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precisely fit software



Products: PDF4NET

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FEATURES

PDF4NET is a .NET library for generating and importing PDF documents on the fly from any .NET application. The library does not rely on any Adobe products for creating and importing PDF files. It hides the complex structure of PDF files behind a simple object model that allows creation of complex PDF files or import of existing PDF files with a few lines of code.

The PDF4NET library can use either a grid based layout approach allowing precise positioning of content on document's pages or a flow based layout making the generation of complex documents a breeze. The final PDF file is compressed, making the library appropriate for web applications. The library can be used from WinForms, ASP.NET, WPF, UWP, .NET Core, Mac, iOS and Android applications without any restrictions, the source code being fully portable between platforms. The library is written entirely in C#, being 100% managed.

The PDF4NET library is licensed per developer and can be distributed ROYALTY FREE, reducing your project costs.

The main features of PDF4NET library are outlined below:

SUPPORTED PLATFORMS

.NET Framework 4.x	Yes
• .NET 5/6/7	Yes
.NET Core 2.x/3.x	Yes
.NET Standard	Yes
Windows Forms	Yes
Xamarin.Mac	Yes
ASP.NET Webforms and MVC	Yes
Console applications	Yes
Windows services	Yes
Mono	Yes
• WPF 4.x	Yes
Xamarin.iOS	Yes
Xamarin.Android	Yes
Xamarin.Forms	Yes
Universal Windows Platform	Yes
.NET MAUI	Yes

DOCUMENT FEATURES

Create and load PDF documents from files and streams	Yes
Grid layout and/or flow layout modes	Yes
• Save PDF files in PDF/A-1B, PDF/A-2 B/U, PDF/A-3 B/U format	Yes
Save PDF files in PDF/UA-1 format	Yes
Save PDF files to disk and streams	Yes
PDF structure compression	Yes
Document information and custom properties	Yes
Document viewer preferences and display modes	Yes
Document and page XMP metadata	Yes
Document file attachments	Yes
Document level Javascripts and actions	Yes
Document outline (bookmarks)	Yes
Create CAD and geospatial enabled PDF files	Yes
Add, remove and read Bates numbers	Yes
Add and remove PDF pages	Yes
• Page boxes - media box, crop box, art box, trim box and bleed box	Yes
Page labeling ranges (page numbering)	Yes
Page user units	Yes
Extract pages from external PDF files	Yes
Append PDF pages	Yes
Split PDF files into pages	Yes
Document incremental updates	Yes

Yes

• Drawing of external page content (page imposition)

Low level PDF graphics for full control over the page content stream	Yes
• Formatted content (paragraphs, text blocks, styled text, links inside text, bullet lists)	Yes
• Tables (simple and composite cells, column spans, row spans, borders)	Yes
FONTS	
Standard PDF fonts, Western and CJK	Yes
• Type1 fonts	Yes
• Type3 fonts	Yes
Ansi and Unicode TrueType fonts with support for font subsetting	Yes
Disable text copy/paste for Unicode TrueType fonts	Yes
• Full color emojis and SVG fonts	Yes
Advanced TrueType features:	Yes
- Ligatures	Yes
- Vertical glyphs	Yes
- Small capitals	Yes
- Old style figures	Yes
IMAGES	
Load images from files and streams	Yes
Bmp, Png, Gif, Jpeg, Jpeg2000, Tiff and Raw images	Yes
Automatic image type detection	Yes
Extra large IPEG images	Yes
• Extra large TIFF images (24bpp and 32bpp, uncompressed, zip, lzw)	Yes
• Create images from System.Drawing.Bitmap (WinForms) (BMP, GIF, PNG, TIFF, JPG)	Yes
Native support for TIFF (grayscale, RGB and CMYK), JPEG, PNG and RAW images	Yes
• TIFF to PDF conversion with CCITT G4 compression for B/W images	Yes
Image masks: color masks, stencil mask and soft masks	Yes
Alternate images for printing	Yes
• SVG to PDF conversion	Yes
BARCODES	
Built in vector barcode engine, no barcode images or barcode fonts	Yes
• Unidimensional barcodes:	Yes
- Generic barcodes: Codabar, Code 11, Code 25, Code 25 Interleaved,	Yes
Code 39, Code 39 Extended, Code 93, Code 93 Extended, Code 128 A,	
Code 128 B, Code 128 C, COOP 25, Matrix 25, MSI/Plessey	V
- Pharmaceutical barcodes: Code 32, Pharmacode,	Yes
PZN (Pharma-Zentral-Nummer)	V
- EAN/UPC barcodes: EAN 128, EAN-13, EAN-8, ISBN, ISBN, ISSN,	Yes
JAN-13, UPC-A, UPC-E	V.
- Postal and transportation barcodes: FedEx Ground 96, IATA 25,	Yes
Identcode, Leitcode, KIX, Planet, PostNet, RM4SCC, SCC-14,	
SingaporePost, SSCC-18, USPS FIM, USPS Horizontal, USPS PIC	.,
Bidimensional barcodes:	Yes
- DataMatrix, QR, PDF417, Micro PDF417, Codablock F, Code 16K	Yes
PDF ANNOTATIONS	
Add, edit and remove PDF annotations	Yes
Standard and custom appearance for annotations	Yes
Flatten annotations	Yes
• Supported annotations:	Yes
- Text (sticky notes) annotations	Yes
- Rubber stamp annotations	Yes
- Square and circle annotations	Yes
- File attachment annotations	Yes
- Link annotations (hyperlinks)	Yes
- Line annotations	Yes
- Ink annotations	Yes
- Polygon and polyline annotations	Yes
- Text markup annotations: highlight, underline, strikeout, squiggly	Yes
- Free text (typewritter) annotations	Yes
- Sound annotations	Yes
- Movie annotations	Yes
- Rich media (Flash) annotations	Yes
- Redaction annotations	Yes
- 3D annotations with support for: views, projections, lighting schemes,	Yes
cross sections, backgrounds and animations	

Create, load and save PDF forms	Yes
Add, edit, remove and rename form fields	Yes
 Support for text box fields, combo box fields, list box fields, 	Yes
push button fields, check box fields, radio button fields, signature fields	
Read/Write (fill) form fields	Yes
Create custom appearances for field widgets Flatten form fields	Yes Yes
Form actions (see PDF actions)	Yes
PDF ACTIONS	
Add, edit and remove PDF actions	Yes
Set actions at document level, page level, annotation level and form field level	Yes
Supported actions: GaTa actions are to destinations in surrent DDE file	Yes
 GoTo actions - go to destinations in current PDF file Remote GoTo actions - go to destinations in external PDF files 	Yes Yes
- GoTo 3D view actions - activate a specific view in a 3D annotation	Yes
- Lauch actions - launch executables and files	Yes
- URI actions - go to a web based destination	Yes
- Named actions - predefined PDF actions	Yes
- Javascript actions - execute Javascript code	Yes
- Submit form actions - submit form data to a server	Yes
Reset form actions - reset form fields to default values Hide actions - show or hide form fields	Yes Yes
- flue actions - show of flue form fletus	163
PDF FUNCTIONS	
• Sample based functions (Type 0)	Yes
• Exponential functions (Type 2)	Yes
• Stitching functions (Type 3)	Yes
Postscript calculator functions (Type 4)	Yes
TEXT SEARCH	
Search text in PDF pages with support for regular search, case sensitive	Yes
search, whole word search and regular expression search	
CONTENT EXTRACTION	
Extract text with position information at fragment level and glyph level	Yes
Extract text as words with position information at word level and glyph level	Yes
• Extract text as lines with position information at line level and glyph level	Yes
Extract text and words from user defined regions	Yes
Extract images including image information such as: image size in pixels, The second of th	Yes
bits per pixel, colorspace, image position on the PDF page, image size on the PDF page, image horizontal and vertical resolution	
Extract page content as a sequence of path, text, image and	Yes
shading objects	
Extract optional content groups as vector drawings	Yes
• Extract page content as vector drawings (including annotations and form fields)	Yes
CONTENT TRANSFORMATION	
Convert page content to RGB	Yes
Convert page content to CMYK	Yes
Convert page content to Grayscale	Yes
Convert images to Grayscale	Yes
Replace page images	Yes
Remove page images	Yes
CONTENT REDACTION	
• Text redaction	Yes
Image redactionRedaction annotations	Yes Yes
PDF PORTFOLIOS	
Create and load PDF portfolios	Yes
• Define portfolio attributes and define sort order for portfolio items	Yes
Add and remove portfolio items	Yes
Organize portfolio items into folders	Yes

LOW LEVEL COS API

Add, edit and remove COS objects	Yes
Supported COS objects: strings, numbers, names, booleans, nulls,	Yes
arrays, dictionaries and streams	
PDF RENDERING (included in PDF4NET+Render package)	
Convert PDF pages to color, grayscale and black & white images	Yes
Convert PDF pages to RAW, PNG and TIFF (single and multi-page)	Yes
Ultra-high dpi support - convert PDF pages to images up to 32bpp 65536x65536 pixels	Yes
Native RGBA, BGRA, ARGB, RGB, BGR and Grayscale rendering	Yes
Built-in graphic engine that produces pixel matched results across all supported platforms	Yes
• Selective content rendering: text and/or vector graphics and/or images and/or form fields and/or annotations	Yes
Supported PDF features:	Yes
- Stroked and filled vector graphics	Yes
- Clipping paths including text based clipping paths	Yes
- Text (all text rendering modes)	Yes
- Fonts (standard PDF fonts, embedded fonts, TrueType, Type1, Type3)	Yes
- Images (RAW, DCT/JPEG, CCITT, JPEG2000, JBIG2, inline) with associated masks if present	Yes
- Colorspaces (RGB, CMYK, Gray, CalRGB, CalGray, Lab, ICC, Separation, DeviceN, Indexed)	Yes
- Graphics state soft masks	Yes
- Transparency groups	Yes
- Blend modes	Yes
- PDF patterns	Yes
- PDF shadings (gradients)	Yes
LICENSING	
Per developer licensing with royalty free distribution	Yes

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