History of Changes

Table of contents

1 Version FOP Trunk ()	2
2 Version 0.93 (9 January 2007)	
2.1 Code	
3 Version 0.92beta (18 Apr 2006)	
3.1 Code	
4 Version 0.91beta (23 Dec 2005)	7
4.1 Code	7
5 Version 0.90alpha1 (22 Nov 2005)	9
5.1 Code	9
6 Version 0.20.5 (18 July 2003)	9
6.1 Code	

1. Version FOP Trunk ()

2. Version 0.93 (9 January 2007)

2.1. Code

- 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 <u>40729</u>.
- Added support for SVG in fo:instream-foreign objects for RTF output. (JM) Thanks to Dominic Brügger. Fixes <u>40849</u>.
- Added support for CCITT compression in the TIFFRenderer by switching to the ImageWriter abstraction from XML Graphics Commons. (JM) Thanks to Oliver Hernandez 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 <u>39118</u>.
- 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: FOUserAgent 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 <u>39607</u>.
- Bugfix: Improved baseline detection in TTFReader for TrueType fonts. (JM)
- Bugfix: tables nested in inline elements caused a NullPointerException. (JM) Fixes <u>39443</u>.
- 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 Oettl. 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 <u>5535</u>.
- 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)

3. Version 0.92beta (18 Apr 2006)

3.1. Code

- Initial support for page-position="last" added. (JM)
- Reenabled loading of user-supplied hyphenation patterns that was available in FOP 0.20.5. (See "hyphenation-base" option in the user configuration) (JM)
- Added support for fixed-width spaces. (JM)
- Added support for kerning. (JM)
- Support for "userconfig" attribute in FOP Ant Task. (JM) Thanks to Jirí Mareš.
- Initial support for XMP metadata (PDF 1.4) under fo:declarations. (JM)
- Added support for the background-position shorthand property. (AD)
- Added support for the font shorthand property. (AD)
- Added support for system-color() function. (JM) Thanks to Max Berger. Fixes <u>38618</u>.
- Added support for the from-table-column() function. (AD) Thanks to Gerhard Oettl (gerhard.oettl.at.oesoft.at). Fixes <u>38282</u>.
- New feature: "Intermediate format" (IF). The IF is basically the XML dialect written by the area tree renderer (XMLRenderer). A new parser for this format allows reparsing a serialized and possibly modified area tree and rendering it to the final target format. (JM)
- Relative URLs for the font configuration attributes metrics-url and embed-url are now supported. A new configuration property font-base has been added. It sets the base URL against which relative font URLs are resolved. If font-base is not set base is used. (MM) Fixes 36729.
- Added support for RFC2397 "data" URLs. (JM) Thanks to Richard Wheeldon. Fixes 38132.
- The font loading code now reads the encoding value from the XML font metrics file so that fonts like Symbol and ZapfDingbats can be embedded explicitly (Required by PDF/A). (JM)
- Added feature: support for white-space shorthand (AD)
- Added feature: support for page-break-* shorthands (AD)
- Bugfix: The generation of the PDF "d" (setdash) command was assuming that only integer values can be used but that isn't the case. Dash patterns PDFGraphics2D would be wrong in the process. (JM)
- Bugfix: Fixed a division by zero problem in TTFReader and improved the detection of the capHeight and xHeight font metric values for TrueType fonts. (JM)
- Bugfix: Allow URLs in basic-link's external-destination to be wrapped in "url()". (JM)
- Bugfix: Corrected enumerated property value for white-space property from "no-wrap" to "nowrap". (MM)

- Bugfix: Added support for white-space-treatment="preserve" in particular to support the white-space="pre" short hand property. (MM) Fixes <u>38457</u>.
- Corrected expectation and behaviour for the text-indent property to only apply to the first line area generated by a block. (JM)
- Bugfix for invalid handling of ICC color profiles in JPEG images and for dealing with CMYK JPEG images with the Adobe APPE marker. (JM)
- Bugfix: Certain filter combinations in PDF could lead to invalid PDFs. DecodeParams were not properly handled. (JM)
- Bugfix: CCITT Group 4 encoded TIFF images with multiple strips are now properly embedded in PDF files. (JM)
- Bugfix: Fixed a copy/paste error in the table layout code that caused wrong page break decisions when table-headers and/or table-footers are used. (JM)
- Bugfix: Fixed an NPE that was thrown when a table was used inside a footnote-body. (JM)
- Bugfix: Fixed a problem with certain TrueType fonts which are missing the "PCLT" table, where a baseline-shift="sub" had no effect due to a missing x-height value. (Note: This only affects TTFReader, so the font metric file has to be regenerated.) (JM)
- Bugfix: When the base URL was specified as a file system path, the constructed URL was wrong. (JM)
- Bugfix: Fixed two causes for ClassCastExceptions in BlockContainerLayoutManager. (JM)
- Bugfix: padding-top and padding-bottom on list-items could lead to wrong page break decisions and thus to overlapping text. (JM)
- Bugfix: break-before and break-after were ignored on list-items. (JM)
- Bugfix: The elements representing a non-breaking space weren't always correct. (LF) Fixes 38507.
- Bugfix: Text-decoration was not promoted if no text-decoration attribute was specified on a nested element. (JM) Fixes <u>38453</u>.
- Bugfix: Spanned cells could lead to an false error message about overlapping cells and ultimately a NullPointerException. (JM) Fixes <u>38397</u>.
- Bugfix: Regions with non-standard names got ignored in RTF output leading to missing headers and footers. (JM)
- The RTF output now properly generates the "\landscape" flag for documents in landscape orientation. (JM)
- Following a clarification by the XSL FO SG, space traits are only set on the first and last area generated by an FO, and not on every area anymore. (JM)
- Bugfix: Floating point numbers were not properly formatted in the PDF renderer which could lead to error messages while opening a PDF in Acrobat Reader. (JM)
- Bugfix: Spans that end up with a negative height don't get swallowed anymore. (JM) Fixes 38054.
- Bugfix: Certain border styles could lead to a NullPointerException. (JM) Fixes <u>38132</u>.
- Bugfix: Space was not adjusted if the space was on a nested block. This could lead to content

- overflowing the bottom of a page. (JM) Fixes <u>38102</u>.
- Bugfix: TableCell did not properly report that it generates reference-areas which could lead to wrong inherited values for start-indent and end-indent. (JM)
- Bugfix: Image height for BMP images was incorrectly calculated (MM) Fixes 38089.
- Bugfix: NullPointerException on certain fo:inline within lists. (MM) Fixes <u>38053</u>.
- Bugfix: ClassCastException on certain fo:inline with border combinations. (MM) Fixes 37743.
- Changed a method name in LineArea from finalize to finalise because it was never intended for the method to be an override of the Java Object finalize method. If invoked by the Java garbage collector it may cause a NPE. (MM)
- Implement property name as default argument on some xsl-function calls. (SP) Thanks to Gerhard Oettl. Fixes 38098.
- Implement force-page-count property of page-sequence. (SP) Thanks to Gerhard Oettl. Fixes 38087.
- Improvements to the code for inline block content. (SP)
- Revision of refinement white-space handling. (AD)

4. Version 0.91beta (23 Dec 2005)

4.1. Code

- Added checks that warn about tables and block-containers that are wider than the available content area. (JM)
- First attempt at SVG support in RTF output. SVG images are converted to 300dpi JPEG images internally. (JM)
- The command-line now automatically sets two parameters for any XSLT transformation: "fop-output-format" contains the MIME type of the currently selected output format, "fop-version" contains FOP's version number. (JM)
- Added an alternative set of rules for calculating text indents which tries to mimic the behaviour of many commercial FO implementations that chose to break the rules in the FO specification in order to better meet the natural expectations of inexperienced FO users. (JM)
- font-family list still not fully supported but a comma-separated list is now properly tokenized. FOP will now go through all fonts in the list to find one that is available, but it doesn't do so per character, yet. (JM)
- Implemented "Overconstrained Geometry" rules (5.3.4, XSL 1.0) for the most important cases. (JM)
- Support for leader painting in PostScript output. (JM)
- Support for hyphenation-ladder-count. (LF, MM)
- Fixed a bug where the linefeed-treatment property value "preserve" was not honoured when

- used in conjunction with text-align="center". (MM)
- Bugfix: hard breaks with even-page or odd-page were not handled correctly when spaces were surrounding the break. (JM) Fixes 37964.
- Fixed a bug where SVG content could be clipped when rendered to PostScript. (JM)
- Changed the way resolutions are handled. The single resolution in the user agent got split up into source and target resolutions. For more info, see the updated documentation. Note: backwards-incompatible change! (JM)
- Bugfix: Some content inside a table-header may not have been renderered on pages n > 1 in certain conditions. (JM) Fixes <u>37875</u>.
- Fixed a bug where an empty line, i.e. a block containing only a , was not rendered at all. (MM)
- Fixed a bug where the area for a finished cell that is broken over pages was created once for each row it was spanned over instead of only once. (JM)
- Bugfix: Footnotes were lost if the footnote appeared in centered text. (JM) Fixes <u>37880</u>.
- Fix to correct image sizes in RTF output. (JM)
- The output file is now deleted when an exception occurs when calling FOP from the command-line. (JM)
- Bugfix: Areas for table-cells that are broken over more than one page are now generated even if all its content is already painted on a previous page. This fixes strange effects like a table grid that is not completely painted. (JM)
- Bugfix: Column balancing produced strange break decisions in certain multi-column documents with large amounts of text. (JM) Fixes <u>37828</u>.
- Bugfix: The combination of content-width="scale-to-fit" and content-height="100%" did not work as expected due to a datatype conversion bug. (JM) Thanks to Tom Craddock. Fixes 37815.
- Bugfix: A span="all" on the first block cause a subsequent page break and the first block didn't span all columns. (JM) Fixes 37813.
- Bugfix: Self-created OutputStreams in PNG Renderer were not properly closed. (JM)
- Bugfix: Relatively positioned BlockViewports (from block-containers) caused the paint cursor not be properly advanced when space-before or space-after were present. (JM)
- Bugfix: Space resolution was incomplete for content in table-cells. Conditional elements didn't get removed. (JM)
- The validation check for non-zero borders and padding on a region-* and for empty static-content elements is now turned off when relaxed validation is active to improve compatibility with FO documents written for other FO implementations. (JM)
- Bugfix for "/ by zero" ArithmeticExceptions when an URL to a non-existing image is used and content-width and/or content-height is used. (JM)
- Bugfix for a multi-threading problem: propertyListTable initialization moved from the constructor to a static block in FONode. This fixes NullPointerExceptions in PropertyList. (JM)

- Bugfix for placement of text inside a text area when borders are present in PostScript output. (JM)
- Deprecated Fop constructors that use integer constants to select the output format have been removed in favor or the constructors that use MIME types. (JM)
- Changed the XMLHandler interface so it doesn't report the MIME type it supports but instead can report whether it supports a particular Renderer implementation. XMLHandlers are now configurable. (JM)
- Improved log and error messages in a number of places by adding additional context information that should make it easier to find the location in the source files. (JM)
- Additional checks to detect text overflows. The overflow property is now properly handled where applicable. (JM)
- Source location information improved. If location information is not available, the context information is provided based on text content. (JM)
- The border-collapse property on fo:table is now forced to the value "separate" until the collapsing border has been implemented. (JM)
- Improvements on leader painting in PDF output. (JM)

5. Version 0.90alpha1 (22 Nov 2005)

5.1. Code

• Complete redesign of the FOP codebase in the period between Dec 2001 and Nov 2005. There are just too many changes to list here. If you like to know details, run "svn log --verbose

http://svn.apache.org/repos/asf/xmlgraphics/fop/trunk/".(all)

6. Version 0.20.5 (18 July 2003)

6.1. Code

• For the change log for the maintenance branch (where FOP 0.20.5 came from), please see the "CHANGES" file in the distribution, or the CHANGES file in the SVN repository. (all)