

OCR with multiple languages in C# and ByteScout PDF Extractor SDK

What is ByteScout PDF Extractor SDK? It is the Software Development Kit (SDK) that is designed to help developers with data extraction from unstructured documents like pdf, tiff, scans, images, scanned and electronic forms. The library is powered by OCR, computer vision and AI to provide unique functionality like table detection, automatic table structure extraction, data restoration, data restructuring and reconstruction. Supports PDF, TIFF, PNG, JPG images as input and can output CSV, XML, JSON formatted data. Includes full set of utilities like pdf splitter, pdf merger, searchable pdf maker.

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Source Code Files:

Program.cs

```
using System.Diagnostics;
using Bytescout.PDFExtractor;

// This example demonstrates the use of Optical Character Recognition (OCR) to extract text
// from scanned PDF documents and raster images.

// To make OCR work you should add the following references to your project:
// 'Bytescout.PDFExtractor.dll', 'Bytescout.PDFExtractor.OCRExtension.dll'.

namespace ScannedPdfToText
{
```

```

class Program
{
    static void Main(string[] args)
    {
        // Create Bytescout.PDFExtractor.TextExtractor instance
        TextExtractor extractor = new TextExtractor();
        extractor.RegistrationName = "demo";
        extractor.RegistrationKey = "demo";

        // Load sample PDF document
        extractor.LoadDocumentFromFile("multi_language_ocr.pdf");

        // Enable Optical Character Recognition (OCR)
        // in .Auto mode (SDK automatically checks if needs to use OCR or not)
        extractor.OCRMode = OCRMode.Auto;

        // Set the location of OCR language data files
        extractor.OCRLanguageDataFolder = @"c:\Program Files\Bytescout PDF Extractor SDK\ocrdata_best\";

        // Set OCR language, targeting multiple languages english and french
        extractor.OCRLanguage = "eng+fra"; // "eng" for english, "deu" for German, "fra" for French, "spa" for Spanish
        // Find more language files at https://github.com/bytescout/ocrdata

        // Set PDF document rendering resolution
        extractor.OCRResolution = 300;

        // You can also apply various preprocessing filters
        // to improve the recognition on low-quality scans.

        // Automatically deskew skewed scans
        //extractor.OCRImagePreprocessingFilters.AddDeskew();

        // Remove vertical or horizontal lines (sometimes helps to avoid OCR engine's page segmentation errors)
        //extractor.OCRImagePreprocessingFilters.AddVerticalLinesRemover();
        //extractor.OCRImagePreprocessingFilters.AddHorizontalLinesRemover();

        // Repair broken letters
        //extractor.OCRImagePreprocessingFilters.AddDilate();

        // Remove noise
        //extractor.OCRImagePreprocessingFilters.AddMedian();

        // Apply Gamma Correction
        //extractor.OCRImagePreprocessingFilters.AddGammaCorrection();

        // Add Contrast
        //extractor.OCRImagePreprocessingFilters.AddContrast(20);

        // (!) You can use new OCRAnalyser class to find an optimal set of image preprocessing
        // filters for your specific document.
        // See "OCR Analyser" example.

        // Save extracted text to file
        extractor.SaveTextToFile("output.txt");

        // Cleanup
        extractor.Dispose();

        // Open result document in default associated application (for demo purpose)
        ProcessStartInfo processStartInfo = new ProcessStartInfo("output.txt");
        processStartInfo.UseShellExecute = true;
        Process.Start(processStartInfo);
    }
}

```

ScannedPdfToText.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" />
    <None Include="..\..\multi_language_ocr.pdf" Link="multi_language_ocr.pdf">
      <CopyToOutputDirectory>Always</CopyToOutputDirectory>
    </None>
  </ItemGroup>
  <ItemGroup>
    <PackageReference Include="Microsoft.Windows.Compatibility" Version="2.0.0" />
  </ItemGroup>
  <ItemGroup>
    <Reference Include="Bytescout.PDFExtractor">
      <SpecificVersion>False</SpecificVersion>
      <HintPath>c:\Program Files\Bytescout PDF Extractor SDK\netcoreapp2.0\Bytescout.PDFExtractor.dll</HintPath>
    </Reference>
    <Reference Include="Bytescout.PDFExtractor.OCRExtension">
      <SpecificVersion>False</SpecificVersion>
      <HintPath>c:\Program Files\Bytescout PDF Extractor SDK\netcoreapp2.0\Bytescout.PDFExtractor.OCRExtension
    </Reference>
  </ItemGroup>
</Project>
```

ScannedPdfToText.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>{19B908D4-02B2-4901-8CA1-98F97D3C3E13}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>ScannedPdfToText</RootNamespace>
    <AssemblyName>ScannedPdfToText</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.PDFExtractor, Version=4.0.0.1542, Culture=neutral, PublicKeyToken=f7dd1bd9d40"
  <SpecificVersion>False</SpecificVersion>
</Reference>
<Reference Include="Bytescout.PDFExtractor.OCRExtension, Version=4.0.0.1542, Culture=neutral, PublicKeyToku
  <SpecificVersion>False</SpecificVersion>
</Reference>
<Reference Include="System" />
<Reference Include="System.Data" />
<Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
<Compile Include="Program.cs" />
</ItemGroup>
<ItemGroup>
<Content Include="..\..\multi_language_ocr.pdf">
  <Link>multi_language_ocr.pdf</Link>
  <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>

```

ScannedPdfToText.VS2008.csproj

```

<Project ToolsVersion="3.5" DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
  <PropertyGroup>
    <Configuration Condition=" '$(Configuration)' == '' ">Debug</Configuration>
    <Platform Condition=" '$(Platform)' == '' ">AnyCPU</Platform>
    <ProductVersion>9.0.30729</ProductVersion>
    <SchemaVersion>2.0</SchemaVersion>
    <ProjectGuid>{19B908D4-02B2-4901-8CA1-98F97D3C3E13}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>ScannedPdfToText</RootNamespace>
    <AssemblyName>ScannedPdfToText</AssemblyName>
    <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>
    <Compile Include="Program.cs" />
  </ItemGroup>
  <ItemGroup>
    <Content Include="..\..\multi_language_ocr.pdf">
      <Link>multi_language_ocr.pdf</Link>
      <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>

```

```

</PropertyGroup>
<ItemGroup>
  <Reference Include="Bytescout.PDFExtractor, Version=4.0.0.1542, Culture=neutral, PublicKeyToken=f7dd1bd9d4" />
    <SpecificVersion>False</SpecificVersion>
  </Reference>
  <Reference Include="Bytescout.PDFExtractor.OCRExtension, Version=4.0.0.1542, Culture=neutral, PublicKeyToken=f7dd1bd9d4" />
    <SpecificVersion>False</SpecificVersion>
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
</ItemGroup>
<ItemGroup>
  <Content Include="..\..\multi_language_ocr.pdf">
    <Link>multi_language_ocr.pdf</Link>
    <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>

```

ScannedPdfToText.VS2010.csproj

```

<Project ToolsVersion="4.0" DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
  <PropertyGroup>
    <Configuration Condition="'$(Configuration)' == ''">Debug</Configuration>
    <Platform Condition="'$(Platform)' == ''">AnyCPU</Platform>
    <SchemaVersion>2.0</SchemaVersion>
    <ProjectGuid>{19B908D4-02B2-4901-8CA1-98F97D3C3E13}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>ScannedPdfToText</RootNamespace>
    <AssemblyName>ScannedPdfToText</AssemblyName>
    <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.PDFExtractor, Version=4.0.0.1542, Culture=neutral, PublicKeyToken=f7dd1bd9d4" />
      <SpecificVersion>False</SpecificVersion>
    </Reference>
    <Reference Include="Bytescout.PDFExtractor.OCRExtension, Version=4.0.0.1542, Culture=neutral, PublicKeyToken=f7dd1bd9d4" />
      <SpecificVersion>False</SpecificVersion>
    </Reference>
  </ItemGroup>

```

```

</Reference>
<Reference Include="System" />
<Reference Include="System.Data" />
<Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
</ItemGroup>
<ItemGroup>
  <Content Include="..\..\multi_language_ocr.pdf">
    <Link>multi_language_ocr.pdf</Link>
    <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>

```

ScannedPdfToText.VS2012.csproj

```

<Project ToolsVersion="4.0" DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
  <PropertyGroup>
    <Configuration Condition="'$(Configuration)' == " ">Debug</Configuration>
    <Platform Condition="'$(Platform)' == " ">AnyCPU</Platform>
    <SchemaVersion>2.0</SchemaVersion>
    <ProjectGuid>{19B908D4-02B2-4901-8CA1-98F97D3C3E13}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>ScannedPdfToText</RootNamespace>
    <AssemblyName>ScannedPdfToText</AssemblyName>
    <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="Bytestout.PDFExtractor, Version=4.0.0.1542, Culture=neutral, PublicKeyToken=f7dd1bd9d4">
      <SpecificVersion>False</SpecificVersion>
    </Reference>
    <Reference Include="Bytestout.PDFExtractor.OCRExtension, Version=4.0.0.1542, Culture=neutral, PublicKeyToka">
      <SpecificVersion>False</SpecificVersion>
    </Reference>
    <Reference Include="System" />
    <Reference Include="System.Data" />
    <Reference Include="System.Xml" />
  </ItemGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />

```

```

</ItemGroup>
<ItemGroup>
  <Content Include="..\..\multi_language_ocr.pdf">
    <Link>multi_language_ocr.pdf</Link>
    <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>

```

ScannedPdfToText.VS2013.csproj

```

<Project ToolsVersion="12.0" DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
  <PropertyGroup>
    <Configuration Condition="'$(Configuration)' == ''">Debug</Configuration>
    <Platform Condition="'$(Platform)' == ''">AnyCPU</Platform>
    <SchemaVersion>2.0</SchemaVersion>
    <ProjectGuid>{19B908D4-02B2-4901-8CA1-98F97D3C3E13}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>ScannedPdfToText</RootNamespace>
    <AssemblyName>ScannedPdfToText</AssemblyName>
    <TargetFrameworkVersion>v4.5</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.PDFExtractor, Version=4.0.0.1542, Culture=neutral, PublicKeyToken=f7dd1bd9d40"
      <SpecificVersion>False</SpecificVersion>
    </Reference>
    <Reference Include="Bytescout.PDFExtractor.OCRExtension, Version=4.0.0.1542, Culture=neutral, PublicKeyToken=
      <SpecificVersion>False</SpecificVersion>
    </Reference>
    <Reference Include="System" />
    <Reference Include="System.Data" />
    <Reference Include="System.Xml" />
  </ItemGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
  </ItemGroup>
  <ItemGroup>
    <Content Include="..\..\multi_language_ocr.pdf">
      <Link>multi_language_ocr.pdf</Link>
      <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>

```

ScannedPdfToText.VS2015.csproj

```

<Project ToolsVersion="14.0" DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
  <PropertyGroup>
    <Configuration Condition="'$(Configuration)' == ''">Debug</Configuration>
    <Platform Condition="'$(Platform)' == ''">AnyCPU</Platform>
    <SchemaVersion>2.0</SchemaVersion>
    <ProjectGuid>{19B908D4-02B2-4901-8CA1-98F97D3C3E13}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>ScannedPdfToText</RootNamespace>
    <AssemblyName>ScannedPdfToText</AssemblyName>
    <TargetFrameworkVersion>v4.5</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.PDFExtractor, Version=4.0.0.1542, Culture=neutral, PublicKeyToken=f7dd1bd9d40" />
    <SpecificVersion>False</SpecificVersion>
    </Reference>
    <Reference Include="Bytescout.PDFExtractor.OCRExtension, Version=4.0.0.1542, Culture=neutral, PublicKeyToken" />
    <SpecificVersion>False</SpecificVersion>
    </Reference>
    <Reference Include="System" />
    <Reference Include="System.Data" />
    <Reference Include="System.Xml" />
  </ItemGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
  </ItemGroup>
  <ItemGroup>
    <Content Include="..\..\multi_language_ocr.pdf">
      <Link>multi_language_ocr.pdf</Link>
      <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>

```

VIDEO

https://www.youtube.com/watch?v=s28W3_KMraU

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