

Features in PDFlib/PDFlib+PDI/PPS 7

The following lists the major features of *PDFlib*, *PDFlib+PDI*, and the *PDFlib Personalization Server (PPS)* for generating and importing PDF. New or improved features in PDFlib 7 are marked.

Topic	Features
PDF output	<i>PDF documents of arbitrary length, directly in memory (for Web servers) or on disk file</i> <i>suspend/resume and insert page features to create pages out of order</i>
PDF flavors	<i>PDF 1.3 - 1.6 (Acrobat 4 - 7), PDF/A, PDF/X</i> <i>linearized (web-optimized) PDF for byteserving over the Web</i>
PDF input	<i>import pages from existing PDF documents (only PDFlib+PDI and PPS)</i> <i>pCOS interface for querying details about imported PDF documents¹</i> <i>delete redundant objects (e.g. identical fonts) across multiple imported PDF documents¹</i> <i>workarounds for malformed PDF input¹</i>
Blocks	<i>PDF personalization with PDFlib blocks for text, image, and PDF data (only PPS)</i> <i>PDFlib Block plugin for creating PDFlib blocks interactively in Adobe Acrobat</i> <i>Textflow blocks can be linked so that one block holds the overflow text of a previous block</i> <i>list of Pantone and HKS spot color names integrated in the Block plugin¹</i>
Graphics	<i>common vector graphics primitives: lines, curves, arcs, rectangles, etc.</i> <i>smooth shadings (color blends), pattern fills and strokes</i> <i>transparency (opacity) and blend modes</i> <i>layers: optional page content which can selectively be enabled; annotations can be placed on layers; layers can be locked.¹</i>
Fonts	<i>TrueType (TTF and TTC) and PostScript Type 1 fonts (PFB and PFA, plus LWFN on the Mac)</i> <i>OpenType fonts (TTF, OTF) with PostScript or TrueType outlines</i> <i>AFM and PFM PostScript font metrics files</i> <i>directly use fonts which are installed on the Windows or Mac host system</i> <i>font embedding for all font types; subsetting for Type 3¹, TrueType and OpenType fonts</i> <i>user-defined (Type 3) fonts for bitmap fonts or custom logos</i>
Text output	<i>text output in different fonts; underlined, overlined, and strikethrough text</i> <i>glyphs in a font can be addressed by numerical value, Unicode value, or glyph name¹</i> <i>kerning for improved character spacing</i> <i>artificial bold and italic font styles¹</i> <i>proportional widths for standard CJK fonts</i> <i>direct glyph selection for advanced typography¹</i>

Topic	Features
Internationalization	Unicode strings for page content, interactive elements, and file names; UTF-8, UTF-16, and UTF-32 ¹ formats, little- and big-endian
	support for a variety of 8-bit and legacy CJK encodings (e.g. SJIS; Big5) ¹
	fetch code pages from the system (Windows, IBM eServer iSeries and zSeries)
	standard CJK font and CMaps for Chinese, Japanese, and Korean text ¹
	custom CJK fonts in the TrueType and OpenType formats ¹
	embed Unicode information in PDF for correct text extraction in Acrobat
Images	embed BMP, GIF, PNG, TIFF, JPEG, JPEG2000, and CCITT raster images
	automatic detection of image file formats (file format sniffing)
	interpret clipping paths in TIFF and JPEG images ¹
	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 ¹) and HKS® colors
	user-defined spot colors
Color management	ICC-based color with ICC color 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	generate output conforming to PDF/X-1a, PDF/X-2, and PDF/X-3
	embed output intent ICC profile or reference standard output intent
	copy output intent from imported PDF documents (only PDFlib+PDI and PPS)
	create OPI 1.3 and OPI 2.0 information for imported images
	separation information (PlateColor)
	graphics state parameters for text knockout, overprinting etc.
Archiving	generate output conforming to PDF/A-1a:2005 and PDF/A-1b:2005 ¹
Formatting	Textflow: format arbitrary amounts of text into one or more rectangular areas with hyphenation, font and color changes, various justification methods, tabs, leaders ¹ , control commands
	flexible image placement and formatting
	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. Table cells can hold single- or multi-line text, images, or PDF pages, and can be formatted with ruling and shading options. ¹
	flexible stamping function ¹
	Matchbox concept for referencing the coordinates of placed images or other objects ¹
Security	generate output with 40-bit or 128-bit encryption, RC4 or AES ¹ encryption algorithms
	Specify permission settings (e.g. printing or copying not allowed)

Topic	Features
	<i>import encrypted documents (master password required; only PDFlib+PDI and PPS)</i>
Interactive elements	<i>create form fields with all field options and JavaScript</i>
	<i>create actions for bookmarks, annotations, page open/close and other events</i>
	<i>create bookmarks with a variety of options and controls</i>
	<i>page transition effects, such as shades and mosaic</i>
	<i>create all PDF annotation types, such as PDF links, launch links (other document types), Web links</i>
	<i>named destinations for links, bookmarks, and document open action</i>
	<i>create page labels (symbolic names for pages)</i>
Multimedia	<i>embed 3D animations in U3D format¹</i>
Tagged PDF	<i>create Tagged PDF and structure information for accessibility, page reflow, and improved content repurposing</i>
	<i>easily format large amounts of text for Tagged PDF</i>
Metadata	<i>integrate XMP metadata from conventional document info fields or from client-supplied XMP streams; custom XMP schemas supported</i>
	<i>document information: standard fields (Title, Subject, Author, Keywords) plus user-defined fields</i>
Programming	<i>language bindings for Cobol, COM, C, C++, Java, .NET, Perl, PHP, Python, REALbasic, RPG, Ruby, Tcl</i>
	<i>virtual file system for supplying data in memory, e.g., images from a database</i>

1. New or considerably improved in PDFlib/PDFlib+PDI/PPS 7