

## How to generate barcode in ASP with barcode SDK in ASP.NET C# and ByteScout Barcode Suite

Continuous learning is a crucial part of computer science and this tutorial shows how to generate barcode in ASP with barcode SDK in ASP.NET C#

These source code samples are assembled by their programming language and functions they apply. ByteScout Barcode Suite is the bundle that provides 3 SDK products to generate barcodes (Barcode SDK), read barcodes (Barcode Reader SDK) and read and write spreadsheets (Spreadsheet SDK) and you can use it to generate barcode in ASP with barcode SDK with ASP.NET C#.

Want to save time? You will save a lot of time on writing and testing code as you may just take the ASP.NET C# code from ByteScout Barcode Suite for generate barcode in ASP with barcode SDK below and use it in your application. Follow the instructions from scratch to work and copy the ASP.NET C# code. Want to see how it works with your data then code testing will allow the function to be tested and work properly.

You can download free trial version of ByteScout Barcode Suite from our website to see and try many others source code samples for ASP.NET C#.

FOR MORE INFORMATION AND FREE TRIAL:

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

Source Code Files:

```
using System;
using System.Web;
using System.Web.Mvc;
using System.Linq;
using Bytescout.BarCode;

namespace BarcodeGenerator.Helpers
{
    public static class GeneratorHelper
    {
        public static string GetBase64Barcode(string value, SymbologyType symbology, bool addChecksum)
        {
            using (var barcode = new Barcode())
            {
                barcode.Symbology = symbology;
                barcode.Value = value;

                barcode.AddChecksum = addChecksum;

                var imageBytes = barcode.GetImageBytesPNG();

                return Convert.ToBase64String(imageBytes);
            }
        }

        public static IHtmlString GetBarcode(this HtmlHelper helper,
            string value,
            SymbologyType symbology,
            bool addChecksum = false)
        {
            var base64ImageBytes = GetBase64Barcode(value, symbology, addChecksum);
            var str = string.Format("<img src=\"data:image/png;base64,{0}\">", base64ImageBytes);
            return MvcHtmlString.Create(str);
        }

        public static IHtmlString EmbeddedBarcodeImage(this HtmlHelper helper,
            string value,
            SymbologyType symbology,
            bool addChecksum = false)
        {
            using (var barcode = new Barcode())
            {
                barcode.Symbology = symbology;
                barcode.Value = value;

                barcode.AddChecksum = addChecksum;

                var imageBytes = barcode.GetImageBytesPNG();
                var str = string.Format("data:image/png;base64,{0}",
                    Convert.ToBase64String(imageBytes));
                return MvcHtmlString.Create(str);
            }
        }
    }
}
```

```
}  
}
```

## Global.asax.cs

```
using System;  
using System.Collections.Generic;  
using System.Linq;  
using System.Web;  
using System.Web.Http;  
using System.Web.Mvc;  
using System.Web.Optimization;  
using System.Web.Routing;  
  
namespace MvcApplication1  
{  
    // Note: For instructions on enabling IIS6 or IIS7 classic mode,  
    // visit http://go.microsoft.com/?LinkId=9394801  
  
    public class MvcApplication : System.Web.HttpApplication  
    {  
        protected void Application_Start()  
        {  
            AreaRegistration.RegisterAllAreas();  
  
            WebApiConfig.Register(GlobalConfiguration.Configuration);  
            FilterConfig.RegisterGlobalFilters(GlobalFilters.Filters);  
            RouteConfig.RegisterRoutes(RouteTable.Routes);  
            BundleConfig.RegisterBundles(BundleTable.Bundles);  
        }  
    }  
}
```

## Web.Debug.config

```
<?xml version="1.0"?>  
  

```

```

<!--
In the example below, the "SetAttributes" transform will change the value of
"connectionString" to use "ReleaseSQLServer" only when the "Match" locator
finds an attribute "name" that has a value of "MyDB".

<connectionStrings>
  <add name="MyDB"
    connectionString="Data Source=ReleaseSQLServer;Initial Catalog=MyReleaseDB;Int
    xdt:Transform="SetAttributes" xdt:Locator="Match(name)"/>
</connectionStrings>
-->
<system.web>
<!--
In the example below, the "Replace" transform will replace the entire
<customErrors> section of your Web.config file.
Note that because there is only one customErrors section under the
<system.web> node, there is no need to use the "xdt:Locator" attribute.

<customErrors defaultRedirect="GenericError.htm"
  mode="RemoteOnly" xdt:Transform="Replace">
  <error statusCode="500" redirect="InternalError.htm"/>
</customErrors>
-->
</system.web>
</configuration>

```

## Web.Release.config

```

<?xml version="1.0"?>
<!-- For more information on using Web.config transformation visit http://go.microsoft.com/fwlink/?LinkId=72351 -->
<configuration xmlns:xdt="http://schemas.microsoft.com/XML-Document-Transform">
  <!--
  In the example below, the "SetAttributes" transform will change the value of
  "connectionString" to use "ReleaseSQLServer" only when the "Match" locator
  finds an attribute "name" that has a value of "MyDB".

  <connectionStrings>
    <add name="MyDB"
      connectionString="Data Source=ReleaseSQLServer;Initial Catalog=MyReleaseDB;Int
      xdt:Transform="SetAttributes" xdt:Locator="Match(name)"/>
  </connectionStrings>
  -->
  <system.web>
    <compilation xdt:Transform="RemoveAttributes(debug)" />
    <!--
    In the example below, the "Replace" transform will replace the entire
    <customErrors> section of your Web.config file.
    Note that because there is only one customErrors section under the
    <system.web> node, there is no need to use the "xdt:Locator" attribute.

```

```

    <customErrors defaultRedirect="GenericError.htm"
      mode="RemoteOnly" xdt:Transform="Replace">
      <error statusCode="500" redirect="InternalError.htm"/>
    </customErrors>
  -->
</system.web>
</configuration>

```

## Web.config

```

<?xml version="1.0" encoding="utf-8"?>
<!--
  For more information on how to configure your ASP.NET application, please visit
  http://go.microsoft.com/fwlink/?LinkId=152368
-->
<configuration>
  <configSections>
    <!-- For more information on Entity Framework configuration, visit http://go.micros
    <section name="entityFramework" type="System.Data.Entity.Internal.ConfigFile.Entity
  </configSections>
  <connectionStrings>
    <add name="DefaultConnection" providerName="System.Data.SqlClient" connectionString
  </connectionStrings>
  <appSettings>
    <add key="webpages:Version" value="2.0.0.0" />
    <add key="webpages:Enabled" value="false" />
    <add key="PreserveLoginUrl" value="true" />
    <add key="ClientValidationEnabled" value="true" />
    <add key="UnobtrusiveJavaScriptEnabled" value="true" />
  </appSettings>
  <system.web>
    <compilation debug="true" targetFramework="4.0" />
    <authentication mode="Forms">
      <forms loginUrl="~/Account/Login" timeout="2880" />
    </authentication>
    <pages>
      <namespaces>
        <add namespace="System.Web.Helpers" />
        <add namespace="System.Web.Mvc" />
        <add namespace="System.Web.Mvc.Ajax" />
        <add namespace="System.Web.Mvc.Html" />
        <add namespace="System.Web.Optimization" />
        <add namespace="System.Web.Routing" />
        <add namespace="System.Web.WebPages" />
      </namespaces>
    </pages>
    <profile defaultProvider="DefaultProfileProvider">
      <providers>
        <add name="DefaultProfileProvider" type="System.Web.Providers.DefaultProfilePro
      </providers>

```

```

</profile>
<membership defaultProvider="DefaultMembershipProvider">
  <providers>
    <add name="DefaultMembershipProvider" type="System.Web.Providers.DefaultMembers
  </providers>
</membership>
<roleManager defaultProvider="DefaultRoleProvider">
  <providers>
    <add name="DefaultRoleProvider" type="System.Web.Providers.DefaultRoleProvider
  </providers>
</roleManager>
<!--
  If you are deploying to a cloud environment that has multiple web server in
  you should change session state mode from "InProc" to "Custom". In addition
  change the connection string named "DefaultConnection" to connect to an ins
  of SQL Server (including SQL Azure and SQL Compact) instead of to SQL Serv
-->
<sessionState mode="InProc" customProvider="DefaultSessionProvider">
  <providers>
    <add name="DefaultSessionProvider" type="System.Web.Providers.DefaultSessionSt
  </providers>
</sessionState>
</system.web>
<system.webServer>
  <validation validateIntegratedModeConfiguration="false" />
  <modules runAllManagedModulesForAllRequests="true" />
  <handlers>
    <remove name="ExtensionlessUrlHandler-ISAPI-4.0_32bit" />
    <remove name="ExtensionlessUrlHandler-ISAPI-4.0_64bit" />
    <remove name="ExtensionlessUrlHandler-Integrated-4.0" />
    <add name="ExtensionlessUrlHandler-ISAPI-4.0_32bit" path="*." verb="GET,HEAD,POST
    <add name="ExtensionlessUrlHandler-ISAPI-4.0_64bit" path="*." verb="GET,HEAD,POST
    <add name="ExtensionlessUrlHandler-Integrated-4.0" path="*." verb="GET,HEAD,POST
  </handlers>
</system.webServer>
<runtime>
  <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
    <dependentAssembly>
      <assemblyIdentity name="System.Web.Helpers" publicKeyToken="31bf3856ad364e35"
      <bindingRedirect oldVersion="1.0.0.0-2.0.0.0" newVersion="2.0.0.0" />
    </dependentAssembly>
    <dependentAssembly>
      <assemblyIdentity name="System.Web.Mvc" publicKeyToken="31bf3856ad364e35" />
      <bindingRedirect oldVersion="1.0.0.0-4.0.0.0" newVersion="4.0.0.0" />
    </dependentAssembly>
    <dependentAssembly>
      <assemblyIdentity name="System.Web.WebPages" publicKeyToken="31bf3856ad364e35"
      <bindingRedirect oldVersion="1.0.0.0-2.0.0.0" newVersion="2.0.0.0" />
    </dependentAssembly>
    <dependentAssembly>
      <assemblyIdentity name="WebGrease" publicKeyToken="31bf3856ad364e35" />
      <bindingRedirect oldVersion="0.0.0.0-1.3.0.0" newVersion="1.3.0.0" />
    </dependentAssembly>
  </assemblyBinding>
</runtime>
<entityFramework>
  <defaultConnectionFactory type="System.Data.Entity.Infrastructure.SqlConnectio
</entityFramework>
</configuration>

```

## packages.config

```
<?xml version="1.0" encoding="utf-8"?>
<packages>
  <package id="EntityFramework" version="5.0.0" targetFramework="net40" />
  <package id="jQuery" version="1.8.2" targetFramework="net40" />
  <package id="jQuery.UI.Combined" version="1.8.24" targetFramework="net40" />
  <package id="jQuery.Validation" version="1.10.0" targetFramework="net40" />
  <package id="knockoutjs" version="2.2.0" targetFramework="net40" />
  <package id="Microsoft.AspNet.Mvc" version="4.0.30506.0" targetFramework="net40" />
  <package id="Microsoft.AspNet.Mvc.FixedDisplayModes" version="1.0.0" targetFramework="net40" />
  <package id="Microsoft.AspNet.Providers.Core" version="1.2" targetFramework="net40" />
  <package id="Microsoft.AspNet.Providers.LocalDB" version="1.1" targetFramework="net40" />
  <package id="Microsoft.AspNet.Razor" version="2.0.30506.0" targetFramework="net40" />
  <package id="Microsoft.AspNet.Web.Optimization" version="1.0.0" targetFramework="net40" />
  <package id="Microsoft.AspNet.WebApi" version="4.0.30506.0" targetFramework="net40" />
  <package id="Microsoft.AspNet.WebApi.Client" version="4.0.30506.0" targetFramework="net40" />
  <package id="Microsoft.AspNet.WebApi.Core" version="4.0.30506.0" targetFramework="net40" />
  <package id="Microsoft.AspNet.WebApi.WebHost" version="4.0.30506.0" targetFramework="net40" />
  <package id="Microsoft.AspNet.WebPages" version="2.0.30506.0" targetFramework="net40" />
  <package id="Microsoft.jQuery.Unobtrusive.Ajax" version="2.0.30506.0" targetFramework="net40" />
  <package id="Microsoft.jQuery.Unobtrusive.Validation" version="2.0.30506.0" targetFramework="net40" />
  <package id="Microsoft.Net.Http" version="2.0.20710.0" targetFramework="net40" />
  <package id="Microsoft.Web.Infrastructure" version="1.0.0.0" targetFramework="net40" />
  <package id="Modernizr" version="2.6.2" targetFramework="net40" />
  <package id="Newtonsoft.Json" version="4.5.11" targetFramework="net40" />
  <package id="WebGrease" version="1.3.0" targetFramework="net40" />
</packages>
```

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## VIDEO

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

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