

store large data with macro pdf417 barcode in C# and ByteScout Barcode SDK

What is ByteScout Barcode SDK? It is the robust library (Software Development Kit) that is designed for automatic generation of high-quality barcodes for printing, electronic documents and pdf. All popular barcode types are supported from Code 39 and Code 129 to QR Code, UPC, GS1, GS-128, Datamatrix, PDF417, Maxicode and many others. Provides support for full customization of fonts, colors, output and printing sizes. Special tools are included to verify output quality and printing quality. Can add generated barcode into new or existing documents, images and PDF.

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Source Code Files:

CreateBarCode.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>{A657F388-7D2A-4C05-9E04-6F6FAFF16F0C}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>CreateBarCode</RootNamespace>
    <AssemblyName>CreateBarCode</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.BarCode, Version=1.7.0.123, Culture=neutral, PublicKeyToken=f7dd1bd9d40a50e" />
    <SpecificVersion>False</SpecificVersion>
    <HintPath>c:\Program Files\Bytescout BarCode Generator SDK\net2.00\Bytescout.BarCode.dll</HintPath>
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
</ItemGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
</ItemGroup>
<ItemGroup>
  <Content Include="InputData.txt">
    <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 uncomment it.
      Other similar extension points exist, see Microsoft.Common.targets.
<Target Name="BeforeBuild">
</Target>
<Target Name="AfterBuild">
</Target>
-->
</Project>

```

CreateBarCode.VS2008.csproj

```

<Project DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/2003" ToolsVersion="3.5">
  <PropertyGroup>
    <Configuration Condition=" '$(Configuration)' == '' ">Debug</Configuration>
    <Platform Condition=" '$(Platform)' == '' ">AnyCPU</Platform>
    <ProductVersion>9.0.21022</ProductVersion>
    <SchemaVersion>2.0</SchemaVersion>
    <ProjectGuid>{A657F388-7D2A-4C05-9E04-6F6FAFF16F0C}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>CreateBarCode</RootNamespace>
    <AssemblyName>CreateBarCode</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>pdonly</DebugType>
  <Optimize>true</Optimize>
  <OutputPath>bin\Release\</OutputPath>
  <DefineConstants>TRACE</DefineConstants>
  <ErrorReport>prompt</ErrorReport>
  <WarningLevel>4</WarningLevel>
</PropertyGroup>
<ItemGroup>
  <Reference Include="Bytescout.BarCode, Version=1.7.0.123, Culture=neutral, PublicKeyToken=f7dd1bd9d40a50e
    <SpecificVersion>False</SpecificVersion>
    <HintPath>c:\Program Files\Bytescout BarCode Generator SDK\net2.00\Bytescout.BarCode.dll</HintPath>
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
</ItemGroup>
<ItemGroup>
</ItemGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
</ItemGroup>
<ItemGroup>
</ItemGroup>
<ItemGroup>
  <Content Include="InputData.txt">
    <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 uncomment it.
  Other similar extension points exist, see Microsoft.Common.targets.
<Target Name="BeforeBuild">
</Target>
<Target Name="AfterBuild">
</Target>
-->
</Project>

```

CreateBarCode.VS2010.csproj

```

<Project DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/2003" ToolsVersion="4.0">
  <PropertyGroup>
    <Configuration Condition=" '$(Configuration)' == '' ">Debug</Configuration>
    <Platform Condition=" '$(Platform)' == '' ">AnyCPU</Platform>
    <ProductVersion>
</ProductVersion>
    <SchemaVersion>2.0</SchemaVersion>
    <ProjectGuid>{A657F388-7D2A-4C05-9E04-6F6FAFF16F0C}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>CreateBarCode</RootNamespace>
    <AssemblyName>CreateBarCode</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>pdonly</DebugType>

```

```

<Optimize>true</Optimize>
<OutputPath>bin\Release\</OutputPath>
<DefineConstants>TRACE</DefineConstants>
<ErrorReport>prompt</ErrorReport>
<WarningLevel>4</WarningLevel>
</PropertyGroup>
<ItemGroup>
  <Reference Include="Bytescout.BarCode, Version=1.7.0.123, Culture=neutral, PublicKeyToken=f7dd1bd9d40a50e" />
    <SpecificVersion>False</SpecificVersion>
    <HintPath>c:\Program Files\Bytescout BarCode Generator SDK\net2.00\Bytescout.BarCode.dll</HintPath>
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Drawing" />
  <Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
</ItemGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
</ItemGroup>
<ItemGroup>
  <Content Include="InputData.txt">
    <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 uncomment it.
      Other similar extension points exist, see Microsoft.Common.targets.
-->
<Target Name="BeforeBuild">
</Target>
<Target Name="AfterBuild">
</Target>
-->
</Project>

```

InputData.txt

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Program.cs

```
using Bytescout.BarCode;
using System;
using System.Collections.Generic;
using System.Drawing;

namespace Sample
{
    class Program
    {
        static void Main(string[] args)
        {
            // Load text file
            string textInput = System.IO.File.ReadAllText("InputData.txt");

            // Split text into chunks
            var lstChunks = textInput.Split(new[] { Environment.NewLine }, StringSplitOptions.RemoveEmptyEntries);

            // Create new barcode
            using (Barcode barcode = new Barcode("demo", "demo"))
            {
                // Keep generated barcode images in the list
                List<Image> images = new List<Image>();

                // Select Macro PDF417 barcode type
                barcode.Symbology = SymbologyType.MacroPDF417;

                Macro417SegmentHelper macro417SegmentHelper = new Macro417SegmentHelper();
                macro417SegmentHelper.AddValue(lstChunks);

                // Set FileID.
                // FileID is a number from 0 to 899. It must be same for all barcodes in the set.
                barcode.Options.PDF417FileID = 123;

                int ctr = 0;
                var resImgName = "";
                foreach (var itmSegment in macro417SegmentHelper.GetAllSegments())
                {
                    // create the first segment barcode so set SegmentIndex = 1
                    barcode.Options.PDF417SegmentIndex = itmSegment.SegmentIndex;

                    // Set value
                    barcode.Value = itmSegment.SegmentValue;

                    // set that this is not the last segment yet
                    barcode.Options.PDF417LastSegment = itmSegment.IsLastSegment;

                    // Save barcode to image
                    resImgName = $"{code}";img{++ctr}.png";
                    barcode.SaveImage(resImgName, imageFormat: System.Drawing.Imaging.ImageFormat.Png);

                    Console.WriteLine($"{0}' generated!", resImgName);
                }
            }

            Console.ReadLine();
        }
    }

    /// <summary>
    /// Macro 417 Segment Helper
    /// </summary>
    public class Macro417SegmentHelper
    {
        // Declarations
        private List<string> lstValues { get; set; } = new List<string>();

        /// <summary>
        /// Add segment value
    }
}
```

```

/// </summary>
public void AddValue(params string[] strValue)
{
    foreach (var item in strValue)
    {
        IstValues.Add(item);
    }
}

/// <summary>
/// Get all segments
/// </summary>
public List<Macro417Segment> GetAllSegments()
{
    var IstRet = new List<Macro417Segment>();

    for (int i = 0; i < IstValues.Count; i++)
    {
        // Create segment
        var oSegment = new Macro417Segment
        {
            SegmentValue = IstValues[i],
            SegmentIndex = i + 1,
            IsLastSegment = ((i + 1) == IstValues.Count)
        };

        IstRet.Add(oSegment);
    }

    return IstRet;
}

}

public class Macro417Segment
{
    public string SegmentValue { get; set; }
    public int SegmentIndex { get; set; }
    public bool IsLastSegment { get; set; }
}
}

```

VIDEO

<https://www.youtube.com/watch?v=REnj3A-oSPI>

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