

## How to convert scanned PDF to CSV with PDF extractor SDK in C# and ByteScout Premium Suite

If you want to learn more then this tutorial will show how to convert scanned PDF to CSV with PDF extractor SDK in C#

The sample source code below will teach you how to convert scanned PDF to CSV with PDF extractor 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. It can be applied to convert scanned PDF to CSV with PDF extractor SDK using C#.

Want to quickly learn? This fast application programming interfaces of ByteScout Premium Suite for C# plus the guidelines and the code below will help you quickly learn how to convert scanned PDF to CSV with PDF extractor SDK. Follow the instructions from scratch to work and copy the C# code. If you want to use these C# sample examples in one or many applications then they can be used easily.

ByteScout provides the free trial version of ByteScout Premium Suite along with the documentation and source code samples.

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Source Code Files:

```
using System.Diagnostics;
using Bytescout.PDFExtractor;

// This example demonstrates the use of Optical Character Recognition (OCR) to extract
// from scanned PDF documents and raster images.

// To make OCR work you should add the following references to your project:
// 'Bytescout.PDFExtractor.dll', 'Bytescout.PDFExtractor.OCRExtension.dll'.

namespace ScannedPdfToCSV
{
    class Program
    {
        static void Main(string[] args)
        {
            // Create Bytescout.PDFExtractor.CSVExtractor instance
            CSVExtractor extractor = new CSVExtractor();
            extractor.RegistrationName = "demo";
            extractor.RegistrationKey = "demo";

            // Load sample PDF document
            extractor.LoadDocumentFromFile("sample_ocr.pdf");

            // Enable Optical Character Recognition (OCR)
            // in .Auto mode (SDK automatically checks if needs to use OCR or not)
            extractor.OCRMode = OCRMode.Auto;

            // Set the location of OCR language data files
            extractor.OCRLanguageDataFolder = @"c:\Program Files\Bytescout PDF Extractor";

            // Set OCR language
            extractor.OCRLanguage = "eng"; // "eng" for english, "deu" for German, "fre" for French
            // Find more language files at https://github.com/bytescout/ocrdata

            // Set PDF document rendering resolution
            extractor.OCRResolution = 300;

            // You can also apply various preprocessing filters
            // to improve the recognition on low-quality scans.

            // Automatically deskew skewed scans
            //extractor.OCRImagePreprocessingFilters.AddDeskew();

            // Remove vertical or horizontal lines (sometimes helps to avoid OCR engine)
            //extractor.OCRImagePreprocessingFilters.AddVerticalLinesRemover();
            //extractor.OCRImagePreprocessingFilters.AddHorizontalLinesRemover();

            // Repair broken letters
            //extractor.OCRImagePreprocessingFilters.AddDilate();

            // Remove noise
            //extractor.OCRImagePreprocessingFilters.AddMedian();

            // Apply Gamma Correction
```

```
//extractor.OCRImagePreprocessingFilters.AddGammaCorrection();

// Add Contrast
//extractor.OCRImagePreprocessingFilters.AddContrast(20);

// (!) You can use new OCRAnalyser class to find an optimal set of image p
// filters for your specific document.
// See "OCR Analyser" example.

// Save extracted text to file
extractor.SaveCSVToFile("output.csv");

// Cleanup
extractor.Dispose();

// Open result document in default associated application (for demo purpos
ProcessStartInfo processStartInfo = new ProcessStartInfo("output.csv");
processStartInfo.UseShellExecute = true;
Process.Start(processStartInfo);
    }
}
}
```

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## VIDEO

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

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