

How to print PDF in C# using ByteScout PDF Renderer SDK

This tutorial will show how to print PDF in C#

With this source code sample you may quickly learn how to print PDF in C#. What is ByteScout PDF Renderer SDK? It is the component (SDK) that renders PDF into high quality images and thumbnails. Includes various functions like page by page processing, BMP, PNG, TIFF or stream output. Can be used from web and desktop applications. It can help you to print PDF in your C# application.

C# code samples for C# developers help to speed up coding of your application when using ByteScout PDF Renderer SDK. In your C# project or application you may simply copy & paste the code and then run your app! This basic programming language sample code for C# will do the whole work for you to print PDF.

Trial version of ByteScout PDF Renderer SDK is available for free. Source code samples are included to help you with your C# app.

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Source Code Files:

Form1.Designer.cs

```

namespace PrintPDF
{
    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;
        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.printDocument1 = new System.Drawing.Printing.PrintDocument();
            this.printPreviewDialog1 = new System.Windows.Forms.PrintPreviewDialog();
            this.pageSetupDialog1 = new System.Windows.Forms.PageSetupDialog();
            this.printDialog1 = new System.Windows.Forms.PrintDialog();
            this.buttonPageSetup = new System.Windows.Forms.Button();
            this.buttonPrintPreview = new System.Windows.Forms.Button();
            this.buttonPrint = new System.Windows.Forms.Button();
            this.SuspendLayout();
            //
            // printDocument1
            //
            this.printDocument1.PrintPage += new System.Drawing.Printing.PrintPageEventHandler(this.printDocument1_PrintPage);
            //
            // 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(400, 300);
            this.printPreviewDialog1.Document = this.printDocument1;
            this.printPreviewDialog1.Enabled = true;
            this.printPreviewDialog1.Icon = ((System.Drawing.Icon) (resources.GetObject("printPreviewDialog1.Icon")));
            this.printPreviewDialog1.Name = "printPreviewDialog1";
            this.printPreviewDialog1.UseAntiAlias = true;
            this.printPreviewDialog1.Visible = false;
            //
            // pageSetupDialog1
            //
            this.pageSetupDialog1.Document = this.printDocument1;
        }
    }
}

```

```

//
// printDialog1
//
this.printDialog1.Document = this.printDocument1;
this.printDialog1.UseEXDialog = true;
//
// buttonPageSetup
//
this.buttonPageSetup.Anchor = ((System.Windows.Forms.AnchorStyles)
    | System.Windows.Forms.AnchorStyles.Right);
this.buttonPageSetup.Location = new System.Drawing.Point(12, 11);
this.buttonPageSetup.Name = "buttonPageSetup";
this.buttonPageSetup.Size = new System.Drawing.Size(253, 41);
this.buttonPageSetup.TabIndex = 0;
this.buttonPageSetup.Text = "Page Setup";
this.buttonPageSetup.UseVisualStyleBackColor = true;
this.buttonPageSetup.Click += new System.EventHandler(this.buttonPageSetup_Click);
//
// buttonPrintPreview
//
this.buttonPrintPreview.Anchor = ((System.Windows.Forms.AnchorStyles)
    | System.Windows.Forms.AnchorStyles.Right);
this.buttonPrintPreview.Location = new System.Drawing.Point(12, 11);
this.buttonPrintPreview.Name = "buttonPrintPreview";
this.buttonPrintPreview.Size = new System.Drawing.Size(253, 41);
this.buttonPrintPreview.TabIndex = 1;
this.buttonPrintPreview.Text = "Print Preview";
this.buttonPrintPreview.UseVisualStyleBackColor = true;
this.buttonPrintPreview.Click += new System.EventHandler(this.buttonPrintPreview_Click);
//
// buttonPrint
//
this.buttonPrint.Anchor = ((System.Windows.Forms.AnchorStyles)
    | System.Windows.Forms.AnchorStyles.Right);
this.buttonPrint.Location = new System.Drawing.Point(12, 106);
this.buttonPrint.Name = "buttonPrint";
this.buttonPrint.Size = new System.Drawing.Size(253, 41);
this.buttonPrint.TabIndex = 2;
this.buttonPrint.Text = "Print";
this.buttonPrint.UseVisualStyleBackColor = true;
this.buttonPrint.Click += new System.EventHandler(this.buttonPrint_Click);
//
// Form1
//
this.AutoScaleDimensions = new System.Drawing.SizeF(6F, 13F);
this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;
this.ClientSize = new System.Drawing.Size(277, 161);
this.Controls.Add(this.buttonPrint);
this.Controls.Add(this.buttonPrintPreview);
this.Controls.Add(this.buttonPageSetup);
this.Name = "Form1";
this.Text = "Print PDF";
this.Load += new System.EventHandler(this.Form1_Load);
this.ResumeLayout(false);
}

#endregion

private System.Drawing.Printing.PrintDocument printDocument1;

```

```

private System.Windows.Forms.PrintPreviewDialog printPreviewDialog1;
private System.Windows.Forms.PageSetupDialog pageSetupDialog1;
private System.Windows.Forms.PrintDialog printDialog1;
private System.Windows.Forms.Button buttonPageSetup;
private System.Windows.Forms.Button buttonPrintPreview;
private System.Windows.Forms.Button buttonPrint;
    }
}

```

Form1.cs

```

using System;
using System.Drawing;
using System.Windows.Forms;

using Bytescout.PDFRenderer;

namespace PrintPDF
{
    public partial class Form1 : Form
    {
        private string _document = @"multipage.pdf";
        readonly RasterRenderer _rasterRenderer = null;
        private int _page = 0;

        public Form1()
        {
            InitializeComponent();

            // Create an instance of Bytescout.PDFRenderer.RasterRenderer
            _rasterRenderer = new RasterRenderer();
            _rasterRenderer.RegistrationName = "demo";
            _rasterRenderer.RegistrationKey = "demo";
        }

        private void Form1_Load(object sender, EventArgs e)
        {
            Cursor = Cursors.WaitCursor;

            try
            {
                // Load PDF document
                _rasterRenderer.LoadDocumentFromFile(_document);
            }
            catch (Exception exception)
            {
                MessageBox.Show("Could not open PDF document.\n\n" + ex

```

```

        }
        finally
        {
            Cursor = Cursors.Default;
        }
    }

    private void buttonPageSetup_Click(object sender, EventArgs e)
    {
        // Set landscape orientation if needed
        RectangleF pageRectangle = _rasterRenderer.GetPageRectangle(0);
        if (pageRectangle.Width > pageRectangle.Height)
            pageSetupDialog1.PageSettings.Landscape = true;

        pageSetupDialog1.ShowDialog();
    }

    private void buttonPrintPreview_Click(object sender, EventArgs e)
    {
        _page = 0;
        printPreviewDialog1.Width = 800;
        printPreviewDialog1.Height = 600;
        printPreviewDialog1.ShowDialog();
    }

    private void buttonPrint_Click(object sender, EventArgs e)
    {
        if (printDialog1.ShowDialog() == DialogResult.OK)
        {
            printDocument1.Print();
        }
    }

    private void printDocument1_PrintPage(object sender, System.Drawing.Printing.PrintPageEventArgs e)
    {
        Cursor = Cursors.WaitCursor;

        try
        {
            // For the best quality set the rendering resolution equal to the printer resolution
            float renderingResolution = e.PageSettings.PrinterResolution.X;

            // Render page to image
            using (Image image = _rasterRenderer.GetImage(_page, renderingResolution))
            {
                // Fit image into the print rectangle keeping the aspect ratio
                Rectangle printRect = e.MarginBounds;

                float ratio = printRect.Width / (float) image.Width;
                int width = printRect.Width;
                int height = (int) (image.Height * ratio);

                if (height > printRect.Height)
                {
                    ratio = printRect.Height / (float) image.Height;
                    width = (int) (image.Width * ratio);
                    height = printRect.Height;
                }
            }
        }
    }
}

```

```
        // Draw image on device
        e.Graphics.DrawImage(image, new Rectangle(printRect.X, printRect.Y,
            new Rectangle(0, 0, image.Width, image.Height)), GraphicsUnit.Pixel);
    }

    if (_page < _rasterRenderer.GetPageCount() - 1)
    {
        _page++;
        e.HasMorePages = true;
    }
}
catch (Exception exception)
{
    MessageBox.Show(exception.Message);
}
finally
{
    Cursor = Cursors.Default;
}
}
}
}
```

Program.cs

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

namespace PrintPDF
{
    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=eenh171061A>

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