

Adobe PDF Library (APDFL)

Overview

The Adobe PDF Library is a Software Development Kit (SDK) and library of Application Programming Interfaces (API) for working with the PDF document format.

Software developers and systems integrators use the Library to build their own third-party applications that they use to open and render, create, change, process, review, print, and manage PDF files.

Adobe, Inc. used the Adobe PDF Library as the basis for creating their popular Adobe Acrobat software tool and so the Library is fully compatible with Acrobat DC and with the Adobe Reader.

Functionality

- The Adobe PDF Library is a Software Development Kit (SDK) and library of Application Programming Interfaces (API) for working with the PDF document format.
- Software developers and systems integrators use the Library to build their own third-party applications that they use to open and render, create, change, process, review, print, and manage PDF files.
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In-Depth Look

The Adobe PDF Library is an excellent choice for high-volume processing functions such as document management, knowledge management, prepress workflows, document archiving, business reporting, electronic statements, paper-to-digital conversions, content management, content extraction, indexing, and searching.

The Library works efficiently with hardware using multiple processors and provides multi-threading support and excellent memory management. It also provides an in-memory file system to boost the performance of high-volume PDF processing applications.

The PDF format is the global standard for secure and reliable distribution of electronic content. PDF documents preserve the fonts, images, graphics, text and layout regardless

of the application used to generate them or the platform used to render them.

The Adobe PDF Library was created in 1993, around the same time as the PDF format itself, and Adobe Acrobat. It is built using C/C++ code, but Datalogics also provides a Java and .NET interface that encapsulates the Adobe PDF Library. This allows developers to work with the core Library functions and resources directly and seamlessly using modern programming languages.

Compatibility

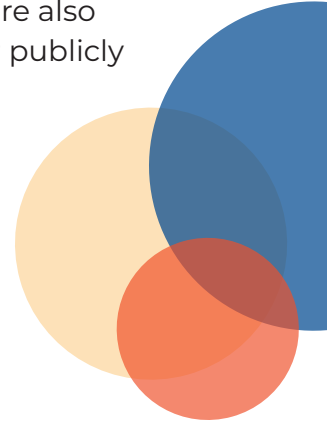
The Adobe PDF Library is compatible with Windows, Mac, Linux, Sparc Solaris, IBM AIX, and Intel platforms (32 and 64 bit), and you can use the Library to build or convert PDF documents that are fully compatible with PDF version 2.0.

The Datalogics Offering

Datalogics, Inc. offers Adobe PDF Library on behalf of Adobe, Inc., and provides full support for all of our customers. We also provide regular updates to the software.

Datalogics provides comprehensive user documentation online for the Adobe PDF Library, complete with a full index, as well as API references for the Java and .NET interfaces (created as HTML content using Doxygen) and a matching API reference for the C++ core library. We also provide a wide variety of sample program files with the product, in C++, Java, and C#.

You can use these sample programs to study and test Library functions, or as models for developing your own software. You must have installed Adobe PDF Library to run these products, but the samples are also provided for free for review on our publicly accessible [GitHub repository](#).



Feature List

Features	Description
Create	Dynamically generate Adobe PDF files of over 200 by 200 inches and up to 2GB in size.
Edit	Control parsing and manipulation of content in Adobe PDF files.
Assemble Documents	Insert, delete, and extract pages from an Adobe PDF file. Merge several Adobe PDF files into a single file.
Use fonts	Embed and subset fonts for reliable viewing and printing. The product supports a wide range of Unicode and double-byte fonts, including Arabic, Chinese, Cyrillic, Hebrew, Japanese, and Korean.
Implement Pre-press workflows	Enable prepress workflows using Adobe PDF that support color management, transparency flattening, color separation, and querying about permissions for font embedding.
Print	Use server-based, high-volume printing and variable data printing.
Linearize and optimize	Create PDF files for delivery via the web.
Compress	Create compact PDF files. Supports JPEG2000, CCITT, LZW, Flate, and JBIG2 compression protocols.
Provide security features	Password-protect PDF files to restrict viewing, printing, and editing.
Extract content	Extract text, metadata, images, and graphics from PDF files.
Search and index	Create indexes of PDF files. Supports a wide variety of languages, including Arabic, Chinese, Hebrew, Japanese, and Korean.
Provide layers	Enable the creation of optional layers for selective viewing of contents.

Features	Description
Convert to PDF/A	Generate output that conforms to the PDF/A Archive standard, including PDF/A-1b, 1a, 2b, 2u, 3b, and 3u. Generate PDF/A documents that satisfy the European ZUGFeRD standard for electronic invoices.
Convert to PDF/X	Use the PDFProcessor plug-in to convert an existing PDF into a file compliant with the PDF/X-1a or PDF/X3 graphic exchange standard.
Render forms	Render PDF form documents, import and export data into and from forms fields, and flatten PDF forms into standard PDF form documents. Adobe PDF Library can work with both AcroForm and XFA forms, and can convert XFA forms documents into AcroForms.
Use OCR	Use Optical Character Recognition to identify and export text found in graphics embedded in pages found in PDF documents. The OCR utility in the Library supports English, Dutch, German, Italian, French, Spanish, Portuguese, Mandarin, Japanese, and Korean fonts.
Redact content	Redact portions of existing PDF documents to remove sensitive content.
Add watermarks	Apply watermarks to PDF documents to secure copyrighted material.
Optimize documents	Use the built-in Optimizer tool to reduce the size of PDF documents and make them more efficient for opening in a browser window or distributing as email file attachments. Linearize a PDF document to make it open more quickly in a web browser.

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