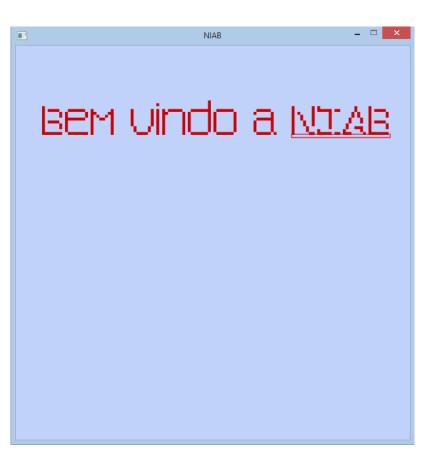
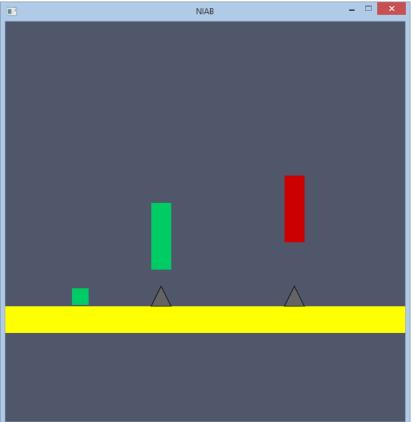


## 0 jogo

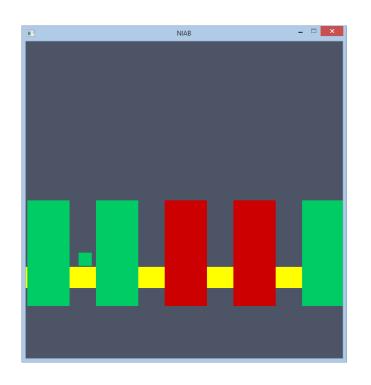


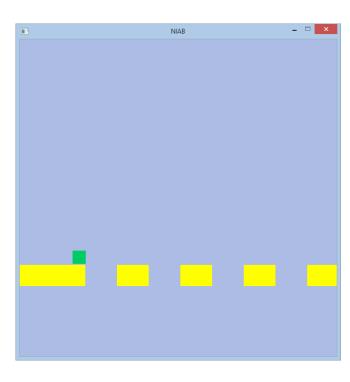


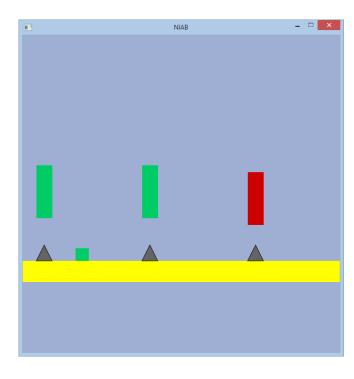


# Jogabilidade

### 3 inimigos



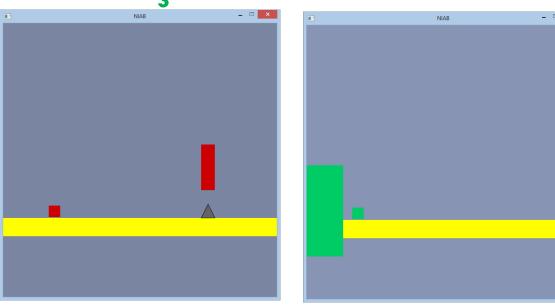




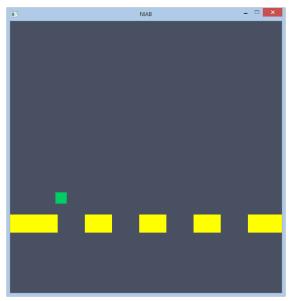
## Jogabilidade

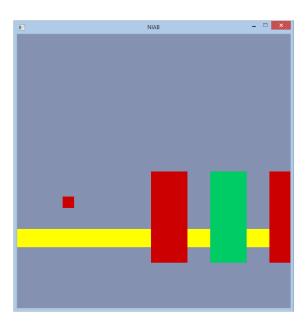
### **NodeMCU**

### 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)
```

```
local m = mqtt.Client("1511651", 120)

☐ function publica(c, Msg, subject)
   pub = c:publish(subject, Msg ,0,0,
             function(client, reason) print( Msg .. " enviada!") end)
 end
function conectado (c)
     c:publish("Sucesso", "NodeMCU Conectou.", 0, 0,
                   function(client, reason) print("Conexão estabelecida") end)
    c:subscribe("PedidoLove", 0, Love callback)
 end

☐ function Love callback(c)
     local function mensagemLove(userdata, topic, message)
             if(message == "inicio") then
                 ledstate = 1
                 led(ledstate)
     end
     c:on("message",mensagemLove)
```

### **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