2022/03/10 19:52**