

Numpy

import numpy as np

a = np.array([5, 6, 9])

[one dimension]

a[0]
> 5

Two dimension

a = np.array([[1, 2], [3, 4], [5, 6]])

[Two dimension]

a.ndim ← Represent the dimension.
> 2

a.itemsize

> 4 byte

dtype("int32")

a = np.array([5, 6, 9], dtype=np.float64)

↑
type casting.

a
> 5. 6. 9.

a.shape

> (3, 2)

, dtype = complex)

1	2
3	4
5	6

2

3

np.zeros((3, 4))

↑ shape
initializing an array
with zero

np.ones((3, 4))

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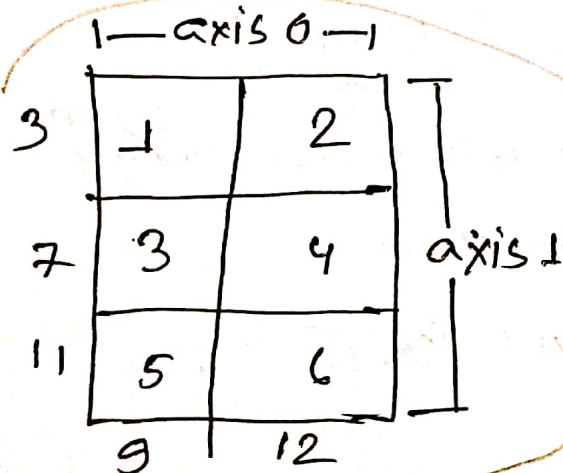
np.arange(1,5)

> array([1,2,3,4,5])

np.linspace(1,5,10) ←
↑ ↑ the amount
start stop of num

a.shape (3,2) | 2 column
3 rows

a.reshape(2,3) | 2 Rows
3 column.



numpy function

a.min() ← minimum
> 1 element in array

a.max() ← maximum
> 5 element in array.

a.sum() ← sum of all
> 15 element in array.

a.sum(axis=0)
> array([9,12])

a.sum(axis=1)
> array([3,7,11])

`np.sqrt(a)`

`np.std(a)` ← standard deviation

`a = np.array([[1,2],[3,4]])`

`b = np.array([[5,6],[7,8]])`

`> a + b`

`> a * b`

`> a / b`

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