



# PDFlib pCOS 2

## PDF Information Retrieval Tool



### What is PDFlib pCOS?

PDFlib pCOS provides a simple and elegant facility for retrieving any information from a PDF document which is not part of the page contents. For example, PDF metadata, interactive elements (links etc.), or page dimensions can easily be queried with pCOS.

With pCOS you can extract a variety of interesting items and create output for different purposes. By processing multiple PDF documents with a single call you can easily create summaries of document info entries, page formats, fonts, or any other property. Combined with tabular output this provides a powerful PDF administration tool.

There are many every-day pCOS applications for PDF practitioners, but you can also use PDFlib pCOS as a tool for learning or debugging PDF. Here are some typical scenarios:

- ▶ Check incoming documents for predefined criteria
- ▶ Check PDFs for security problems and active content (JavaScript etc.)
- ▶ Check documents for quality assurance before publication
- ▶ Identify problem files in a large collection
- ▶ Create property summaries for document management
- ▶ Learn details of PDF data structures

### PDFlib pCOS Features

#### Supported Input

PDFlib pCOS supports all relevant flavors of PDF input:

- ▶ All PDF versions up to PDF 1.7 (Acrobat 8)
- ▶ RC4 and AES encryption (password may be required)
- ▶ Sophisticated security model: even if you don't know the password, you can query certain pieces of information as long as this doesn't violate the document author's intentions
- ▶ Damaged PDF input documents will be repaired if possible

#### Information Retrieval

PDFlib pCOS offers a simple query interface, without the need for low-level parser programming. With PDFlib pCOS you can extract a variety of interesting items, such as:

- ▶ Document info entries and XMP metadata

- ▶ General information: linearization and tagged PDF status, encryption details and permission settings, number of pages and fonts
- ▶ All fonts with their name, embedding status, etc.
- ▶ Images with size, bit depth, color space, compression, etc.
- ▶ Color space details for all PDF color variations
- ▶ Target URLs and coordinates of Web links
- ▶ All bookmarks along with the corresponding page numbers, e.g. to create a table of contents
- ▶ Form field data: full field names, contents, position, etc.
- ▶ Page size, CropBox, page rotation
- ▶ Status of PDF/X and PDF/A compliant files
- ▶ List or extract file attachments
- ▶ Layer names, page labels, article threads
- ▶ Annotation details
- ▶ List all comments along with the reviewer's name
- ▶ Digital signature details: name of signature field(s), signed/unsigned, name of signer, date and reason of signature
- ▶ Extract ICC output intent profiles from PDF/X or PDF/A files
- ▶ List PDFlib block properties
- ▶ JavaScript on document, page, annotation, or field level

#### Output Formats

PDFlib pCOS can create output for different purposes:

- ▶ Plain text output
- ▶ Tabular output for processing with a spreadsheet/database
- ▶ Binary data for reuse, e.g. ICC profiles or file attachments
- ▶ Unicode text output in UTF-8 or UTF-16 formats
- ▶ User-defined output formats for custom post-processing

#### pCOS Paths – Simple Syntax for PDF Objects

Instead of getting bogged down by complex tree structures, e.g. for bookmarks or form fields, you can easily access PDF objects by using the simple pCOS path syntax. It offers convenient shortcuts for accessing commonly used PDF objects, such as pages, fonts, bookmarks, form fields etc.

## pCOS Library or Command-Line Tool?

pCOS is available as a programming library (component) for various development environments, and as a command-line tool for batch operations. Both offer similar features, but are suitable for different deployment tasks.

### The pCOS programming library is used...

...for integration into desktop or server applications. Examples for using the library with all supported language bindings are included in the pCOS package. A variety of additional examples is available in the pCOS Cookbook on the PDFlib Web site.

### The pCOS command-line tool is suited...

...for batch processing PDF documents. It doesn't require any programming, but offers powerful command-line options which can be used to integrate it into complex workflows. The pCOS command-line tool extends the features of the library:

- ▶ Simple retrieval of common PDF elements, such as book-marks, annotations, metadata, form fields, etc.
- ▶ Extended mode for querying more complex objects and customizing the output format
- ▶ Extract data items such as file attachments, ICC profiles, etc.
- ▶ Emit information as comma-separated values or a user-defined format for import into a spreadsheet or database
- ▶ Recursion feature for dumping composite PDF objects, such as dictionaries and arrays

## Supported Development Environments

PDFlib pCOS is everywhere – it runs on practically all computing platforms. We offer variants for all common flavors of Windows, Mac OS, Linux and Unix.

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

- ▶ COM for use with VB, ASP, and many other languages
- ▶ C and C++
- ▶ Java, including servlets and Java Application Server
- ▶ .NET for use with C#, VB.NET, ASP.NET, etc.
- ▶ Perl
- ▶ PHP

## 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.

## Benefits of using PDFlib Software

### Rock-solid Products

Tens of thousands of programmers worldwide are working with our software. PDFlib meets all quality and performance requirements for server deployment. All PDFlib 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 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.

## About PDFlib GmbH

PDFlib GmbH is completely focused on PDF technology for software developers. 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