## 4\_numpy\_creation\_functions

## May 16, 2019

```
In [ ]: import numpy as np
arange
In [ ]: np.arange(30) # range: List range , integer 0 29
In []: np.arange(0, 5, 0.5) # floating point
In []: np.arange(30).reshape(5,6)
ones, zeros & empty
In [ ]: np.zeros(shape=(10,), dtype=np.int8) # 10 - zero vector
In []: np.zeros((2,5)) # 2 by 5 - zero matrix
In []: np.ones(shape=(10,), dtype=np.int8)
In []: np.ones((2,5))
In []: np.empty(shape=(10,), dtype=np.int8)
In []: np.empty((3,5))
In []: test_matrix = np.arange(30).reshape(5,6)
       np.zeros_like(test_matrix)
eye, identity & digonal
In [ ]: np.identity(n=3, dtype=np.int8)
In []: np.identity(5)
In [ ]: np.eye(N=3, M=5, dtype=np.int8)
In []: np.eye(3)
In []: np.eye(3,5,k=2)
```