

Creating Arrays

```
a = np.array([1, 2, 3])
b = np.array([(1.5, 2, 3), (4, 5, 6)], dtype= float) # 2D array with float type
c = np.zeros((3, 4))
d = np.ones((2, 3, 4), dtype= np.int16) # Array of ones
e = np.arange(10, 25, 5, dtype= np.int32) # Array of evenly spaced values (step value)
f = np.linspace(0, 2, 9) # Array of evenly spaced values (number of samples)
g = np.full((2, 2), 7)
h = np.eye(2)
i = np.random.random((2, 2))
j = np.empty((3, 2))
```

Getting Info

```
np.info(np.ndarray.dtype)
```

Comparison

```
np.all(a) # Element-wise comparison
np.allclose(a, b) # Element-wise comparison with tolerance and only spaced values (step value)
np.array_equal(a, b) # Array-wise comparison
np.all(a == b) # Element-wise comparison
np.allclose(a, b) # Element-wise comparison with tolerance and only spaced values (step value)
np.array_equal(a, b) # Array-wise comparison
np.ones(2) # Constant array
np.eye(2) # 2x2 identity matrix
np.random.random((2, 2)) # Array with random values
np.empty((3, 2)) # Empty array
```

C

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