

## slice PDF by horizontal lines inside in C# and ByteScout PDF Suite

Learn to code in C# to make slice PDF by horizontal lines inside with this simple How-To tutorial

These sample source codes given below will show you how to handle a complex task, for example, slice PDF by horizontal lines inside in C#. ByteScout PDF Suite was created to assist slice PDF by horizontal lines inside in C#. ByteScout PDF Suite is the set that includes 6 SDK products to work with PDF from generating rich PDF reports to extracting data from PDF documents and converting them to HTML. This bundle includes PDF (Generator) SDK, PDF Renderer SDK, PDF Extractor SDK, PDF to HTML SDK, PDF Viewer SDK and PDF Generator SDK for Javascript.

This rich and prolific sample source code in C# for ByteScout PDF Suite contains various functions and options you should do calling the API to implement slice PDF by horizontal lines inside. Just copy and paste this C# sample code to your C# application's code editor, add a reference to ByteScout PDF Suite (if you haven't added yet) and you are ready to go! C# application implementation mostly involves various stages of the software development so even if the functionality works please check it with your data and the production environment.

On our website you may get trial version of ByteScout PDF Suite for free. Source code samples are included to help you with your C# application.

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Source Code Files:

```
using System;
using System.Drawing;
using System.IO;
using Bytescout.PDF;
using Bytescout.PDFExtractor;
using Bytescout.PDFRenderer;
using Image = System.Drawing.Image;
using Path = System.IO.Path;

namespace SlicePdfByLinesExample
{
    /// <summary>
    /// The example demonstrates slicing of PDF document pages by horizontal lines.
    /// The example uses three products:
    /// - PDF Extractor SDK (https://bytescout.com/products/developer/pdfextractorsdk/)
    ///   to detect lines;
    /// - PDF Renderer SDK (https://bytescout.com/products/developer/pdfrenderersdk/index.html)
    ///   to render PDF documents to raster images;
    /// - PDF SDK (https://bytescout.com/products/developer/pdfsdk/index.html) -
    ///   to create new PDF documents from sliced images.
    /// </summary>
    class Program
    {
        static string InputFile = @".\sample.pdf";
        static string OutputFolder = @".\output";

        static void Main(string[] args)
        {
            if (!Directory.Exists(OutputFolder))
                Directory.CreateDirectory(OutputFolder);

            // Create LineDetector instance and load document
            LineDetector lineDetector = new LineDetector("demo", "demo");
            lineDetector.LoadDocumentFromFile(InputFile);

            // Create RasterRenderer instance and load document
            RasterRenderer rasterRenderer = new RasterRenderer("demo", "demo");
            rasterRenderer.LoadDocumentFromFile(InputFile);

            try
            {
                int pageCount = lineDetector.GetPageCount();

                for (int pageIndex = 0; pageIndex < pageCount; pageIndex++)
                {
                    Console.WriteLine("Processing page #{0}", pageIndex);

                    // Find horizontal lines on the page
                    FoundLinesCollection horzLines = lineDetector.FindLines(pageIndex,
                    // Slice page by separating lines and create new PDF documents
                    Slice(pageIndex, horzLines, rasterRenderer);
                }
            }
        }
    }
}
```

```

    }
    catch (Exception exception)
    {
        Console.WriteLine(exception);
    }
    finally
    {
        // Cleanup
        rasterRenderer.Dispose();
        lineDetector.Dispose();
    }

    Console.WriteLine();
    Console.WriteLine("Press any key...");
    Console.ReadKey();
}

static void Slice(int pageIndex, FoundLinesCollection lines, RasterRenderer rasterRenderer)
{
    const float pdfRenderingResolution = 300;
    float lastLineY = float.NaN;
    int sliceNum = 0;

    RectangleF pageRect = rasterRenderer.GetPageRectangle(pageIndex);

    foreach (FoundLine line in lines)
    {
        if (float.IsNaN(lastLineY))
        {
            lastLineY = line.From.Y;
        }
        else
        {
            // Compute slice rectangle
            RectangleF sliceRect = new RectangleF(0, lastLineY, pageRect.Width,
            // Set extraction rectangle for RasterRenderer
            rasterRenderer.SetExtractionArea(sliceRect);
            // Render the page region to Image object
            Image slice = rasterRenderer.GetImage(pageIndex, pdfRenderingResolution);

            // Create PDF document
            Document document = new Document
            {
                RegistrationName = "demo",
                RegistrationKey = "demo"
            };

            // Create page of A4 size
            Page page = new Page(PaperFormat.A4);
            document.Pages.Add(page);

            // Create PDF Image object from System.Drawing.Image
            Bytescout.PDF.Image pdfImage = new Bytescout.PDF.Image(slice);
            // Draw image on the page keeping the aspect ratio
            RectangleF r = new RectangleF(0, 20, page.Width, page.Width / slice.Width);
            page.Canvas.DrawImage(pdfImage, r.Left, r.Top, r.Width, r.Height);

            // Save PDF document
            string fileName = string.Format(@"{0}\{1}-page{2}-slice{3}.pdf", 0, 1, 2, 3);

```



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VIDEO

<https://www.youtube.com/watch?v=NEwNs2b9YN8>

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