numpy

October 17, 2019

[3]:
```
import numpy as np
a=np.array([1,1,3,1])
a
mean_a=a.mean()
mean_a
```

[3]:
```
1.5
```

[6]:
```
np.pi
x=np.array([0,np.pi/2,np.pi])
x
```

[6]:
```
array([0.        , 1.57079633, 3.14159265])
```

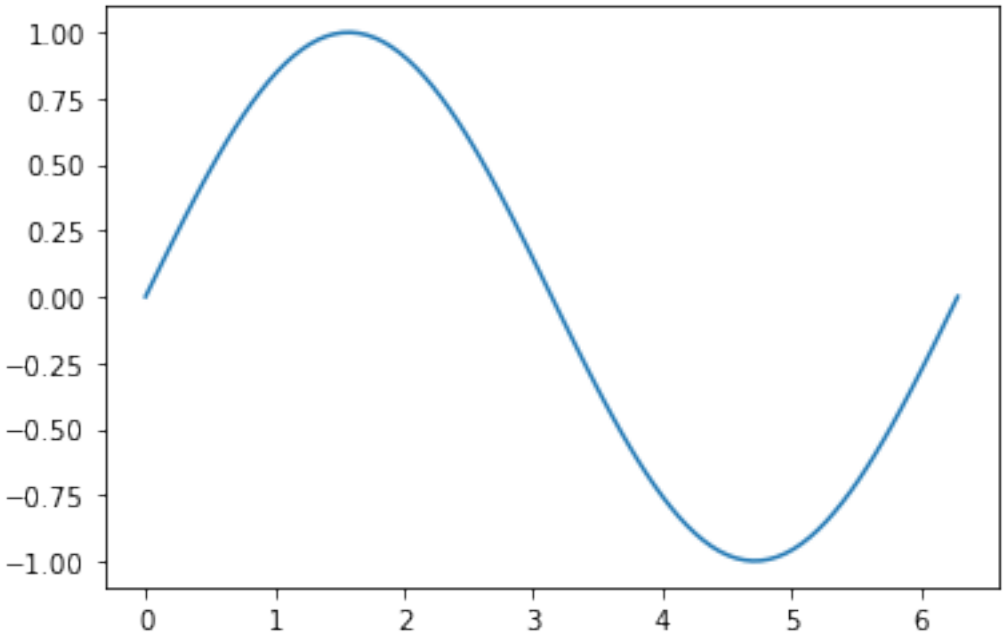
[7]:
```
y=np.sin(x)
y
```

[7]:
```
array([0.0000000e+00, 1.0000000e+00, 1.2246468e-16])
```

[8]:
```
import numpy as np
x=np.linspace(0,2*np.pi,100)
y=np.sin(x)
y

import matplotlib.pyplot as plt
%matplotlib inline
plt.plot(x,y)
```

[8]:
```
[<matplotlib.lines.Line2D at 0x7f1c3c1e8160>]
```



[10]:
```
import numpy as np
np.array([1,-1])*np.array([1,1])
np.dot(np.array([1,-1]),np.array([1,1]))
```

[10]: 0

[ ]: