

## scanned PDF to XML in C# using ByteScout PDF Extractor SDK

### How To: tutorial on scanned PDF to XML in C#

The sample source codes on this page will demonstrate you how to make scanned PDF to XML in C#. ByteScout PDF Extractor SDK was made to help with scanned PDF to XML in C#. ByteScout PDF Extractor SDK is the SDK that helps developers to extract data from unstructured documents, pdf, images, scanned and electronic forms. Includes AI functions like automatic table detection, automatic table extraction and restructuring, text recognition and text restoration from pdf and scanned documents. Includes PDF to CSV, PDF to XML, PDF to JSON, PDF to searchable PDF functions as well as methods for low level data extraction.

C#, code samples for C#, developers help to speed up the application development and writing a code when using ByteScout PDF Extractor SDK. Follow the instruction from the scratch to work and copy and paste code for C# into your editor. Enjoy writing a code with ready-to-use sample C# codes to add scanned PDF to XML functions using ByteScout PDF Extractor SDK in C#.

Trial version can be downloaded from our website. Source code samples for C# and documentation are included.

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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 ScannedPdfToXML
{
    class Program
    {
        static void Main(string[] args)
        {
            // Create Bytescout.PDFExtractor.XMLExtractor instance
            XMLExtractor extractor = new XMLExtractor();
            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.SaveXMLToFile("output.xml");

// Cleanup
extractor.Dispose();

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

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## VIDEO

[https://www.youtube.com/watch?v=s28W3\\_KMrU](https://www.youtube.com/watch?v=s28W3_KMrU)

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