~/Documents/Saint Louis/TIPE/TIPE2/Image-Converter-2D.py

```
1 import time, pygame, sys, os
   pygame.init
 3 width, height = 600, 600
   centerCoords = 300, 300
   backgroundColor = 255, 255, 255
   pygame.display.set caption("Road")
   pausetime = 0.5
 8
   carHeight = 20
10
11 colorCar1 = 255, 0, 0
12 colorCar2 = 0, 255, 0
   colorCar3 = 0, 0, 255
14
15 #fake Variables
16 printColor = 0, 0, 0
17 centerEmpty = backgroundColor
   centerRight = colorCar1
19 centerDown = colorCar2
20 Right = colorCar1
   Down = colorCar2
22
   carColors = [backgroundColor, printColor, printColor, printColor, centerEmpty, centerRight, centerDown, Right, Down]
24
25
   screen = pygame.display.set mode((width, height))
26
   dir = sys.argv[1]
28
   dirList = []
   for filename in os.listdir(dir) :
30
       dirList.append(filename)
31
32
33
   dirList = sorted(dirList)
34
35
   for filename in dirList :
36
       f = open(str(dir + '/' + filename), "r")
```

```
37
       tabright = []
38
       text = f.readline()
39
       while text != "3\n":
40
           tabright.append(int(text))
41
           text = f.readline()
       text = f.readline()
42
43
       tabdown = []
       while text != "end\n":
44
45
           tabdown.append(int(text))
46
           text = f.readline()
47
       tabdown.pop()
48
       f.close()
49
       #print(tabright)
50
       #print(tabdown)
51
       roadQuant = len(tabright)
52
       wingSize = (roadQuant-1)//2
53
       screen.fill(backgroundColor)
54
       x = centerCoords[0] - carHeight*wingSize
55
       startingY = centerCoords[1]
56
       for car in tabright:
57
           for y in range(carHeight):
58
                for z in range(carHeight):
59
                    screen.set at((x+z, y+startingY), carColors[car])
60
61
           x+=carHeight
62
       x = centerCoords[0]
63
       startingY = centerCoords[1] - carHeight*wingSize
64
       #print(y)
       for car in tabdown:
65
           #print(carColors[car])
66
67
           for yFill in range(carHeight):
68
               for z in range(carHeight):
69
                    screen.set at((x+z, yFill+startingY), carColors[car])
70
            startingY+=carHeight
71
       pygame.display.flip()
72
       time.sleep(pausetime)
73
```