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How to convert images to PDF from urls asynchronously for image to PDF API in C# and ByteScout Cloud API Server

Follow this simple tutorial to learn convert images to PDF from urls asynchronously to have image to PDF API in C#

These simple tutorials explain the code material for beginners and advanced programmers who are using C#. ByteScout Cloud API Server was designed to assist image to PDF API in C#. ByteScout Cloud API Server is the ready to deploy Web API Server that can be deployed in less than thirty minutes into your own in-house Windows server (no Internet connection is required to process data!) or into private cloud server. Can store data on in-house local server based storage or in Amazon AWS S3 bucket. Processing data solely on the server using built-in ByteScout powered engine, no cloud services are used to process your data!.

The SDK samples displayed below explain how to quickly make your application do image to PDF API in C# with the help of ByteScout Cloud API Server. For implementation of this functionality, please copy and paste the code below into your app using code editor. Then compile and run your app. Use of ByteScout Cloud API Server in C# is also described in the documentation given along with the product.

ByteScout Cloud API Server - free trial version is available on our website. Also, there are other code samples to help you with your C# application included into trial version.

FOR MORE INFORMATION AND FREE TRIAL:

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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", {1E1C2C34-017E-4605-AE2B-55EA3313BE51}
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;

// Please NOTE: In this sample we're assuming Cloud API Server is hosted at "https://localhost:3001"
// If it's not then please replace this with your hosting url.

// Cloud API asynchronous "Image To PDF" job example.
// Allows to avoid timeout errors when processing huge or scanned PDF documents.
namespace ByteScoutWebApiExample
{
    class Program
    {
        // Direct URLs of image files to convert to PDF document
        static string[] SourceFiles = {
            "https://bytescout-com.s3.amazonaws.com/files/demo-files/cloud-files/logo.png",
            "https://bytescout-com.s3.amazonaws.com/files/demo-files/cloud-files/page1.jpg",
            "https://bytescout-com.s3.amazonaws.com/files/demo-files/cloud-files/page2.jpg",
            "https://bytescout-com.s3.amazonaws.com/files/demo-files/cloud-files/page3.jpg"
        }
    }
}
```

```
    "https://bytescout-com.s3.amazonaws.com/files/demo-files/cloud-api/convert-to-pdf-from-image.pdf";
// 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();

    // Prepare URL for `Image To PDF` API call
    string query = Uri.EscapeUriString(string.Format(
        "https://localhost/pdf/convert/from/image?name={0}&url={1}",
        Path.GetFileName(DestinationFile),
        string.Join(",", SourceFiles),
        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 available once the job is completed
            string resultImageUrl = json["url"].ToString();

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

                // Display timestamp and status (for demonstration purposes)
                Console.WriteLine(DateTime.Now.ToString("yyyy-MM-dd HH:mm:ss") + " " + status);

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

                Console.WriteLine("Generated PDF file successfully!");
                break;
            }
            else if (status == "working")
            {
                // Pause for a few seconds
                Thread.Sleep(3000);
            }
            else
            {
                Console.WriteLine(status);
            }
        }
    }
}
```

```

                break;
            }
        }
    }
}
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())
    {
        string url = "https://localhost/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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