### to assist you in setting up new openings

# precisely fit software



Yes

Yes

Yes

## Products: PDF4Java

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#### **FEATURES**

• Attribute classes

• Automatic tagging of flow documents

• PDF/UA-1

PDF4Java is a Java library for generating and importing PDF documents on the fly from any Java 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 PDF4Java 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 desktop and server applications without any restrictions. The library is written entirely in Java, being 100% Java.

The PDF4Java library is licensed per developer and can be distributed ROYALTY FREE, reducing your project costs.

The main features of PDF4Java library are outlined below (features marked with 'Dev' are under development):

SUPPORTED PLATFORMS	
Java 8 and higher	Yes
Desktop applications	Yes
Console applications	Yes
• Server applications	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
Partial document loading and saving	Yes
LOGICAL STRUCTURE & TAGGED PDF & ACCESSIBILITY	
Logical document structure	Yes
Tagged PDF	Yes
Structure tree and structure elements	Yes
ID map	Yes
• Role map	Yes
Structure element attributes	Yes
And the second destroyees	103

Yes

Yes

#### FLOW DOCUMENT FEATURES

• Full color emojis and SVG fonts

• Advanced TrueType features:

FLOW DOCUMENT FEATURES	
Mixed formatted text	Yes
Superscript/subscript text	Yes
• Images	Yes
Form XObjects	Yes
• Annotations	Yes
• Tables	Yes
Headers and footers	Yes
• Table of contents	Yes
Automatic tagging for accessibility	Yes
Before/After draw events for flow content	Yes
CECURTY	
SECURITY	
User and owner passwords	Yes
Document access rights	Yes
• 40 bit and 128 bit RC4 encryption	Yes
• 128 bit and 256 bit AES encryption	Yes
• Content redaction	Yes
Disable text copy/paste	Yes
DIGITAL SIGNATURES	
Approval and certifying digital signatures with X509 certificates	Dev
Basic CMS and PAdES digital signatures with SHA256 / SHA384 / SHA512	Dev
Signature timestamps	Dev
OCSP and CRL information included in digital signatures	Dev
Document security store	Dev
Document timestamps	Dev
• LTV (Long Term Validation) enabled digital signatures	Dev
• Support for hardware signature tokens/smartcards (Windows, WPF, Mac)	Dev
Externally computed signatures	Dev
Load digital signatures from signed PDF files	Dev
Decode existing signatures into basic ASN.1 blocks	Dev
Extract the certificate from digital signatures	Dev
Save the signed copy of a PDF document	Dev
GRAPHICS FEATURES	
Grid layout for fixed content positioning	Yes
Flow layout for relative content positioning	Yes
All PDF color spaces: DeviceRGB, DeviceCMYK, DeviceGray, Indexed, CalGray, CalRGB, Lab, ICC, Separation,     DeviceDeviceDeviceCMYK, DeviceGray, Indexed, CalGray, CalRGB, Lab, ICC, Separation,	Yes
DeviceN and PANTONE colors	Yes
<ul> <li>Pen and brush objects for stroking and filling operations</li> <li>Hatch style brushes</li> </ul>	Yes
Graphics primitives: lines, ellipses, rectangles, rounded rectangles, arcs, pies, chords, Bezier curves, paths	Yes
• Clipping paths	Yes
Images (see Images section) and form XObjects	Yes
• Transparency groups	Yes
Single line and multi line text with vertical and horizontal aligment, including justified text	Yes
• Extended graphics states with support for fill and stroke alpha, blend modes and overprinting	Yes
Affine transformations: multiply, translate, rotate and scale	Yes
Shadings - function, axial and radial	Yes
Patterns - colored, uncolored and shading	Yes
• Optional content (layers) with support for custom display trees, multipage and mixed layers	Yes
Barcodes (see Barcodes section)	Yes
Drawing of external page content (page imposition)	Yes
Low level PDF graphics for full control over the page content stream	Yes
<ul> <li>Formatted content (paragraphs, text blocks, styled text, links inside text, bullet lists)</li> <li>Tables (simple and composite cells, column spans, row spans, borders)</li> </ul>	Yes Yes
- idules (simple and composite cens, column spans, now spans, borders)	165
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 tout servicests for United TrusTure forts	\/ · ·
Disable text copy/paste for Unicode TrueType fonts     Full color emois and SVG fonts	Yes

Load images from files and streams Ping, Ping, Gif, Joeg, Tiff and Raw images Ping, Ping, Gif, Joeg, Tiff and Raw images Automatic image type detection Set along JPEG images Post lange IPEG images Post lang		
- Small capitales / Yes  IMAGES  **Load images from files and streams / Yes  **Load images from files and streams / Yes  **Load images from files and streams / Yes  **Lorny, Giff, Joeg, Jiff and Raw images / Yes  **Lottrastic image type detection / Yes  **Lottrastic image type detection / Yes  **Lottrastic images from Buffered/Image / Yes  **Lottrastic images from Buffered/Image / Yes  **Create images from Buffered/Image / Yes  **Lottrastic images from Buffered/Image / Yes  **Life to PDF conversion with CCITT G4 compression for BfW images / Yes  **Life to PDF conversion with CCITT G4 compression for BfW images / Yes  **Life to PDF conversion with CCITT G4 compression for BfW images / Yes  **Alternate images for printing / Yes  **Alternate images for printing / Yes  **Lott of PDF conversion / Yes  **Lott in Vector barcode engine, no barcode images or barcode fonts  **Yes  **Lott in Vector barcode engine, no barcode images or barcode fonts  **Yes  **Lott in Vector barcode engine, no barcode images or barcode fonts  **Yes  **Lott in Vector barcode engine, no barcode images or barcode fonts  **Yes  **Lott in Vector barcode engine, no barcode images or barcode fonts  **Yes  **Lott in Vector barcode engine, no barcode images or barcode fonts  **Yes  **Lott in Vector barcode engine, no barcode foot engine, no barcode fort engine for engine for engine for engi	- Ligatures	Yes
**Load images from files and streams	- Vertical glyphs	Yes
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* Automatic image type detection   * Fortra large IPEG images   * Extra large ITEF images (Zebpp and 32bpp, uncompressed, zip, Izw)   * Yes   * Create images from Bufferedimage   * Native support for TITF (grayscale, RGB and CMYK), JPEG, PNG and RAW images   * TIFF to PDF conversion with CCITT (44 compression for R/W images   * Alternate images for printing   * Yes   * SVE to PDF conversion   * Yes   * Alternate images for printing   * Yes   * SVE to PDF conversion   * Yes   * Alternate images for printing   * Yes   * SVE to PDF conversion   * Yes   * Duridimensional barcodes:   * Yes   * Code 128 B, Code 128 C, COOP 25, Matrix 26, Matrix		
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Create images from BufferedImage  Nes Native support for TIFF (grayscale, RGB and CMYK), JPEG, PNG and RAW images  Yes ITIF to PDF conversion with CCITT G4 compression for 8,/W images  Alternate images for printing  Yes Alternate images for printing  Yes  SNG to PDF conversion  Wes  BARCODES  Built in vector barcode engine, no barcode images or barcode fonts  Ves  Unidimensional barcodes: (Yes  Generic barcodes: Godabar, Code 11, Code 25, Code 25 Interleaved, Code 39, Code 39 Settended, Code 39, Code 39 Settended, Code 128 A, Code 128 B, Code 128 C, COOP 25, Matrix 25, MSI/Plessey  - Pharmaceutical barcodes: Code 32, Pharmacode, PPA CALLED CALLE	• Extra large JPEG images	Yes
Create images from BufferedImage  Nes Native support for TIFF (grayscale, RGB and CMYK), JPEG, PNG and RAW images  Yes ITIF to PDF conversion with CCITT G4 compression for 8,/W images  Alternate images for printing  Yes Alternate images for printing  Yes  SNG to PDF conversion  Wes  BARCODES  Built in vector barcode engine, no barcode images or barcode fonts  Ves  Unidimensional barcodes: (Yes  Generic barcodes: Godabar, Code 11, Code 25, Code 25 Interleaved, Code 39, Code 39 Settended, Code 39, Code 39 Settended, Code 128 A, Code 128 B, Code 128 C, COOP 25, Matrix 25, MSI/Plessey  - Pharmaceutical barcodes: Code 32, Pharmacode, PPA CALLED CALLE		Yes
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* Image masks: color masks, stencil mask and soft masks  * Alternate images for printing  * SVG to PDF conversion  * Built in vector barcode engine, no barcode images or barcode fonts  * Unidimensional barcodes:  * Code 128 B, Code 128 C, COOP 25, Matrix 25, MSI/Nessey  * Pharmaceutical barcodes: Codabar, Code 11, Code 25, Code 25 Interleaved,  * Code 128 B, Code 128 C, COOP 25, Matrix 25, MSI/Nessey  * Pharmaceutical barcodes: Code 32, Pharmacode,  * PEN (Pharma-Zentral-Nummer)  * Pen (Pharma-Zentral-N	Native support for TIFF (grayscale, RGB and CMYK), JPEG, PNG and RAW images	Yes
* Alternate images for printing  * Ves  * SVG to PDF Conversion  **BARCODES  **Bulkt in vector barcode engine, no barcode images or barcode fonts  **Pull Unifidemissional barcodes:  **Pes**  - Generic barcodes: Codabap, Code 11, Code 25, Code 25 Interleaved, Code 39, Code 30, Code 39, Extended, Code 128 A, Code 128 B, Code 128 C, COOP 25, Matrix 25, MSI/Plessey  - Pharmaceutical barcodes: Code 32, Pharmacode, PEZN (Pharma-zentral-Nummer)  - EAN/UPC barcodes: EAN 128, EAN-13, EAN-8, ISBN, ISMN, ISSN, A3N-13, UPC-2, UPC-E  - Postal and transportation barcodes: Fedick Ground 96, IATA 25, Identicated, ELICODE, SYM, ISBN,	TIFF to PDF conversion with CCITT G4 compression for B/W images	Yes
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BARCODES  Built in vector barcode engine, no barcode images or barcode fonts  Ves  - Generic barcodes: Codabar, Code 11, Code 25, Code 25 Interleaved, Code 39, Code 39 Extended, Code 93, Code 93 Extended, Code 128 A, Code 128 B, Code 128 C, COOP 25, Martiv 25, MSI/Plessey  - Pharmaceutical barcodes: Code 32, Pharmacode, Pharmaceutical barcodes: Code 32, Pharmacode, Panny (Pharma-Zentral-Nummer)  - EAN/UPC barcodes: EAN 128, EAN-13, EAN-8, ISBN, ISBN, ISSN, JAN-13, UPC-A, UPC-E  - Postal and transportation barcodes: FedSx Ground 96, IATA 25, Identcode, Lettode, KIX, Planet, PostMet, RM4SCC, SCC-14, SingaporePost, SSCC-18, USPS FIM, USPS Horizontal, USPS PIC  - Bidimensional barcodes: - Bidimensional barcodes: - DataMartix, QR, PDF417, Micro PDF417, Codablock F, Code 16K  - POSTA AND AND AND AND AND AND AND AND AND AN	Alternate images for printing	Yes
Built in vector barcode engine, no barcode images or barcode fonts  Ves  Unidimensional barcodes:  Generic barcodes: Codabar, Code 11, Code 25, Code 25 Interleaved, Code 39, Code 39 Extended, Code 93 Extended, Code 93 Extended, Code 128 A, Code 128 B, Code 128 C, CODP 25, Matrix 25, MSI/Plessey  - Pharmaceutical barcodes: Code 32, Pharmacode, PEZN (Pharma-Zentral-Nummer)  - EAN/UPC barcodes: EAN 128, EAN-13, EAN-8, ISBN, ISBN, ISSN, ISAN-13, UPC-A, UPC-E  - Postal and transportation barcodes: PedEx Ground 96, IATA 25, Identicode, Leitzode, KIX, Planet, PostNet, RMASCC, SCC-14, SingaporePost, SSCC-18, USPS FIM, USPS Phorizontal, USPS PIC  - Bidimensional barcodes: - Potal and transportation barcodes: - Wes - DataMatrix, QR, PDF417, Micro PDF417, Codablock F, Code 16K  PDF ANNOTATIONS  - Add, edit and remove PDF annotations - Yes - Standard and custom appearance for annotations - Yes - Standard and custom appearance for annotations - Yes - Supported annotations - Yes - Supported annotations - Yes - Supported annotations - Yes - Cloud square annotations - Yes - Link annotations - Yes - Cloud square annotations - Yes - Link annotations - Yes - Link annotations - Yes - Rubber stamp annotations - Yes - Link annotations - Yes - Link annotations - Yes - Link annotations - Yes - Rich media (Flash) annotations - Yes - Redaction annotations - Nevis annota	SVG to PDF conversion	Yes
Unidimensional barcodes: Generic barcodes: Codobar, Code 11, Code 25, Code 25 Interleaved, Code 39, Code 39 Extended, Code 93 Extended, Code 128 A, Code 128 B, Code 128 C, COOP 25, Marix 25, MSI/Plessey Pharmaceutical barcodes: Code 32, Pharmacode, PRIN (Pharma-Zentral-Nummer) - EAN/UPC barcodes: EAN 128, EAN-13, EAN-8, ISBN, ISMN, ISSN, JAN-13, UPC-A, UPC-E - Postal and transportation barcodes: FedEx Ground 96, IATA 25, Identocde, Leitcode, KIX, Planet, PostNet, RM4SCC, SCC-14, SingaporePost, SSCC-18, USPS FIM, USPS Horizontal, USPS PIC - Bidimensional barcodes: - Was - DataMatrix, QR, PDF417, Micro PDF417, Codablock F, Code 16K  PPF ANNOTATIONS  - Add, edit and remove PDF annotations - Ves - Standard and custom appearance for annotations - Yes - Islaten annotations - Yes - Supported annotations - Yes - Text (sticky notes) annotations - Yes - Text (sticky notes) annotations - Yes - Rubber stamp annotations - Yes - Cloud square annotations - Yes - Line annotations - Yes - Suported annotations - Yes - Line annotations - Yes - Cloud square annotations - Yes - Line annotations - Yes - Supon and polyline annotations - Yes - Line annotations - Yes - Supon annotations - Yes - Supon annotations - Yes - Redaction annotations - Yes - Redaction annotations - Yes - Rich media (Flash) annotations - Ye	BARCODES	
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Code 39. Code 39 Extended, Code 93, Code 03 Extended, Code 128 A, Code 128 B, Code 128 C, COOP 25, Matrix 25, MSI/Plessey  - Pharmaceutical barcodes: Code 32, Pharmacode, PZN (Pharma-Zentral-Nummer)  - EAN/UPC barcodes: EAN 128, EAN-13, EAN-8, ISBN, ISBN, ISSN, ISSN, JAN-13, UPC-A, UPC-E  - Postal and transportation barcodes: FedEx Ground 96, IATA 25, Identcode, Electode, KIX, Planet, PostNet, RM4SCC, SCC-14, SingaporePost, SSCC-18, USPS FIM, USPS Horizontal, USPS PIC  - Bidimensional barcodes: - DataMatrix, QR, PDF417, Micro PDF417, Codablock F, Code 16K  PDF ANNOTATIONS  - Add, edit and remove PDF annotations - Standard and custom appearance for annotations - Ves - Supported annotations - Yes - Supported annotations - Yes - Text (sticky notes) annotations - Yes - Rubber stamp annotations - Yes - File attachment annotations - Yes - File attachment annotations - Yes - Link annotations (Yes - Link annotations (Yes - Link annotations) - Yes - Link annotations - Yes - Link annotations - Yes - Red (File All Annotations) - Yes - Sound annotations - Yes - Rich media (Filesh) annotations - Yes - Sound annotations - Yes - Sound annotations - Yes - Red (Filesh) annotations - Yes - Support for text box fields, check box fields, piles box fields, piles box fields, yes - Support for text box fields,		
Pharmaceutical barcodes: Code 32, Pharmacode, PZN (Pharma-Zentral-Nummer)  - PAN/UPC barcodes: EAN 128, EAN-13, EAN-8, ISBN, ISMN, ISSN, JAN-13, UPC-E  - Postal and transportation barcodes: FedEx Ground 96, IATA 25, Identcode, Leitcode, KIX, Planet, PostNet, RM45CC, SCC-14, SingaporePost, SSCC-18, USPS FIM, USPS Horizontal, USPS PIC  - Bidlimensional barcodes: - DataMatrix, QR, PDF417, Micro PDF417, Codablock F, Code 16K  - PDF ANNOTATIONS  - Add, edit and remove PDF annotations - Add, edit and remove PDF annotations - Standard and custom appearance for annotations - Standard and custom appearance for annotations - Supported annotations - Text (sticky notes) annotations - Text (sticky notes) annotations - Text (sticky notes) annotations - Cloud square annotations - Cloud square annotations - Cloud square annotations - File attachment annotations - Yes - Cloud square annotations - File attachment annotations - Yes - Link annotations - Yes - Ink annotations - Polygon and polyline annotations - Polygon and polyline annotations - Polygon and polyline annotations - Yes - Text maxing annotations - Yes - Read custom appearance for selections, lighting schemes, - ross sections, backgrounds and animations - Polygon and polyline annotations - Redaction annotations - Yes - Rodo and save PDF forms - Redaction annotations - Redaction annotations - Redaction annotations - Redaction annotations - Polygon and polyline annotations - Redaction annotations		
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- Sound annotations Yes - Movie annotations Yes - Rich media (Flash) annotations Yes - Redaction annotations Yes - Redaction swith support for: views, projections, lighting schemes, Yes - 3D annotations with support for: views, projections, lighting schemes, Yes cross sections, backgrounds and animations  PDF FORMS (Acrobat forms)  • 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 Yes • Flatten form fields Yes	- Text markup annotations: highlight, underline, strikeout, squiggly	Yes
- Movie annotations Yes - Rich media (Flash) annotations Yes - Redaction annotations Yes - Redaction annotations Yes - 3D annotations with support for: views, projections, lighting schemes, cross sections, backgrounds and animations  PDF FORMS (Acrobat forms)  - 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, push button fields, check box fields, radio button fields, signature fields - Read/Write (fill) form fields Yes - Create custom appearances for field widgets Yes - Flatten form fields Yes	- Free text (typewritter) annotations	Yes
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cross sections, backgrounds and animations  PDF FORMS (Acrobat forms)  • Create, load and save PDF forms • Add, edit, remove and rename form fields • Support for text box fields, combo box fields, list box fields, push button fields, check box fields, radio button fields, signature fields • Read/Write (fill) form fields • Create custom appearances for field widgets • Flatten form fields  Yes	- Redaction annotations	Yes
cross sections, backgrounds and animations  PDF FORMS (Acrobat forms)  • Create, load and save PDF forms • Add, edit, remove and rename form fields • Support for text box fields, combo box fields, list box fields, push button fields, check box fields, radio button fields, signature fields • Read/Write (fill) form fields • Create custom appearances for field widgets • Flatten form fields  Yes	- 3D annotations with support for: views, projections, lighting schemes,	Yes
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Create, load and save PDF forms     Yes     Add, edit, remove and rename form fields     Support for text box fields, combo box fields, list box fields,     push button fields, check box fields, radio button fields, signature fields     Read/Write (fill) form fields     Yes     Create custom appearances for field widgets     Yes     Flatten form fields	PDF FORMS (Acrobat forms)	
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<ul> <li>Support for text box fields, combo box fields, list box fields, push button fields, check box fields, radio button fields, signature fields</li> <li>Read/Write (fill) form fields</li> <li>Create custom appearances for field widgets</li> <li>Flatten form fields</li> </ul> Yes Flatten form fields Yes	Add, edit, remove and rename form fields	Yes
push button fields, check box fields, radio button fields, signature fields  • Read/Write (fill) form fields  • Create custom appearances for field widgets  • Flatten form fields  Yes	Support for text box fields, combo box fields, list box fields,	
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<ul> <li>Create custom appearances for field widgets</li> <li>Flatten form fields</li> </ul> Yes	• Read/Write (fill) form fields	Yes
• Flatten form fields Yes		
		Yes
, ,	• Form actions (see PDF actions)	Yes

Add, edit and remove PDF actions	Yes
• Set actions at document level, page level, annotation level and form field level	Yes
• Supported actions:	Yes
- GoTo actions - go to destinations in current PDF file	Yes
- Remote GoTo actions - go to destinations in external PDF files	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	Yes
- Hide actions - show or hide form fields	Yes
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,	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
<ul> <li>Extract page content as vector drawings (including annotations and form fields)</li> </ul>	V
	Yes
CONTENT TRANSFORMATION	Yes
	Yes  Yes
• Convert page content to RGB	
CONTENT TRANSFORMATION	Yes
• Convert page content to RGB • Convert page content to CMYK	Yes Yes
CONTENT TRANSFORMATION  Convert page content to RGB  Convert page content to CMYK  Convert page content to Grayscale	Yes Yes Yes
CONTENT TRANSFORMATION  Convert page content to RGB  Convert page content to CMYK  Convert page content to Grayscale  Convert images to Grayscale  Replace page images	Yes Yes Yes Yes
CONTENT TRANSFORMATION  Convert page content to RGB  Convert page content to CMYK  Convert page content to Grayscale  Convert images to Grayscale  Replace page images  Remove page images	Yes Yes Yes Yes Yes
CONTENT TRANSFORMATION  Convert page content to RGB  Convert page content to CMYK  Convert page content to Grayscale  Convert images to Grayscale  Replace page images  Remove page images  CONTENT REDACTION	Yes Yes Yes Yes Yes
CONTENT TRANSFORMATION  Convert page content to RGB  Convert page content to CMYK  Convert page content to Grayscale  Convert images to Grayscale  Replace page images  Remove page images  CONTENT REDACTION	Yes Yes Yes Yes Yes
CONTENT TRANSFORMATION  Convert page content to RGB  Convert page content to CMYK  Convert page content to Grayscale  Convert images to Grayscale  Replace page images  Remove page images  CONTENT REDACTION  Text redaction	Yes Yes Yes Yes Yes
CONTENT TRANSFORMATION  Convert page content to RGB  Convert page content to CMYK  Convert page content to Grayscale  Convert images to Grayscale  Replace page images  Remove page images  CONTENT REDACTION  Text redaction  Redaction annotations	Yes Yes Yes Yes Yes Yes
CONTENT TRANSFORMATION  Convert page content to RGB  Convert page content to CMYK  Convert page content to Grayscale  Convert images to Grayscale  Replace page images  Remove page images  CONTENT REDACTION  Text redaction  Image redaction  Redaction annotations  PDF PORTFOLIOS	Yes Yes Yes Yes Yes Yes
CONTENT TRANSFORMATION  Convert page content to RGB  Convert page content to CMYK  Convert page content to Grayscale  Convert images to Grayscale  Replace page images  Remove page images  CONTENT REDACTION  Text redaction  Image redaction  Redaction annotations  PDF PORTFOLIOS	Yes Yes Yes Yes Yes Yes Yes Yes Yes
CONTENT TRANSFORMATION  Convert page content to RGB Convert page content to CMYK Convert page content to Grayscale Convert images to Grayscale Replace page images Remove page images CONTENT REDACTION  Text redaction Image redaction Redaction annotations  PDF PORTFOLIOS  Create and load PDF portfolios Define portfolio attributes and define sort order for portfolio items	Yes
CONTENT TRANSFORMATION  Convert page content to RGB  Convert page content to CMYK  Convert page content to Grayscale  Convert images to Grayscale  Replace page images  Remove page images  CONTENT REDACTION	Yes
CONTENT TRANSFORMATION  Convert page content to RGB Convert page content to CMYK Convert page content to Grayscale Convert images to Grayscale Replace page images Remove page images CONTENT REDACTION  Text redaction Image redaction Redaction annotations  PDF PORTFOLIOS  Create and load PDF portfolios Define portfolio attributes and define sort order for portfolio items Add and remove portfolio items	Yes
CONTENT TRANSFORMATION  Convert page content to RGB Convert page content to CMYK Convert page content to Grayscale Convert images to Grayscale Replace page images Remove page images CONTENT REDACTION  Text redaction Image redaction Redaction annotations  PDF PORTFOLIOS  Create and load PDF portfolios Define portfolio attributes and define sort order for portfolio items Add and remove portfolio items Organize portfolio items into folders  LOW LEVEL COS API	Yes
CONTENT TRANSFORMATION  Convert page content to RGB Convert page content to CMYK Convert page content to Grayscale Convert images to Grayscale Replace page images Remove page images  CONTENT REDACTION  Text redaction Image redaction Redaction annotations  PDF PORTFOLIOS  Create and load PDF portfolios Define portfolio attributes and define sort order for portfolio items Add and remove portfolio items Organize portfolio items into folders  LOW LEVEL COS API  Add, edit and remove COS objects	Yes
CONTENT TRANSFORMATION  Convert page content to RGB Convert page content to CMYK Convert page content to Grayscale Convert images to Grayscale Replace page images Remove page images CONTENT REDACTION  Text redaction Image redaction Redaction annotations  PDF PORTFOLIOS  Create and load PDF portfolios Define portfolio attributes and define sort order for portfolio items Add and remove portfolio items Organize portfolio items into folders  LOW LEVEL COS API	Yes
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CONTENT TRANSFORMATION  Convert page content to RGB Convert page content to CMYK Convert page content to Grayscale Convert images to Grayscale Replace page images Remove page images CONTENT REDACTION  Text redaction Image redaction Redaction annotations  PDF PORTFOLIOS  Create and load PDF portfolios Define portfolio attributes and define sort order for portfolio items Add and remove portfolio items Organize portfolio items into folders  LOW LEVEL COS API  Add, edit and remove COS objects Supported COS objects: strings, numbers, names, booleans, nulls, arrays, dictionaries and streams	Yes
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a lilitara high day gunnart, ganyart DDE nagas ta imagas un ta 22han 65526v65526 nivela	Dev
Ultra-high dpi support - convert PDF pages to images up to 32bpp 65536x65536 pixels	
<ul> <li>Native RGBA, BGRA, ARGB, RGB, BGR and Grayscale rendering</li> </ul>	Dev
<ul> <li>Built-in graphic engine that produces pixel matched results across all supported platforms</li> </ul>	Dev
• Selective content rendering: text and/or vector graphics and/or images and/or form fields and/or annotations	Dev
Supported PDF features:	Dev
- Stroked and filled vector graphics	Dev
- Clipping paths including text based clipping paths	Dev
- Text (all text rendering modes)	Dev
- Fonts (standard PDF fonts, embedded fonts, TrueType, Type1, Type3)	Dev
- Images (RAW, DCT/JPEG, CCITT, JPEG2000, JBIG2, inline) with associated masks if present	Dev
- Colorspaces (RGB, CMYK, Gray, CalRGB, CalGray, Lab, ICC, Separation, DeviceN, Indexed)	Dev
- Graphics state soft masks	Dev
- Transparency groups	Dev
- Blend modes	Dev
- PDF patterns	Dev
- PDF shadings (gradients)	Dev
LICENSING	
Per developer licensing with royalty free distribution	Yes

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