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How to print pdf with pdf renderer sdk in C# using ByteScout Premium Suite

Step-by-step tutorial on how to print pdf with pdf renderer sdk in C#

ByteScout simple and easy to understand tutorials are planned to describe the code for both C# beginners and advanced programmers. What is ByteScout Premium Suite? It is the bundle that includes twelve SDK products from ByteScout including tools and components for PDF, barcodes, spreadsheets, screen video recording. It can help you to print pdf with pdf renderer sdk in your C# application.

The SDK samples given below describe how to quickly make your application do print pdf with pdf renderer sdk in C# with the help of ByteScout Premium Suite. Just copy and paste the code into your C# application's code and follow the instructions. Want to see how it works with your data then code testing will allow the function to be tested and work properly.

All these programming tutorials along with source code samples and ByteScout free trial version are available for download from our website.

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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.
        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(480, 320);
            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
            // 
            // 
            // buttonPageSetup
            this.buttonPageSetup.Location = new System.Drawing.Point(12, 12);
            this.buttonPageSetup.Name = "buttonPageSetup";
            this.buttonPageSetup.Size = new System.Drawing.Size(75, 23);
            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.Location = new System.Drawing.Point(93, 12);
            this.buttonPrintPreview.Name = "buttonPrintPreview";
            this.buttonPrintPreview.Size = new System.Drawing.Size(75, 23);
            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.Location = new System.Drawing.Point(178, 12);
            this.buttonPrint.Name = "buttonPrint";
            this.buttonPrint.Size = new System.Drawing.Size(75, 23);
            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(480, 320);
            this.Controls.Add(this.buttonPrint);
            this.Controls.Add(this.buttonPrintPreview);
            this.Controls.Add(this.buttonPageSetup);
            this.Name = "Form1";
            this.Text = "Form1";
            this.ResumeLayout(false);
        }

        #endregion
    }
}
```

```

        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, 128);
        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, 171);
        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, 214);
        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.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" + e);
    }
    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.Pr
{
    Cursor = Cursors.WaitCursor;

    try
    {
        // For the best quality set the rendering resolution equal to 100
        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=NEwNs2b9YN8>

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