

# How to read barcodes from PDF in ASP.NET MVC C# with ByteScout BarCode Reader SDK

## How to read barcodes from PDF in ASP.NET MVC C#

This sample source code below will demonstrate you how to read barcodes from PDF in ASP.NET MVC C#. 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 read barcodes from PDF using ASP.NET MVC C#.

You will save a lot of time on writing and testing code as you may just take the ASP.NET MVC C# code from ByteScout BarCode Reader SDK for read barcodes from PDF below and use it in your application. This ASP.NET MVC C# sample code is all you need for your app. Just copy and paste the code, add references (if needs to) and you are all set! Code testing will allow the function to be tested and work properly with your data.

Trial version of ByteScout BarCode Reader SDK is available for free. Source code samples are included to help you with your ASP.NET MVC C# app.

Default.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="WebBarcodeReaderTester.Default" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" >
<head runat="server">
<title>Web Barcode Reader Tester (C#)</title>
</head>
<body>
<form id="form1" runat="server">
<div>
Click browse button to upload a PDF document<br />
<asp:FileUpload ID="FileUpload1" runat="server" /><br />
<br />
<asp:Button id="UploadButton"
Text="Upload file"
OnClick="UploadButton_Click"
runat="server">
</asp:Button>
</div>
</form>
</body>
</html>
```

```

        <br />
    <br />
    <asp:Label id="UploadStatusLabel" Text="" runat="server"></asp:Label>
    <br />
    <asp:ListBox ID="ListBox1" runat="server" Visible="False"></asp:ListBox><br />
    <br />
    </div>
</form>
</body>
</html>

```

Default.aspx.cs

```

using System;
using Bytescout.BarCodeReader;

namespace WebTestSharp
{
    public partial class _Default : System.Web.UI.Page
    {
        protected void UploadButton_Click(object sender, EventArgs e)
        {
            String savePath = @"\uploads\";

            if (FileUpload1.HasFile)
            {
                String fileName = FileUpload1.FileName;
                savePath += fileName;
                FileUpload1.SaveAs(Server.MapPath(savePath));

                Reader barcodeReader = new Reader();

                // Limit search to 1D barcodes only (exclude 2D barcodes)
                // Change to barcodeReader.BarcodeTypesToFind.SetAll()
                // or select specific type, e.g. barcodeReader.BarcodeTypesToFind.SetAll1D();
                barcodeReader.BarcodeTypesToFind.SetAll1D();

                // reader.MediumTrustLevelCompatible = true; // uncomment
                UploadStatusLabel.Visible = false;

                ListBox1.Items.Clear();
                ListBox1.Visible = true;
                ListBox1.Items.Add("Reading barcode(s) from PDF file \");

                FoundBarcode[] barcodes = barcodeReader.ReadFrom(Server.MapPath(savePath));

                if (barcodes.Length == 0)
                {
                    ListBox1.Items.Add("No barcodes found");
                }
            }
        }
    }
}

```

```
        else
        {
            foreach (FoundBarcode barcode in barcodes)
            {
                ListBox1.Items.Add(String.Format("Found barcode with type '{0}' and value '{1}'\n", barcode.Type, barcode.Value));
            }
        }
    else
    {
        // Notify the user that a file was not uploaded.
        UploadStatusLabel.Text = "You did not specify a file to upload."
    }
}
}
}
```

Default.aspx.designer.cs

```
//-----  
// <auto-generated>  
// This code was generated by a tool.  
// Runtime Version:2.0.50727.4927  
//  
// Changes to this file may cause incorrect behavior and will be lost if  
// the code is regenerated.  
// </auto-generated>  
//-----  
namespace WebTestSharp {  
  
    /// <summary>  
    /// _Default class.  
    /// </summary>  
    /// <remarks>  
    /// Auto-generated class.  
    /// </remarks>  
    public partial class _Default {  
  
        /// <summary>  
        /// form1 control.  
        /// </summary>  
        /// <remarks>  
        /// Auto-generated field.  
        /// To modify move field declaration from designer file to code-behind file.  
        /// </remarks>  
        protected global::System.Web.UI.HtmlControls.HtmlForm form1;  
  
        /// <summary>
```

```

    /// FileUpload1 control.
    /// </summary>
    /// <remarks>
    /// Auto-generated field.
    /// To modify move field declaration from designer file to code-behind file.
    /// </remarks>
    protected global::System.Web.UI.WebControls.FileUpload FileUpload1;

    /// <summary>
    /// UploadButton control.
    /// </summary>
    /// <remarks>
    /// Auto-generated field.
    /// To modify move field declaration from designer file to code-behind file.
    /// </remarks>
    protected global::System.Web.UI.WebControls.Button UploadButton;

    /// <summary>
    /// UploadStatusLabel control.
    /// </summary>
    /// <remarks>
    /// Auto-generated field.
    /// To modify move field declaration from designer file to code-behind file.
    /// </remarks>
    protected global::System.Web.UI.WebControls.Label UploadStatusLabel;

    /// <summary>
    /// ListBox1 control.
    /// </summary>
    /// <remarks>
    /// Auto-generated field.
    /// To modify move field declaration from designer file to code-behind file.
    /// </remarks>
    protected global::System.Web.UI.WebControls.ListBox ListBox1;
}
}

```

## Web.config

```

<?xml version="1.0"?>
<configuration>
  <appSettings/>
  <connectionStrings/>

  <system.web>
    <!--
      Set compilation debug="true" to insert debugging
      symbols into the compiled page. Because this

```

```

affects performance, set this value to true only
during development.
-->
<compilation debug="true" />
<!--
The <authentication> section enables configuration
of the security authentication mode used by
ASP.NET to identify an incoming user.
-->
<authentication mode="Windows" />
<!--
The <customErrors> section enables configuration
of what to do if/when an unhandled error occurs
during the execution of a request. Specifically,
it enables developers to configure html error pages
to be displayed in place of a error stack trace.

<customErrors mode="RemoteOnly" defaultRedirect="GenericErrorPage.htm">
  <error statusCode="403" redirect="NoAccess.htm" />
  <error statusCode="404" redirect="FileNotFound.htm" />
</customErrors>
-->
</system.web>
</configuration>

```

## WebTestSharp.csproj

```

<?xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/2003"
  <Import Project="$(MSBuildExtensionsPath)\$(MSBuildToolsVersion)\Microsoft.Common.props"
  <PropertyGroup>
    <Configuration Condition="'$(Configuration)' == ''">Debug</Configuration>
    <Platform Condition="'$(Platform)' == ''">AnyCPU</Platform>
    <ProductVersion>
    </ProductVersion>
    <SchemaVersion>2.0</SchemaVersion>
    <ProjectGuid>{89D5C9FF-5F99-473B-897A-6854A46C9BDA}</ProjectGuid>
    <ProjectTypeGuids>{349c5851-65df-11da-9384-00065b846f21};{fae04ec0-301f-11d3-bf4b-00c04fd709a2}</ProjectTypeGuids>
    <OutputType>Library</OutputType>
    <AppDesignerFolder>Properties</AppDesignerFolder>
    <RootNamespace>WebTestSharp</RootNamespace>
    <AssemblyName>WebTestSharp</AssemblyName>
    <OldToolsVersion>4.0</OldToolsVersion>
    <TargetFrameworkVersion>v4.0</TargetFrameworkVersion>
    <FileUpgradeFlags>
    </FileUpgradeFlags>
    <UpgradeBackupLocation />
  </PropertyGroup>
  <PropertyGroup Condition="'$(Configuration)|$(Platform)' == 'Debug|AnyCPU' ">
    <DebugSymbols>true</DebugSymbols>

```

```

<DebugType>full</DebugType>
<Optimize>>false</Optimize>
<OutputPath>bin\</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\</OutputPath>
  <DefineConstants>TRACE</DefineConstants>
  <ErrorReport>prompt</ErrorReport>
  <WarningLevel>4</WarningLevel>
</PropertyGroup>
<PropertyGroup Condition="'$(Configuration)|$(Platform)' == 'Release %28full%29|AnyC
  <OutputPath>bin\</OutputPath>
  <DefineConstants>TRACE</DefineConstants>
  <Optimize>>true</Optimize>
  <DebugType>pdbonly</DebugType>
  <PlatformTarget>AnyCPU</PlatformTarget>
  <ErrorReport>prompt</ErrorReport>
</PropertyGroup>
<ItemGroup>
  <Reference Include="Bytescout.BarCodeReader, Version=1.0.0.0, Culture=neutral, Pub
  <HintPath>C:\Program Files\Bytescout BarCode Reader SDK\net4.00\Bytescout.BarCodeR
    <SpecificVersion>False</SpecificVersion>
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Drawing" />
  <Reference Include="System.Web" />
  <Reference Include="System.Xml" />
  <Reference Include="System.Configuration" />
  <Reference Include="System.Web.Services" />
  <Reference Include="System.EnterpriseServices" />
  <Reference Include="System.Web.Mobile" />
</ItemGroup>
<ItemGroup>
  <Content Include="Default.aspx" />
  <Content Include="Web.config" />
</ItemGroup>
<ItemGroup>
  <Compile Include="Default.aspx.cs">
    <SubType>ASPXCodeBehind</SubType>
    <DependentUpon>Default.aspx</DependentUpon>
  </Compile>
  <Compile Include="Default.aspx.designer.cs">
    <DependentUpon>Default.aspx</DependentUpon>
  </Compile>
  <Compile Include="Properties\AssemblyInfo.cs" />
</ItemGroup>
<PropertyGroup>
  <VisualStudioVersion Condition="'$(VisualStudioVersion)' == ''>10.0</VisualStudio
  <VSToolsPath Condition="'$(VSToolsPath)' == ''>$(MSBuildExtensionsPath32)\Microso
</PropertyGroup>
<Import Project="$(MSBuildToolsPath)\Microsoft.CSharp.targets" />
<Import Project="$(VSToolsPath)\WebApplications\Microsoft.WebApplication.targets" Co
<Import Project="$(MSBuildExtensionsPath32)\Microsoft\VisualStudio\v10.0\WebApplicat
<!-- 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>
-->
<ProjectExtensions>
  <VisualStudio>
    <FlavorProperties GUID="{349c5851-65df-11da-9384-00065b846f21}">
      <WebProjectProperties>
        <UseIIS>False</UseIIS>
        <AutoAssignPort>True</AutoAssignPort>
        <DevelopmentServerPort>8080</DevelopmentServerPort>
        <DevelopmentServerVPath>/</DevelopmentServerVPath>
        <IISUrl>
        </IISUrl>
        <NTLMAuthentication>True</NTLMAuthentication>
      </WebProjectProperties>
    </FlavorProperties>
  </VisualStudio>
</ProjectExtensions>
</Project>
```

---

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