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# How to PDF text search API in C# using PDF.co Web API

## The tutorial below will demonstrate how to PDF text search API in C#

This sample source code below will demonstrate you how to PDF text search 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 and you can use it to PDF text search API with C#.

C# code samples for C# developers help to speed up coding of your application when using PDF.co Web API. Follow the instructions from the scratch to work and copy the C# code. This basic programming language sample code for C# will do the whole work for you to PDF text search API.

Free trial version of PDF.co Web API is available for download from our website. Get it to try other source code samples for C#.

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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", "ByteScou
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
                {1E1C2C34-017E-4605-AE2B-55EA3313BE51}.Debug|Any CPU.Build.0 = Debug|A
                {1E1C2C34-017E-4605-AE2B-55EA3313BE51}.Release|Any CPU.ActiveCfg = Rel
                {1E1C2C34-017E-4605-AE2B-55EA3313BE51}.Release|Any CPU.Build.0 = Releas
        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 = "****************************************";

        // Direct URL of source PDF file.
        const string SourceFileUrl = "https://bytescout-com.s3.amazonaws.com/files/dem

        // Comma-separated list of page indices (or ranges) to process. Leave empty fo
        const string Pages = "";

        // PDF document password. Leave empty for unprotected documents.
        const string Password = "";

        // Search string.
```

```
        const string SearchString = @"\d{1,}\.\d\d"; // Regular expression to find numb
                                                     // Note: do not use `+` char in re
                                                     // `+` char is valid for URL and w

        // Enable regular expressions (Regex)
        const bool RegexSearch = true;

        // (!) 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 PDF text search API call.
            // See documentation: https://app.pdf.co/documentation/api/1.0/pdf/find.htm
            string query = Uri.EscapeUriString(string.Format(
                "https://api.pdf.co/v1/pdf/find?password={0}&pages={1}&url={2}&searchSt
                Password,
                Pages,
                SourceFileUrl,
                SearchString,
                RegexSearch,
                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 json file that will available after the job com
                    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 co
                    // to use a separate thread for the status checking and completion
                    do
                    {
                        string status = CheckJobStatus(jobId); // Possible statuses: "w

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

                        if (status == "success")
                        {
                            // Execute request
                            string respFileJson = webClient.DownloadString(resultFileUr
```

```
                        // Parse JSON response
                        JArray jsonFoundInformation = JArray.Parse(respFileJson);

                        // Display found information in console
                        foreach (JToken item in jsonFoundInformation)
                        {
                            Console.WriteLine({code}quot;Found text \"{item["text"]
                        }

                        break;
                    }
                    else if (status == "success")
                    {
                        // Pause for a few seconds
                        Thread.Sleep(3000);
                    }
                    else
                    {
                        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=" + 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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