

How to convert web page to PDF from link asynchronously for HTML to PDF API in C# using PDF.co Web API

How to convert web page to PDF from link asynchronously for HTML to PDF API in C#: How To Tutorial

Today we will explain the steps and algorithm of how to convert web page to PDF from link asynchronously and how to make it work in your application. PDF.co Web API helps with HTML to PDF API in C#. PDF.co Web API is the Rest API that provides set of data extraction functions, tools for documents manipulation, splitting and merging of pdf files. Includes built-in OCR, images recognition, can generate and read barcodes from images, scans and pdf.

This rich sample source code in C# for PDF.co Web API includes the number of functions and options you should do calling the API to implement HTML to PDF API. For implimentation of this functionality, please copy and paste code below into your app using code editor. Then compile and run your app. Test C# sample code examples whether they respond your needs and requirements for the project.

Trial version of ByteScout is available for free download from our website. This and other source code samples for C# and other programming languages are available.

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Source Code Files:

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", "ByteScoutWebApiExample.csproj", "{FAE04EC0-301F-11D3-BF4B-00C04F79EFBC}"
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 Newtonsoft.Json.Linq;
using System.Threading;

// Cloud API asynchronous "Web Page to PDF" job example.
// Allows to avoid timeout errors when processing heavy web pages.

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 = "*****";

        // URL of web page to convert to PDF document.
        const string SourceUrl = "http://www.usa.gov";
        // Destination PDF file name
    }
}
```

```

const string DestinationFile = @".\result.pdf";
// (!) 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);

    // Prepare URL for `Web Page to PDF` API call
    string query = Uri.EscapeUriString(string.Format(
        "https://api.pdf.co/v1/pdf/convert/from/url?name={0}&url={1}&sourceUrl={2}&async={3}",
        Path.GetFileName(DestinationFile),
        SourceUrl,
        Async));

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

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

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

            // Check the job status in a loop.
            // If you don't want to pause the main thread you can
            // to use a separate thread for the status check
            do
            {
                string status = CheckJobStatus(jobId);

                // Display timestamp and status (for debugging)
                Console.WriteLine(DateTime.Now.ToLongTimeString() + " Status: " + status);

                if (status == "success")
                {
                    // Download PDF file
                    webClient.DownloadFile(resultFileUrl, DestinationFile);

                    Console.WriteLine("Generated PDF file saved to " + DestinationFile);
                    break;
                }
                else if (status == "working")
                {
                    // Pause for a few seconds
                    Thread.Sleep(3000);
                }
            }
            else
            {
                Console.WriteLine("Error: " + json["error"].ToString());
            }
        }
    }
}

```

```
        Console.WriteLine(status);  
        break;  
    }  
    }  
    while (true);  
}  
else  
{  
    Console.WriteLine(json["message"].ToString());  
}  
}  
catch (WebException e)  
{  
    Console.WriteLine(e.ToString());  
}  
webClient.Dispose();  
  
Console.WriteLine();  
Console.WriteLine("Press any key...");  
Console.ReadKey();  
}  
  
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=";  
  
        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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