## 7\_numpy\_comparison

## May 16, 2019

```
In [ ]: import numpy as np
all & any
In []: a = np.arange(10)
In []: a<0
In []: np.any(a>5), np.any(a<0)</pre>
In []: np.all(a>5) , np.all(a < 10)</pre>
comparision operation
In [ ]: test_a = np.array([1, 3, 0], float)
        test_b = np.array([5, 2, 1], float)
        test_a > test_b
In [ ]: test_a == test_b
In [ ]: (test_a > test_b).any()
In [ ]: a = np.array([1, 3, 0], float)
        np.logical_and(a > 0, a < 3) # and condition
In []: b = np.array([True, False, True], bool)
        np.logical_not(b) # NOT condition
In [ ]: c = np.array([False, True, False], bool)
        np.logical_or(b, c) # OR condition
In []: a
In []: np.where(a > 0, 3, 2) # where(condition, TRUE, FALSE)
In []: a = np.arange(5, 15)
        a
In [ ]: np.where(a>10)
In []: a = np.array([1, np.NaN, np.Inf], float)
        np.isnan(a)
In []: np.isfinite(a)
```

## argmax & argmin