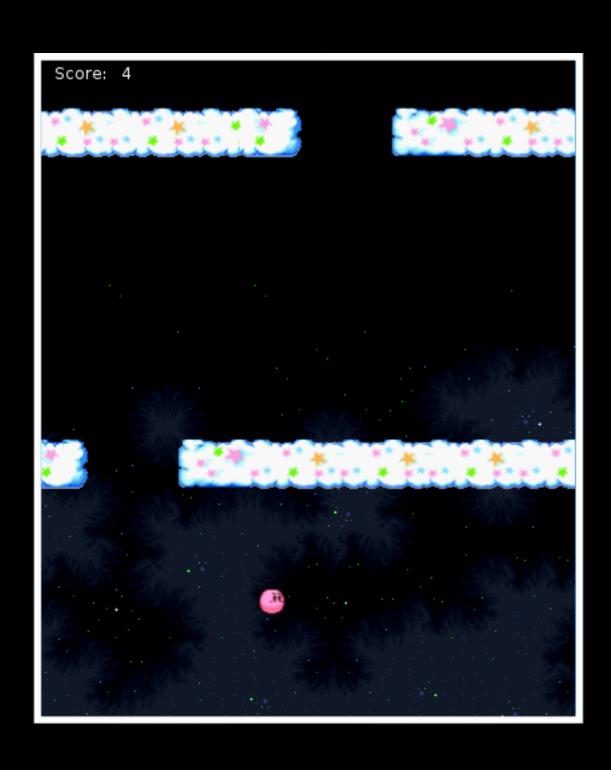


MiniProjeto II - Jogo em LÖVE/Lua

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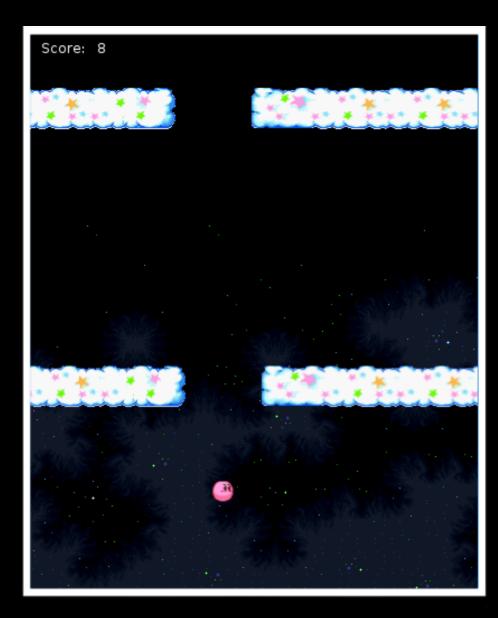
Objetivo



Funcionamento



Movimenta o Kirby



Funcionamento





```
function new_player(x, y)
 return {
   kirby = love.graphics.newImage("kirby.png"),
   posx = x,
   posy = y,
   kirby width = love.graphics.newImage("kirby.png"):getWidth(),
   kirby height = love.graphics.newImage("kirby.png"):getHeight(),
   score = 0,
   dtMult player = 400,
   draw = function (self)
            love.graphics.draw(self.kirby, self.posx, self.posy)
   end,
```

```
keyDown = function (self, dt)
     love.keyboard.isDown("down")
     self.posy = self.posy + self.dtMult player*dt
        self.posy >= HEIGHT - self.kirby height
       self.posy = HEIGHT - self.kirby height
     love.keyboard.isDown("up") then
     love.keyboard.isDown("right") then
     love.keyboard.isDown("left")
     self.posx = self.posx - self.dtMult player*dt
        self.posx <= 0</pre>
       self.posx = 0
```

```
function new_enemy(x, y, w, h)
 return {
  cloud = love.graphics.newImage("enemy.png"),
  spaceBetweenBlocks = WIDTH/6,
  dtMult enemy = 250,
  posx = x,
 posy = y,
 width = w_{i}
  height = love.graphics.newImage("enemy.png"):getHeight(),
  score flag = true,
   draw = function (self)
          love.graphics.draw(self.cloud, self.posx - WIDTH + self.width,
self.posy)
          love.graphics.draw(self.cloud, self.posx + self.width +
self.spaceBetweenBlocks, self.posy)
```

```
randomWidth = function (self)
   self.width = math.random(0,5*WIDTH/6)
update = function (self, dt)
   self.posy = self.posy + self.dtMult enemy*dt
     self.posy >= HEIGHT
    self:randomWidth()
    self.posy = 0 - self.height
    self.score flag = true
```

```
checkScoreOrCollision = function (self, player)
      --score
         self.posy - self.height >= player.posy - 2* player.kirby width
           self.score flag == true
          player.score = player.score + 1
         Walldt = Walldt + 0.001
          self.score flag = false
      --collision
             ( player.posy <= self.posy + self.height) and ( player.posx <=</pre>
self.posx + self.width or player.posx >= self.posx + self.width +
self.spaceBetweenBlocks - player.kirby width )
        screen = 1
```

```
function love.update(dt)

if screen == 0 then
   player:keyDown(dt)

for i =1, #enemy_array do
        enemy_array[i]:update(Walldt)
        enemy_array[i]:checkScoreOrCollision(player)
   end
end
end
```

```
function love.draw()
 love.graphics.draw(background, 0, 0)
     screen == 0 then
   player:draw()
    for i = 1, #enemy array
     enemy_array[i]:draw()
   love.graphics.print("Score: ", 10, 10)
   love.graphics.print(tostring(player.score), 60, 10)
        screen == 1
   love.graphics.print("Score: ", WIDTH/2 -40 , HEIGHT/2 - 100)
   love.graphics.print(tostring(player.score), WIDTH/2 + 10, HEIGHT/2 - 100)
   love.graphics.print("Press P to play again", WIDTH/2 - 75 , HEIGHT/2 + 100)
```

Principais Dificuldades

- Espaço entre as paredes só aparecia na metade esquerda da tela
- Implementação do coroutine.wrap()
 - Implementação de inimigos
- Implementação da destruição das paredes
- Implementação usando sprites interferindo com a colisão