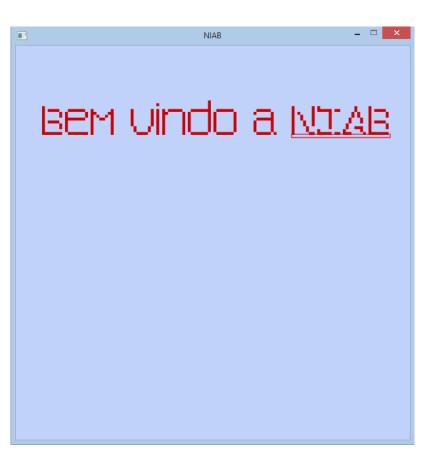
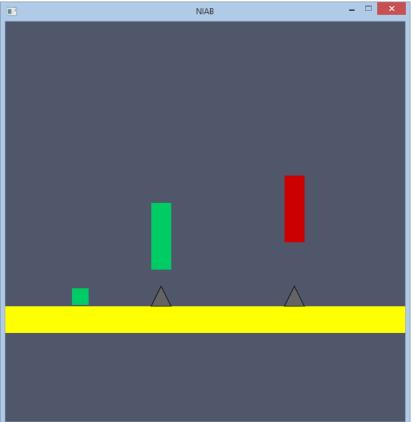


0 jogo

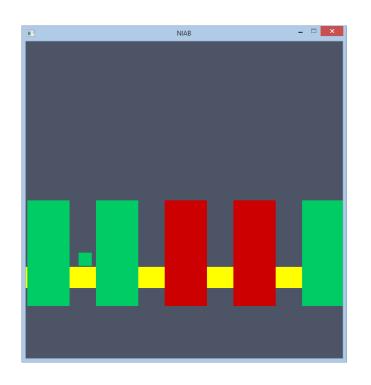


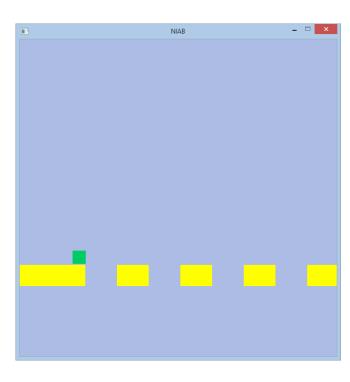


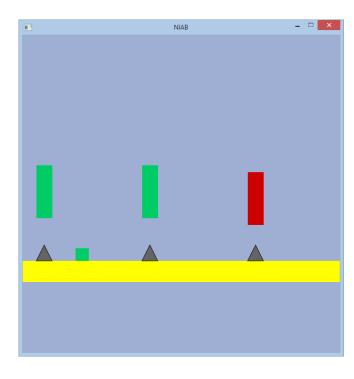


Jogabilidade

3 inimigos



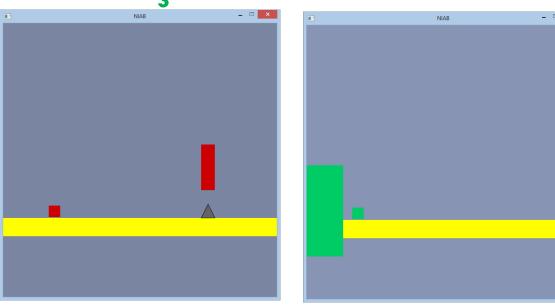




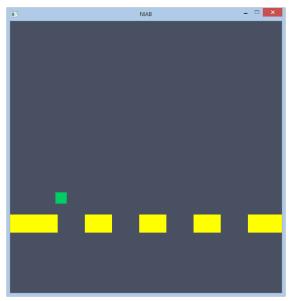
Jogabilidade

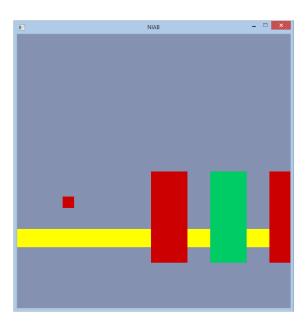
NodeMCU

Mudança de cor



Salto





Funcionalidade LUA/LOVE2d

```
function platform (x,y,w,h)
  local originalx, originaly, rx, ry, rw, rh = x, y, x, y, w, h
  return {
    draw =
        function ()
        love.graphics.setColor(255, 255, 0)
        love.graphics.rectangle("fill", rx, ry, rw, rh)
        end,
    update =
        function (dt)
    }
  end
```

```
\Box function enemy (enemy type, x, y)
    local rx, ry, ry2 = x, y, y
    local width = 0
    local ry t = \{0, 0, 0\}
    local dir = \{1, 1, 1\}
    return {
      draw =
        function (rand)
          if enemy type == 1 then
          if enemy type == 2 then
          if enemy type == 3 then
        end,
      update =
        function (dt)
          if enemy type == 1 then
          if enemy type == 2 then
          if enemy type == 3 then
        end
  end
```

Encapsulamento

```
function player (x,y,w,h)
   local rx, ry, rw, rh = x, y, w, h
   local jy = y
   return {
    draw =
      function ()
       if playerColour == 0 then
       love.graphics.rectangle("fill", rx, ry, rw, rh)
      end,
    update =
      function (dt)
        if gamestate == "preplaying" then
        if pula == true then
        if mudaCor == true then
      end,
    keypressed =
      function (key)
        if key == "left" then
        if key == "right" then
          pula = true
        end
      end
 end
```

Funcionalidade LUA/LOVE2d

Mqtt

```
m = mqtt.client.create("test.mosquitto.org", 1883, mqttcb)
m:connect("BernardoSnow")
m:subscribe({"jump"})
m:subscribe({"changeColour"})
```

```
function mqttcb (topic, message)
   print("Received from topic: " . . topic . . " - message:" . . message)
if message == "pula" then
   pula = true
   elseif message == "mudaCor" then
        mudaCor = true
   end
end
```

Funcionalidade

NodeMCU

Mqtt

```
m:connect("test.mosquitto.org", 1883, 0,

conectado,
function(client, reason) print("failed reason: "..reason) end)
```

Funcionalidade

NodeMCU

```
function Button_pressed2()
    local delay = 500000
    local last = 0
    return
    function (level, timestamp)
        local now = tmr.now()
        if now - last < delay then return end
            last = now
            gpio.write(led_r, gpio.HIGH)
            publica(m, "mudaCor", "changeColour")
    end
end
end
gpio.trig(sw2, "down", Button_pressed2())</pre>
```

Dificuldades

Tempo de resposta do Mqtt com love

Criar os inimigos + colisão