

# History of Changes 0.93

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## 1. Version 0.93 (9 January 2007)

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### 1.1. Code

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- Added support for the use of Open Type fonts (BD)
- Added initial support for loading fonts without a pre-created XML font metric file. (JM)
- Support for the `rgb-icc()` function and for a proprietary `cmyk()` function (for device CMYK colors only through the PDF renderer so far). (JM) Thanks to Peter Coppens. Fixes [40729](#).
- Added support for SVG in fo:instream-foreign objects for RTF output. (JM) Thanks to Dominic Brügger. Fixes [40849](#).
- Added support for CCITT compression in the TIFFRenderer by switching to the ImageWriter abstraction from XML Graphics Commons. (JM) Thanks to Oliver Hernández Valls. Fixes [40519](#).
- Extension properties `fox:orphan-content-limit` and `fox:widow-content-limit` which help with list-block and table layout. See the documentation for details. (JM)
- Configuration option in the Java2D-based renderers that allows to disable the default white background in order to produce bitmap output with transparency. (JM)
- Added support for PDF/A-1b and PDF/X-3:2003. (Note: this may still be a bit incomplete. Feedback is welcome!) (JM)
- The CIDSet object is now generated for CID fonts which are embedded in PDFs. (Required by PDF/A). (JM)
- Automatic support for all fonts available to the Java2D subsystem for all Java2D-descendant renderers (TIFF, PNG, print, AWT). (JM)
- Initial support for page-number-citation-last (XSL 1.1). Works without problems only for page-sequence so far. (JM) Thanks to Pierre-Henri Kraus. Fixes [39118](#).
- Bugfix: Fixed bug when the sum of column widths of a table is larger than the specified widths. The table width was not adjusted. (JM)
- Bugfix: Nested tables with headers and footers were not handled correctly and could overlap with the region-after. (JM)
- Split up FOText instances larger than 32K characters to avoid integer overflow during layout. (AD) Fixes [39414](#).
- Bugfix: Corrected painting of shading patterns and position of links for SVG images inside FO documents. (JM)
- Deferred property resolution for markers until they are actually retrieved, which leads to percentages and relative font-sizes now getting the correct values. Also deferred white-space-handling for markers. (AD)
- Fixed a memory-leak: The FO tree part of a page-sequence was not released when a page-sequence was finished. (JM)

- Bugfix: Table headers and footers were swallowed when a table was nested in a list-block. (JM)
- Fixed a bug with indent handling when margins are used on a surrounding block and not start/end-indent. (JM)
- Compatibility fix for GCJ (GNU Classpath): Using "UTF-16BE" instead of "UnicodeBigUnmarked" encoding. (JM) Thanks to Jeroen Meijer. Fixes [40106](#).
- Fixed handling for CCITT Group 4 TIFF images with fill order 2. (JM) Thanks to Gilles Beaugeais. Fixes [40062](#).
- Fixed setting of page margins in AWT Renderer like it was done in the print renderer. (JM) Thanks to Igor Istomin. Fixes [40048](#).
- Fixed two memory-leaks in image handling. The image cache is finally working properly. (JM)
- Let numeric property values without a unit be treated as pixels like in HTML. This fixes certain NullPointerException when no units are specified. (Note: the use of pixels in XSL-FO is discouraged!) (JM) Fixes [39608](#).
- Bugfix: Potential multi-threading issue (ConcurrentModificationException) eliminated for ElementMapping classes. (JM)
- No more System.exit() and look & feel setting calls inside the reusable parts of the AWT viewer. (JM)
- Proper escaping of characters in list-items labels for RTF output. (JM)
- Bugfix: FOUUserAgent specific configuration parameters specified in config file were not set when FOP was invoked from command line. (MM)
- Bugfix: components of the border-separation property weren't set when in shorthand-mode, leading to a NPE being thrown. (AD) Fixes [39712](#).
- Bugfix: Table headers were omitted when a table is a child of a block-container. (JM)
- Bugfix: Bookmarks in PDF will be generated even if some bookmarks cannot be resolved. (JM)
- Bugfix: the interaction between the table FOs and properties package in determining initial values for column-number should be a one-time process, not repeated when the table is in a marker that is retrieved. (AD) Fixes [39560](#).
- Bugfix: All fonts names were converted unnecessarily to lower case in RTF output. (JM)
- Bugfix: The combination of hyphenation and kerning resulted in slightly ragged right ends for right-aligned and justified text. (JM)
- Bugfix: NullPointerException in AreaAdditionUtil in a table-cell spanning multiple pages and with a marker. (JM)
- Bugfix: NullPointerException in RTF output when a table does not contain table-columns. (JM) Fixes [39533](#).
- Bugfix: NullPointerException in RTF library when there are no borders on the parent table. (JM) Thanks to Julien Aymé. Fixes [39607](#).
- Bugfix: Improved baseline detection in TTFReader for TrueType fonts. (JM)

- Bugfix: tables nested in inline elements caused a NullPointerException. (JM) Fixes [39443](#).
- Bugfix: Sections with span="all" lead to overlapping text if spanning multiple pages. (JM) Fixes [39443](#).
- Bugfix: Percentages in vertical-align property values were not correctly handled. (MM)
- Bugfix: Gaps in table-columns cause a NullPointerException. (JM) Thanks to Gerhard Oetl. Fixes [38243](#).
- Bugfix: TABs were not correctly replaced by spaces in some circumstances. (MM)
- Bugfix: basic-links with internal destinations in documents with multiple page-sequences sometimes pointed at the wrong page. (JM)
- Bugfix: Fixed ClassCastException when retrieve-marker is used as a direct child if static-content in which case leading and trailing white space is not properly removed. (JM)
- Bugfix: Fixed OutOfMemoryException with long data URLs (RFC 2397). (JM) Fixes [39285](#).
- Enabled Copy/Paste from PDF content in Acrobat Reader for text using embedded TrueType fonts. (BD) Thanks to Adam Strzelecki, Victor Mote. Fixes [5535](#).
- Commented out unused properties, in order to minimize memory usage. (SP) Thanks to Richard Wheeldon. Fixes [41044](#).
- Removed unused attributes from TableCell. (SP) Thanks to Richard Wheeldon. Fixes [41009](#).
- Minor fixes and improvements for the AWT Preview (keyboard shortcuts, scrolling, windows setup). (JM) Thanks to Richard Wheeldon. Fixes [40813](#).
- Minor fix: correctly set negative values for ipd/bpd to zero. (AD)
- Rework of default column-creation / column-width setting from cells in the first row. (AD) Fixes [35656](#).
- Added relaxed validation for empty list-item-\*, as suggested by Gary Reed. (AD) Thanks to Gary Reed. Fixes [40270](#).
- Modified proportional-column-width() function to log an error if used with table-layout=auto (AD)
- Changed the way overflowing pages are handled. The overflow property on region-body is now used to define the behaviour. (JM)
- The Java2DRenderer (and therefore the print and bitmap renderers) is now offering the same quality as the PDF and PS renderers. Note: There can still be little differences between PDF and Print/PNG/TIFF because the latter uses a different font metrics source. (JM)
- The default sRGB color profile provided by the Java class library is no longer embedded if it is encountered. This should reduce the PDF size considerably. (JM)
- Changed the internal representation of colors to use Java's own color infrastructure instead of FOP's home-grown classes. (JM) Thanks to Max Berger. Fixes [38946](#).
- Content in block-containers makes better use of shrink to fit content vertically into the available area. This can be used indirectly to justify content vertically in a block-container. (JM)