

parallel barcode decoding in C# and ByteScout BarCode Reader SDK

Make parallel barcode decoding in C#

:

Tutorial on how to do parallel barcode decoding in C#

The documentation is designed to help you to implement the features on your side. ByteScout BarCode Reader SDK helps with parallel barcode decoding in C#. ByteScout BarCode Reader SDK is the barcode decoder with support for code 39, code 128, QR Code, Datamatrix, GS1, PDF417 and all other popular barcodes. Can read barcodes from images, pdf, tiff documents and live web camera. Supports noisy and damaged documents, can split and merge pdf and tiff documents based on barcodes. Can export barcode decoder results to XML, JSON, CSV and into custom data structures.

This rich sample source code in C# for ByteScout BarCode Reader SDK includes the number of functions and options you should do calling the API to implement parallel barcode decoding. To do parallel barcode decoding in your C# project or application you may simply copy & paste the code and then run your app! Test C# sample code examples whether they respond your needs and requirements for the project.

Visit our website provides for free trial version of ByteScout BarCode Reader SDK. Free trial includes lots of source code samples to help you with your C# project.

FOR MORE INFORMATION AND FREE TRIAL:

[Download Free Trial SDK \(on-premise version\)](#)

[Read more about ByteScout BarCode Reader SDK](#)

[Explore API Documentation](#)

[Get Free Training for ByteScout BarCode Reader SDK](#)

[Get Free API key for Web API](#)

[visit www.Bytescout.com](http://www.Bytescout.com)

Source Code Files:

Program.cs

```
using System;
using System.IO;
using System.Threading;
using Bytescout.BarCodeReader;

namespace ParallelDecoding
{
    class Program
    {
        const string InputFile = @"..\example.pdf";

        // Limit to 4 threads in queue.
        // Set this value to number of your processor cores for max performance.
        private static readonly Semaphore ThreadLimiter = new Semaphore(4, 4);

        static void Main()
        {
            const int numberOfRuns = 10;
            ManualResetEvent[] doneEvents = new ManualResetEvent[numberOfRuns];

            for (int i = 0; i < numberOfRuns; i++)
            {
                // Wait for the queue
                ThreadLimiter.WaitOne();

                doneEvents[i] = new ManualResetEvent(false);

                ThreadPool.QueueUserWorkItem(new WaitCallback(delegate(object state)
                {
                    int threadIndex = (int) state;

                    Console.WriteLine("Thread #" + threadIndex + " started...");

                    try
                    {
                        Reader reader = new Reader();
                        reader.RegistrationName = "demo";
                        reader.RegistrationKey = "demo";

                        // Set barcode type to find
                        reader.BarcodeTypesToFind.Code128 = true;

                        /* -----
                        NOTE: We can read barcodes from specific page to increase performance.
                        For sample please refer to "Decoding barcodes from PDF by pages"
                        ----- */

                        // Read barcodes
                        FoundBarcode[] barcodes = reader.ReadFrom(InputFile);
```

```
        Console.WriteLine("Thread #" + threadIndex + " finished with "
                           // Cleanup
                           reader.Dispose());
    }
    catch (Exception exception)
    {
        Console.WriteLine("Thread #" + threadIndex + " failed with exc
    }
    finally
    {
        // Signal the thread is finished
        doneEvents[threadIndex].Set();

        // Release semaphore
        ThreadLimiter.Release();
    }
    }, i);
}

WaitHandle.WaitAll(doneEvents);

Console.WriteLine("All threads done.");
Console.WriteLine();

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

VIDEO

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

ON-PREMISE OFFLINE SDK

[60 Day Free Trial](#) or [Visit ByteScout BarCode Reader SDK Home Page](#)
[Explore ByteScout BarCode Reader SDK Documentation](#)
[Explore Samples](#)
[Sign Up for ByteScout BarCode Reader SDK Online Training](#)

ON-DEMAND REST WEB API

[Get Your API Key](#)
[Explore Web API Docs](#)
[Explore Web API Samples](#)

[visit www.Bytescout.com](http://www.Bytescout.com)

[visit www.PDF.co](http://www.PDF.co)

www.bytescout.com