

新規プロジェクト Jigsaw

できあがりのフォーム

Form1



コントロール



プロパティ

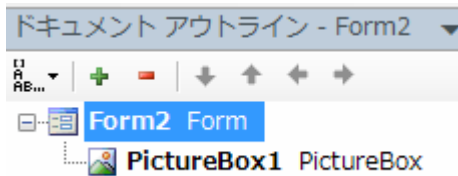
Label110 から **Label330** まで
AutoSize **False**
BorderStyle **Fixed3D**
Size **100, 100**

Label11 から **Label33** まで
AutoSize **False**
BorderStyle **None**
Size **100, 100**

Form2



コントロール

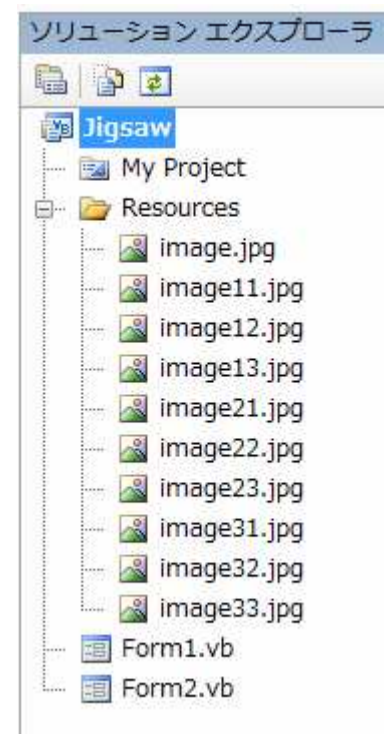


プロパティ

PictureBox1.SizeMode **Zoom**

イメージの追加

ソリューションエクスプローラの My Project をダブルクリックする
リソース → リソースの追加 → 既存のファイルの追加 をえらぶ
ダウンロードしたファイルを選ぶ
ソリューションエクスプローラに Resources フォルダが作られる



ソースリスト

```
Public Class Form1

    Dim DownP As Size
    Dim photo(4, 4) As Image
    Dim ans(10, 10) As Integer

    Private Sub Labels_MouseDown(ByVal ... ) Handles Label11.MouseDown, Label12.MouseDown,
Label13.MouseDown, Label21.MouseDown, Label22.MouseDown, Label23.MouseDown, Label31.MouseDown,
Label32.MouseDown, Label33.MouseDown

        If e.Button = System.Windows.Forms.MouseButtons.Left Then
            DownP = New Size(e.X, e.Y)
        End If

    End Sub

    Private Sub Labels_MouseMove(ByVal ... ) Handles Label11.MouseMove, Label12.MouseMove,
Label13.MouseMove, Label21.MouseMove, Label22.MouseMove, Label23.MouseMove, Label31.MouseMove,
Label32.MouseMove, Label33.MouseMove

        If e.Button = System.Windows.Forms.MouseButtons.Left Then
            sender.Location =
Point.op_Subtraction(Me.PointToClient(System.Windows.Forms.Cursor.Position), DownP)
        End If

    End Sub

    Private Sub Labels_MouseUp(ByVal ... ) Handles Label11.MouseUp, Label12.MouseUp, Label13.MouseUp,
Label21.MouseUp, Label22.MouseUp, Label23.MouseUp, Label31.MouseUp, Label32.MouseUp, Label33.MouseUp

        If e.Button = System.Windows.Forms.MouseButtons.Left Then
            Dim i As Integer = CInt(sender.Location.X / 100)
            Dim j As Integer = CInt(sender.Location.Y / 100)
            If i < 0 Then
                i = 0
            End If
            If j < 0 Then
                j = 0
            End If
            sender.Location = New Size(i * 100, j * 100)
            ans(j + 1, i + 1) = sender.Tag
        End If

    End Sub

    Private Sub Form1_Load(ByVal ... ) Handles MyBase.Load

        For i As Integer = 1 To 3
            For j As Integer = 1 To 3
                Controls("Label" & i & j & "0").Size = New Size(100, 100)
                Controls("Label" & i & j & "0").Location = New Point(100 * j - 100, 100 * i - 100)
                Controls("Label" & i & j).Size = New Size(100, 100)
                Controls("Label" & i & j).Location = New Point(100 * j + 300, 100 * i - 100)
                Controls("Label" & i & j).Tag = 10 * i + j
            Next
        Next

    End Sub

End Class
```

```
photo(1, 1) = My.Resources.image11
photo(1, 2) = My.Resources.image12
photo(1, 3) = My.Resources.image13
photo(2, 1) = My.Resources.image21
photo(2, 2) = My.Resources.image22
photo(2, 3) = My.Resources.image23
photo(3, 1) = My.Resources.image31
photo(3, 2) = My.Resources.image32
photo(3, 3) = My.Resources.image33
Call arrange()
Label11.Image = photo(1, 1)
Label12.Image = photo(1, 2)
Label13.Image = photo(1, 3)
Label21.Image = photo(2, 1)
Label22.Image = photo(2, 2)
Label23.Image = photo(2, 3)
Label31.Image = photo(3, 1)
Label32.Image = photo(3, 2)
Label33.Image = photo(3, 3)
```

End Sub

Private Sub arrange()

```
Dim rnd As Random = New Random
Dim i1, i2, j1, j2, wk2 As Integer
Dim wk1 As Image

For k As Integer = 1 To 20
    i1 = rnd.Next(1, 4)
    j1 = rnd.Next(1, 4)
    i2 = rnd.Next(1, 4)
    j2 = rnd.Next(1, 4)
    wk1 = photo(i1, j1)
    photo(i1, j1) = photo(i2, j2)
    photo(i2, j2) = wk1
    wk2 = Controls("Label" & i1 & j1).Tag
    Controls("Label" & i1 & j1).Tag = Controls("Label" & i2 & j2).Tag
    Controls("Label" & i2 & j2).Tag = wk2
Next
```

End Sub

Private Sub Button2_Click(ByVal ...) Handles Button2.Click

```
Form2.Show()
```

End Sub

Private Sub Button1_Click(ByVal ...) Handles Button1.Click

```
Dim flag As Boolean = True
```

```
For i As Integer = 1 To 3
    For j As Integer = 1 To 3
        If ans(i, j) <> 10 * i + j Then
            flag = False
        End If
    Next
Next
Next
```

```
    If flag Then
        MessageBox.Show("できたできた!")
    Else
        MessageBox.Show("ちがうよ")
    End If

End Sub

Private Sub Button3_Click(ByVal ... ) Handles Button3.Click

    Call Form1_Load(sender, e)

End Sub

End Class

Public Class Form2

    Private Sub Form2_Load(ByVal ... ) Handles MyBase.Load

        PictureBox1.Dock = DockStyle.Fill
        PictureBox1.Image = My.Resources.image
        Me.Location = New Point(Form1.Location.X + Form1.Width, Form1.Location.Y)

    End Sub

End Class
```