

GUI example for barcode reading in VB.NET and ByteScout BarCode Reader SDK

GUI example for barcode reading in VB.NET

We've created and updating regularly our sample code library so you may quickly learn GUI example for barcode reading and the step-by-step process in VB.NET. GUI example for barcode reading in VB.NET can be implemented with ByteScout BarCode Reader SDK. ByteScout BarCode Reader SDK is the SDK for reading of barcodes from PDF, images and live camera or video. Almost every common type like Code 39, Code 128, GS1, UPC, QR Code, Datamatrix, PDF417 and many others are supported. Supports noisy and defective images and docs. Includes optional documents splitter and merger for pdf and tiff based on found barcodess. Batch mode is supported for superior performance using multiple threads. Decoded values are easily exported to JSON, CSV, XML and to custom format.

VB.NET, code samples for VB.NET, developers help to speed up the application development and writing a code when using ByteScout BarCode Reader SDK. To do GUI example for barcode reading in your VB.NET project or application you may simply copy & paste the code and then run your app! VB.NET application implementation typically includes multiple stages of the software development so even if the functionality works please test it with your data and the production environment.

Trial version can be obtained from our website for free. It includes this and other source code samples for VB.NET.

VB.NET - Form1.Designer.vb

```
Partial Class Form1
    '''
    ''' Required designer variable.
    '''

    Private components As System.ComponentModel.IContainer = Nothing

    '''
    ''' Clean up any resources being used.
    '''

    ''' true if managed resources should be disposed; otherwise, false.
    Protected Overrides Sub Dispose(disposing As Boolean)
        If disposing AndAlso (components IsNot Nothing) Then
            components.Dispose()
        End If
        MyBase.Dispose(disposing)
    End Sub
End Class
```

```

#Region "Windows Form Designer generated code"

'''

''' Required method for Designer support - do not modify
''' the contents of this method with the code editor.
'''

Private Sub InitializeComponent()
    Me.label1 = New System.Windows.Forms.Label()
    Me.buttonBrowse = New System.Windows.Forms.Button()
    Me.pictureBoxBarcode = New System.Windows.Forms.PictureBox()
    Me.textBoxFileName = New System.Windows.Forms.TextBox()
    Me.textBoxResults = New System.Windows.Forms.TextBox()
    Me.label2 = New System.Windows.Forms.Label()
    Me.openFileDialog = New System.Windows.Forms.OpenFileDialog()
    Me.checkBoxAll1D = New System.Windows.Forms.CheckBox()
    Me.checkBoxAll2D = New System.Windows.Forms.CheckBox()
    Me.buttonSearch = New System.Windows.Forms.Button()
    Me.panel1 = New System.Windows.Forms.Panel()
    DirectCast(Me.pictureBoxBarcode,
System.ComponentModel.ISupportInitialize).BeginInit()
    Me.panel1.SuspendLayout()
    Me.SuspendLayout()
    '
    ' label1
    '
    Me.label1.AutoSize = True
    Me.label1.Location = New System.Drawing.Point(9, 9)
    Me.label1.Name = "label1"
    Me.label1.Size = New System.Drawing.Size(120, 13)
    Me.label1.TabIndex = 0
    Me.label1.Text = "Image or PDF file name:"
    '
    ' buttonBrowse
    '
    Me.buttonBrowse.Anchor = CType((System.Windows.Forms.AnchorStyles.Top Or
Or System.Windows.Forms.AnchorStyles.Right), System.Windows.Forms.AnchorStyles)
    Me.buttonBrowse.Location = New System.Drawing.Point(792, 23)
    Me.buttonBrowse.Name = "buttonBrowse"
    Me.buttonBrowse.Size = New System.Drawing.Size(78, 23)
    Me.buttonBrowse.TabIndex = 0
    Me.buttonBrowse.Text = "Browse..."
    Me.buttonBrowse.UseVisualStyleBackColor = True
    AddHandler Me.buttonBrowse.Click, New System.EventHandler(AddressOf
Me.buttonBrowse_Click)
    '
    ' pictureBoxBarcode
    '
    Me.pictureBoxBarcode.Anchor =
CType((((System.Windows.Forms.AnchorStyles.Top Or
System.Windows.Forms.AnchorStyles.Bottom) Or System.Windows.Forms.AnchorStyles.Left)
Or System.Windows.Forms.AnchorStyles.Right), System.Windows.Forms.AnchorStyles)
    Me.pictureBoxBarcode.Location = New System.Drawing.Point(0, 0)
    Me.pictureBoxBarcode.Name = "pictureBoxBarcode"
    Me.pictureBoxBarcode.Size = New System.Drawing.Size(138, 113)
    Me.pictureBoxBarcode.SizeMode =
System.Windows.Forms.PictureBoxSizeModeSizeMode.AutoSize
    Me.pictureBoxBarcode.TabIndex = 2

```

```

        Me.pictureBoxBarcode.TabStop = False
    ,
    ' textBoxFileName
    ,
        Me.textBoxFileName.Anchor =
CType(((System.Windows.Forms.AnchorStyles.Top Or
System.Windows.Forms.AnchorStyles.Left) Or System.Windows.Forms.AnchorStyles.Right),
System.Windows.Forms.AnchorStyles)
        Me.textBoxFileName.Location = New System.Drawing.Point(12, 25)
        Me.textBoxFileName.Name = "textBoxFileName"
        Me.textBoxFileName.[ReadOnly] = True
        Me.textBoxFileName.Size = New System.Drawing.Size(774, 20)
        Me.textBoxFileName.TabIndex = 0
    ,
    ' textBoxResults
    ,
        Me.textBoxResults.Anchor =
CType(((System.Windows.Forms.AnchorStyles.Bottom Or
System.Windows.Forms.AnchorStyles.Left) Or System.Windows.Forms.AnchorStyles.Right),
System.Windows.Forms.AnchorStyles)
        Me.textBoxResults.Location = New System.Drawing.Point(12, 486)
        Me.textBoxResults.Multiline = True
        Me.textBoxResults.Name = "textBoxResults"
        Me.textBoxResults.ScrollBars = System.Windows.Forms.ScrollBars.Both
        Me.textBoxResults.Size = New System.Drawing.Size(858, 102)
        Me.textBoxResults.TabIndex = 4
    ,
    ' label2
    ,
        Me.label2.AutoSize = True
        Me.label2.Location = New System.Drawing.Point(12, 470)
        Me.label2.Name = "label2"
        Me.label2.Size = New System.Drawing.Size(87, 13)
        Me.label2.TabIndex = 5
        Me.label2.Text = "Found barcodes:"
    ,
    ' openFileDialog
    ,
        Me.openFileDialog.Filter = "Image and PDF
files|.bmp;*.gif;*.tif;*.tiff;*.png;*.jpg;*.jpeg;*.pdf|All files|*" & ".*"
    ,
    ' checkBoxAll1D
    ,
        Me.checkBoxAll1D.AutoSize = True
        Me.checkBoxAll1D.Checked = True
        Me.checkBoxAll1D.CheckState = System.Windows.Forms.CheckState.Checked
        Me.checkBoxAll1D.Location = New System.Drawing.Point(12, 51)
        Me.checkBoxAll1D.Name = "checkBoxAll1D"
        Me.checkBoxAll1D.Size = New System.Drawing.Size(359, 17)
        Me.checkBoxAll1D.TabIndex = 1
        Me.checkBoxAll1D.Text = "One-dimensional (linear) barcodes (Code39,
Code128, GS1, EAN, etc.)"
        Me.checkBoxAll1D.UseVisualStyleBackColor = True
    ,
    ' checkBoxAll2D
    ,
        Me.checkBoxAll2D.AutoSize = True
        Me.checkBoxAll2D.Checked = True
        Me.checkBoxAll2D.CheckState = System.Windows.Forms.CheckState.Checked
        Me.checkBoxAll2D.Location = New System.Drawing.Point(12, 74)

```

```

        Me.checkBoxAll2D.Name = "checkBoxAll2D"
        Me.checkBoxAll2D.Size = New System.Drawing.Size(363, 17)
        Me.checkBoxAll2D.TabIndex = 2
        Me.checkBoxAll2D.Text = "Two-dimensional barcodes (Aztec, PDF417, QR
Code, Datamatrix, etc.)"
        Me.checkBoxAll2D.UseVisualStyleBackColor = True
    '
    ' buttonSearch
    '
        Me.buttonSearch.Anchor = CType((System.Windows.Forms.AnchorStyles.Top
Or System.Windows.Forms.AnchorStyles.Right), System.Windows.Forms.AnchorStyles)
        Me.buttonSearch.Font = New System.Drawing.Font("Tahoma", 8.25F,
System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point, CType(204))
        Me.buttonSearch.Location = New System.Drawing.Point(742, 51)
        Me.buttonSearch.Name = "buttonSearch"
        Me.buttonSearch.Size = New System.Drawing.Size(128, 40)
        Me.buttonSearch.TabIndex = 3
        Me.buttonSearch.Text = "Search Barcodes"
        Me.buttonSearch.UseVisualStyleBackColor = True
        AddHandler Me.buttonSearch.Click, New System.EventHandler(AddressOf
Me.buttonSearchBarcodes_Click)
    '
    ' panel1
    '
        Me.panel1.Anchor = CType((((System.Windows.Forms.AnchorStyles.Top Or
System.Windows.Forms.AnchorStyles.Bottom) Or System.Windows.Forms.AnchorStyles.Left)
Or System.Windows.Forms.AnchorStyles.Right), System.Windows.Forms.AnchorStyles)
        Me.panel1.AutoScroll = True
        Me.panel1.BackColor = System.Drawing.SystemColors.ControlDark
        Me.panel1.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle
        Me.panel1.Controls.Add(Me.pictureBoxBarcode)
        Me.panel1.Location = New System.Drawing.Point(12, 97)
        Me.panel1.Name = "panel1"
        Me.panel1.Size = New System.Drawing.Size(858, 370)
        Me.panel1.TabIndex = 9
    '
    ' Form1
    '
        Me.AutoScaleDimensions = New System.Drawing.SizeF(6F, 13F)
        Me.AutoScaleMode = System.Windows.Forms.AutoScaleModeMode.Font
        Me.ClientSize = New System.Drawing.Size(882, 600)
        Me.Controls.Add(Me.panel1)
        Me.Controls.Add(Me.buttonSearch)
        Me.Controls.Add(Me.checkBoxAll2D)
        Me.Controls.Add(Me.checkBoxAll1D)
        Me.Controls.Add(Me.label2)
        Me.Controls.Add(Me.textBoxResults)
        Me.Controls.Add(Me.textBoxFileName)
        Me.Controls.Add(Me.buttonBrowse)
        Me.Controls.Add(Me.label1)
        Me.Name = "Form1"
        Me.StartPosition =
System.Windows.Forms.FormStartPosition.CenterScreen
        Me.Text = "Barcode Reader"
        DirectCast(Me.pictureBoxBarcode,
System.ComponentModel.ISupportInitialize).EndInit()
        Me.panel1.ResumeLayout(False)
        Me.panel1.PerformLayout()
        Me.ResumeLayout(False)
        Me.PerformLayout()

```

```

End Sub

#End Region

Private label1 As System.Windows.Forms.Label
Private buttonBrowse As System.Windows.Forms.Button
Private pictureBoxBarcode As System.Windows.Forms.PictureBox
Private textBoxFileName As System.Windows.Forms.TextBox
Private textBoxResults As System.Windows.Forms.TextBox
Private label2 As System.Windows.Forms.Label
Private openFileDialog As System.Windows.Forms.OpenFileDialog
Private checkBoxAll1D As System.Windows.Forms.CheckBox
Private checkBoxAll2D As System.Windows.Forms.CheckBox
Private buttonSearch As System.Windows.Forms.Button
Private panel1 As System.Windows.Forms.Panel
End Class

```

VB.NET - Form1.vb

```

Imports System.Collections.Generic
Imports System.Drawing
Imports System.Windows.Forms
Imports Bytescout.BarCodeReader

Public Partial Class Form1
    Inherits Form
    Public Sub New()
        InitializeComponent()
    End Sub

    Private _fileName As String = ""

    Private Sub buttonBrowse_Click(sender As Object, e As EventArgs)
        Dim result As DialogResult = openFileDialog.ShowDialog()

        If result = DialogResult.OK Then
            _fileName = openFileDialog.FileName
            textBoxFileName.Text = _fileName

            Try
                Dim bmp As New Bitmap(_fileName)
                pictureBoxBarcode.Image = bmp
            Catch generatedExceptionName As Exception
                pictureBoxBarcode.Image = Nothing
            End Try
        End If
    End Sub
End Class

```

```

Private Sub buttonSearchBarcodes_Click(sender As Object, e As EventArgs)
    FindBarcodes()
End Sub

Private Sub FindBarcodes()
    If String.IsNullOrEmpty(_fileName) Then
        Return
    End If

    Dim reader As New Reader()
    reader.RegistrationName = "demo"
    reader.RegistrationKey = "demo"

    If checkBoxAll1D.Checked Then
        reader.BarcodeTypesToFind.All1D = True
    End If
    If checkBoxAll2D.Checked Then
        reader.BarcodeTypesToFind.All2D = True
    End If

    Cursor = Cursors.WaitCursor
    Dim foundBarcodes As FoundBarcode() = reader.ReadFrom(_fileName)
    ResetCursor()

    Dim data As New List(Of String)()

    If foundBarcodes.Length = 0 Then
        data.Add("No barcodes found")
    Else
        For Each barcode As FoundBarcode In foundBarcodes
            data.Add(String.Format("Type \"{0}\" and value \"{1}\"",
barcode.Type, barcode.Value))
        Next
    End If

    ' Cleanup
    reader.Dispose()

    textBoxResults.Lines = data.ToArray()
End Sub
End Class

```

VB.NET - Program.vb

```

Imports System.Collections.Generic
Imports System.Windows.Forms

NotInheritable Class Program
    Private Sub New()
    End Sub

```

```
'''  
''' The main entry point for the application.  
'''  
  
Friend Shared Sub Main()  
    Application.EnableVisualStyles()  
    Application.SetCompatibleTextRenderingDefault(False)  
    Application.Run(New Form1())  
End Sub  
End Class
```

FOR MORE INFORMATION AND FREE TRIAL:

[Download Free Trial SDK \(on-premise version\)](#)

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