

# Hints for HW2

## 1. Useful Functions in NumPy

You can call functions like:

- `np.random.normal`
- `np.sin`
- `np.cos`

## 2. Matrix Production

Define a 4x4 matrix like `np.matrix([[1, 0, 0, 0.5],  
[0, 1, 0, 0.5],  
[0, 0, 1, 0.5],  
[0, 0, 0, 1]])`

matrix product is as simple as `A * B`, where A and B are numpy matrices.