

ACCESSING/CHANGING SPECIFIC ELEMENTS,ROWS,COLUMNS,ETC

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In [1]: import numpy as np
```

```
In [3]: a=np.array([[1,2,3,4,5,6,7],[8,9,10,11,12,13,14]])
print(a)

[[ 1  2  3  4  5  6  7]
 [ 8  9 10 11 12 13 14]]
```

```
In [4]: #get a specific element (r,c)
print(a[0,0])

1
```

```
In [5]: #get a specific row
print(a[0,:])

[1 2 3 4 5 6 7]
```

```
In [6]: #get a specific column
print(a[:,2])

[ 3 10]
```

```
In [8]: #startindex:endindex:stepsize
print(a[0,1:5:2])

[2 4]
```

```
In [11]: #changing values
a[0,0]=23
print(a)
a[0,:]=10
print(a)

[[23  2  3  4  5  6  7]
 [ 8  9 10 11 12 13 14]]
[[10 10 10 10 10 10 10]
 [ 8  9 10 11 12 13 14]]
```

```
In [18]: #3d array
x=np.array([[[1,2],[3,4]],[[5,6],[7,8]]])
print(x)

[[[1 2]
  [3 4]]

 [[5 6]
  [7 8]]]
```

```
In [20]: print(x[0,1,1])

4
```

```
In [23]: x[0,:]=[[9,9],[8,8]]
```

```
In [24]: print(x)
```

```
[[[9 9]  
  [8 8]]
```

```
[[[5 6]  
  [7 8]]]
```

In []: