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How to convert PDF to black and white in VB.NET using ByteScout Premium Suite

ByteScout Premium Suite is the bundle that includes twelve SDK products from ByteScout including tools and components for PDF, barcodes, spreadsheets, screen video recording.

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Source Code Files:

MakeUnsearchablePDF.VS2005.vbproj

```
<?xml version="1.0" encoding="utf-8"?>  
<Project DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/
```

```

<PropertyGroup>
  <Configuration Condition=" '$(Configuration)' == '' ">Debug</Configuration>
  <Platform Condition=" '$(Platform)' == '' ">AnyCPU</Platform>
  <ProductVersion>8.0.50727</ProductVersion>
  <SchemaVersion>2.0</SchemaVersion>
  <ProjectGuid>{4A4B93A3-FEF6-4469-B506-1A632EB601FF}</ProjectGuid>
  <OutputType>Exe</OutputType>
  <StartupObject>MakeUnsearchablePDF.Module1</StartupObject>
  <RootNamespace>MakeUnsearchablePDF</RootNamespace>
  <AssemblyName>MakeUnsearchablePDF</AssemblyName>
  <MyType>Console</MyType>
</PropertyGroup>
<PropertyGroup Condition=" '$(Configuration)|$(Platform)' == 'Debug|AnyCPU' ">
  <DebugSymbols>true</DebugSymbols>
  <DebugType>full</DebugType>
  <DefineDebug>true</DefineDebug>
  <DefineTrace>true</DefineTrace>
  <OutputPath>bin\Debug\</OutputPath>
  <DocumentationFile>MakeUnsearchablePDF.xml</DocumentationFile>
  <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
</PropertyGroup>
<PropertyGroup Condition=" '$(Configuration)|$(Platform)' == 'Release|AnyCPU' ">
  <DebugType>pdbonly</DebugType>
  <DefineDebug>false</DefineDebug>
  <DefineTrace>true</DefineTrace>
  <Optimize>true</Optimize>
  <OutputPath>bin\Release\</OutputPath>
  <DocumentationFile>MakeUnsearchablePDF.xml</DocumentationFile>
  <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
</PropertyGroup>
<ItemGroup>
  <Reference Include="Bytescout.PDFExtractor, Version=6.10.0.2136, Culture=neutral,
    <SpecificVersion>False</SpecificVersion>
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Deployment" />
  <Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
  <Import Include="Microsoft.VisualBasic" />
  <Import Include="System" />
  <Import Include="System.Collections" />
  <Import Include="System.Collections.Generic" />
  <Import Include="System.Data" />
  <Import Include="System.Diagnostics" />
</ItemGroup>
<ItemGroup>
  <Compile Include="Module1.vb" />
  <Compile Include="My Project\AssemblyInfo.vb" />
  <Compile Include="My Project\Application.Designer.vb">
    <AutoGen>True</AutoGen>
    <DependentUpon>Application.myapp</DependentUpon>
  </Compile>
  <Compile Include="My Project\Resources.Designer.vb">
    <AutoGen>True</AutoGen>
    <DesignTime>True</DesignTime>
    <DependentUpon>Resources.resx</DependentUpon>
  </Compile>
  <Compile Include="My Project\Settings.Designer.vb">

```

```

    <AutoGen>True</AutoGen>
    <DependentUpon>Settings.settings</DependentUpon>
    <DesignTimeSharedInput>True</DesignTimeSharedInput>
  </Compile>
</ItemGroup>
<ItemGroup>
  <EmbeddedResource Include="My Project\Resources.resx">
    <Generator>VbMyResourcesResXFileCodeGenerator</Generator>
    <LastGenOutput>Resources.Designer.vb</LastGenOutput>
    <CustomToolNamespace>My.Resources</CustomToolNamespace>
    <SubType>Designer</SubType>
  </EmbeddedResource>
</ItemGroup>
<ItemGroup>
  <Content Include="..\..\sample1.pdf">
    <Link>sample1.pdf</Link>
    <CopyToOutputDirectory>Always</CopyToOutputDirectory>
  </Content>
  <None Include="My Project\Application.myapp">
    <Generator>MyApplicationCodeGenerator</Generator>
    <LastGenOutput>Application.Designer.vb</LastGenOutput>
  </None>
  <None Include="My Project\Settings.settings">
    <Generator>SettingsSingleFileGenerator</Generator>
    <CustomToolNamespace>My</CustomToolNamespace>
    <LastGenOutput>Settings.Designer.vb</LastGenOutput>
  </None>
</ItemGroup>
<Import Project="$(MSBuildBinPath)\Microsoft.VisualBasic.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>

```

MakeUnsearchablePDF.VS2008.vbproj

```

<?xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/
  <PropertyGroup>
    <Configuration Condition=" '$(Configuration)' == '' ">Debug</Configuration>
    <Platform Condition=" '$(Platform)' == '' ">AnyCPU</Platform>
    <ProductVersion>9.0.21022</ProductVersion>
    <SchemaVersion>2.0</SchemaVersion>
    <ProjectGuid>{4A4B93A3-FEF6-4469-B506-1A632EB601FF}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <StartupObject>MakeUnsearchablePDF.Module1</StartupObject>
    <RootNamespace>MakeUnsearchablePDF</RootNamespace>

```

```

<AssemblyName>MakeUnsearchablePDF</AssemblyName>
<MyType>Console</MyType>
<FileUpgradeFlags>
</FileUpgradeFlags>
<OldToolsVersion>2.0</OldToolsVersion>
<UpgradeBackupLocation>
</UpgradeBackupLocation>
<PublishUrl>publish\</PublishUrl>
<Install>true</Install>
<InstallFrom>Disk</InstallFrom>
<UpdateEnabled>>false</UpdateEnabled>
<UpdateMode>Foreground</UpdateMode>
<UpdateInterval>7</UpdateInterval>
<UpdateIntervalUnits>Days</UpdateIntervalUnits>
<UpdatePeriodically>>false</UpdatePeriodically>
<UpdateRequired>>false</UpdateRequired>
<MapFileExtensions>true</MapFileExtensions>
<ApplicationRevision>0</ApplicationRevision>
<ApplicationVersion>1.0.0.%2a</ApplicationVersion>
<IsWebBootstrapper>>false</IsWebBootstrapper>
<UseApplicationTrust>>false</UseApplicationTrust>
<BootstrapperEnabled>true</BootstrapperEnabled>
<TargetFrameworkVersion>v3.5</TargetFrameworkVersion>
</PropertyGroup>
<PropertyGroup Condition=" '$(Configuration)|$(Platform)' == 'Debug|AnyCPU' ">
  <DebugSymbols>true</DebugSymbols>
  <DebugType>full</DebugType>
  <DefineDebug>true</DefineDebug>
  <DefineTrace>true</DefineTrace>
  <OutputPath>bin\Debug\</OutputPath>
  <DocumentationFile>MakeUnsearchablePDF.xml</DocumentationFile>
  <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
</PropertyGroup>
<PropertyGroup Condition=" '$(Configuration)|$(Platform)' == 'Release|AnyCPU' ">
  <DebugType>pdbonly</DebugType>
  <DefineDebug>>false</DefineDebug>
  <DefineTrace>true</DefineTrace>
  <Optimize>true</Optimize>
  <OutputPath>bin\Release\</OutputPath>
  <DocumentationFile>MakeUnsearchablePDF.xml</DocumentationFile>
  <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
</PropertyGroup>
<ItemGroup>
  <Reference Include="Bytescout.PDFExtractor, Version=6.10.0.2136, Culture=neutral,
    <SpecificVersion>False</SpecificVersion>
    <HintPath>C:\Program Files\Bytescout PDF Extractor SDK\net3.50\Bytescout.PDFExtr
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Core">
    <RequiredTargetFramework>3.5</RequiredTargetFramework>
  </Reference>
  <Reference Include="System.Data" />
  <Reference Include="System.Deployment" />
  <Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
  <Import Include="Microsoft.VisualBasic" />
  <Import Include="System" />
  <Import Include="System.Collections" />
  <Import Include="System.Collections.Generic" />

```

```

<Import Include="System.Data" />
<Import Include="System.Diagnostics" />
<Import Include="System.Linq" />
</ItemGroup>
<ItemGroup>
  <Compile Include="Module1.vb" />
  <Compile Include="My Project\AssemblyInfo.vb" />
  <Compile Include="My Project\Application.Designer.vb">
    <AutoGen>True</AutoGen>
    <DependentUpon>Application.myapp</DependentUpon>
  </Compile>
  <Compile Include="My Project\Resources.Designer.vb">
    <AutoGen>True</AutoGen>
    <DesignTime>True</DesignTime>
    <DependentUpon>Resources.resx</DependentUpon>
  </Compile>
  <Compile Include="My Project\Settings.Designer.vb">
    <AutoGen>True</AutoGen>
    <DependentUpon>Settings.settings</DependentUpon>
    <DesignTimeSharedInput>True</DesignTimeSharedInput>
  </Compile>
</ItemGroup>
<ItemGroup>
  <EmbeddedResource Include="My Project\Resources.resx">
    <Generator>VbMyResourcesResXFileCodeGenerator</Generator>
    <LastGenOutput>Resources.Designer.vb</LastGenOutput>
    <CustomToolNamespace>My.Resources</CustomToolNamespace>
    <SubType>Designer</SubType>
  </EmbeddedResource>
</ItemGroup>
<ItemGroup>
  <Content Include="..\..\sample1.pdf">
    <Link>sample1.pdf</Link>
    <CopyToOutputDirectory>Always</CopyToOutputDirectory>
  </Content>
  <None Include="My Project\Application.myapp">
    <Generator>MyApplicationCodeGenerator</Generator>
    <LastGenOutput>Application.Designer.vb</LastGenOutput>
  </None>
  <None Include="My Project\Settings.settings">
    <Generator>SettingsSingleFileGenerator</Generator>
    <CustomToolNamespace>My</CustomToolNamespace>
    <LastGenOutput>Settings.Designer.vb</LastGenOutput>
  </None>
</ItemGroup>
<ItemGroup>
  <BootstrapperPackage Include="Microsoft.Net.Client.3.5">
    <Visible>False</Visible>
    <ProductName>.NET Framework Client Profile</ProductName>
    <Install>>false</Install>
  </BootstrapperPackage>
  <BootstrapperPackage Include="Microsoft.Net.Framework.2.0">
    <Visible>False</Visible>
    <ProductName>.NET Framework 2.0 %28x86%29</ProductName>
    <Install>>true</Install>
  </BootstrapperPackage>
  <BootstrapperPackage Include="Microsoft.Net.Framework.3.0">
    <Visible>False</Visible>
    <ProductName>.NET Framework 3.0 %28x86%29</ProductName>
    <Install>>false</Install>
  </BootstrapperPackage>

```

```

</BootstrapperPackage>
<BootstrapperPackage Include="Microsoft.Net.Framework.3.5">
  <Visible>False</Visible>
  <ProductName>.NET Framework 3.5</ProductName>
  <Install>>false</Install>
</BootstrapperPackage>
<BootstrapperPackage Include="Microsoft.Net.Framework.3.5.SP1">
  <Visible>False</Visible>
  <ProductName>.NET Framework 3.5 SP1</ProductName>
  <Install>>false</Install>
</BootstrapperPackage>
</ItemGroup>
<Import Project="$(MSBuildBinPath)\Microsoft.VisualBasic.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>

```

MakeUnsearchablePDF.VS2010.vbproj

```

<?xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/
  <PropertyGroup>
    <Configuration Condition=" '$(Configuration)' == '' ">Debug</Configuration>
    <Platform Condition=" '$(Platform)' == '' ">AnyCPU</Platform>
    <ProductVersion>9.0.30729</ProductVersion>
    <SchemaVersion>2.0</SchemaVersion>
    <ProjectGuid>{4A4B93A3-FEF6-4469-B506-1A632EB601FF}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <StartupObject>MakeUnsearchablePDF.Module1</StartupObject>
    <RootNamespace>MakeUnsearchablePDF</RootNamespace>
    <AssemblyName>MakeUnsearchablePDF</AssemblyName>
    <MyType>Console</MyType>
    <FileUpgradeFlags>
    </FileUpgradeFlags>
    <OldToolsVersion>3.5</OldToolsVersion>
    <UpgradeBackupLocation>
    </UpgradeBackupLocation>
    <IsWebBootstrapper>>false</IsWebBootstrapper>
    <TargetFrameworkVersion>v4.0</TargetFrameworkVersion>
    <PublishUrl>publish\</PublishUrl>
    <Install>>true</Install>
    <InstallFrom>Disk</InstallFrom>
    <UpdateEnabled>>false</UpdateEnabled>
    <UpdateMode>Foreground</UpdateMode>
    <UpdateInterval>7</UpdateInterval>
    <UpdateIntervalUnits>Days</UpdateIntervalUnits>

```

```

<UpdatePeriodically>false</UpdatePeriodically>
<UpdateRequired>false</UpdateRequired>
<MapFileExtensions>true</MapFileExtensions>
<ApplicationRevision>0</ApplicationRevision>
<ApplicationVersion>1.0.0.%2a</ApplicationVersion>
<UseApplicationTrust>false</UseApplicationTrust>
<BootstrapperEnabled>true</BootstrapperEnabled>
<TargetFrameworkProfile />
</PropertyGroup>
<PropertyGroup Condition=" '$(Configuration)|$(Platform)' == 'Debug|AnyCPU' ">
  <DebugSymbols>true</DebugSymbols>
  <DebugType>full</DebugType>
  <DefineDebug>true</DefineDebug>
  <DefineTrace>true</DefineTrace>
  <OutputPath>bin\Debug\</OutputPath>
  <DocumentationFile>MakeUnsearchablePDF.xml</DocumentationFile>
  <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022,42353,42354,42
</PropertyGroup>
<PropertyGroup Condition=" '$(Configuration)|$(Platform)' == 'Release|AnyCPU' ">
  <DebugType>pdbonly</DebugType>
  <DefineDebug>false</DefineDebug>
  <DefineTrace>true</DefineTrace>
  <Optimize>true</Optimize>
  <OutputPath>bin\Release\</OutputPath>
  <DocumentationFile>MakeUnsearchablePDF.xml</DocumentationFile>
  <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022,42353,42354,42
</PropertyGroup>
<ItemGroup>
  <Reference Include="Bytescout.PDFExtractor, Version=6.10.0.2136, Culture=neutral,
    <SpecificVersion>False</SpecificVersion>
    <HintPath>C:\Program Files\Bytescout PDF Extractor SDK\net4.00\Bytescout.PDFExtr
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Deployment" />
  <Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
  <Import Include="Microsoft.VisualBasic" />
  <Import Include="System" />
  <Import Include="System.Collections" />
  <Import Include="System.Collections.Generic" />
  <Import Include="System.Data" />
  <Import Include="System.Diagnostics" />
</ItemGroup>
<ItemGroup>
  <Compile Include="Module1.vb" />
  <Compile Include="My Project\AssemblyInfo.vb" />
  <Compile Include="My Project\Application.Designer.vb">
    <AutoGen>True</AutoGen>
    <DependentUpon>Application.myapp</DependentUpon>
  </Compile>
  <Compile Include="My Project\Resources.Designer.vb">
    <AutoGen>True</AutoGen>
    <DesignTime>True</DesignTime>
    <DependentUpon>Resources.resx</DependentUpon>
  </Compile>
  <Compile Include="My Project\Settings.Designer.vb">
    <AutoGen>True</AutoGen>
    <DependentUpon>Settings.settings</DependentUpon>

```

```

    <DesignTimeSharedInput>True</DesignTimeSharedInput>
  </Compile>
</ItemGroup>
<ItemGroup>
  <EmbeddedResource Include="My Project\Resources.resx">
    <Generator>VbMyResourcesResXFileCodeGenerator</Generator>
    <LastGenOutput>Resources.Designer.vb</LastGenOutput>
    <CustomToolNamespace>My.Resources</CustomToolNamespace>
    <SubType>Designer</SubType>
  </EmbeddedResource>
</ItemGroup>
<ItemGroup>
  <Content Include="..\..\sample1.pdf">
    <Link>sample1.pdf</Link>
    <CopyToOutputDirectory>Always</CopyToOutputDirectory>
  </Content>
  <None Include="My Project\Application.myapp">
    <Generator>MyApplicationCodeGenerator</Generator>
    <LastGenOutput>Application.Designer.vb</LastGenOutput>
  </None>
  <None Include="My Project\Settings.settings">
    <Generator>SettingsSingleFileGenerator</Generator>
    <CustomToolNamespace>My</CustomToolNamespace>
    <LastGenOutput>Settings.Designer.vb</LastGenOutput>
  </None>
</ItemGroup>
<ItemGroup>
  <BootstrapperPackage Include="Microsoft.Net.Client.3.5">
    <Visible>False</Visible>
    <ProductName>.NET Framework 3.5 SP1 Client Profile</ProductName>
    <Install>>false</Install>
  </BootstrapperPackage>
  <BootstrapperPackage Include="Microsoft.Net.Framework.2.0">
    <Visible>False</Visible>
    <ProductName>.NET Framework 2.0 %28x86%29</ProductName>
    <Install>>true</Install>
  </BootstrapperPackage>
  <BootstrapperPackage Include="Microsoft.Net.Framework.3.0">
    <Visible>False</Visible>
    <ProductName>.NET Framework 3.0 %28x86%29</ProductName>
    <Install>>false</Install>
  </BootstrapperPackage>
  <BootstrapperPackage Include="Microsoft.Net.Framework.3.5">
    <Visible>False</Visible>
    <ProductName>.NET Framework 3.5</ProductName>
    <Install>>false</Install>
  </BootstrapperPackage>
  <BootstrapperPackage Include="Microsoft.Net.Framework.3.5.SP1">
    <Visible>False</Visible>
    <ProductName>.NET Framework 3.5 SP1</ProductName>
    <Install>>false</Install>
  </BootstrapperPackage>
</ItemGroup>
<Import Project="$(MSBuildBinPath)\Microsoft.VisualBasic.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>
```

Module1.vb

```
Imports Bytescout.PDFExtractor  
  
Module Module1  
  
    Sub Main()  
  
        ' Create Bytescout.PDFExtractor.UnsearchablePDFMaker instance  
        Dim unsearchablePDFMaker = New UnsearchablePDFMaker()  
        unsearchablePDFMaker.RegistrationName = "demo"  
        unsearchablePDFMaker.RegistrationKey = "demo"  
  
        ' Load sample PDF document  
        unsearchablePDFMaker.LoadDocumentFromFile("sample1.pdf")  
  
        'maker.ImageFormat = EmbeddedImageFormat.JPEG; ' use JPEG for smaller PDF file  
        'maker.JPEGQuality = 75; // JPEG quality (1 - 100)  
        unsearchablePDFMaker.RenderingResolution = 300 ' larger resolution - longer p  
  
        ' Enable Black And White mode  
        unsearchablePDFMaker.Grayscale = True  
  
        ' Process the document  
        unsearchablePDFMaker.MakePDFUnsearchable("result.pdf")  
  
        ' Cleanup  
        unsearchablePDFMaker.Dispose()  
  
        ' Open the result PDF file in default associated application  
        System.Diagnostics.Process.Start("result.pdf")  
  
    End Sub  
  
End Module
```

VIDEO

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

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