

## 9\_numpy\_data\_io

May 16, 2019

```
In [ ]: import numpy as np
```

**load txt**

```
In [ ]: a = np.loadtxt("./populations.txt")
        a[:10]
```

```
In [ ]: a_int = a.astype(int)
        a_int[:3]
```

```
In [ ]: np.savetxt('int_data.csv',a_int, delimiter=",")
```

**numpy object - npy**

```
In [ ]: np.save("np_test", arr=a_int)
```

```
In [ ]: npy_array = np.load(file="np_test.npy")
        npy_array[:3]
```

```
In [ ]:
```

```
In [ ]: a = np.array([[1,2,3], [4,5,6], [7,8,9]], int)
```

```
In [ ]: np.savetxt('a_npy.txt', a)
```

```
In [ ]: a = np.loadtxt('a_npy.txt',dtype=int)
        a
```

```
In [ ]: a = np.loadtxt('a_npy.txt',dtype=float)
        a
```

```
In [ ]: np.savetxt('a_npy.csv', a)
```

```
In [ ]: a = np.loadtxt('a_npy.csv',dtype=int)
        a
```

```
In [ ]:
```

```
In [ ]: b = np.array([[1,2,3], [4,5,6], [7,8,9]], int)
        b
```

```
In [ ]: np.save('bnpy', b)
```

```
In [ ]: b = np.load('bnpy.npy')
```

```
In [ ]: b
```