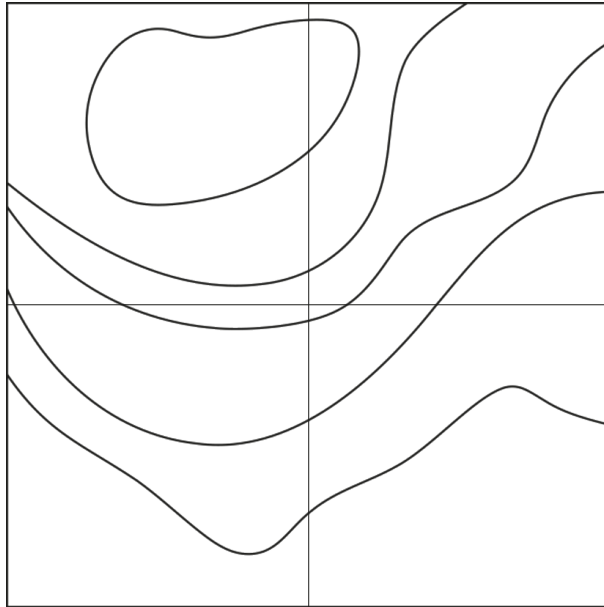


DES MATRICES EN COULEURS

Activité 1

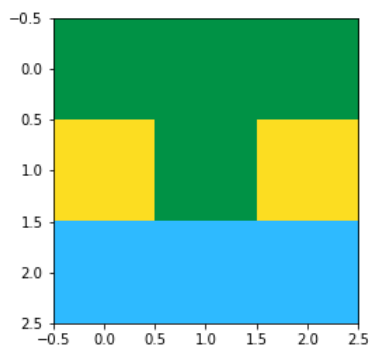
Représentation d'un relevé cartographique



Programmation Python

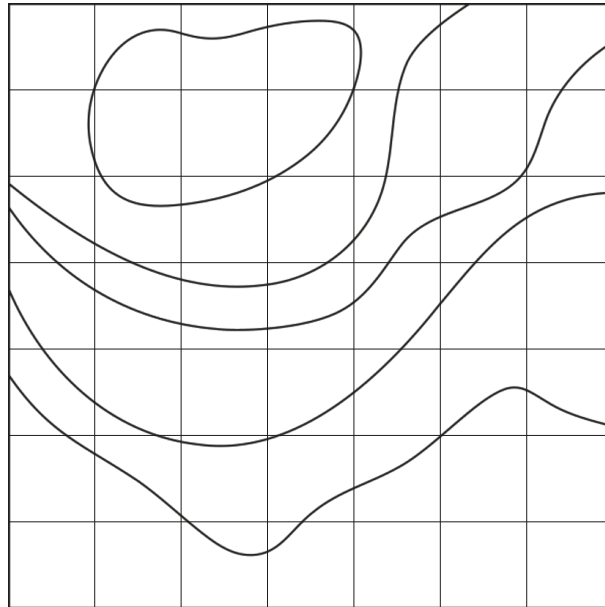
```
1 import matplotlib.pyplot as plt
2
3 Z = [[4, 4, 3], [1, 3, 1], [0, 0, 0]]
4
5 my_colors = plt.cm.colors.ListedColormap(['#2ebaff', '#fcdd21', '#8cc63f', '#009245'])
6 plt.imshow(Z, cmap=my_colors, interpolation='nearest')
7 plt.savefig('complex_activity_1.png')
8 plt.show()
```

Visualisation du relief selon relevés réalisés (Matrice 3 × 3)



Activité 2

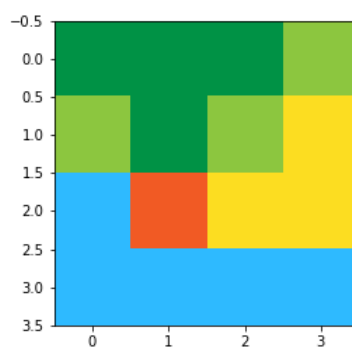
Représentation d'un relevé cartographique



Programmation Python

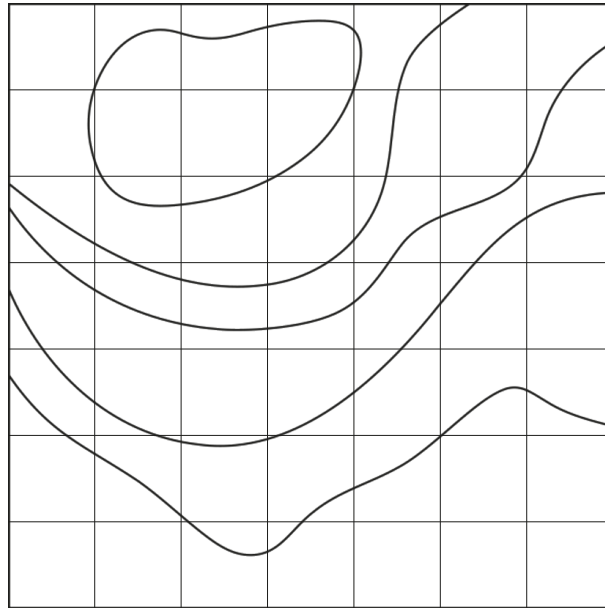
```
1 import matplotlib.pyplot as plt
2
3 Z = [[4, 4, 4, 3], [3, 4, 3, 1], [0, 2, 1, 1], [0, 0, 0, 0]]
4
5 my_colors = plt.cm.colors.ListedColormap(['#2ebaff', '#fcdd21', '#f15a24', '#8cc63f', '#009245'])
6 plt.imshow(Z, cmap=my_colors, interpolation='nearest')
7 plt.savefig('complex_activity_2.png')
8 plt.show()
```

Visualisation du relief selon relevés réalisés (Matrice 4×4)



Activité 3

Représentation d'un relevé cartographique



Programmation Python

```
1 import matplotlib.pyplot as plt
2
3 Z = [[4, 4, 4, 4, 4, 4, 3, 3], [4, 5, 5, 5, 5, 3, 3, 2], \
4      [4, 4, 5, 5, 4, 3, 2, 2], [2, 3, 4, 4, 3, 2, 1, 1], \
5      [1, 2, 2, 2, 2, 1, 1, 1], [0, 1, 2, 2, 1, 1, 0, 0], \
6      [0, 0, 0, 1, 0, 0, 0, 0], [0, 0, 0, 0, 0, 0, 0, 0]]
7 colors = ['#2ebaff', '#fcd221', '#f15a24', '#8cc63f', '#009245', '#9e005d']
8 my_color_map = plt.cm.colors.ListedColormap(colors)
9 plt.imshow(Z, cmap=my_color_map, interpolation='nearest')
10 plt.savefig('complex_activity_3.png')
11 plt.show()
```

Visualisation du relief selon relevés réalisés (Matrice 8 × 8)

