More Numpy Operations

- np.arange(1,11).reshape(5,2)
- np.arange(1,11).reshape(2,5)

- np.ones((3,4))
- np.zeros((3,4))
- np.random.random((4,3))
- np.identity(3)
- a1.itemsize
- x = np.array([33, 22, 2.5])
- x.astype(int)

Scalar Operations

- z1 = np.arange(12).reshape(3,4)
- z2 = np.arange(12,24).reshape(3,4)
- z1 + 2
- z1 – 2
- z1 * 2
- z1 ** 2
- z1 % 2

relational Operators

- z2 > 2
- z2 > 20

Vector Operation

- z1 + z2
- z1 * z2
- z1 - z2
- z1 / z2

Array Functions

- k1 = np.random.random((3,3))
- k1 = np.round(k1*100)
- np.max(k1)
- np.min(k1)
- np.sum(k1)
- np.prod(k1)
- np.max(k1, axis = 1)
- np.max(k1, axis = 0)
- np.prod(k1, axis = 0)

Statistics related fuctions

- np.mean(k1)
- k1.mean(axis=0)
- np.median(k1)
- np.std(k1)
- np.var(k1)

Trignometry Functions

- np.sin(k1)
- np.cos(k1)
- np.tan(k1)

dot product

- s2 = np.arange(12).reshape(3,4)
- s3 = np.arange(12,24).reshape(4,3)
- np.dot(s2,s3)
- np.exp(s2)
- arr = np.array([1.2, 2.7, 3.5, 4.9])
- rounded_arr = np.round(arr)
- print(rounded_arr)

- arr = np.array([1.234, 2.567, 3.891])
- rounded_arr = np.round(arr, decimals=2)
- print(rounded_arr)
- arr = np.array([1.2, 2.7, 3.5, 4.9])
- floored_arr = np.floor(arr)
- print(floored_arr)
- arr = np.array([1.2, 2.7, 3.5, 4.9])
- ceiled_arr = np.ceil(arr)
- print(ceiled_arr)

Reshaping

- np.transpose(p2)
- p2.ravel()
- np.hstack((w1,w2))
- np.vstack((w1,w2))
- np.hsplit(w1,2)
- np.hsplit(w1,4)
- np.vsplit(w2,3)