

## How to print labels in VB.NET using ByteScout Barcode SDK

### How to print labels in VB.NET

These sample source codes on this page below are demonstrating how to print labels in VB.NET. What is ByteScout Barcode SDK? It is the robust library (Software Development Kit) that is designed for automatic generation of high-quality barcodes for printing, electronic documents and pdf. All popular barcode types are supported from Code 39 and Code 129 to QR Code, UPC, GS1, GS-128, Datamatrix, PDF417, Maxicode and many others. Provides support for full customization of fonts, colors, output and printing sizes. Special tools are included to verify output quality and printing quality. Can add generated barcode into new or existing documents, images and PDF. It can help you to print labels in your VB.NET application.

This code snippet below for ByteScout Barcode SDK works best when you need to quickly print labels in your VB.NET application. In your VB.NET project or application you may simply copy & paste the code and then run your app! Further enhancement of the code will make it more vigorous.

Trial version of ByteScout Barcode SDK is available for free. Source code samples are included to help you with your VB.NET app.

FOR MORE INFORMATION AND FREE TRIAL:

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Source Code Files:

```

<Global.Microsoft.VisualBasic.CompilerServices.DesignerGenerated()> _
Partial Class Form1
    Inherits System.Windows.Forms.Form

    'Form overrides dispose to clean up the component list.
    <System.Diagnostics.DebuggerNonUserCode()> _
    Protected Overrides Sub Dispose(ByVal disposing As Boolean)
        Try
            If disposing AndAlso components IsNot Nothing Then
                components.Dispose()
            End If
        Finally
            MyBase.Dispose(disposing)
        End Try
    End Sub

    'Required by the Windows Form Designer
    Private components As System.ComponentModel.IContainer

    'NOTE: The following procedure is required by the Windows Form Designer
    'It can be modified using the Windows Form Designer.
    'Do not modify it using the code editor.
    <System.Diagnostics.DebuggerStepThrough()> _
    Private Sub InitializeComponent()
        Dim resources As System.ComponentModel.ComponentResourceManager = New S
        Me.buttonPrint = New System.Windows.Forms.Button()
        Me.PrintPreviewDialog1 = New System.Windows.Forms.PrintPreviewDialog()
        Me.PrintDocument1 = New System.Drawing.Printing.PrintDocument()
        Me.PrintDialog1 = New System.Windows.Forms.PrintDialog()
        Me.SuspendLayout()
        '
        'buttonPrint
        '
        Me.buttonPrint.Location = New System.Drawing.Point(12, 12)
        Me.buttonPrint.Name = "buttonPrint"
        Me.buttonPrint.Size = New System.Drawing.Size(260, 57)
        Me.buttonPrint.TabIndex = 1
        Me.buttonPrint.Text = "Draw And Print Cards"
        Me.buttonPrint.UseVisualStyleBackColor = True
        '
        'PrintPreviewDialog1
        '
        Me.PrintPreviewDialog1.AutoScrollMargin = New System.Drawing.Size(0, 0)
        Me.PrintPreviewDialog1.AutoScrollMinSize = New System.Drawing.Size(0, 0)
        Me.PrintPreviewDialog1.ClientSize = New System.Drawing.Size(400, 300)
        Me.PrintPreviewDialog1.Document = Me.PrintDocument1
        Me.PrintPreviewDialog1.Enabled = True
        Me.PrintPreviewDialog1.Icon = CType(resources.GetObject("PrintPreviewD
        Me.PrintPreviewDialog1.Name = "PrintPreviewDialog1"
        Me.PrintPreviewDialog1.Visible = False
        '
        'PrintDocument1
        '
        '
        'PrintDialog1
    End Sub

```

```

    Me.PrintDialog1.Document = Me.PrintDocument1
    Me.PrintDialog1.UseEXDialog = True
  '
  'Form1
  '
  Me.AutoScaleDimensions = New System.Drawing.SizeF(6.0!, 13.0!)
  Me.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font
  Me.ClientSize = New System.Drawing.Size(284, 149)
  Me.Controls.Add(Me.buttonPrint)
  Me.Name = "Form1"
  Me.Text = "Form1"
  Me.ResumeLayout(False)

End Sub
Private WithEvents buttonPrint As System.Windows.Forms.Button
Friend WithEvents PrintPreviewDialog1 As System.Windows.Forms.PrintPreviewDialog
Friend WithEvents PrintDocument1 As System.Drawing.Printing.PrintDocument
Friend WithEvents PrintDialog1 As System.Windows.Forms.PrintDialog

End Class

```

Form1.vb

```

Imports System.Drawing.Drawing2D
Imports Bytescout.BarCode

Public Class Form1

    Dim PaperSize As SizeF = New SizeF(5.5F, 8.75F) ' 5.5 x 8.75 inches
    Const PrintingResolution As Integer = 300 ' 300 dots per inch

    Public Sub New()

        ' This call is required by the designer.
        InitializeComponent()

        ' Make the print preview dialog larger by default
        PrintPreviewDialog1.MinimumSize = New Size(800, 600)

    End Sub

    Private Sub buttonPrint_Click(sender As Object, e As EventArgs) Handles buttonPrint.Click

        ' Show print setup dialog, then print preview
        If PrintDialog1.ShowDialog() = DialogResult.OK Then
            PrintPreviewDialog1.ShowDialog()
        End If

    End Sub

```

```

Private Sub PrintDocument1_PrintPage(sender As Object, e As Printing.PrintPage)

    ' Draw page on the printer device context
    Dim pageBitmap = DrawPage()
    e.Graphics.DrawImage(pageBitmap, 0, 0)

End Sub

' Draw cards on a bitmap of custom size
Private Function DrawPage() As Bitmap

    Dim cardSize As SizeF = New SizeF(PaperSize.Width / 4, PaperSize.Height)

    ' Prepare constant and variable labels
    Dim strBrand = "CJ SHOES"
    Dim strModel = "ARTHUR-1N"
    Dim strColor = "BLK"
    Dim shoeSizeStart As Single = 5.5F
    Dim shoeSizeStep As Single = 0.5F
    Dim barcodeStartValue As Long = 4611030000
    Dim barcodeValueStep As Integer = 1

    ' Prepare fonts
    Dim font1 = New Font("Arial", 0.12F, GraphicsUnit.Inch)
    Dim font2 = New Font("Arial", 0.1F, GraphicsUnit.Inch)
    Dim font3 = New Font("Arial", 0.09F, GraphicsUnit.Inch)
    Dim font4 = New Font("Arial", 0.15F, GraphicsUnit.Inch)

    ' Prepare barcode generator
    Dim barcode = New Barcode("demo", "demo")
    barcode.Symbology = SymbologyType.I2of5
    barcode.NarrowBarWidth = 2
    barcode.DrawCaption = False

    Dim cardIndex = 0

    ' Create bitmap for the page
    Dim pageBitmap = New Bitmap(CType((PaperSize.Width * PrintingResolution), Integer),
    pageBitmap.SetResolution(PrintingResolution, PrintingResolution)

    Using pageCanvas As Graphics = Graphics.FromImage(pageBitmap)

        pageCanvas.InterpolationMode = InterpolationMode.HighQualityBicubic
        pageCanvas.CompositingQuality = CompositingQuality.HighQuality

        ' Setup page units to inches
        pageCanvas.PageUnit = GraphicsUnit.Inch
        ' Fill background with white color
        pageCanvas.Clear(Color.White)

        ' Draw cards
        For row As Integer = 0 To 3
            For column As Integer = 0 To 3

                ' Create bitmap for card
                Dim cardBitmap = New Bitmap(CType((cardSize.Width * PrintingResolution), Integer),
                cardBitmap.SetResolution(PrintingResolution, PrintingResolution)

                Using cardCanvas As Graphics = Graphics.FromImage(cardBitmap)

```

```

' Setup page units to inches
cardCanvas.PageUnit = GraphicsUnit.Inch

' Setup drawing quality
cardCanvas.SmoothingMode = SmoothingModeNone
cardCanvas.InterpolationMode = InterpolationModeNone
cardCanvas.CompositingQuality = CompositingQualityNone

Dim stringFormat = New StringFormat()
stringFormat.Alignment = StringAlignmentCenter

' Draw static labels
cardCanvas.DrawString(strBrand, font1,
cardCanvas.DrawString(strModel, font2,
cardCanvas.DrawString(strColor, font1,

' Generate barcode image
barcode.Value = (barcodeStartValue + cardIndex) * 1000
barcode.PreserveMinReadableSize = False
barcode.ResolutionX = PrintingResolution
barcode.ResolutionY = PrintingResolution
barcode.FitInto(cardSize.Width, 0.5F, 1.0F)
Dim barcodeImage = barcode.GetImage()
' Draw barcode
cardCanvas.DrawImage(barcodeImage, 0, 1.5F)
' Draw barcode label
cardCanvas.DrawString(barcode.Value, font1,

' Draw shoe size label
cardCanvas.DrawString((shoeSizeStart + cardIndex * 0.5) * 10,
cardSize.Width / 2, 1.7F, stringFormat)

```

```
End Using
```

```
' Draw card on the page
pageCanvas.DrawImage(cardBitmap, column * cardSize.Width, cardIndex * cardSize.Height)
```

```
cardIndex = cardIndex + 1
```

```
Next
```

```
Next
```

```
End Using
```

```
Return pageBitmap
```

```
End Function
```

```
End Class
```

VIDEO

<https://www.youtube.com/watch?v=REnj3A-oSPI>

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