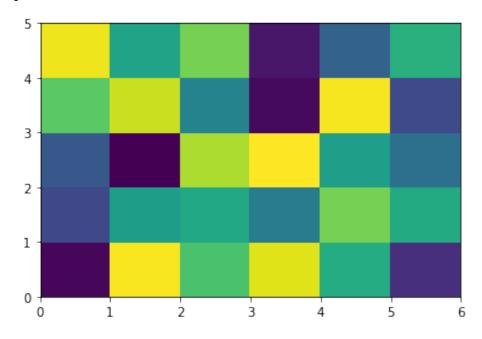
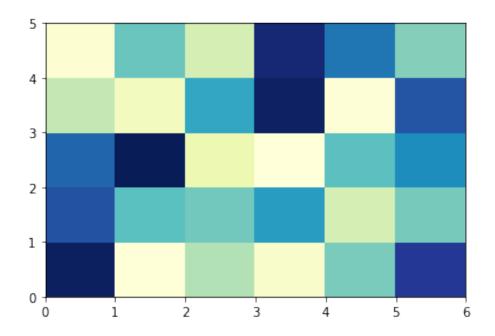
%matplotlib inline
import matplotlib.pyplot as plt
import numpy as np

data = np.random.rand(5,6)
plt.pcolor(data)

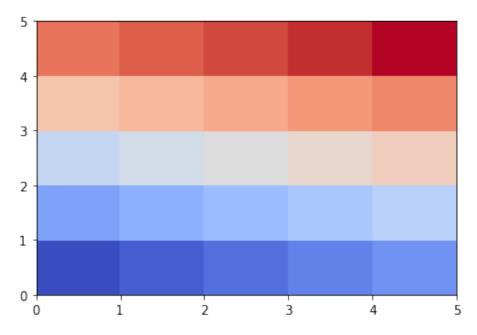
plt.show()



plt.pcolor(data, cmap ='YlGnBu_r')
plt.show()

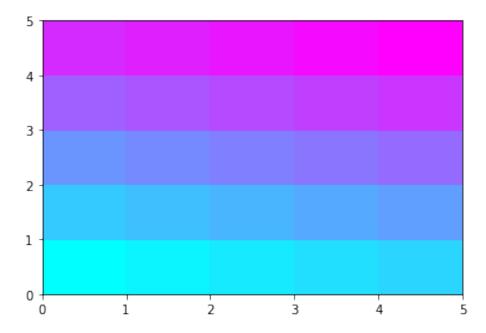


```
nrows = ncols = 5
x = np.arange(ncols + 1)
y = np.arange(nrows + 1)
z = np.arange(nrows*ncols).reshape(nrows, ncols)
plt.pcolormesh(x,y,z, shading = 'flat', cmap = 'coolwarm')
plt.show()
```



plt.pcolormesh(x, y, z, shading = 'auto', cmap = 'cool')

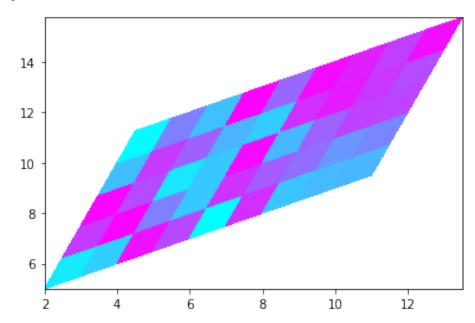
plt.show()



z = np.random.rand(6,10)

```
x = np.arange(0,10,1)
y = np.arange(4,10,1)
T = 0.5
X, Y = np.meshgrid(x,y)
X = X + T*Y
Y = Y + T*X
```

plt.pcolormesh(X, Y, z, shading = 'auto', cmap = 'cool')#plt.pcolormesh(X, Y, Z, shading =
plt.show()

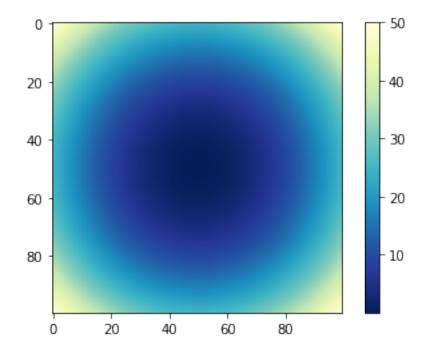


Z = (X**2 + Y**2)

img = plt.imshow(Z, cmap = 'YlGnBu_r')

plt.colorbar(img)

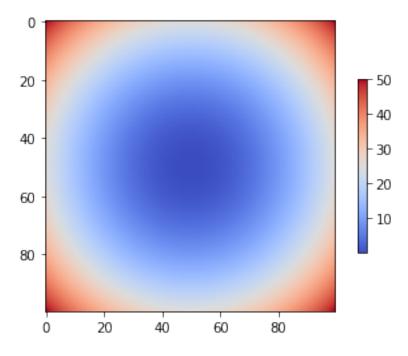
plt.show()



img = plt.imshow(Z, cmap = 'coolwarm')

plt.colorbar(img, shrink = 0.6)

plt.show()



img = plt.imshow(Z, cmap = 'coolwarm')
plt.colorbar(img,extend= 'both')
plt.show()

