

How to read QR code for barcode reader API in C# and PDF.co Web API

PDF.co Web API is the Web API with a set of tools for documents manipulation, data conversion, data extraction, splitting and merging of documents. Includes image recognition, built-in OCR, barcode generation and barcode decoders to decode bar codes from scans, pictures and pdf.

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Source Code Files:

ByteScoutWebApiExample.csproj

```
<?xml version="1.0" encoding="utf-8"?>
<Project ToolsVersion="12.0" DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
  <Import Project="$(MSBuildExtensionsPath)\$(MSBuildToolsVersion)\Microsoft.Common.props" Condition="Exists('$(MSBuildExtensionsPath)\$(MSBuildToolsVersion)\Microsoft.Common.props')" />
  <PropertyGroup>
    <Configuration Condition="'$(Configuration)' == ''">Debug</Configuration>
    <Platform Condition="'$(Platform)' == ''">AnyCPU</Platform>
    <ProjectGuid>{1E1C2C34-017E-4605-AE2B-55EA3313BE51}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <AppDesignerFolder>Properties</AppDesignerFolder>
    <RootNamespace>ByteScoutWebApiExample</RootNamespace>
    <AssemblyName>ByteScoutWebApiExample</AssemblyName>
    <TargetFrameworkVersion>v4.0</TargetFrameworkVersion>
    <FileAlignment>512</FileAlignment>
  </PropertyGroup>
  <PropertyGroup Condition="'$(Configuration)|$(Platform)' == 'Debug|AnyCPU' ">
    <PlatformTarget>AnyCPU</PlatformTarget>
```

```

<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' ">
  <PlatformTarget>AnyCPU</PlatformTarget>
  <DebugType>pdbonly</DebugType>
  <Optimize>true</Optimize>
  <OutputPath>bin\Release\</OutputPath>
  <DefineConstants>TRACE</DefineConstants>
  <ErrorReport>prompt</ErrorReport>
  <WarningLevel>4</WarningLevel>
</PropertyGroup>
<ItemGroup>
  <Reference Include="Newtonsoft.Json, Version=10.0.0.0, Culture=neutral, PublicKeyToken=30ad4fe6b2a6aeed, p
    <HintPath>packages\Newtonsoft.Json.10.0.3\lib\net40\Newtonsoft.Json.dll</HintPath>
    <Private>True</Private>
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Core" />
  <Reference Include="System.Xml.Linq" />
  <Reference Include="System.Data" />
  <Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="Properties\AssemblyInfo.cs" />
</ItemGroup>
<ItemGroup>
  <None Include="packages.config" />
  <Content Include="QRCode.png">
    <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>

```

ByteScoutWebApiExample.sln

```

Microsoft Visual Studio Solution File, Format Version 12.00
# Visual Studio 2013
VisualStudioVersion = 12.0.40629.0
MinimumVisualStudioVersion = 10.0.40219.1
Project("{FAE04EC0-301F-11D3-BF4B-00C04F79EFBC}") = "ByteScoutWebApiExample", "ByteScoutWebApiExamp
EndProject
Global
  GlobalSection(SolutionConfigurationPlatforms) = preSolution
    Debug|Any CPU = Debug|Any CPU
    Release|Any CPU = Release|Any CPU
  EndGlobalSection
  GlobalSection(ProjectConfigurationPlatforms) = postSolution
    {1E1C2C34-017E-4605-AE2B-55EA3313BE51}.Debug|Any CPU.ActiveCfg = Debug|Any CPU
    {1E1C2C34-017E-4605-AE2B-55EA3313BE51}.Debug|Any CPU.Build.0 = Debug|Any CPU
    {1E1C2C34-017E-4605-AE2B-55EA3313BE51}.Release|Any CPU.ActiveCfg = Release|Any CPU
    {1E1C2C34-017E-4605-AE2B-55EA3313BE51}.Release|Any CPU.Build.0 = Release|Any CPU

```

```

EndGlobalSection
GlobalSection(SolutionProperties) = preSolution
    HideSolutionNode = FALSE
EndGlobalSection
EndGlobal

```

Program.cs

```

using System;
using System.IO;
using System.Net;
using System.Threading;
using Newtonsoft.Json.Linq;

namespace ByteScoutWebApiExample
{
    class Program
    {
        // The authentication key (API Key).
        // Get your own by registering at https://app.pdf.co/documentation/api
        const String API_KEY = "*****";

        // Source file name
        const string SourceFile = @".\QRCode.png";
        // Comma-separated list of barcode types to search.
        // See valid barcode types in the documentation https://app.pdf.co/documentation/api/1.0/barcode/read_from_url
        const string BarcodeTypes = "QRCode";
        // Comma-separated list of page indices (or ranges) to process. Leave empty for all pages. Example: '0,2-5,7-'.
        const string Pages = "";
        // (!) Make asynchronous job
        const bool Async = true;

        static void Main(string[] args)
        {
            // Create standard .NET web client instance
            WebClient webClient = new WebClient();

            // Set API Key
            webClient.Headers.Add("x-api-key", API_KEY);

            // 1. RETRIEVE THE PRESIGNED URL TO UPLOAD THE FILE.
            // * If you already have a direct file URL, skip to the step 3.

            // Prepare URL for `Get Presigned URL` API call
            string query = Uri.EscapeUriString(string.Format(
                "https://api.pdf.co/v1/file/upload/get-presigned-url?contenttype=application/octet-stream&name={0}",
                Path.GetFileName(SourceFile)));

            try
            {
                // Execute request
                string response = webClient.DownloadString(query);

                // Parse JSON response
                JObject json = JObject.Parse(response);

                if (json["error"].ToObject<bool>() == false)
                {
                    // Get URL to use for the file upload
                    string uploadUrl = json["presignedUrl"].ToString();
                    // Get URL of uploaded file to use with later API calls
                    string uploadedFileUrl = json["url"].ToString();

                    // 2. UPLOAD THE FILE TO CLOUD.

                    webClient.Headers.Add("content-type", "application/octet-stream");

```

```

webClient.UploadFile(uploadUrl, "PUT", SourceFile); // You can use UploadData() instead if your file is by

// 3. READ BARCODES FROM UPLOADED FILE

// Prepare URL for `Barcode Reader` API call
query = Uri.EscapeUriString(string.Format("https://api.pdf.co/v1/barcode/read/from/url?types={0}&pages=
BarcodeTypes,
Pages,
uploadedFileUrl,
Async));

try
{
    // Execute request
    response = webClient.DownloadString(query);

    // Parse JSON response
    json = JObject.Parse(response);

    if (json["error"].ToObject<bool>() == false)
    {
        // Asynchronous job ID
        string jobId = json["jobId"].ToString();
        // URL of generated JSON file with decoded barcodes that will be available after the job completion
        string resultFileUrl = json["url"].ToString();

        // Check the job status in a loop.
        // If you don't want to pause the main thread you can rework the code
        // to use a separate thread for the status checking and completion.
        do
        {
            string status = CheckJobStatus(jobId); // Possible statuses: "working", "failed", "aborted", "success

            // Display timestamp and status (for demo purposes)
            Console.WriteLine(DateTime.Now.ToString() + ": " + status);

            if (status == "success")
            {
                // Download JSON results file as string
                string jsonString = webClient.DownloadString(resultFileUrl);

                JArray jsonFoundBarcodes = JArray.Parse(jsonString);

                // Display found barcodes in console
                foreach (JToken token in jsonFoundBarcodes)
                {
                    Console.WriteLine("Found barcode:");
                    Console.WriteLine("  Type: " + token["TypeName"]);
                    Console.WriteLine("  Value: " + token["Value"]);
                    Console.WriteLine("  Document Page Index: " + token["Page"]);
                    Console.WriteLine("  Rectangle: " + token["Rect"]);
                    Console.WriteLine("  Confidence: " + token["Confidence"]);
                    Console.WriteLine();
                }
                break;
            }
            else if (status == "working")
            {
                // Pause for a few seconds
                Thread.Sleep(3000);
            }
            else
            {
                Console.WriteLine(status);
                break;
            }
        }
        while (true);
    }
    else
    {
        // Display service reported error
        Console.WriteLine(json["message"].ToString());
    }
}
catch (WebException e)
{

```

```

        // Display request error
        Console.WriteLine(e.ToString());
    }

    }
    else
    {
        // Display service reported error
        Console.WriteLine(json["message"].ToString());
    }
}
catch (WebException e)
{
    // Display request error
    Console.WriteLine(e.ToString());
}

webClient.Dispose();

Console.WriteLine();
Console.WriteLine("Press any key...");
Console.ReadKey();
}

/// <summary>
/// Check Job Status
/// </summary>
static string CheckJobStatus(string jobId)
{
    using (WebClient webClient = new WebClient())
    {
        // Set API Key
        webClient.Headers.Add("x-api-key", API_KEY);

        string url = "https://api.pdf.co/v1/job/check?jobid=" + jobId;

        string response = webClient.DownloadString(url);
        JObject json = JObject.Parse(response);

        return Convert.ToString(json["status"]);
    }
}
}
}

```

packages.config

```

<?xml version="1.0" encoding="utf-8"?>
<packages>
  <package id="Newtonsoft.Json" version="10.0.3" targetFramework="net40" />
</packages>

```

VIDEO

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

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