

PDFtext.dll – 32 bit-version – 4.0.0.0

You can use it with all well known ides (.NET-IDEs, too!)
Try it with Visual Basic, VBA, C#, VB20xx, VB20xx Express, Delphi, C, C++,
PowerBuilder and many more ...

This is the test version!

This means "try before you buy"!

**If you think this dll can be useful for your work please order the unlimited version at:
www.PDF-Analyzer.com**

This version here isn't limited in any cases so you're able to test the whole functionality.

There's only one difference to the full version:

The message window. It opens once calling a function ;-)

You can get the unlimited version from:

Author and publisher:

Ingo Schmoekel
- Software-Dev. and Distribution -
Zedernstr. 30a
D-28832 Achim
GERMANY

Webmaster@PDF-Analyzer.com
<http://www.PDF-Analyzer.com>
<http://www.IS-Soft.de>

credits:

Thanks to Heiko Indenbirken for a C#-sampleclass "PDFText_32bit_or_64bit.cs"
Thanks to Nicholas Vollmer for a vb.net-sampleclass "class_for_PDFtext40_Form1.vb"
Both in the zip-package!

**If your question begins with "how can I ..." please have a quick look into the
complete sample projects (for 32 bit) in this package ;-)**

----- Index -----

What are the limits	02
About installation and working with the dll	02
Working inside an IDE	02
If you want to use it in an asp environment	02
If you're using a win-version before xp or win7	02
Something about textextraction	02
The content of the zip-file	03
Kinds of returned (error) codes for GetPDFPageCount	03
Kinds of returned (error) codes for GetPDFtext	03
functions with the type of values and the meaning	04
Sample for delphi: Including the dll in a delphi unit	06
How to use the dll with Delphi in the dynamic way	07
Sample for Visual Basic 6.0	07
Sample for vb.net	09
Sample for C#	11
Sample for C++	14

What are the limits:

The textextraction works with all types of normal pdf-documents from pdf-specs 1.2 up to the newest specs. It doesn't mind if there's an AES- or RC4-encryption ... nothing, 40, 128 or 256 bit ... even a main-/owner-password isn't a problem!

What you can't extract are ebooks (they've a special protection), pdf-documents protected with a user-password (the one you have to insert before reading the document-content on the screen) and real pictures converted to pdf without ocr-functionality 'cause there isn't real text.

About installation and working with the dll...

This dll doesn't have an entry point so it's not necessary to register it.

Only copying into the system32- (on 32-bit-systems), SysWOW64-directory (on 64-bit-systems) or in the directory where your application is installed. If you want to use the dll with vba inside MS Access, Excel, ... then the dll has to be in the system32 or syswow64 (application directory won't work). Choosing the dll inside for example a mdb-project via extras -> references won't work 'cause the dll can't be registered without an entry point - so simply copying into system32 or syswow64 ... that's all.

If you want to use it in a 64 bit environment...

PDFtext.dll is a 32 bit dll but you can use it in 64 bit environments, too. For example on Win XP Pro x64 the calling application should be installed in the "program files (x86)" directory and it'll work.

If you want to insert the dll in the system32-directory: On 64 bit systems this directory is used only for 64 bit dlls. In this case the PDFtext.dll (= 32 bit) should be in the SysWOW64-directory.

If you're working with a 64 bit development you may need to set your platform target to "x86" to force it to create a 32 bit EXE. If it's currently set to "Any CPU" then it will create a 64 bit exe which then will fail loading this 32 bit dll.

If you're using a win-version before xp or win7...

It's possible that the needed 32-bit-dll gdiplus.dll is missing...

If so, your app (working with PDFtext.dll) sometimes could deliver faulty results.

To avoid this as a standard the gdiplus.dll is in the zip-package and should be copied where the PDFtext.dll will be installed/copied.

Something about textextraction

The text will be extracted for each page like it was composed (if you use "fast = 0"). So if each page have got first a header and a footer, this content will be extracted for example before the first headline of the page. If a page has several columns and if these columns were inserted top down you'll find for example the last line of the first column before the first textline of the second column. To make it more readable the string-output is sorted (top/down and left/right). If you like it more similar to the original layout in the pdf-document (it's faster, too) you can use "fast = 1".

If you're using the parameter "stop" you can't be sure that the extraction stops after the seconds you've set. For example you've set to stop after 4 seconds and after 3 seconds the extraction for a very complicated page is running then you've to wait until the next page comes. In this described case the extraction can stop after 10 or more seconds, too.

The content of the zip-file

The library itself as a testversion

PDFtext.dll ... a 32-bit-dll for the windows\system32-, syswow64- or in your application-directory (if it's not a vba- or .net-environment)

The short documentation

H_PDFtextsv32.pdf (the file you're just reading)

For the library there is a help-program to test the function immediately:

H_PDFtext.exe (a 32-bit-version made with Delphi XE as 32 bit version)

As source samples there are codesnippets in Delphi- (static/dynamic), Free Pascal-/Lazarus-, VB-, C#- and C++-code at the end of this document here.

contact: webmaster@pdf-analyzer.com

info/help: <http://www.pdf-analyzer.com>
<http://www.is-soft.de>

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Kinds of returned (error) codes regarding GetPDFPageCount:

0 = general/main error
9001 = File not found
9002 = No pdf-file
9003 = There's a user password
9004 = Invalid/damaged page structure

If it's all okay the pagecount of the selected document will be returned.

Kinds of returned (error) codes regarding GetPDFText:

0 = general/main error
9001 = File not found
9002 = No pdf-file
9003 = There's a user password
9004 = Invalid/damaged page structure
9005 = Target drive/path isn't valid
9006 = Target drive/path is missing
9007 = Source and target (for fileoutput) is the same
9015 = The text is based on the rare codepage 1251 ... extraction won't work proper
9016 = The text is based on the codepage CJK ... extraction won't work proper
1 = Using opt=2 (clipboard) ... this means it's okay.
Using opt=1 returns the drive/path/file of the textoutput.
Using opt=3 returns the whole text-string.
9 = Means that there's no text (perhaps only images)

If you extract with success into a textfile (opt=1) as a result you'll get the complete address of the textoutput. So it's easy to work with the file programmatically.

functions with the type of values and the meaning:

GetPDFPageCount

```
function GetPDFPageCount(const FileName: PWideChar):  
LongInt; stdcall;
```

GetPDFText

```
function GetPDFText(const FileName: PWideChar; opt: LongInt; hw: LongInt; fast:  
LongInt; target: PWideChar; lspaces: LongInt; ptitel: PWideChar; pos: LongInt;  
page: LongInt; clock: LongInt; blank: LongInt; ende: LongInt; wlist: LongInt):  
PWideChar; stdcall;
```

FileName

That's the pdf-file and can't be empty ;-)

opt

opt=1 means extract the text-content of example.pdf to example.pdf.txt (in the directory where's the dll is or in the open user-directory if exist). User-directory normally means "documents and settings\the-login-name\local settings\temp\pdfstext".

opt=2 means extract the text-content of a pdf-file to the clipboard.

opt=3 means extract the text-content of a pdf-file as a returning text-string.

hw (default = 0)

If this value is set to "1" only a hash-value (md5) will be returned. You can use it to check if the text-content is changed between two checks.

fast (default = 1)

Fast means that the text-content of a page will be extracted similar to the original pdf-layout. If you set this parameter to zero the text-content will be extracted string by string and sorted.

target

If you want to extract into a textfile (opt=1) you should fill "target" with a new filename (with drive and path!). If you don't do this error 9006 will raise – telling you that the target data is missing.

lspaces (default = 0)

lspaces means 1 to delete leading spaces on each text-line or 0 (don't do it).

ptitel (default = "")

ptitel means that pagenumbers should be inserted. If you insert here for example "page", the pagenumbers will look like "page x / y". If you insert "Seite" it would be "Seite x / y". If ptitel is empty there won't be a pagenumbers on the extracted textcontent.

pos (default = 0)

1 means that all extracted textstrings (fast=0) will have four leading values: current pagenumber, max. pagenumber, current row and column (in pixels). So you can get exactly the string position on a page. Keep in mind that the highest row number is at the bottom of the page. This parameter works only if "fast" is set to zero.

page (default = 0)

If you don't want to extract the whole text of a document... if you have special known pages you want to extract, you can insert in "page" single page numbers. Then only these page will be extracted.

clock (default = 0)

0 means no sandclock while the function is working...

blank (default = 0)

There are documents with justification layout. This means that sometimes (to fill each line) there are more than one space between words. If you're using PDFtext.dll to search in a second step through extracted textcontent it could be easier if you know that between words are only one space. If "blank" is set to 1 more than one space between words will be deleted.

ende (default = 0)

Sometimes you can get very voluminous documents with much different contents - The extraction can last many seconds... minutes. Sometimes it's enough if you've extracted the first pages... Here you can set a value that means "stop extracting after xxxx seconds". 0 means no limit, 1 until 1800 means from 1 second until 30 minutes (that should be enough).

wlist (default = 0)

wlist means wordlist. If this parameter is set to "1". The extraction delivers word by word. Each word on a separate row.

Sample for Delphi XE (Unicode!): Including the dll in a delphi unit

There's a complete "ready-to-run" Delphi-project in this zip-Package!

```
unit H_PDFtext;

interface

uses
  Windows, Messages, SysUtils, Classes, Graphics, Controls, Forms, Dialogs,
  StdCtrls;

type
  TForm1 = class(TForm)

// . . .

function GetPDFText(const FileName: PWideChar; opt: LongInt; hw:
LongInt; fast: LongInt; target: PWideChar; lspaces: LongInt; ptitel:
PWideChar; pos: LongInt; page: LongInt; clock: LongInt; blank: LongInt;
ende: LongInt; wlist: LongInt): PWideChar; stdcall;

function GetPDFPageCount(const FileName: PWideChar): LongInt;
stdcall;

implementation

{$R *.DFM}

function GetPDFText(const FileName: PWideChar; opt: LongInt; hw:
LongInt; fast: LongInt; target: PWideChar; lspaces: LongInt; ptitel:
PWideChar; pos: LongInt; page: LongInt; clock: LongInt; blank: LongInt;
ende: LongInt; wlist: LongInt): PWideChar; stdcall;
external 'PDFtext.dll';

function GetPDFPageCount(const FileName: PWideChar): LongInt;
stdcall;
external 'PDFtext.dll';

// . . .

procedure TForm1.Button1Click(Sender: TObject);
begin
  If OpenFileDialog1.Execute Then
    Edit1.Text := OpenFileDialog1.FileName;
end;

// . . .

procedure TForm1.Button2Click(Sender: TObject);
var txtw : WideString;
    txtp : PWideChar;
// . . .

// opt=1 means extract to file ...
Edit2.Text := GetPDFText(PWideChar(Edit1.Text), 1, hw, fa,
PWideChar(Edit3.Text), sp, PWideChar(pt), po, pa, cl,
mp, st, wl);

// ... or ...
```

```

// opt=3 means extract to a returning string ...
// In this case it is absolutely necessary to keep in mind that the
// dll-parameters are pointers to a string!
txtp := GetPDFText(PWideChar(Edit1.Text), 3, hw, fa,
    PWideChar(Edit3.Text), sp, PWideChar(pt), po, pa, cl,
    mp, st, wl);
txtw := WideCharToString(txtp);
Edit2.Text := txtw;
end;

procedure TForm1.Button3Click(Sender: TObject);
begin
// . . .

    Edit3.Text := IntToStr(GetPDFPageCount(PWideChar(Edit1.Text)));
end;

// . . .

end.

```

How to use the dll with Delphi in the dynamic way

```

. . .
function PDFDoc.PdfTextGet(File: String): String;
var
    GetPdfText: TGetPdfText;
    FuncPtr: TFarProc;
    DLLHandle: THandle;
begin
    // dynamic load for the dll and textextraction
    DLLHandle := LoadLibrary(PChar('PDFtext.dll'));
    FuncPtr := GetProcAddress(DLLHandle, 'GetPDFText');
    @GetPdfText := FuncPtr;
    Result := GetPdfText(PWideChar(File), 1, 0, PWideChar(''), 0,
        Pchar(''),0,0,0, 0);
    FuncPtr := nil;
    FreeLibrary(DLLHandle);
end;
. . .

```

Sample for Visual Basic 6.0/VBA: Including the declared dll-functions in a bas-modul (if it's real Visual Basic) module1

There's a complete "ready-to-run" vb6-project in this zip-Package!

```

. . .

Attribute VB_Name = "Module1"

Public Declare Function GetPDFPageCount Lib "PDFtext.dll" (ByVal
FileName As String) As Integer ' Pagecount
Public Declare Function GetPDFText Lib "PDFtext.dll" (ByVal FileName As
String, ByVal opt As Integer, ByVal hw As Integer, ByVal fast As Integer,
ByVal target As String, ByVal xspaces As Integer, ByVal ptitel As String,
ByVal pos As Integer, ByVal page As Integer, ByVal clock As Integer, ByVal
blank As Integer, ByVal ende As Integer, ByVal wlist As Integer) As Long '
The returned text content
7 / 15

```

```
Public Declare Function apiLStrCopyW Lib "kernel32.dll" Alias "lstrcpyW"
(ByVal lpString1 As Long, ByVal lpString2 As Long) As Long
Public Declare Function apiLStrLenW Lib "kernel32.dll" Alias "lstrlenW"
(ByVal lpString As Long) As Long
```

```
Public Function GetStringFromPtrW(ByVal ptr As Long) As String
'create a matching buffer
GetStringFromPtrW = String$(apiLStrLenW(ptr), 0)
'copying the string into the buffer
apiLStrCopyW StrPtr(GetStringFromPtrW), ptr
End Function
```

. . .

And a button-click for GetPDFPageCount:

\. . .

```
Private Sub Command1_Click()
Dim sPfad() As Byte

sPfad = StrConv(Text1.Text, vbUnicode)

Text7.Text = Str(GetPDFPageCount(sPfad))
```

End Sub

\. . .

and a button-click for string-extract:

\. . .

```
' *** 1 = Extract to file ... ***
' *** 2 = Extract to clipboard ... ***
' *** 3 = Extract to/as string ... ***
```

```
Private Sub option3_Click()
Dim sPfad() As Byte
Dim tPfad() As Byte
Dim title() As Byte
Dim sp As Integer
Dim hv As Integer
Dim po As Integer
Dim pa As Integer
Dim st As Integer
Dim fa As Integer
Dim cl As Integer
Dim bl As Integer
Dim wl As Integer
```

```
    If Check1.Value = 1 Then
        sp = 1
    Else
        sp = 0
    End If
    If Check2.Value = 1 Then
        po = 1
    Else
        po = 0
    End If
```



```

If Check3.Value = 1 Then
    fa = 1
Else
    fa = 0
End If
If Check4.Value = 1 Then
    cl = 1
Else
    cl = 0
End If
If Check5.Value = 1 Then
    bl = 1
Else
    bl = 0
End If
If Check6.Value = 1 Then
    hv = 1
Else
    hv = 0
End If
If Check7.Value = 1 Then
    wl = 1
Else
    wl = 0
End If

pa = CInt(Val(Trim(Text5.Text)))
st = CInt(Val(Trim(Text6.Text)))

sPfad = StrConv(Text1.Text, vbUnicode)
tPfad = StrConv(Text3.Text, vbUnicode)
title = StrConv(Text4.Text, vbUnicode)

Text2.Text = GetStringFromPtrW(GetPDFText(sPfad, 3, hv, fa, tPfad,
sp, title, po, pa, cl, bl, st, wl))

End Sub

' . . .

```

How to use the dll with vb.net

There's a complete "ready-to-run" 32-bit-project in this zip-Package! Additionally a well documented vb.net-sample called "class_for_PDFtext40_Form1.vb" is attached!

. . .

In Module1.vb ...

```

Option Strict Off
Option Explicit On
Module Module1

```

```

    Public Declare Function GetPDFPageCount Lib "PDFtext.dll" (ByVal
FileName As Byte()) As Short ' Pagecount

```

```

    Public Declare Function GetPDFText Lib "PDFtext.dll" (ByVal
FileName As Byte(), ByVal opt As Short, ByVal hw As Short, ByVal fast As
Short, ByVal target As Byte(), ByVal xspaces As Short, ByVal ptitel As
Byte(), ByVal pos As Short, ByVal page As Short, ByVal clock As Short,

```

```
ByVal blank As Short, ByVal ende As Short, ByVal wlist As Short) As Integer
' The returned text content
```

```
End Module
```

```
. . .
```

```
In Form1.vb ...
```

```
Option Strict Off
```

```
Option Explicit On
```

```
Imports System.Runtime.InteropServices
```

```
Friend Class Form1
```

```
    Inherits System.Windows.Forms.Form
```

```
    Public r As String
```

```
    Private Sub Command1_Click(ByVal eventSender As System.Object, ByVal
eventArgs As System.EventArgs) Handles Command1.Click
```

```
        Dim uni_enc As New System.Text.UnicodeEncoding()
```

```
        Dim sPfad() As Byte
```

```
        sPfad = uni_enc.GetBytes(Text1.Text)
```

```
        Text7.Text = Str(GetPDFPageCount(sPfad))
```

```
    End Sub
```

```
\ and now a button-click for string-extract
```

```
\ . . .
```

```
    Private Sub option3_Click(ByVal eventSender As System.Object, ByVal
eventArgs As System.EventArgs) Handles option3.Click
```

```
        Dim uni_enc As New System.Text.UnicodeEncoding()
```

```
        Dim tmpMemPath As IntPtr
```

```
        Dim objFso As Object
```

```
        Dim objFile As Object
```

```
        Dim mem As Integer
```

```
        Dim sPfad As Byte()
```

```
        Dim tPfad As Byte()
```

```
        Dim title As Byte()
```

```
        Dim sp As Short
```

```
        Dim hv As Short
```

```
        Dim po As Short
```

```
        Dim pa As Short
```

```
        Dim st As Short
```

```
        Dim fa As Short
```

```
        Dim cl As Short
```

```
        Dim bl As Short
```

```
        Dim wl As Short
```

```
        objFso = CreateObject("Scripting.FileSystemObject")
```

```
        objFile = objFso.GetFile(Text1.Text)
```

```
        mem = objFile.Size
```

```
        If Check1.CheckState = 1 Then
```

```
            sp = 1
```

```
        Else
```

```
            sp = 0
```

```
        End If
```

```
        If Check2.CheckState = 1 Then
```

```
            po = 1
```

```

Else
    po = 0
End If
If Check3.CheckState = 1 Then
    fa = 1
Else
    fa = 0
End If
If Check4.CheckState = 1 Then
    cl = 1
Else
    cl = 0
End If
If Check5.CheckState = 1 Then
    bl = 1
Else
    bl = 0
End If
If Check6.CheckState = 1 Then
    hv = 1
Else
    hv = 0
End If
If Check7.CheckState = 1 Then
    wl = 1
Else
    wl = 0
End If

pa = Val(Trim(Text5.Text))
st = Val(Trim(Text6.Text))

sPfad = uni_enc.GetBytes(Text1.Text)
tPfad = uni_enc.GetBytes(Text3.Text)
title = uni_enc.GetBytes(Text4.Text)

tmpMemPath = Marshal.AllocHGlobal(mem)
tmpMemPath = GetPDFText(sPfad, 3, hv, fa, tPfad, sp, title, po,
pa, cl, bl, st, wl)
Text2.Text = Marshal.PtrToStringUni(tmpMemPath)
tmpMemPath = IntPtr.Zero

End Sub

```

How to use the dll with C#

There's **a complete (ready-to-run) 32-bit-project** in this package. Additionally there's also a well documented C#-sample called "PDFText_32bit_or_64bit.cs" in this zip-package!

C#-sample - GetPDFPageCount and GetPDFText on a button-click

From Module1.cs the declarations ...

```

using Microsoft.VisualBasic;
using Microsoft.VisualBasic.Compatibility;
using System;
using System.Collections;
using System.Data;

```

```

using System.Diagnostics;
using System.Drawing;
using System.Windows.Forms;
using System.Runtime.InteropServices;
namespace Projekt1
{
    static class Module1
    {
        [DllImport("PDFtext.dll", CharSet = CharSet.Ansi, SetLastError
= true, ExactSpelling = true)]

        public static extern short GetPDFPageCount(byte[]
FileName);
        [DllImport("PDFtext.dll", CharSet = CharSet.Ansi, SetLastError
= true, ExactSpelling = true)]
        // Pagecount
        public static extern int GetPDFText(byte[] FileName, short
opt, short hw, short fast, byte[] target, short xspaces, byte[] ptitel,
short pos, short page, short clock,
        short blank, short ende, short wlist);
        // The returned text content

    }
}
\ . . .

```

From Form1.cs the events ...

C# - GetPDFPageCount on a button-click

```

namespace Projekt1
{
    internal partial class Form1 : System.Windows.Forms.Form
    {
        public string r;

        private void Command1_Click(System.Object eventSender,
System.EventArgs eventArgs)
        {
            System.Text.UnicodeEncoding uni_enc = new
System.Text.UnicodeEncoding();
            byte[] sPfad = null;

            sPfad = uni_enc.GetBytes(Text1.Text);

            Text7.Text =
Conversion.Str(Module1.GetPDFPageCount(sPfad));

        }
    }
}
\ . . .

```

C# - GetPDFText (as string export) on a button-click

```

        private void option3_Click(System.Object eventSender,
System.EventArgs eventArgs)
        {

```

```

        System.Text.UnicodeEncoding uni_enc = new
System.Text.UnicodeEncoding();
        IntPtr tmpMemPath = default(IntPtr);
        int mem = 0;
        byte[] sPfad = null;
        byte[] tPfad = null;
        byte[] title = null;
        short sp = 0;
        short hv = 0;
        short po = 0;
        short pa = 0;
        short st = 0;
        short fa = 0;
        short cl = 0;
        short bl = 0;
        short wl = 0;

        FileInfo f = new FileInfo(Text1.Text);
        mem = Convert.ToInt32(f.Length);

        if ( Check1.Checked == true )
        {
            sp = 1;
        }
        else
        {
            sp = 0;
        }

        if ( Check2.Checked == true )
        {
            po = 1;
        }
        else
        {
            po = 0;
        }

        if ( Check3.Checked == true )
        {
            fa = 1;
        }
        else
        {
            fa = 0;
        }

        if ( Check4.Checked == true )
        {
            cl = 1;
        }
        else
        {
            cl = 0;
        }

        if ( Check5.Checked == true )
        {
            bl = 1;
        }
        else
        {

```

```

        bl = 0;
    }

    if ( Check6.Checked == true )
    {
        hv = 1;
    }
    else
    {
        hv = 0;
    }

    if ( Check7.Checked == true )
    {
        wl = 1;
    }
    else
    {
        wl = 0;
    }

    pa = Convert.ToInt16(Text5.Text);
    st = Convert.ToInt16(Text6.Text);

    sPfad = uni_enc.GetBytes(Text1.Text);
    tPfad = uni_enc.GetBytes(Text3.Text);
    title = uni_enc.GetBytes(Text4.Text);

    tmpMemPath = Marshal.AllocHGlobal(mem);
    tmpMemPath = (IntPtr)Module1.GetPDFText(sPfad, 3, hv, fa,
tPfad, sp, title, po, pa, cl, bl, st, wl);
    Text2.Text = Marshal.PtrToStringUni(tmpMemPath);
    tmpMemPath = IntPtr.Zero;

}

\ ...

```

Sample for C++

```

. . . .
typedef LPSTR (__stdcall *TRMyGetPDFText) (LPSTR strPdfName, int opt, int
hw, int fast, LPSTR target, int lspaces, LPSTR ptitel, int pos, int page,
int clock, int blank, int ende, int wlist);

TRMyGetPDFText GetPDFText;

Main()
{
    m_hInstLib = LoadLibrary( (LPCSTR)"PDFText.dll" );
    if( m_hInstLib )
    {
        CString s;
        GetPDFText = (TRMyGetPDFText) GetProcAddress( m_hInstLib,
"GetPDFText");

        s=GetPDFText("c:\\test.pdf",1,0,0,"c:\\test.txt",0,"",1,0,0
,0,0,0);
    }
}

```

```
        FreeLibrary(m_hInstLib);  
    }  
}  
. . .
```