













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Code

## # broadcasting

In [1]:

```
import numpy as np
```

In [2]:

```
##Add a scalar to an array
a= np.array([1, 2, 3])
b = 2
c =a+ b
print(c)
```

```
[3 4 5]
```

In [3]:

```
##Add a row vector to a matrix
a= np.array([[1, 2, 3], [4, 5, 6]])
b = np.array([1, 2, 3])
c =a+ b
print(c)
```

```
[[2 4 6]
 [5 7 9]]
```

In [4]:

```
##Add a column vector to a matrix
a = np.array([[1, 2, 3], [4, 5, 6]])
b = np.array([[1], [2]])
c =a+ b
print(c)
```

```
[[2 3 4]
 [6 7 8]]
```

In [6]:

```
##Multiply an array by a scalar
a = np.array([[1, 2], [3, 4]])
b = 2
c =a*b
print(c)
```

```
[[2 4]
 [6 8]]
```