```
Chapter 5 - Basic Math and Statistics

Segement 2 - Multiplying Matrices and Basic Linear Algebra
```

In [1]:
```
import numpy as np
from numpy.random import randn
```

In [3]:
```
np.set_printoptions(precision=2)
```

```
Multiplying matrices and basic linear algebra
```

In [5]:
```
aa = np.array([[2.,4.,6.],[1.,3.,5.],[10.,20.,30.]])
aa
```

Out[5]:
```
array([[ 2.,  4.,  6.],
       [ 1.,  3.,  5.],
       [10., 20., 30.]])
```

In [9]:
```
bb = np.array([[0.,1.,2.],[3.,4.,5.],[6.,7.,8.]])
bb
```

Out[9]:
```
array([[0., 1., 2.],
       [3., 4., 5.],
       [6., 7., 8.]])
```

In [10]:
```
aa*bb
```

Out[10]:
```
array([[  0.,   4.,  12.],
       [  3.,  12.,  25.],
       [ 60., 140., 240.]])
```

In [11]:
```
np.dot(aa,bb)
```

Out[11]:
```
array([[ 48.,  60.,  72.],
       [ 39.,  48.,  57.],
       [240., 300., 360.]])
```