# Desenvolvimento de Jogo 2D com FireMonkey

Montagem do Formulario

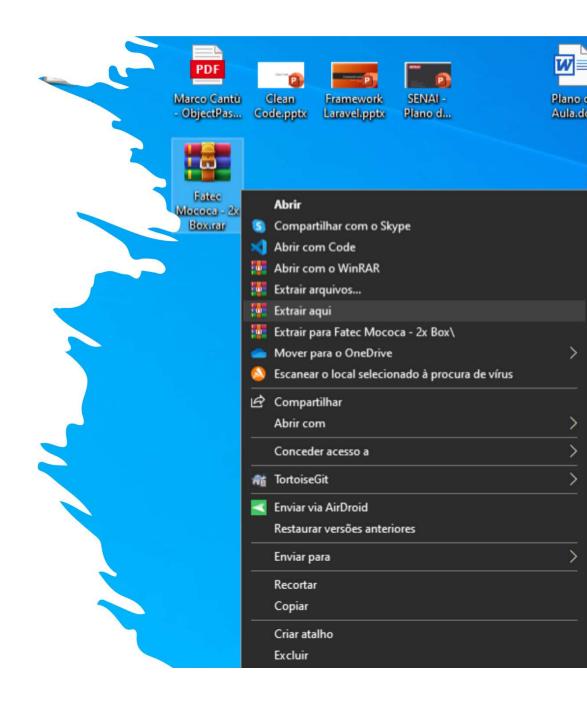
Professor: Maicon Pires

4ª Semana Tecnológica - 2023

Fatec Mococa

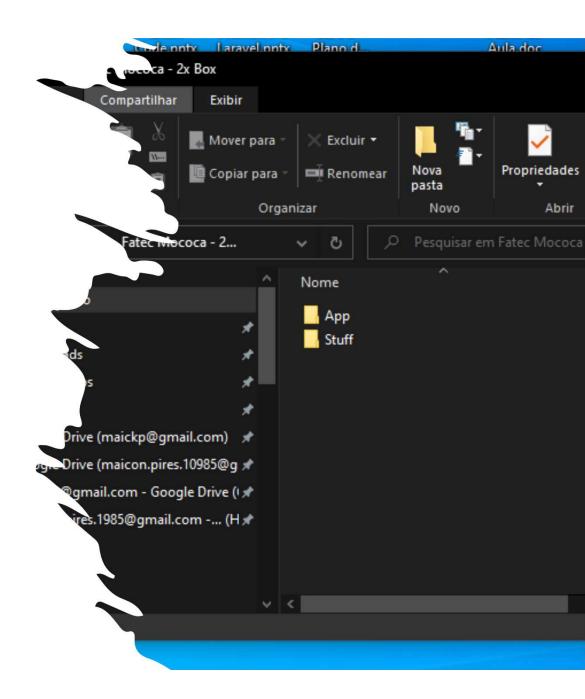
# Criação das pastas do projeto

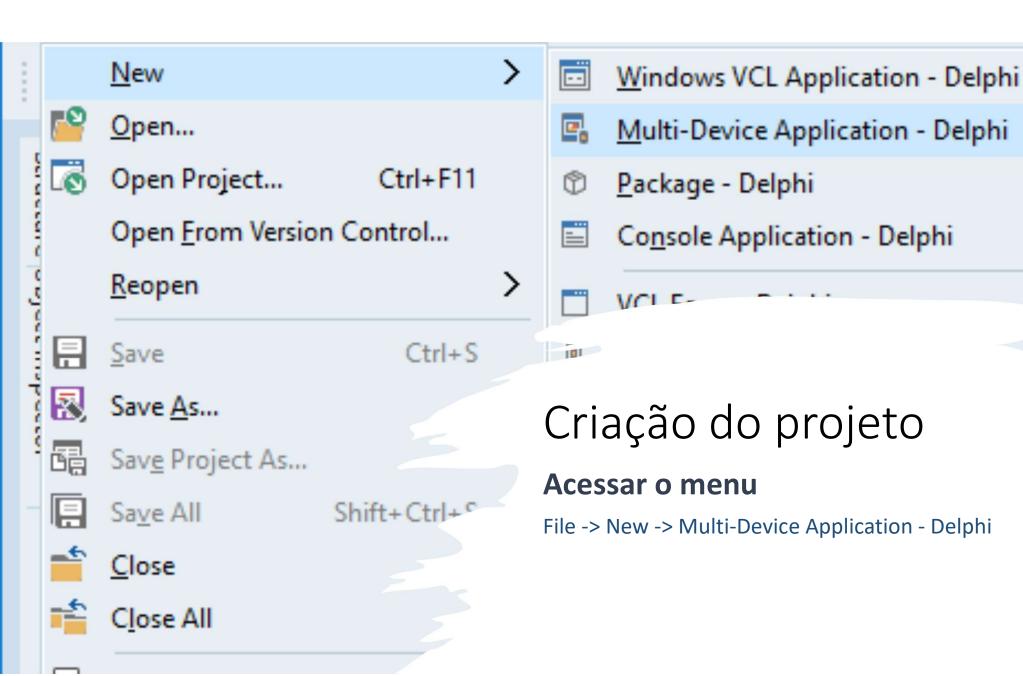
- Copie o arquivo compactado para Área de Trabalho
- Extraia o arquivo
- Confira as pastas



# Criação das pastas do projeto

- Copie o arquivo compactado para Área de Trabalho
- Extraia o arquivo
- Confira as pastas

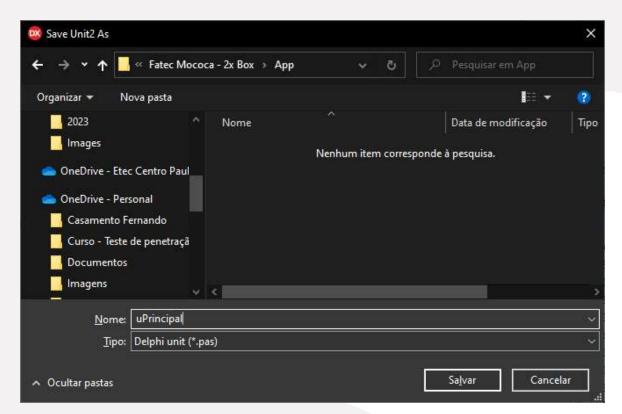




# Salvar Projeto

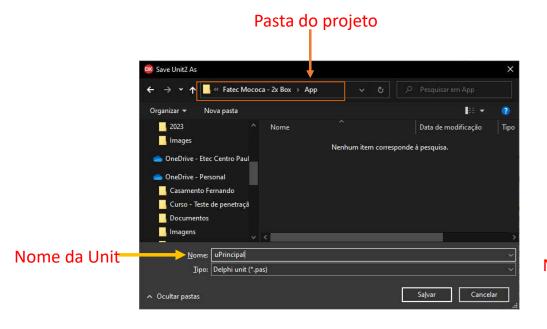
#### Acesse o menu

File -> Save All

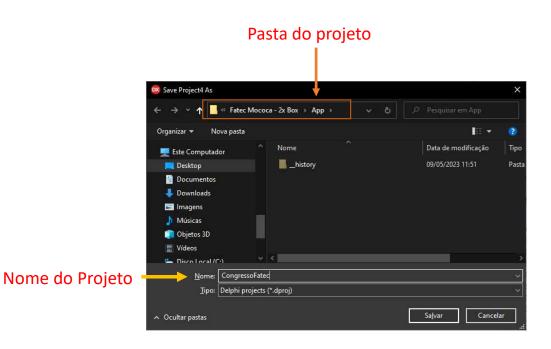


# Salvar Projeto

### UNIT: uPrincipal.pas

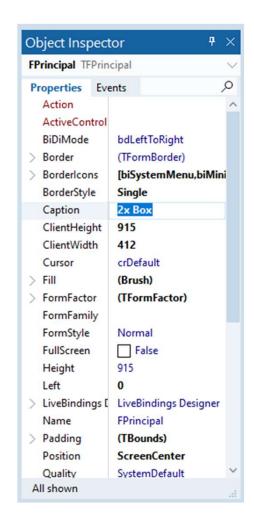


### Projeto: CongressoFatec.dproj



# Formatação do Formulário

- Formate a formulário conforme abaixo listado:
- FPrincipal: TFPrincipal
  - Caption = '2x Box'
  - BorderIcons = [biSystemMenu, biMinimize]
  - BorderStyle = Single
  - ClientHeight = 915
  - ClientWidth = 412
  - Position = ScreenCenter

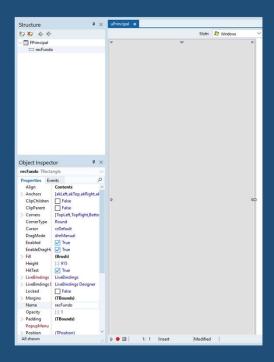


### Cor de fundo

• Adicione um TRectangle e configure conforme abaixo



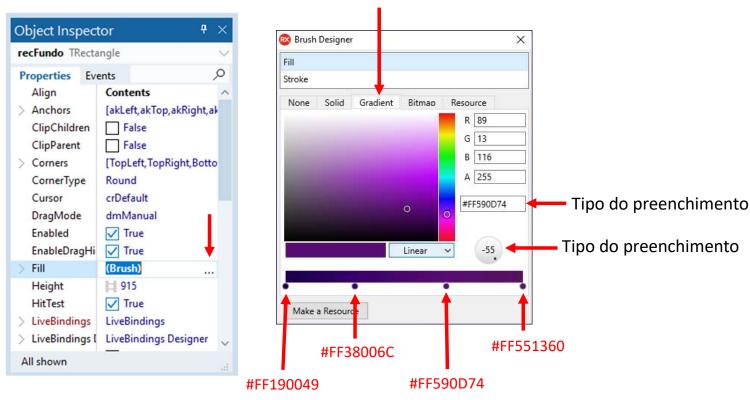
- Align = Contents
- Stroke.Kind = None

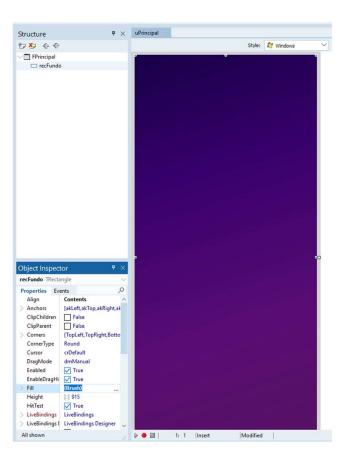


## Cor de Fundo

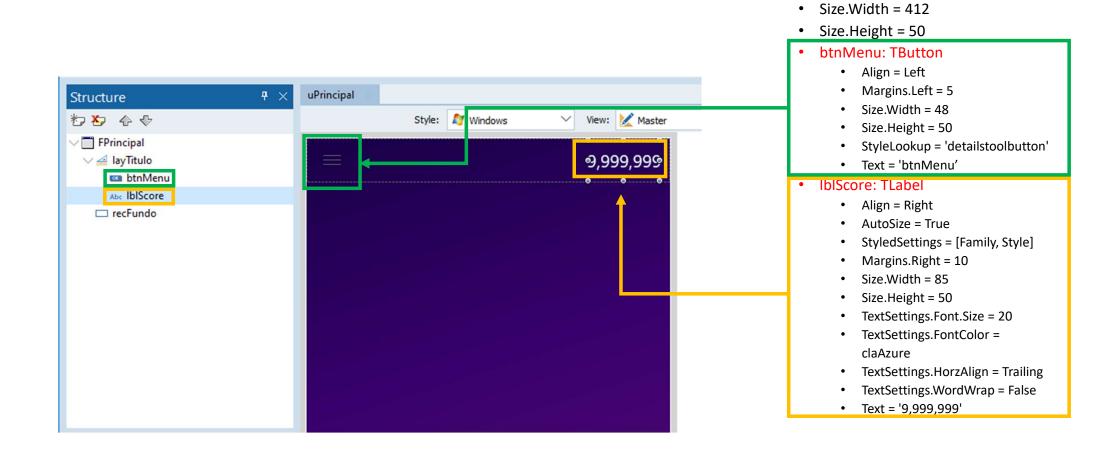
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Altere a propriedade Fill Tipo do preenchimento

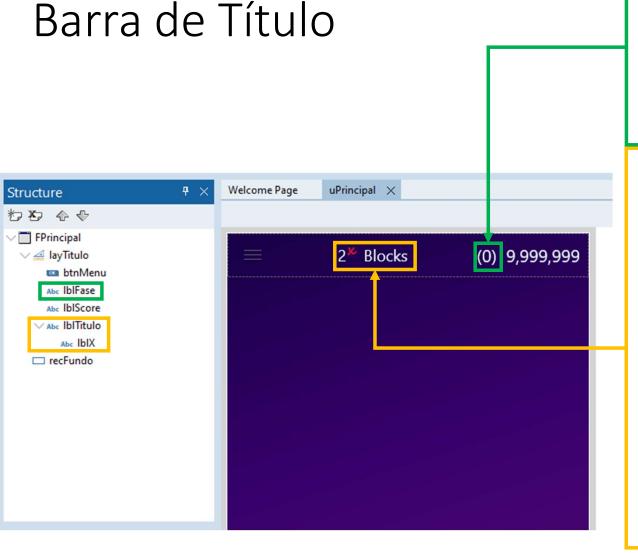




## Barra de Título



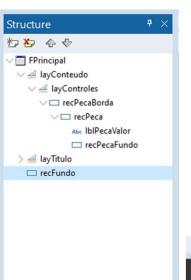
layTitulo: TLayoutAlign = Top

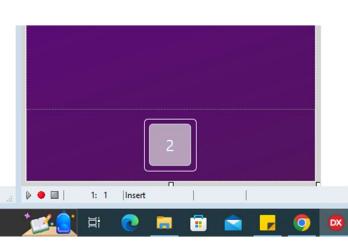


- IblFase: TLabel
  - Align = Right
  - AutoSize = True
  - Margins.Right = 10
  - TextSettings.Font.Size = 20
  - TextSettings.FontColor = claAzure
  - TextSettings.HorzAlign = Trailing
  - TextSettings.WordWrap = False
  - StyledSettings = [Family, Style]
  - Text = '(0)'
- IblTitulo: TLabel
  - Align = Center
  - StyledSettings = [Family, Style]
  - Locked = True
  - Size.Width = 85
  - Size.Height = 25
  - TextSettings.Font.Size = 18
  - TextSettings.FontColor = claAzure
  - Text = '2 Blocks'
  - lblX: TLabel
    - StyledSettings = []
    - Position.X = 10
    - Position.Y = -2
    - Size.Width = 13
    - Size.Height = 18
    - TextSettings.Font.Family = 'Segoe Script'
    - TextSettings.Font.Size = 16
    - TextSettings.Font.Style = Bold
    - TextSettings.FontColor = claCrimson
    - Text = 'x'

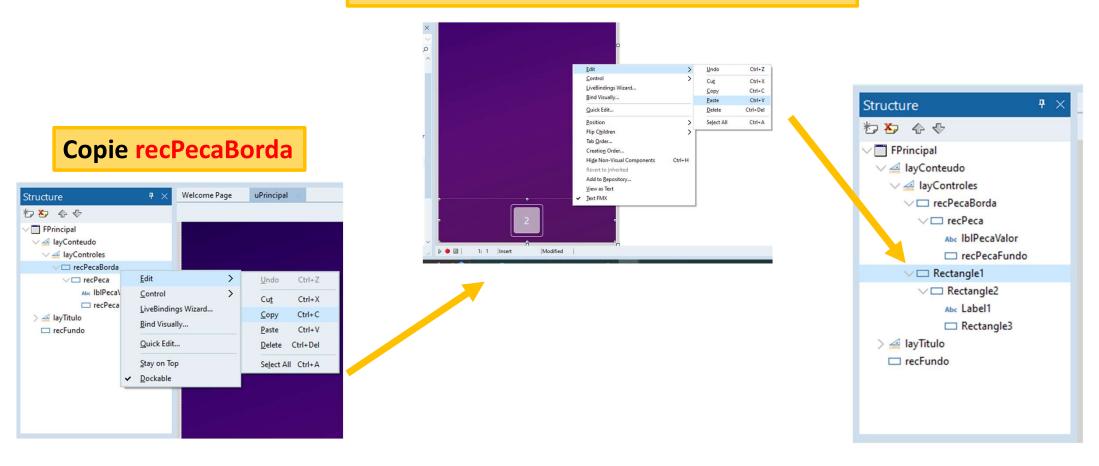
- layConteudo: TLayout
  - Align = Client
  - layControles: TLayout
    - Align = Bottom
    - Position.Y = 762
    - Size.Height = 103
    - recPecaBorda: TRectangle
      - Align = Center
      - Fill.Kind = None
      - Size.Width = 75
      - Size.Height = 75
      - Stroke.Color = claAliceblue
      - XRadius = 5
      - YRadius = 5
    - recPeca: TRectangle
      - Tag = 2
      - Align = Center
      - Fill.Kind = None
      - Size.Width = 60
      - Size.Height = 60
      - Stroke.Kind = None

- layConteudo: TLayout
  - Align = Client
  - layControles: TLayout
    - recPecaFundo: TRectangle
      - Align = Contents
      - HitTest = False
      - Opacity = 0.7
      - Size.Width = 60
      - Size.Height = 60
      - Stroke.Color = claAzure
      - XRadius = 5
      - YRadius = 5
    - lblPecaValor: TLabel
      - Align = Center
      - Size.Width = 50
      - Size.Height = 30
      - TextSettings.Font.Size = 22
      - TextSettings.FontColor = claAzure
      - TextSettings.HorzAlign = Center
      - StyledSettings = [Family, Style]
      - Text = '2'

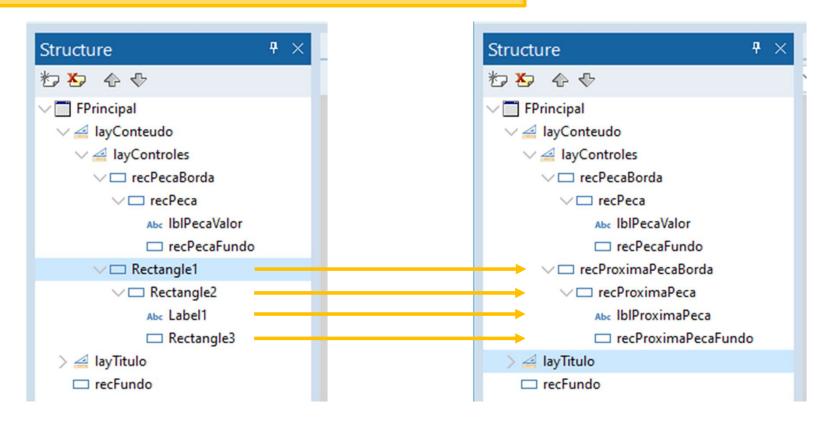




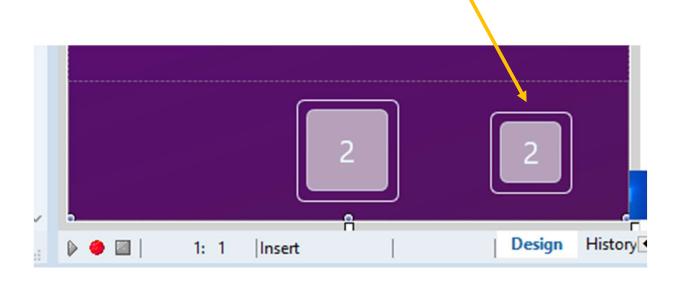
### Cole recPecaBorda dentro de layControles



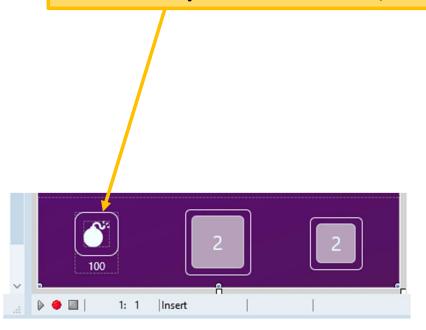
Altere os nomes dos componentes conforme abaixo



Altere os tamanhos e posições de recProximaPecaBorda e recProximaPeca, conforme imagem abaixo.

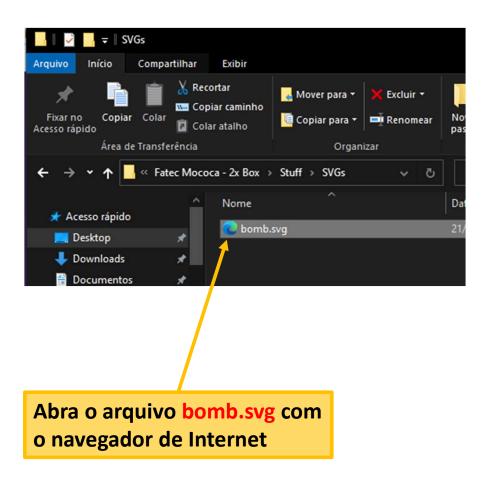




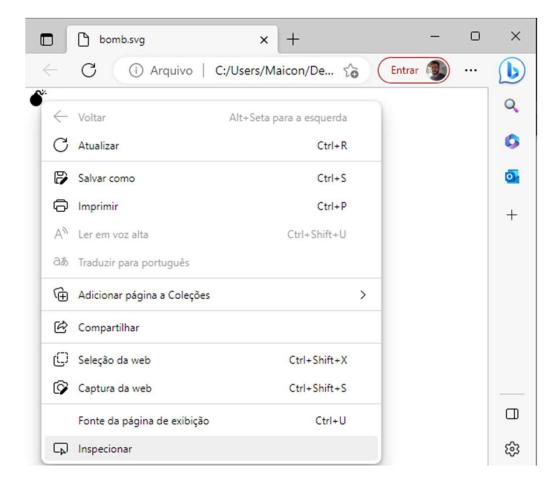


- layBomba: TLayout
  - HitTest = True
  - Position.X = 42
  - Position.Y = 17
  - Size.Width = 50
  - Size.Height = 70
  - recBomba: TRectangle
    - Align = Top
    - Fill.Kind = None
    - HitTest = False
    - Size.Width = 50
    - Size.Height = 50
    - Size.PlatformDefault = False
    - Stroke.Color = claAzure
    - XRadius = 10
    - YRadius = 10

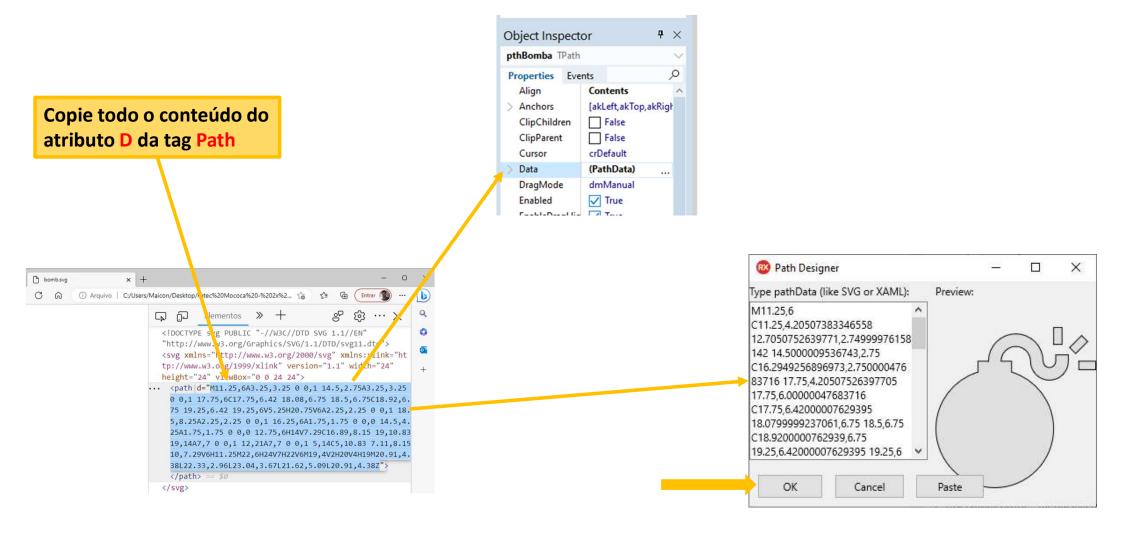
- layBomba: TLayout
  - recBomba: TRectangle
    - pthBomba: Tpath
      - Align = Contents
      - Fill.Color = claAzure
      - HitTest = False
      - Margins.Left = 10
      - Margins.Top = 10
      - Margins.Right = 10
      - Margins.Bottom = 10
      - Size.Width = 30
      - Size.Height = 30
      - Stroke.Kind = None
    - IblBomba: TLabel
      - Align = Bottom
      - StyledSettings = [Family, Size, Style]
      - Position.Y = 53
      - Size.Width = 50
      - Size.Height = 17
      - TextSettings.FontColor = claAzure
      - TextSettings.HorzAlign = Center
      - Text = '100'



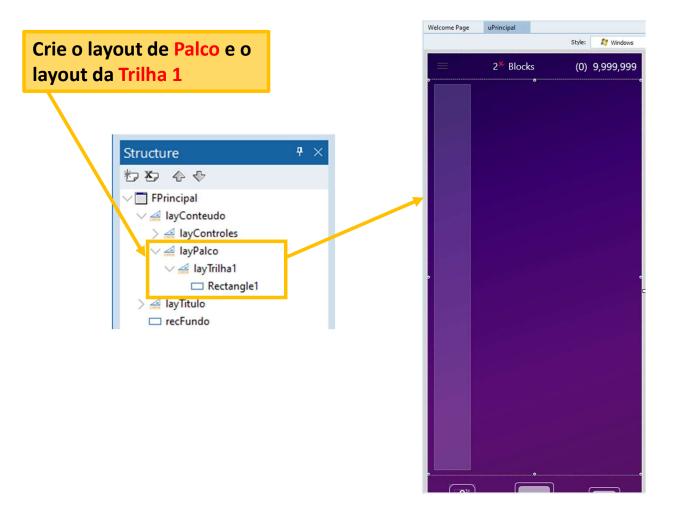
#### **Inspecione a imagem**



Cole o conteúdo na propriedade Data do TPath



## Palco e Trilhas



#### layPalco: TLayout

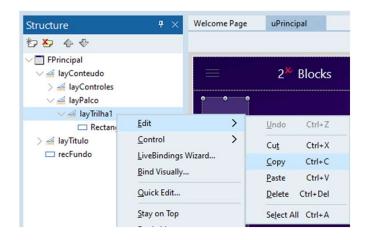
- Align = Client
- Padding.Left = 10
- Padding.Top = 10
- Padding.Right = 10
- Padding.Bottom = 10
- layTrilha1: TLayout
  - Align = Scale
  - HitTest = True
  - Margins.Left = 4
  - Margins.Right = 4
  - Position.X = 13
  - Position.Y = 10
  - Size.Width = 70
  - Size.Height = 742
  - Tag = 1

#### Rectangle1: TRectangle

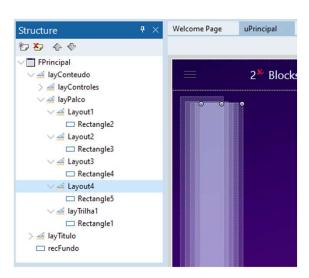
- Align = Contents
- Fill.Color = xFFD6E0FF
- HitTest = False
- Opacity = 0.2
- Size.Width = 70
- Size.Height = 742
- Stroke.Kind = None

#### Palco e Trilhas

• Copie a Trilha 1 e cole 4 vezes para criar as demais trilhas

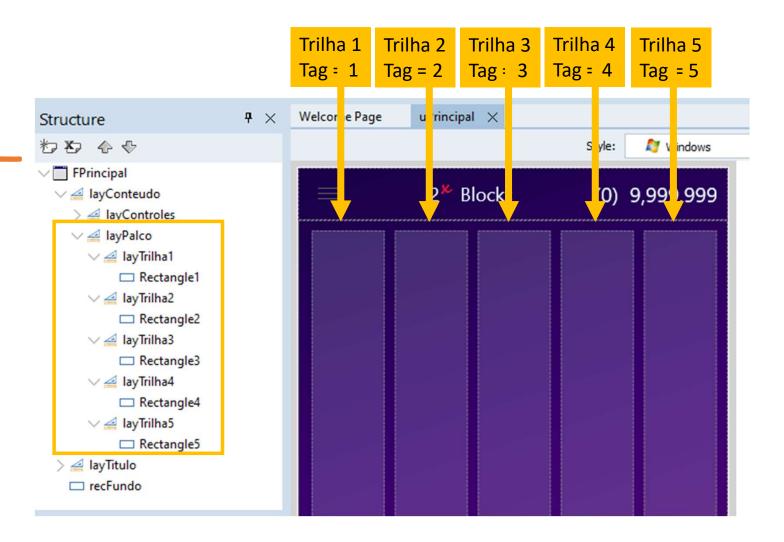




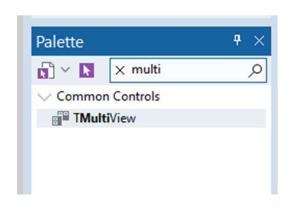


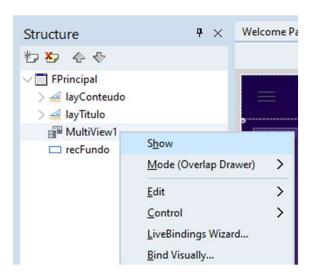
# Palco e Trilhas

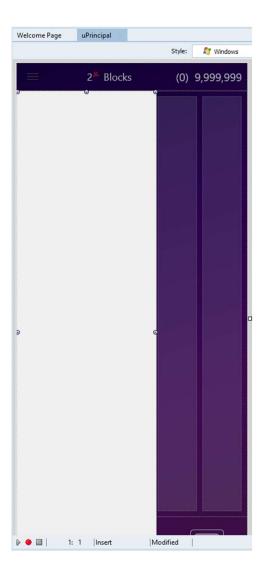
 Altere os nomes e posições das trilhas conforme ao lado



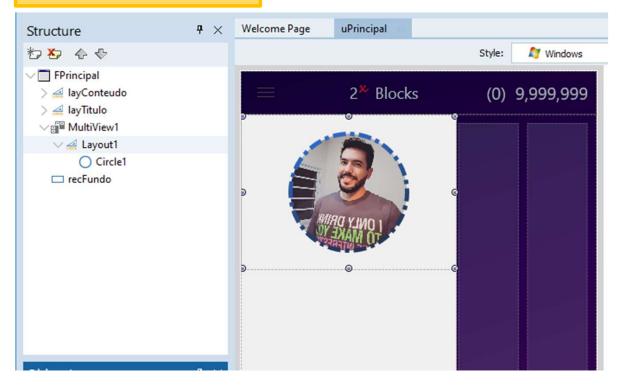
Adicione um Multiview ao formulário







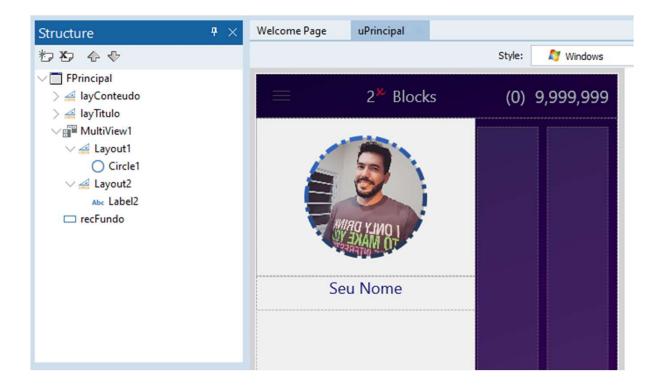
Adicione um layout, um circle e carregue sua foto de perfil



#### MultiView1: TMultiView

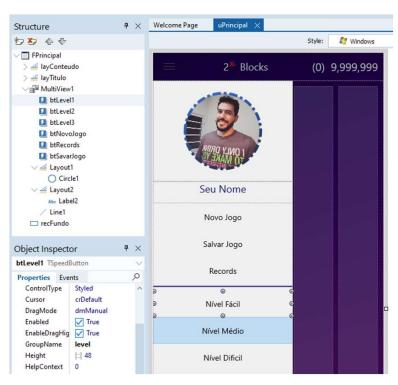
- Mode = Drawer
- Size.Width = 250
- Size.Height = 865
- MasterButton = btnMenu
- Layout1: TLayout
  - Align = Top
  - Size.Width = 250
  - Size.Height = 180
  - Circle1: TCircle
    - Align = Center
    - Fill.Bitmap.WrapMode = TileStretch
    - Fill.Kind = Bitmap
    - Size.Width = 154
    - Size.Height = 140
    - Stroke.Kind = Gradient
    - Stroke.Thickness = 5
    - Stroke.Dash = DashDot

Adicione um layout, um label com seu nome



- Layout2: TLayout
  - Align = Top
  - Size.Width = 250
  - Size.Height = 39
  - Label2: TLabel
    - Align = Top
    - StyledSettings = [Family, Style]
    - Size.Width = 250
    - Size.Height = 25
    - TextSettings.Font.Size = 18
    - TextSettings.FontColor = claMidnightblue
    - TextSettings.HorzAlign = Center
    - Text = 'Seu Nome'

Adicione os botões Novo Jogo, Salvar Jogo, Records, Nível Fácil, Nível Médio, Nível Difícil



#### btNovoJogo: TSpeedButton

- Align = Top
- StyledSettings = [Family, Style, FontColor]
- Size.Height = 48
- Text = 'Novo Jogo'
- TextSettings.Font.Size = 14

#### btSavarJogo: TSpeedButton

- Align = Top
- StyledSettings = [Family, Style, FontColor]
- Size.Height = 48
- Text = 'Salvar Jogo'
- TextSettings.Font.Size = 14

#### btRecords: TSpeedButton

- Align = Top
- StyledSettings = [Family, Style, FontColor]
- Size.Height = 48
- Text = 'Records'
- TextSettings.Font.Size = 14

#### Line1: TLine

- Align = Top
- LineType = Top
- Margins.Top = 4
- Size.Height = 7
- Stroke.Color = claMidnightblue
- Stroke.Thickness = 2

#### btLevel1: TSpeedButton

- StaysPressed = True
- Align = Top
- GroupName = 'level'
- StyledSettings = [Family, Style, FontColor]
- Size.Height = 48
- Text = 'Nível Fácil'
- TextSettings.Font.Size = 14

#### btLevel2: TSpeedButton

- StaysPressed = True
- Align = Top
- GroupName = 'level'
- StyledSettings = [Family, Style, FontColor]
- IsPressed = True
- Size.Height = 48
- Text = 'Nível Médio'
- TextSettings.Font.Size = 14

#### btLevel3: TSpeedButton

- StaysPressed = True
- Align = Top
- GroupName = 'level'
- StyledSettings = [Family, Style, FontColor]
- Size.Height = 48
- Text = 'Nível Difícil'
- TextSettings.Font.Size = 14

Adicione os labels e trackbar Novo Jogo, Salvar Jogo, Records, Nível Fácil, Nível Médio, Nível Difícil



- Line2: TLine
  - Align = Top
  - LineType = Top
  - Margins.Top = 4
  - Size.Height = 7
  - Stroke.Color = claMidnightblue
  - Stroke.Thickness = 2
- Label1: TLabel
  - Align = Top
  - Size.Height = 23
  - TextSettings.HorzAlign = Center
  - Text = 'Velocidade do Jogo'
- tkbDuracaoAnime: TTrackBar
  - Align = Top
  - Max = 3
  - Min = 0.2
  - Orientation = Horizontal
  - Size.Height = 32
  - Value = 1
- IblDuracaoAnime: TLabel
  - Align = Top
  - Size.Height = 23
  - TextSettings.HorzAlign = Center
  - Text = '1,00 S'