



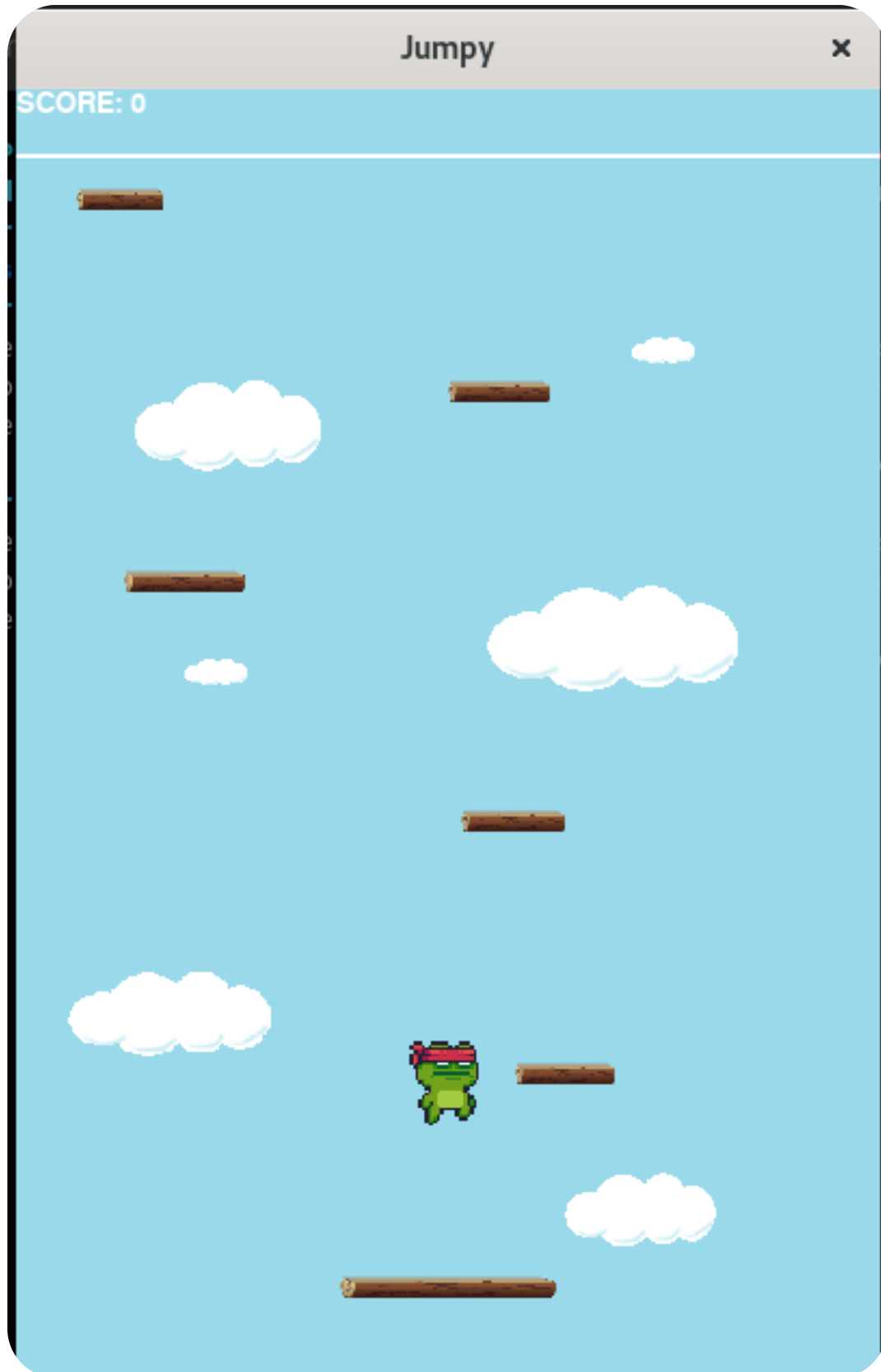
BO - HUB

B-INN-000

Spring Camp 2024

Python robot programming - Introduction

VERTICAL PLATEFORMER





```

Frozen importlib._bootstrap>:241: RuntimeWarning: Your system is avx2 capable but pygame was not built with support for it. The performance
environment variables like PYGAME_DETECT_AVX2=1 if you are compiling without cross compilation.
pygame 2.5.2 (SDL 2.28.5, Python 3.11.8)
Hello from the pygame community. https://www.pygame.org/contribute.html
Traceback (most recent call last):
  File "/home/naarie/epitech/coding_club/pygames_plateformer_spring_camp/main.py", line 55, in <module>
    platform_image = pygame.image.load('assets/wood.png').convert_alpha()
                      ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  FileNotFounError: No file 'assets/wood.png' found in working directory '/home/naarie/epitech/coding_club/pygames_plateformer_spring_camp'

```

TROUVER POURQUOI LES CONTROLES SONT INVERSÉES.



{ EPITECH }.

```
class Player():
    def __init__(self, x, y):
        self.image = pygame.transform.scale(jumpy_image, (45, 45))
        self.width = 25
        self.height = 40
        self.rect = pygame.Rect(0, 0, self.width, self.height)
        self.rect.center = (x, y)
        self.vel_y = 0
        self.flip = False
```

1 usage

```
def move(self):
    #reset variables
    scroll = 0
    dx = 0
    dy = 0
    #process keypresses
    key = pygame.key.get_pressed()
    if key[pygame.K_LEFT]:
        dx = -9
        self.flip = True
    if key[pygame.K_RIGHT]:
        dx = 9
        self.flip = False
    #gravity
    self.vel_y += GRAVITY
    dy += self.vel_y
    #ensure player doesn't go off the edge of the screen
```

TROUVER POURQUOI LE FOND D'ÉCRAN DEVIEN NOIR ET

LES PROBLÈME D’AFFICHAGE AVEC LES PLATEFORMES.

Celui qui a fait la ‘class objet’ platform, a probablement fait une erreur dans les mouvement du ‘backgroud’.

```
class Platform(pygame.sprite.Sprite):
    def __init__(self, x, y, width, moving):
        pygame.sprite.Sprite.__init__(self)
        self.image = pygame.transform.scale(platform_image, (width, 10))
        self.moving = moving
        self.move_counter = random.randint(0, 50)
        self.direction = random.choice([-1, 1])
        self.speed = random.randint(1, 2)
        self.rect = self.image.get_rect()
        self.rect.x = x
        self.rect.y = y

4 usages (4 dynamic)
def update(self, scroll):
    #moving platform side to side if it is a moving platform
    if self.moving == True:
        self.move_counter += 1
        self.rect.x += self.direction * self.speed
    #change platform direction if it has moved fully or hit a wall
```