

How to regular expression search and highlight in PDF in VB.NET and ByteScout PDF Suite

Learning is essential in computer world and the tutorial below will demonstrate how to regular expression search and highlight in PDF in VB.NET

We made thousands of pre-made source code pieces for easy implementation in your own programming projects. Want to regular expression search and highlight in PDF in your VB.NET app? ByteScout PDF Suite is designed for it. ByteScout PDF Suite is the set that includes 6 SDK products to work with PDF from generating rich PDF reports to extracting data from PDF documents and converting them to HTML. This bundle includes PDF (Generator) SDK, PDF Renderer SDK, PDF Extractor SDK, PDF to HTML SDK, PDF Viewer SDK and PDF Generator SDK for Javascript.

Want to save time? You will save a lot of time on writing and testing code as you may just take the VB.NET code from ByteScout PDF Suite for regular expression search and highlight in PDF below and use it in your application. This VB.NET sample code is all you need for your app. Just copy and paste the code, add references (if needs to) and you are all set! Enjoy writing a code with ready-to-use sample VB.NET codes.

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Source Code Files:

Module1.vb

```
Imports System.Drawing
Imports Bytescout.PDF
Imports Bytescout.PDFExtractor

Module Module1

    Sub Main()

        Dim inputFile As String = ".\sample.pdf"
        Dim pageIndex As Integer = 0
        Dim searchPattern As String = "\d+\.\d+"

        ' Prepare TextExtractor
        Using textExtractor As TextExtractor = New TextExtractor("demo", "demo")

            textExtractor.RegexSearch = true
            textExtractor.LoadDocumentFromFile(inputFile)

            ' Load document with PDF SDK
            Using pdfDocument As Document = New Document(inputFile)

                pdfDocument.RegistrationName = "demo"
                pdfDocument.RegistrationKey = "demo"

                Dim pdfDocumentPage As Page = pdfDocument.Pages(pageIndex)
                Dim canvas As Canvas = pdfDocumentPage.Canvas

                Dim fillBrush As Bytescout.PDF.SolidBrush = new Bytescout.PDF.SolidBrush
                fillBrush.Opacity = 50 ' make the brush transparent

                ' Search for pattern and highlight found pieces
                If textExtractor.Find(pageIndex, searchPattern, caseSensitive := False)

                    Do
                        For Each foundPiece In textExtractor.FoundText.Elements

                            ' Inflate the rectangle a bit
                            Dim rect As RectangleF = RectangleF.Inflate(foundPiece.Bounds, 10)
                            ' Draw rectangle over the PDF page
                            canvas.DrawRectangle(fillBrush, rect)

                        Next

                    Loop While textExtractor.FindNext()

                End If

                ' Save as new PDF document
                pdfDocument.Save("result.pdf")

                ' Open result document in default associated application (for demo purpose)
                Process.Start("result.pdf")

            End Using

        End Using

    End Sub

End Module
```

```
End Using  
  
End Using  
  
End Sub  
  
End Module
```

SearchAndHighlightExample.sln

```
Microsoft Visual Studio Solution File, Format Version 12.00  
# Visual Studio 15  
VisualStudioVersion = 15.0.27703.2018  
MinimumVisualStudioVersion = 10.0.40219.1  
Project("{F184B08F-C81C-45F6-A57F-5ABD9991F28F}") = "SearchAndHighlightExample", "SearchAndHighlightExample.csproj", "{F184B08F-C81C-45F6-A57F-5ABD9991F28F}"  
EndProject  
Global  
    GlobalSection(SolutionConfigurationPlatforms) = preSolution  
        Debug|Any CPU = Debug|Any CPU  
        Release|Any CPU = Release|Any CPU  
    EndGlobalSection  
    GlobalSection(ProjectConfigurationPlatforms) = postSolution  
        {23DFDE65-1DB4-4348-84C2-0E5BFD4473C1}.Debug|Any CPU.ActiveCfg = Debug|Any CPU  
        {23DFDE65-1DB4-4348-84C2-0E5BFD4473C1}.Debug|Any CPU.Build.0 = Debug|Any CPU  
        {23DFDE65-1DB4-4348-84C2-0E5BFD4473C1}.Release|Any CPU.ActiveCfg = Release|Any CPU  
        {23DFDE65-1DB4-4348-84C2-0E5BFD4473C1}.Release|Any CPU.Build.0 = Release|Any CPU  
    EndGlobalSection  
    GlobalSection(SolutionProperties) = preSolution  
        HideSolutionNode = FALSE  
    EndGlobalSection  
    GlobalSection(ExtensibilityGlobals) = postSolution  
        SolutionGuid = {D7B1CFBF-B914-4A51-9EC0-B8C10A2BEAB0}  
    EndGlobalSection  
EndGlobal
```

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

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