

## How to find credit card number in PDF with regex in VB.NET and ByteScout PDF Extractor SDK

What is ByteScout PDF Extractor SDK? It is the SDK is designed to help developers with pdf tables and pdf 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 and other utilities.

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### Source Code Files:

FindCreditCardNumberWithRegex.vbproj

```
<?xml version="1.0" encoding="utf-8"?>
<Project ToolsVersion="15.0" xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
  <Import Project="$(MSBuildExtensionsPath)\$(MSBuildToolsVersion)\Microsoft.Common.props" Condition="Exists('
  <PropertyGroup>
    <Configuration Condition=" '$(Configuration)' == " " ">Debug</Configuration>
    <Platform Condition=" '$(Platform)' == " " ">AnyCPU</Platform>
    <ProjectGuid>{80667702-F68F-42E8-AF48-A3F9D8C879CF}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <StartupObject>FindCreditCardNumberWithRegex.Program</StartupObject>
    <RootNamespace>FindCreditCardNumberWithRegex</RootNamespace>
    <AssemblyName>FindCreditCardNumberWithRegex</AssemblyName>
```

```

<FileAlignment>512</FileAlignment>
<MyType>Console</MyType>
<TargetFrameworkVersion>v2.0</TargetFrameworkVersion>
</PropertyGroup>
<PropertyGroup Condition=" '$(Configuration)|$(Platform)' == 'Debug|AnyCPU' ">
  <PlatformTarget>AnyCPU</PlatformTarget>
  <DebugSymbols>>true</DebugSymbols>
  <DebugType>full</DebugType>
  <DefineDebug>>true</DefineDebug>
  <DefineTrace>>true</DefineTrace>
  <OutputPath>bin\Debug\</OutputPath>
  <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
</PropertyGroup>
<PropertyGroup Condition=" '$(Configuration)|$(Platform)' == 'Release|AnyCPU' ">
  <PlatformTarget>AnyCPU</PlatformTarget>
  <DebugType>pdbonly</DebugType>
  <DefineDebug>>false</DefineDebug>
  <DefineTrace>>true</DefineTrace>
  <Optimize>>true</Optimize>
  <OutputPath>bin\Release\</OutputPath>
  <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
</PropertyGroup>
<PropertyGroup>
  <OptionExplicit>On</OptionExplicit>
</PropertyGroup>
<PropertyGroup>
  <OptionCompare>Binary</OptionCompare>
</PropertyGroup>
<PropertyGroup>
  <OptionStrict>Off</OptionStrict>
</PropertyGroup>
<PropertyGroup>
  <OptionInfer>On</OptionInfer>
</PropertyGroup>
<ItemGroup>
  <Reference Include="Bytescout.PDFExtractor, Version=9.1.0.3170, Culture=neutral, PublicKeyToken=f7dd1bd9d4" />
    <SpecificVersion>False</SpecificVersion>
    <HintPath>c:\Program Files\Bytescout PDF Extractor SDK\net2.0\Bytescout.PDFExtractor.dll</HintPath>
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Deployment" />
  <Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
  <Import Include="Microsoft.VisualBasic" />
  <Import Include="System" />
  <Import Include="System.Collections" />
  <Import Include="System.Collections.Generic" />
  <Import Include="System.Data" />
  <Import Include="System.Diagnostics" />
</ItemGroup>
<ItemGroup>
  <Compile Include="Program.vb" />
</ItemGroup>
<ItemGroup>
  <None Include="SampleInvoice.pdf" />
  <CopyToOutputDirectory>Always</CopyToOutputDirectory>
</None>
</ItemGroup>
<Import Project="$(MSBuildToolsPath)\Microsoft.VisualBasic.targets" />
</Project>

```

Program.vb

Imports Bytescout.PDFExtractor

' Note: if you are looking for a more higher level API to extract data from invoices, reports, statements  
' then please [check Document Parser SDK and Web API at https://bytestout.com/products/developer/documentparser](https://bytestout.com/products/developer/documentparser)  
' and <https://pdf.co> for secure and scalable web api

## Module Program

Sub Main()

Try

```
' Create Bytestout.PDFExtractor.TextExtractor instance  
Using extractor As TextExtractor = New TextExtractor()  
extractor.RegistrationName = "demo"  
extractor.RegistrationKey = "demo"
```

```
' Load sample PDF document  
extractor.LoadDocumentFromFile("SampleInvoice.pdf")
```

```
' Enable the regular expression  
extractor.RegexSearch = True
```

```
Dim pageCount As Integer = extractor.GetPageCount()
```

```
' Search through pages
```

```
For i As Integer = 0 To pageCount - 1
```

```
' Search credit card number in format of (XXXX XXXX XXXX XXXX)
```

```
Dim regexPattern As String = "[0-9]{4} [0-9]{4} [0-9]{4} [0-9]{4}"
```

```
' See the complete regular expressions reference at https://msdn.microsoft.com/en-us/library/az24scfc\(v=vs.110\).aspx
```

```
' Search each page for the pattern
```

```
If extractor.Find(i, regexPattern, False) Then
```

```
Do
```

```
' Iterate through each element in the found text
```

```
For Each element As ISearchResultElement In extractor.FoundText.Elements
```

```
Console.WriteLine("Found Credit Card Number: " & element.Text)
```

```
Next
```

```
Loop While extractor.FindNext()
```

```
End If
```

```
Next
```

```
End Using
```

```
Catch ex As Exception
```

```
Console.WriteLine("Error: " & ex.Message)
```

```
End Try
```

```
Console.WriteLine()
```

```
Console.WriteLine("Press enter key to continue...")
```

```
Console.ReadLine()
```

End Sub

End Module

VIDEO

[https://www.youtube.com/watch?v=s28W3\\_KMraU](https://www.youtube.com/watch?v=s28W3_KMraU)

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