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## How to print labels in C# with ByteScout Barcode SDK

The tutorial below will demonstrate how to print labels in C#

We made thousands of pre-made source code pieces for easy implementation in your own programming projects. Want to print labels in your C# app? ByteScout Barcode SDK is designed for it. ByteScout Barcode SDK is the robust SDK that generates high quality barcode images and pdf. Can generate all popular types of barcodes from QR Code, Code 39, Code 128, UPC, GS1, GS-128, PDF417, Datamatrix to more exotic barcode types. Fully customizable fonts, colors, print sizes. Includes special functions to ensure output quality, and tools for adding barcodes to new or existing pdf files and images.

C# code samples for C# developers help to speed up coding of your application when using ByteScout Barcode SDK. In order to implement the functionality, you should copy and paste this code for C# below into your code editor with your app, compile and run your application. Further enhancement of the code will make it more vigorous.

Free trial version of ByteScout Barcode SDK is available for download from our website. Get it to try other source code samples for C#.

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Source Code Files:

## Form1.Designer.cs

```
namespace PrintLabels
{
    partial class Form1
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be disposed.
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code

        /// <summary>
        /// Required method for Designer support - do not modify
        /// the contents of this method with the code editor.
        /// </summary>
        private void InitializeComponent()
        {
            System.ComponentModel.ComponentResourceManager resources = new System.ComponentModel.ComponentResourceManager(typeof(Form1));
            this.buttonPrint = new System.Windows.Forms.Button();
            this.printPreviewDialog1 = new System.Windows.Forms.PrintPreviewDialog();
            this.printDocument1 = new System.Drawing.Printing.PrintDocument();
            this.printDialog1 = new System.Windows.Forms.PrintDialog();
            this.SuspendLayout();
            // 
            // buttonPrint
            // 
            this.buttonPrint.Location = new System.Drawing.Point(12, 12);
            this.buttonPrint.Name = "buttonPrint";
            this.buttonPrint.Size = new System.Drawing.Size(260, 57);
            this.buttonPrint.TabIndex = 0;
            this.buttonPrint.Text = "Draw And Print Cards";
            this.buttonPrint.UseVisualStyleBackColor = true;
            this.buttonPrint.Click += new System.EventHandler(this.buttonPrint_Click);
            // 
            // printPreviewDialog1
            // 
            this.printPreviewDialog1.AutoScrollMargin = new System.Drawing.Size(0, 0);
            this.printPreviewDialog1.AutoScrollMinSize = new System.Drawing.Size(0, 0);
            this.printPreviewDialog1.ClientSize = new System.Drawing.Size(0, 0);
            this.printPreviewDialog1.Document = this.printDocument1;
            this.printPreviewDialog1.Enabled = true;
            this.printPreviewDialog1.Icon = ((System.Drawing.Icon)(resources.GetObject("printPreviewDialog1.Icon")));
            this.printPreviewDialog1.ShowIcon = false;
            this.printPreviewDialog1.ShowPrintPreviewButton = true;
            this.printPreviewDialog1.StartPosition = System.Windows.Forms.FormStartPosition.CenterScreen;
            this.printPreviewDialog1.Text = "Print Preview";
            this.printPreviewDialog1.Visible = false;
            // 
            // printDocument1
            // 
            this.printDocument1.PrintPage += new System.Drawing.Printing.PrintPageEventHandler(this.printDocument1_PrintPage);
            // 
            // Form1
            // 
            this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
            this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
            this.ClientSize = new System.Drawing.Size(292, 264);
            this.Controls.Add(this.buttonPrint);
            this.Name = "Form1";
            this.Text = "Print Labels";
            this.ResumeLayout(false);
        }

        #endregion
    }
}
```

```

        this.printPreviewDialog1.Name = "printPreviewDialog1";
        this.printPreviewDialog1.UseAntiAlias = true;
        this.printPreviewDialog1.Visible = false;
        //
        // printDocument1
        //
        this.printDocument1.PrintPage += new System.Drawing.Printing.Pri
        //
        // printDialog1
        //
        this.printDialog1.Document = this.printDocument1;
        this.printDialog1.UseEXDialog = true;
        //
        // Form1
        //
        this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
        this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
        this.ClientSize = new System.Drawing.Size(284, 156);
        this.Controls.Add(this.buttonPrint);
        this.Name = "Form1";
        this.Text = "Form1";
        this.ResumeLayout(false);

    }

}

#endregion

private System.Windows.Forms.Button buttonPrint;
private System.Windows.Forms.PrintPreviewDialog printPreviewDialog1;
private System.Drawing.Printing.PrintDocument printDocument1;
private System.Windows.Forms.PrintDialog printDialog1;
}
}

```

Form1.cs

```

using System;
using System.Drawing;
using System.Drawing.Drawing2D;
using System.Drawing.Printing;
using System.Windows.Forms;
using Bytescout.BarCode;

namespace PrintLabels
{
    /// <summary>
    /// This example demonstrates drawing and printing of multiple cards (e.g. stick
    /// Cards contain variable labels and barcodes.
    /// </summary>

```

```

public partial class Form1 : Form
{
    SizeF PaperSize = new SizeF(5.5f, 8.75f); // 5.5 x 8.75 inches
    const int PrintingResolution = 300; // 300 dots per inch

    public Form1()
    {
        InitializeComponent();

        // Make the print preview dialog larger by default
        printPreviewDialog1.MinimumSize = new Size(800, 600);
    }

    private void buttonPrint_Click(object sender, EventArgs e)
    {
        // Show print setup dialog, then print preview
        if (printDialog1.ShowDialog() == DialogResult.OK)
            printPreviewDialog1.ShowDialog();
    }

    private void printDocument1_PrintPage(object sender, PrintPageEventArgs e)
    {
        // Draw page on the printer device context
        Bitmap pageBitmap = DrawPage();
        e.Graphics.DrawImage(pageBitmap, 0, 0);
    }

    // Draw cards on a bitmap of custom size
    private Bitmap DrawPage()
    {
        SizeF cardSize = new SizeF(PaperSize.Width / 4, PaperSize.Height / 4);

        // Prepare constant and variable labels
        string strBrand = "CJ SHOES";
        string strModel = "ARTHUR-1N";
        string strColor = "BLK";
        float shoeSizeStart = 5.5f;
        float shoeSizeStep = 0.5f;
        long barcodeStartValue = 4611030000;
        int barcodeValueStep = 1;

        // Prepare fonts
        Font font1 = new Font("Arial", 0.12f, GraphicsUnit.Inch);
        Font font2 = new Font("Arial", 0.10f, GraphicsUnit.Inch);
        Font font3 = new Font("Arial", 0.09f, GraphicsUnit.Inch);
        Font font4 = new Font("Arial", 0.15f, GraphicsUnit.Inch);

        // Prepare barcode generator
        Barcode barcode = new Barcode("demo", "demo");
        barcode.Symbology = SymbologyType.I2of5;
        barcode.NarrowBarWidth = 2;
        barcode.DrawCaption = false;

        int cardIndex = 0;

        // Create bitmap for the page
        Bitmap pageBitmap = new Bitmap((int) (PaperSize.Width * PrintingResolution), (int) (PaperSize.Height * PrintingResolution));
        using (Graphics pageCanvas = Graphics.FromImage(pageBitmap))
    }
}

```

```

    {
        pageCanvas.InterpolationMode = InterpolationMode.HighQuality;
        pageCanvas.CompositingQuality = CompositingQuality.HighQuality;

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

        // Draw cards
        for (int row = 0; row < 4; row++)
        {
            for (int column = 0; column < 4; column++)
            {
                // Create bitmap for card
                Bitmap cardBitmap = new Bitmap((int)cardSize.Width,
                    (int)cardSize.Height);
                cardBitmap.SetResolution(PrintingResolution);

                using (Graphics cardCanvas = Graphics.FromImage(cardBitmap))
                {
                    // Setup page units to inches
                    cardCanvas.GraphicsUnit = GraphicsUnit.Inch;

                    // Setup drawing quality
                    cardCanvas.SmoothingMode = SmoothingMode.HighQuality;
                    cardCanvas.InterpolationMode = InterpolationMode.HighQuality;
                    cardCanvas.CompositingQuality = CompositingQuality.HighQuality;

                    StringFormat stringFormat = new StringFormat();
                    stringFormat.Alignment = StringAlignment.Center;
                    stringFormat.LineAlignment = StringAlignment.Center;

                    // Draw static labels
                    cardCanvas.DrawString(strBrand, strFont, strColor, brandX, brandY);
                    cardCanvas.DrawString(strModel, strFont, strColor, modelX, modelY);
                    cardCanvas.DrawString(strColor, strFont, strColor, colorX, colorY);

                    // Generate barcode image
                    barcode.Value = (BarcodeStartValue + cardIndex);
                    barcode.PreserveMinReadableSize = true;
                    barcode.ResolutionX = barcode.ResolutionY;
                    barcode.FitInto(cardSize.Width, cardSize.Height);
                    Image barcodeImage = barcode.GetImage();
                    // Draw barcode
                    cardCanvas.DrawImage(barcodeImage, barcodeX, barcodeY);
                    // Draw barcode label
                    cardCanvas.DrawString(barcode.Value.ToString(), strFont, strColor, barcodeLabelX, barcodeLabelY);

                    // Draw shoe size label
                    cardCanvas.DrawString((shoeSize + 1).ToString(), strFont, strColor, shoeSizeLabelX, shoeSizeLabelY);
                    cardSize.Width / 2, 1.5f);
                }

                // Draw card on the page
                pageCanvas.DrawImage(cardBitmap, column * cardSize.Width, row * cardSize.Height);
                cardIndex++;
            }
        }
    }
}

```

```
        return pageBitmap;
    }
}
```

## Program.cs

```
using System;
using System.Windows.Forms;

namespace PrintLabels
{
    static class Program
    {
        /// <summary>
        /// The main entry point for the application.
        /// </summary>
        [STAThread]
        static void Main()
        {
            Application.EnableVisualStyles();
            Application.SetCompatibleTextRenderingDefault(false);
            Application.Run(new Form1());
        }
    }
}
```

---

## VIDEO

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

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