Chapter 5 - Basic Math and Statistics

Segment 1 - Using NumPy to perform arithmetic operations on data

```
import numpy as np
from numpy.random import randn
np.set_printoptions(precision=2)
```

Creating arrays

Creating arrays using a list

▼ Creating arrays via assignment

```
np.random.seed(25)
c = 36*np.random.randn(6)
c
array([ 8.22, 36.97, -30.23, -21.28, -34.45, -8. ])
```

Performing arthimetic on arrays

```
a*10
    array([10, 20, 30, 40, 50, 60])

C + a
    array([ 9.22, 38.97, -27.23, -17.28, -29.45, -2. ])

C-a
    array([ 7.22, 34.97, -33.23, -25.28, -39.45, -14. ])

C*a
    array([ 8.22, 73.94, -90.68, -85.13, -172.24, -48.02])

C/a
    array([ 8.22, 18.48, -10.08, -5.32, -6.89, -1.33])
```

Multiplying matrices and basic linear algebra

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