

How to set barcode decoding profiles in C# using ByteScout BarCode Reader SDK

How to set barcode decoding profiles in C#

Every ByteScout tool contains example C# source codes that you can find here or in the folder with installed ByteScout product. ByteScout BarCode Reader SDK is the SDK for barcode decoding. Can read all popular types from Code 128, GS1, UPC and Code 39 to QR Code, Datamatrix, PDF417. Images, pdf, TIF images and live web camera are supported as input. Designed to handle documents with noise and defects. Includes optional splitter and merger for pdf and tiff based on barcodes. Batch mode is optimized for high performance with multiple threads. Decoded values can be exported to XML, JSON, CSV or into custom data format. It can be used to set barcode decoding profiles using C#.

You will save a lot of time on writing and testing code as you may just take the C# code from ByteScout BarCode Reader SDK for set barcode decoding profiles below and use it in your application. In your C# project or application you may simply copy & paste the code and then run your app! Further enhancement of the code will make it more vigorous.

Download free trial version of ByteScout BarCode Reader SDK from our website with this and other source code samples for C#.

Profiles.NETCore.csproj

```
<?xml version="1.0" encoding="utf-8"?>
<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <TargetFramework>netcoreapp2.0</TargetFramework>
    <EnableDefaultCompileItems>>false</EnableDefaultCompileItems>
    <GenerateAssemblyCompanyAttribute>>false</GenerateAssemblyCompanyAttribute>
    <GenerateAssemblyConfigurationAttribute>>false</GenerateAssemblyConfigurationAttribute>
    <GenerateAssemblyFileVersionAttribute>>false</GenerateAssemblyFileVersionAttribute>
    <GenerateAssemblyInformationalVersionAttribute>>false</GenerateAssemblyInformationalVersionAttribute>
    <GenerateAssemblyProductAttribute>>false</GenerateAssemblyProductAttribute>
    <GenerateAssemblyTitleAttribute>>false</GenerateAssemblyTitleAttribute>
    <GenerateAssemblyVersionAttribute>>false</GenerateAssemblyVersionAttribute>
    <GenerateAssemblyCopyrightAttribute>>false</GenerateAssemblyCopyrightAttribute>
    <GenerateAssemblyTrademarkAttribute>>false</GenerateAssemblyTrademarkAttribute>
    <GenerateAssemblyCultureAttribute>>false</GenerateAssemblyCultureAttribute>
    <GenerateAssemblyDescriptionAttribute>>false</GenerateAssemblyDescriptionAttribute>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
  </ItemGroup>
</Project>
```

```

<None Include="profiles.json">
  <CopyToOutputDirectory>Always</CopyToOutputDirectory>
</None>
<None Include="sample2.png">
  <CopyToOutputDirectory>Always</CopyToOutputDirectory>
</None>
<None Include="sample1.pdf">
  <CopyToOutputDirectory>Always</CopyToOutputDirectory>
</None>
</ItemGroup>
<ItemGroup>
  <PackageReference Include="Microsoft.Windows.Compatibility" Version="2.0.0" />
</ItemGroup>
<ItemGroup>
  <Reference Include="Bytescout.BarCodeReader">
    <SpecificVersion>False</SpecificVersion>
    <HintPath>c:\Program Files\Bytescout BarCode Reader SDK\netcoreapp2.0\Bytescout.BarCodeReader.dll</HintPath>
  </Reference>
</ItemGroup>
</Project>

```

Profiles.VS2005.csproj

```

<Project DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
  <PropertyGroup>
    <Configuration Condition="'$(Configuration)' == ''">Debug</Configuration>
    <Platform Condition="'$(Platform)' == ''">AnyCPU</Platform>
    <ProductVersion>8.0.50727</ProductVersion>
    <SchemaVersion>2.0</SchemaVersion>
    <ProjectGuid>{25E68A98-BA0D-428D-99F4-0ED8C42DD41C}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>Profiles</RootNamespace>
    <AssemblyName>Profiles</AssemblyName>
  </PropertyGroup>
  <PropertyGroup Condition="'$(Configuration)|$(Platform)' == 'Debug|AnyCPU' ">
    <DebugSymbols>>true</DebugSymbols>
    <DebugType>full</DebugType>
    <Optimize>>false</Optimize>
    <OutputPath>bin\Debug\</OutputPath>
    <DefineConstants>DEBUG;TRACE</DefineConstants>
    <ErrorReport>prompt</ErrorReport>
    <WarningLevel>4</WarningLevel>
  </PropertyGroup>
  <PropertyGroup Condition="'$(Configuration)|$(Platform)' == 'Release|AnyCPU' ">
    <DebugType>pdbonly</DebugType>
    <Optimize>>true</Optimize>
    <OutputPath>bin\Release\</OutputPath>
    <DefineConstants>TRACE</DefineConstants>
    <ErrorReport>prompt</ErrorReport>
    <WarningLevel>4</WarningLevel>
  </PropertyGroup>

```

```

<ItemGroup>
  <Reference Include="Bytescout.BarCodeReader, Version=8.70.0.1587, Culture=neutral,
    <SpecificVersion>False</SpecificVersion>
    <HintPath>C:\Program Files\Bytescout BarCode Reader SDK\net2.00\Bytescout.BarCode
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Drawing" />
  <Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
</ItemGroup>
<ItemGroup>
  <Content Include="profiles.json">
    <CopyToOutputDirectory>Always</CopyToOutputDirectory>
  </Content>
  <Content Include="sample2.png">
    <CopyToOutputDirectory>Always</CopyToOutputDirectory>
  </Content>
</ItemGroup>
<ItemGroup>
  <Content Include="sample1.pdf">
    <CopyToOutputDirectory>Always</CopyToOutputDirectory>
  </Content>
</ItemGroup>
<Import Project="$(MSBuildBinPath)\Microsoft.CSharp.targets" />
<!-- To modify your build process, add your task inside one of the targets below and
  Other similar extension points exist, see Microsoft.Common.targets.
<Target Name="BeforeBuild">
</Target>
<Target Name="AfterBuild">
</Target>
-->
</Project>

```

Profiles.VS2008.csproj

```

<Project DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/2003"
  <PropertyGroup>
    <Configuration Condition="'$(Configuration)' == ''">Debug</Configuration>
    <Platform Condition="'$(Platform)' == ''">AnyCPU</Platform>
    <ProductVersion>9.0.21022</ProductVersion>
    <SchemaVersion>2.0</SchemaVersion>
    <ProjectGuid>{25E68A98-BA0D-428D-99F4-0ED8C42DD41C}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>Profiles</RootNamespace>
    <AssemblyName>Profiles</AssemblyName>
    <OldToolsVersion>2.0</OldToolsVersion>
    <TargetFrameworkVersion>v3.5</TargetFrameworkVersion>
  </PropertyGroup>

```

```

<PropertyGroup Condition=" '$(Configuration)|$(Platform)' == 'Debug|AnyCPU' ">
  <DebugSymbols>>true</DebugSymbols>
  <DebugType>full</DebugType>
  <Optimize>>false</Optimize>
  <OutputPath>bin\Debug\</OutputPath>
  <DefineConstants>DEBUG;TRACE</DefineConstants>
  <ErrorReport>prompt</ErrorReport>
  <WarningLevel>4</WarningLevel>
</PropertyGroup>
<PropertyGroup Condition=" '$(Configuration)|$(Platform)' == 'Release|AnyCPU' ">
  <DebugType>pdbonly</DebugType>
  <Optimize>>true</Optimize>
  <OutputPath>bin\Release\</OutputPath>
  <DefineConstants>TRACE</DefineConstants>
  <ErrorReport>prompt</ErrorReport>
  <WarningLevel>4</WarningLevel>
</PropertyGroup>
<ItemGroup>
  <Reference Include="Bytescout.BarCodeReader, Version=8.70.0.1587, Culture=neutral,
    <SpecificVersion>False</SpecificVersion>
    <HintPath>C:\Program Files\Bytescout BarCode Reader SDK\net2.00\Bytescout.BarCode
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Drawing" />
  <Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
</ItemGroup>
<ItemGroup>
  <Content Include="profiles.json">
    <CopyToOutputDirectory>Always</CopyToOutputDirectory>
  </Content>
  <Content Include="sample2.png">
    <CopyToOutputDirectory>Always</CopyToOutputDirectory>
  </Content>
</ItemGroup>
<ItemGroup>
  <Content Include="sample1.pdf">
    <CopyToOutputDirectory>Always</CopyToOutputDirectory>
  </Content>
</ItemGroup>
<Import Project="$(MSBuildToolsPath)\Microsoft.CSharp.targets" />
<!-- To modify your build process, add your task inside one of the targets below and
  Other similar extension points exist, see Microsoft.Common.targets.
<Target Name="BeforeBuild">
</Target>
<Target Name="AfterBuild">
</Target>
-->
</Project>

```

```

<?xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/2003"
  <PropertyGroup>
    <Configuration Condition="'$(Configuration)' == ''">Debug</Configuration>
    <Platform Condition="'$(Platform)' == ''">AnyCPU</Platform>
    <ProductVersion>
    </ProductVersion>
    <SchemaVersion>2.0</SchemaVersion>
    <ProjectGuid>{25E68A98-BA0D-428D-99F4-0ED8C42DD41C}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>Profiles</RootNamespace>
    <AssemblyName>Profiles</AssemblyName>
    <OldToolsVersion>3.5</OldToolsVersion>
    <TargetFrameworkVersion>v4.0</TargetFrameworkVersion>
  </PropertyGroup>
  <PropertyGroup Condition="'$(Configuration)|$(Platform)' == 'Debug|AnyCPU' ">
    <DebugSymbols>>true</DebugSymbols>
    <DebugType>full</DebugType>
    <Optimize>>false</Optimize>
    <OutputPath>bin\Debug\</OutputPath>
    <DefineConstants>DEBUG;TRACE</DefineConstants>
    <ErrorReport>prompt</ErrorReport>
    <WarningLevel>4</WarningLevel>
  </PropertyGroup>
  <PropertyGroup Condition="'$(Configuration)|$(Platform)' == 'Release|AnyCPU' ">
    <DebugType>pdbonly</DebugType>
    <Optimize>>true</Optimize>
    <OutputPath>bin\Release\</OutputPath>
    <DefineConstants>TRACE</DefineConstants>
    <ErrorReport>prompt</ErrorReport>
    <WarningLevel>4</WarningLevel>
  </PropertyGroup>
  <ItemGroup>
    <Reference Include="Bytescout.BarCodeReader, Version=8.70.0.1587, Culture=neutral,
      <SpecificVersion>False</SpecificVersion>
      <HintPath>C:\Program Files\Bytescout BarCode Reader SDK\net2.00\Bytescout.BarCodeReader.dll" />
    </Reference>
    <Reference Include="System" />
    <Reference Include="System.Data" />
    <Reference Include="System.Drawing" />
    <Reference Include="System.Xml" />
  </ItemGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
  </ItemGroup>
  <ItemGroup>
    <Content Include="profiles.json">
      <CopyToOutputDirectory>Always</CopyToOutputDirectory>
    </Content>
    <Content Include="sample2.png">
      <CopyToOutputDirectory>Always</CopyToOutputDirectory>
    </Content>
  </ItemGroup>
  <ItemGroup>
    <Content Include="sample1.pdf">
      <CopyToOutputDirectory>Always</CopyToOutputDirectory>
    </Content>
  </ItemGroup>

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```

<Import Project="$(MSBuildToolsPath)\Microsoft.CSharp.targets" />
<!-- To modify your build process, add your task inside one of the targets below and
      Other similar extension points exist, see Microsoft.Common.targets.
<Target Name="BeforeBuild">
</Target>
<Target Name="AfterBuild">
</Target>
-->
</Project>

```

Program.cs

```

using System;
using Bytescout.BarCodeReader;

namespace Profiles
{
    /// <summary>
    /// This example demonstrates the use of profiles. Profiles are set of properties
    /// allowing to apply them to Reader in any combination quickly. You can use
    /// predefined profiles or create you own in JSON format like in this example.
    /// </summary>
    class Program
    {
        static void Main(string[] args)
        {
            // Create Bytescout.BarCodeReader.Reader instance
            using (Reader reader = new Reader())
            {
                reader.RegistrationName = "demo";
                reader.RegistrationKey = "demo";

                // Apply predefined profiles:
                // enable Code39;
                // enable EAN-13;
                // render PDF at 150 DPI resolution.
                reader.Profiles = "code39, ean13, pdf150dpi";

                // Decode and show barcodes from sample1.pdf
                reader.ReadFrom("sample1.pdf");
                foreach (FoundBarcode foundBarcode in reader.FoundBarcodes)
                    Console.WriteLine("Found \"{0}\" barcode with value \"{1}\"", foundBarcode.RegistrationName, foundBarcode.Value);
            }

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

                // Load and apply custom profiles
                reader.LoadProfiles("profiles.json");
            }
        }
    }
}

```

```
        reader.Profiles = "negative-distorted-datamatrix";

        // Decode and show barcodes from sample2.png
        reader.ReadFrom("sample2.png");
        foreach (FoundBarcode foundBarcode in reader.FoundBarcodes)
            Console.WriteLine("Found \"{0}\" barcode with value \"{1}\"");
    }

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

FOR MORE INFORMATION AND FREE TRIAL:

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

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