

datasheet

PDFlib, PDFlib+PDI, PDFlib Personalization Server (PPS) 7

What is PDFlib?

PDFlib is the leading developer toolbox for generating and manipulating files in Adobe's well known Portable Document Format (PDF). PDFlib's main targets are dynamic PDF creation on a Web server or any other server system, and to implement »Save as PDF« in existing applications. You can use PDFlib to dynamically create PDF documents from database contents, similar to dynamic Web pages. PDFlib has proven itself in a wide range of other use cases as well. Application programmers need only decent graphics or print output experience to be able to use PDFlib quickly. Since PDFlib frees you from the technicalities of the PDF file format, you can focus on acquiring the data and arranging text, graphics, and images on the page.

The PDFlib product family is available in three different flavors: PDFlib, PDFlib+PDI (PDF Import), and PDFlib Personalization Server (PPS).

PDFlib

PDFlib offers all functions required to generate PDF documents with text, graphics, images, and interactive elements such as annotations or bookmarks. Use PDFlib for the following tasks:

- ▶ Add »Save as PDF« capability to your application
- ▶ Create PDF documents on a Web server in real time
- ▶ Create database reports in PDF
- ▶ Create PDF/X documents for commercial printing
- ▶ Convert TIFF, JPEG, or other image formats to PDF
- ▶ Create PDF/A for archiving

PDFlib+PDI (PDF Import)

PDFlib+PDI includes all PDFlib functions plus the PDF Import Library (PDI). With PDI you can open existing PDF documents and incorporate some pages into the PDFlib output. Use PDFlib+PDI for all PDFlib tasks plus the following:

- ▶ Impose multiple PDF pages on a single sheet for printing
- ▶ Add text, such as headers, footers, stamps, or page numbers to existing PDF pages
- ▶ Place images, e.g. company logo, on existing pages
- ▶ Add barcodes to existing PDF pages
- ▶ Assemble existing PDF pages
- ▶ Add content to PDF/X or PDF/A documents

PDFlib Personalization Server (PPS)

PDFlib Personalization Server (PPS) includes PDFlib+PDI plus additional functions for variable data processing using PDFlib blocks. PPS makes applications independent from layout changes. The designer creates the page layout and converts it to PDF. She takes into account areas as placeholders for variable text and images. In Acrobat she drags a rectangular block for each area using the PDFlib Block Plugin. Each block contains a variety of block properties, such as font size, color, image scaling.

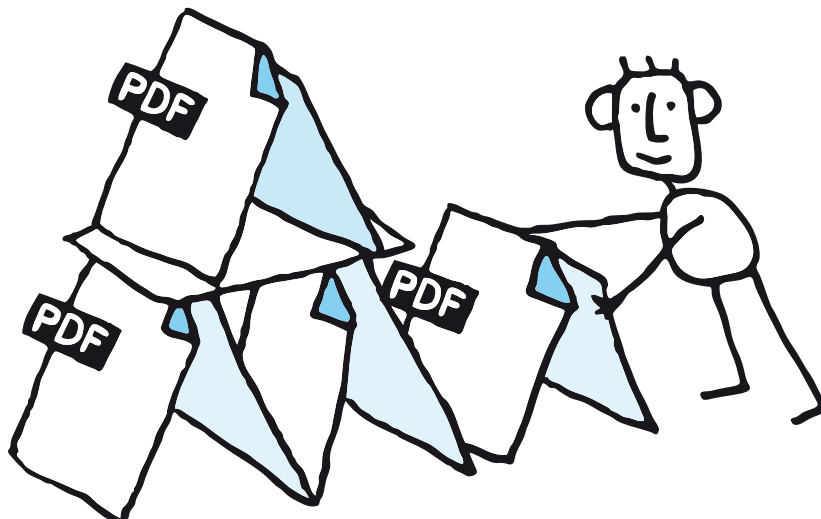
The programmer writes code to fill PDFlib blocks with text or images. He doesn't need to know the formatting or position of a block. Use PPS for all PDFlib+PDI tasks plus the following:

- ▶ Customize direct mailings with text and images
- ▶ Fill templates for transactional and statement processing
- ▶ Personalize promotional material with address data
- ▶ Generate individual parts catalogs from a database
- ▶ Produce customized documentation for multiple similar products

Feature Overview of the PDFlib 7 Suite

PDF Output	PDF documents of arbitrary length, directly in memory (for Web servers) or on disk file Suspend/resume and insert page features to create pages out of order
PDF Flavors	PDF 1.3 – 1.7 for compatibility with Acrobat 4 – 8, Tagged PDF, PDF/A, PDF/X Linearized (web-optimized) PDF for byteserving over the Web
PDF Input	Import pages from existing PDF documents (only PDFlib+PDI and PPS) pCOS interface for querying details about imported PDF documents Deletion of redundant objects (e.g. identical fonts) across multiple imported PDF documents Workarounds for malformed PDF input
Blocks	PDF personalization with PDFlib blocks for text, image, and PDF data (only PPS) PDFlib Block plugin for creating PDFlib blocks interactively in Adobe Acrobat Textflow blocks can be linked so that one block holds the overflow text of a previous block List of Pantone® and HKS® spot color names integrated in the Block plugin
Graphics	Common vector graphics primitives: lines, curves, arcs, rectangles, etc. Smooth shadings (color blends), pattern fills and strokes Transparency (opacity) and blend modes Layers: optional page content which can selectively be displayed; annotations can be placed on layers; layers can be locked
Fonts	TrueType (TTF and TTC) and PostScript Type 1 fonts (PFB and PFA, plus LWFN on the Mac) OpenType fonts (TTF, OTF) with PostScript or TrueType outlines AFM and PFM PostScript font metrics files Font embedding for all font types; subsetting for Type 3, TrueType and OpenType fonts Directly use fonts which are installed on the Windows or Mac host system User-defined (Type 3) fonts for bitmap fonts or custom logos
Text Output	Text output in different fonts; underlined, overlined, and strikethrough text Glyphs in a font can be addressed by numerical value, Unicode value, or glyph name Kerning for improved character spacing Artificial bold and italic font styles Proportional widths for standard CJK fonts Direct glyph selection for advanced typesetting applications Configurable replacement of missing glyphs
Internationalization	Unicode strings for page content, interactive elements, and file names; UTF-8, UTF-16, and UTF-32 formats, little- and big-endian Support for a variety of 8-bit and legacy CJK encodings (e.g. SJIS; Big5) Fetch code pages from the system (Windows, IBM eServer iSeries and zSeries) Standard CJK fonts and CMaps for Chinese, Japanese, and Korean text Custom CJK fonts in the TrueType and OpenType formats Embed Unicode information in PDF for correct text extraction in Acrobat
Images	Embed BMP, GIF, PNG, TIFF, JPEG, JPEG 2000, and CCITT raster images Automatic detection of image file formats (file format sniffing) Interpret clipping paths in TIFF and JPEG images Transparent (masked) images including soft masks Image masks (transparent images with a color applied) Colorize images with a spot color
Color	Grayscale, RGB, CMYK, CIE L*a*b* color Integrated support for PANTONE® colors (2006 edition) and HKS® colors User-defined spot color
Color Management	ICC-based color with ICC profiles: honor embedded profiles in images, or apply external profiles to images Rendering intent for text, graphics, and raster images Default gray, RGB, and CMYK color spaces to remap device-dependent colors

Prepress	<p>Generate output conforming to PDF/X-1a, PDF/X-2, and PDF/X-3</p> <p>Embed output intent ICC profile or reference standard output intent</p> <p>Copy output intent from imported PDF documents (only PDFlib+PDI and PPS)</p> <p>Create OPI 1.3 and OPI 2.0 information for imported images</p> <p>Separation information (PlateColor)</p> <p>Settings for text knockout, overprinting etc.</p>
Archiving	Generate output conforming to PDF/A-1a:2005 and PDF/A-1b:2005 (ISO 19005-1)
Formatting	<p>Textflow engine for formatting arbitrary amounts of text into one or more rectangular areas, with hyphenation, font and color changes, various justification methods, tabs, leaders, control commands; wrap text around images</p> <p>Flexible image placement and formatting</p> <p>Table formatter places rows and columns and automatically calculates their sizes according to a variety of user preferences. Tables can be split across multiple pages.</p> <p>Table cells can hold single- or multi-line text, images, or PDF pages, and can be formatted with ruling and shading options.</p> <p>Flexible stamping function</p> <p>Matchbox concept for referencing the coordinates of placed images or other objects</p>
Security	<p>Encrypt PDF output with RC4 or AES encryption algorithms</p> <p>Specify permission settings (e.g. printing or copying not allowed)</p> <p>Import encrypted documents (master password required; only PDFlib+PDI and PPS)</p>
Interactive Elements	<p>Create form fields with all field options and JavaScript</p> <p>Create actions for bookmarks, annotations, page open/close and other events</p> <p>Create bookmarks with a variety of options and controls</p> <p>Page transition effects, such as shades and mosaic</p> <p>Create all PDF annotation types, e.g. PDF links, launch links (other document types), Web links</p> <p>Named destinations for links, bookmarks, and document open action</p> <p>Create page labels (symbolic names for pages)</p>
Multimedia	Embed 3D models in U3D format
Tagged PDF	<p>Create Tagged PDF and structure information for accessibility, page reflow, and improved content repurposing</p> <p>Links and other annotations can be integrated in the document structure</p> <p>Easily format large amounts of text for Tagged PDF</p>
Metadata	<p>Integrate XMP metadata from conventional document info fields or from client-supplied XMP streams</p> <p>Document information: standard fields (Title, Subject, Author, Keywords) and user-defined fields</p>
Programming	<p>Language bindings for Cobol, COM, C, C++, Java, .NET, Perl, PHP, Python, REALbasic, RPG, Ruby, Tcl</p> <p>Virtual file system for supplying data in memory, e.g. images from a database</p>



Supported Development Environments

PDFlib is everywhere – it runs on practically all computing platforms. We offer variants for all common flavors of Windows, Mac OS, Linux and Unix, as well as for IBM eServer iSeries and zSeries mainframes.

The PDFlib core is written in highly optimized C code for maximum performance and small overhead. Via a simple API (Application Programming Interface) the PDFlib functionality is accessible from a variety of development environments:

- ▶ COM for use with VB, ASP, Borland Delphi, etc.
- ▶ C and C++
- ▶ Cobol (IBM eServer zSeries)
- ▶ Java, including servlets and Java Application Server
- ▶ .NET for use with C#, VB.NET, ASP.NET, etc.
- ▶ PHP
- ▶ Perl
- ▶ Python
- ▶ REALbasic
- ▶ RPG (IBM eServer iSeries)
- ▶ Ruby
- ▶ Tcl

Benefits of using PDFlib Software

Rock-solid Products

Tens of thousands of programmers worldwide are working with our software. PDFlib products meet all quality and performance requirements for server deployment. All products are suitable for robust 24x7 server deployment and unattended batch processing.

Speed and Simplicity

PDFlib products are incredibly fast – up to thousands of pages per second. The programming interface is straightforward and easy to learn.

PDFlib Products all over the World

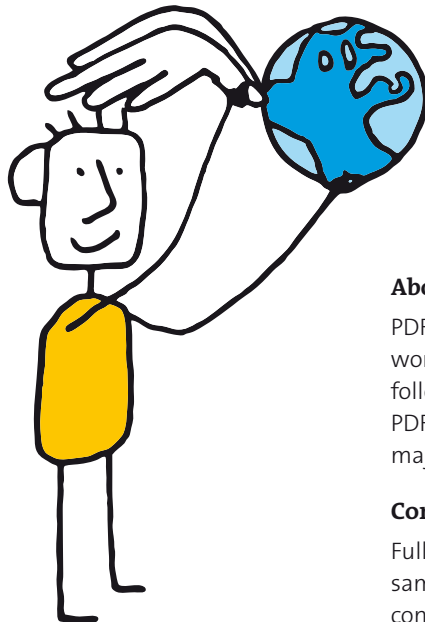
Our products support all international languages as well as Unicode. They are used by customers in all parts of the world.

Professional Support

If there's a problem, we will try to help. We offer commercial support to meet the requirements of your business-critical applications. By adding support you will have access to the latest versions, and have guaranteed response times should any problems arise.

Licensing

We offer various licensing programs for server licenses, integration and site licenses, and source code licenses. Support contracts for extended technical support with short response times and free updates are also available.



About PDFlib GmbH

PDFlib GmbH is completely focused on PDF technology. Customers worldwide use PDFlib products since 1997. The company closely follows development and market trends, such as ISO standards for PDF. PDFlib GmbH products are distributed all over the world with major markets in North America, Europe, and Japan.

Contact

Fully functional evaluation versions including documentation and samples are available on our Web site. For more information please contact:



PDFlib GmbH

Franziska-Bilek-Weg 9, 80339 München, Germany
phone +49 • 89 • 452 33 84-0, fax +49 • 89 • 452 33 84-99
sales@pdflib.com
www.pdflib.com