

## gui example for barcode reading with barcode reader sdk in C# and ByteScout Premium Suite

Learn to code gui example for barcode reading with barcode reader sdk in C#: How-To tutorial

Easy to understand coding instructions are written to assist you to try-out the features without the requirement to write your own code. ByteScout Premium Suite was made to help with gui example for barcode reading with barcode reader sdk in C#. ByteScout Premium Suite is the set that includes 12 SDK products from ByteScout including tools and components for PDF, barcodes, spreadsheets, screen video recording.

Save time on writing and testing code by using the code below and use it in your application. If you want to know how it works, then this C# sample code should be copied and pasted into your application's code editor. Then just compile and run it. Check these C# sample code examples to see if they acknowledge to your needs and requirements for the project.

Visit our website to get a free trial version of ByteScout Premium Suite. Free trial contains many of source code samples to help you with your C# project.

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Source Code Files:

```
namespace GuiExample
{
    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; otherwise, false; otherwise, false if disposing is true.
        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()
        {
            this.label1 = new System.Windows.Forms.Label();
            this.buttonBrowse = new System.Windows.Forms.Button();
            this.pictureBoxBarcode = new System.Windows.Forms.PictureBox();
            this.textBoxFileName = new System.Windows.Forms.TextBox();
            this.textBoxResults = new System.Windows.Forms.TextBox();
            this.label2 = new System.Windows.Forms.Label();
            this.openFileDialog = new System.Windows.Forms.OpenFileDialog();
            this.checkBoxAll1D = new System.Windows.Forms.CheckBox();
            this.checkBoxAll2D = new System.Windows.Forms.CheckBox();
            this.buttonSearch = new System.Windows.Forms.Button();
            this.panel1 = new System.Windows.Forms.Panel();
            ((System.ComponentModel.ISupportInitialize)(this.pictureBoxBarcode)).BeginInit();
            this.panel1.SuspendLayout();
            this.SuspendLayout();
            //
            // label1
            //
            this.label1.AutoSize = true;
            this.label1.Location = new System.Drawing.Point(9, 9);
            this.label1.Name = "label1";
            this.label1.Size = new System.Drawing.Size(120, 13);
            this.label1.TabIndex = 0;
            this.label1.Text = "Image or PDF file name:";
            //
            // buttonBrowse

```

```

//
this.buttonBrowse.Anchor = ((System.Windows.Forms.AnchorStyles)((System.Wi
this.buttonBrowse.Location = new System.Drawing.Point(792, 23);
this.buttonBrowse.Name = "buttonBrowse";
this.buttonBrowse.Size = new System.Drawing.Size(78, 23);
this.buttonBrowse.TabIndex = 0;
this.buttonBrowse.Text = "Browse...";
this.buttonBrowse.UseVisualStyleBackColor = true;
this.buttonBrowse.Click += new System.EventHandler(this.buttonBrowse_Click)
//
// pictureBoxBarcode
//
this.pictureBoxBarcode.Anchor = ((System.Windows.Forms.AnchorStyles)((((Sys
    | System.Windows.Forms.AnchorStyles.Left)
    | System.Windows.Forms.AnchorStyles.Right)));
this.pictureBoxBarcode.Location = new System.Drawing.Point(0, 0);
this.pictureBoxBarcode.Name = "pictureBoxBarcode";
this.pictureBoxBarcode.Size = new System.Drawing.Size(138, 113);
this.pictureBoxBarcode.SizeMode = System.Windows.Forms.PictureBoxSizeMode.
this.pictureBoxBarcode.TabIndex = 2;
this.pictureBoxBarcode.TabStop = false;
//
// textBoxFileName
//
this.textBoxFileName.Anchor = ((System.Windows.Forms.AnchorStyles)((System
    | System.Windows.Forms.AnchorStyles.Right)));
this.textBoxFileName.Location = new System.Drawing.Point(12, 25);
this.textBoxFileName.Name = "textBoxFileName";
this.textBoxFileName.ReadOnly = true;
this.textBoxFileName.Size = new System.Drawing.Size(774, 20);
this.textBoxFileName.TabIndex = 0;
//
// textBoxResults
//
this.textBoxResults.Anchor = ((System.Windows.Forms.AnchorStyles)((System
    | System.Windows.Forms.AnchorStyles.Right)));
this.textBoxResults.Location = new System.Drawing.Point(12, 486);
this.textBoxResults.Multiline = true;
this.textBoxResults.Name = "textBoxResults";
this.textBoxResults.ScrollBars = System.Windows.Forms.ScrollBars.Both;
this.textBoxResults.Size = new System.Drawing.Size(858, 102);
this.textBoxResults.TabIndex = 4;
//
// label2
//
this.label2.AutoSize = true;
this.label2.Location = new System.Drawing.Point(12, 470);
this.label2.Name = "label2";
this.label2.Size = new System.Drawing.Size(87, 13);
this.label2.TabIndex = 5;
this.label2.Text = "Found barcodes:";
//
// openFileDialog
//
this.openFileDialog.Filter = "Image and PDF files|*.bmp;*.gif;*.tif;*.tiff
    *.*";
//
// checkBoxAll1D
//
this.checkBoxAll1D.AutoSize = true;

```

```

this.checkBoxAll1D.Checked = true;
this.checkBoxAll1D.CheckState = System.Windows.Forms.CheckState.Checked;
this.checkBoxAll1D.Location = new System.Drawing.Point(12, 51);
this.checkBoxAll1D.Name = "checkBoxAll1D";
this.checkBoxAll1D.Size = new System.Drawing.Size(359, 17);
this.checkBoxAll1D.TabIndex = 1;
this.checkBoxAll1D.Text = "One-dimensional (linear) barcodes (Code39, Code128)";
this.checkBoxAll1D.UseVisualStyleBackColor = true;
//
// checkBoxAll2D
//
this.checkBoxAll2D.AutoSize = true;
this.checkBoxAll2D.Checked = true;
this.checkBoxAll2D.CheckState = System.Windows.Forms.CheckState.Checked;
this.checkBoxAll2D.Location = new System.Drawing.Point(12, 74);
this.checkBoxAll2D.Name = "checkBoxAll2D";
this.checkBoxAll2D.Size = new System.Drawing.Size(363, 17);
this.checkBoxAll2D.TabIndex = 2;
this.checkBoxAll2D.Text = "Two-dimensional barcodes (Aztec, PDF417, QR Code)";
this.checkBoxAll2D.UseVisualStyleBackColor = true;
//
// buttonSearch
//
this.buttonSearch.Anchor = ((System.Windows.Forms.AnchorStyles)((System.Windows.Forms.AnchorStyles.Top | System.Windows.Forms.AnchorStyles.Right)));
this.buttonSearch.Font = new System.Drawing.Font("Tahoma", 8.25F, System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, ((byte)0));
this.buttonSearch.Location = new System.Drawing.Point(742, 51);
this.buttonSearch.Name = "buttonSearch";
this.buttonSearch.Size = new System.Drawing.Size(128, 40);
this.buttonSearch.TabIndex = 3;
this.buttonSearch.Text = "Search Barcodes";
this.buttonSearch.UseVisualStyleBackColor = true;
this.buttonSearch.Click += new System.EventHandler(this.buttonSearchBarcode);
//
// panel1
//
this.panel1.Anchor = ((System.Windows.Forms.AnchorStyles)((((System.Windows.Forms.AnchorStyles.Top | System.Windows.Forms.AnchorStyles.Bottom) & (System.Windows.Forms.AnchorStyles.Left | System.Windows.Forms.AnchorStyles.Right))));
this.panel1.AutoScroll = true;
this.panel1.BackColor = System.Drawing.SystemColors.ControlDark;
this.panel1.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
this.panel1.Controls.Add(this.pictureBoxBarcode);
this.panel1.Location = new System.Drawing.Point(12, 97);
this.panel1.Name = "panel1";
this.panel1.Size = new System.Drawing.Size(858, 370);
this.panel1.TabIndex = 9;
//
// Form1
//
this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
this.AutoScaleMode = System.Windows.Forms.AutoScaleModeMode.Font;
this.ClientSize = new System.Drawing.Size(882, 600);
this.Controls.Add(this.panel1);
this.Controls.Add(this.buttonSearch);
this.Controls.Add(this.checkBoxAll2D);
this.Controls.Add(this.checkBoxAll1D);
this.Controls.Add(this.label2);
this.Controls.Add(this.textBoxResults);
this.Controls.Add(this.textBoxFileName);
this.Controls.Add(this.buttonBrowse);

```

```

        this.Controls.Add(this.label1);
        this.Name = "Form1";
        this.StartPosition = System.Windows.Forms.FormStartPosition.CenterScreen;
        this.Text = "Barcode Reader";
        ((System.ComponentModel.ISupportInitialize)(this.pictureBoxBarcode)).EndInit();
        this.panel1.ResumeLayout(false);
        this.panel1.PerformLayout();
        this.ResumeLayout(false);
        this.PerformLayout();

    }

    #endregion

    private System.Windows.Forms.Label label1;
    private System.Windows.Forms.Button buttonBrowse;
    private System.Windows.Forms.PictureBox pictureBoxBarcode;
    private System.Windows.Forms.TextBox textBoxFileName;
    private System.Windows.Forms.TextBox textBoxResults;
    private System.Windows.Forms.Label label2;
    private System.Windows.Forms.OpenFileDialog openFileDialog;
    private System.Windows.Forms.CheckBox checkBoxAll1D;
    private System.Windows.Forms.CheckBox checkBoxAll2D;
    private System.Windows.Forms.Button buttonSearch;
    private System.Windows.Forms.Panel panel1;
}
}

```

Form1.cs

```

using System;
using System.Collections.Generic;
using System.Drawing;
using System.Windows.Forms;
using Bytescout.BarCodeReader;

namespace GuiExample
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private String _fileName = "";

        private void buttonBrowse_Click(object sender, EventArgs e)
        {

```

```

DialogResult result = openFileDialog.ShowDialog();

if (result == DialogResult.OK)
{
    _fileName = openFileDialog.FileName;
    textBoxFileName.Text = _fileName;

    try
    {
        Bitmap bmp = new Bitmap(_fileName);
        pictureBoxBarcode.Image = bmp;
    }
    catch (Exception)
    {
        pictureBoxBarcode.Image = null;
    }
}

private void buttonSearchBarcodes_Click(object sender, EventArgs e)
{
    FindBarcodes();
}

private void FindBarcodes()
{
    if (String.IsNullOrEmpty(_fileName))
        return;

    Reader reader = new Reader();
    reader.RegistrationName = "demo";
    reader.RegistrationKey = "demo";

    if (checkBoxAll1D.Checked)
        reader.BarcodeTypesToFind.All1D = true;
    if (checkBoxAll2D.Checked)
        reader.BarcodeTypesToFind.All2D = true;

    Cursor = Cursors.WaitCursor;

    /* -----
    NOTE: We can read barcodes from specific page to increase performance.
    For sample please refer to "Decoding barcodes from PDF by pages" program.
    ----- */

    FoundBarcode[] foundBarcodes = reader.ReadFrom(_fileName);
    ResetCursor();

    List<string> data = new List<string>();

    if (foundBarcodes.Length == 0)
    {
        data.Add("No barcodes found");
    }
    else
    {
        foreach (FoundBarcode barcode in foundBarcodes)
            data.Add(String.Format("Type \"{0}\" and value \"{1}\"", barcode.Type));
    }
}

```

```
        // Cleanup
        reader.Dispose();

        textBoxResults.Lines = data.ToArray();
    }
}
```

Program.cs

```
using System;
using System.Collections.Generic;
using System.Windows.Forms;

namespace GuiExample
{
    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=NEwNs2b9YN8>

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