

Exercice 3.20.3 - Solution :

```
import matplotlib.pyplot as plt  
import numpy as np
```

```
Mat = np.array( [ 0 for i in range (300) ] )  
Mat = Mat.reshape(10,10,3)
```

Méthode-1

```
for i in range (10):  
    for j in range (10):  
        Mat[i,j,0]=rd.randint(0,255)  
        Mat[i,j,1]=rd.randint(0,255)  
        Mat[i,j,2]=rd.randint(0,255)  
  
plt.imshow( Mat )    # Affichage de la matrice  
plt.show()
```

Exercice 3.20.3 - Solution :

Méthode-2

```
Mat = np.array( [ rd.randint(0,255) for i in range (300) ] )  
Mat = Mat.reshape(10,10,3)
```

```
plt.imshow( Mat )    # Affichage de la matrice  
plt.show()
```

Méthode-3

```
for i in range (10):  
    for j in range (10):  
        Mat[i,:,i%3]=rd.randint(0,255)
```

```
plt.imshow( Mat )    # Affichage de la matrice  
plt.show()
```