Cheatography

Numpy Cheat Sheet

by Tushar07 via cheatography.com/207717/cs/44406/

Creating Arrays

```
a = np.arr ay([1, 2, 3])
b = np.arr ay( [(1.5, 2, 3), (4, 5, 6)], dtype= float)  # 2D array with float type
c = np.zer os((3, 4))                                   # Array of zeros
d = np.one s((2, 3, 4),, dtype= np.i nt16)              # Array of ones
e = np.ara nge(10, 25, 5dtype =np.int16)                # Array of evenly spaced values (step value)
f = np.lin spa ce(0, 2, 9)                              # Array of evenly spaced values (number of samples)
g = np.ful l((2, 2), 7)                                 # Constant array
h = np.eye(2)                                           # 2x2 identity matrix
i = np.ran dom.ra ndo m((2, 2))                         # Array with random values
j = np.emp ty((3, 2))                                   # Empty array
```

Getting Info

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

Comparison

```
a == b # Element-wise comparison
a < 2 # Element-wise comparison
np.array_equal(a, b) # Array-wise comparison
```

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