Apache™ FOP: Known Issues

$Revision$

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1 Known issues

This page lists currently known issues in the current release.

> **Note:**
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> For additional information on known issues in Apache™ FOP, please have a look at the following pages, too:
> * the bug list in Bugzilla
> * the task list in the Wiki

Apache™ FOP has an extensive automated testing infrastructure. Parts of this infrastructure are several sets of test cases. When a test case is listed in disabled-testcases.xml it is disabled in the JUnit tests during the normal build process. This indicates a problem in the current codebase. When a bug is fixed or a missing feature is added the entry for the relevant test case(s) are removed.

1.1 FO Tree

This section lists disabled test cases in the test suite for the FO tree tests, at the time of the release.

demo-test-failure.fo (demo test failure):
TODO: Add missing description in disabled-testcases.xml!

from-table-column_marker.fo (Markers and core function evaluation):
The code currently evaluates this function according to the column in which the marker appears in the source document, rather than the column it is retrieved in.

1.2 Layout Engine

This section lists disabled test cases in the test suite for the layout engine tests, at the time of the release.

block-container_space-before_space-after_3.xml (Auto-height block-containers produce fences):
Block-containers with no height currently don't create a fence for spaces as they should (they behave like a normal block).

block_font-stretch.xml (font-stretch NYI):
Font-stretch is not implemented, yet.

block_linefeed-treatment.xml (linefeed-treatment):
Preserved linefeeds in a fo:character are not handled correctly.

block_white-space-treatment_3.xml (white-space-treatment):
White space handling incorrectly stops at fo:inline boundaries when it comes to formatter generated line breaks.

block_space-before_space-after_8.xml (Empty blocks produce fences):
An empty block currently produces a fence for stacking constraints which it shouldn't.

block_white-space_nbsp_2.xml (block white-space nbsp 2):
The nbsp given as an fo:character is not adjustable and therefore the justification does not work in this case.

block_word-spacing.xml (block word-spacing):
Word-spacing may not work as expected.

block_word-spacing_text-align_justify.xml (block word-spacing text-align justify):
Word-spacing may not work as expected.

external-graphic_oversized.xml (external-graphic don't shrink):
Images currently don't shrink so they fit on a page when they are too big and shrinking is allowed to happen (min/opt/max).

external-graphic_src_uri.xml (Test case with HTTP URL):
Doesn't work behind a proxy which requires authorization.

footnote_space-resolution.xml (Space Resolution in foot note area):
Space resolution does not work between footnote regions.

inline_block_nested_3.xml (NPE for table inside an inline):
Placing a table as a child of an fo:inline produces a NullPointerException.

inline-container_block_nested.xml (inline-container is not implemented, yet.):
inline-container is not implemented, yet. Content of an inline-container will get swallowed. The test case contains no checks.

inline-container_border_padding.xml (inline-container is not implemented, yet.):
inline-container is not implemented, yet. Content of an inline-container will get swallowed.

inline_letter-spacing.xml (inline letter-spacing):
Letter-spacing may not work as expected within fo:inline.

inline_word-spacing.xml (inline word-spacing):
Word-spacing may not work as expected within fo:inline.

inline_word-spacing_text-align_justify.xml (inline word-spacing text-align justify):
TODO: Add missing description in disabled-testcases.xml!

leader-alignment.xml (leader-alignment NYI):
Leader-alignment is not yet implemented.

leader_leader-pattern_use-content_bug.xml (leader-pattern="use-content": Problem with line height):
Line height is not correctly calculated for use-content leaders whose height is larger than the rest of the line.
See also: http://www.nabble.com/leaders-with-leader-pattern%3D%22use-content%22-t546244.html

page-breaking_4.xml (Page breaking doesn't deal with IPD changes):
Page breaking currently doesn't support changing available IPD between pages of a single page-sequence. Element list generation has to be reset to redetermine line breaks in this case.

page-breaking_6.xml (Overflow handing is incomplete):
Line breaking is not 100% correct when there's too little space. Overflows are not detected and warned.

page-height_indefinite_simple.xml (Indefinite page height handling is imcomplete):
A RuntimeException is thrown for a page of indefinite height. Lots of warnings.

page-number-citation_background-image.xml (page-number-citation: Problem with background-image):
Background-images on page-number-citations are not placed correctly.

page-number-citation_complex_1.xml (IDs are not working on all FO elements):
The "id" attributes are not properly handled for all block-level FO elements.

page-number-citation_complex_2.xml (IDs are not working on all FO elements):
The "id" attributes are not properly handled for all inline-level FO elements.

region-body_column-count_footnote.xml (Footnotes in multi-column documents):
Footnotes may overlap with text of the region-body in multi-column documents.

region-body_column-count_balance_4col.xml (Column Balancing problems):
Situation in a 4-column document where the column balancing doesn't work and even causes some content to disappear.

region-body_column-count_bug36356.xml (Column Balancing problems):
Column balancing doesn't work as expected.

table-cell_empty_area_with_marker.xml (table-cell empty area with marker.xml):
A table-cell producing an empty area does currently not add any markers to a page. See TODO entry in AreaAdditionUtil.

table_border-width_conditionality.xml (Border conditionality on table):
The code should be ok, but the test case uses shorthands and therefore is probably not expressing the indended outcome according to the spec. The test case should be revisited.

block_shy_linebreaking_hyph.xml (Soft hyphen with normal hyphenation enabled):
A soft hyphen should be a preferred as break compared to a normal hyphenation point but is not.

keep_within-page_multi-column_overflow.xml (Page-keep not respected in multi-column layout):
The block should cause overflow in the last column on the page, rather than be broken.

block-container_reference-orientation_bug36391.xml (Block Container Reference Orientation Bug):
An assert is failing

simple-page-master_writing-mode_rl_region-body_writing-mode-lr.xml (Writing mode problems):
Test erroneously depends upon incorrect implementation of writing-mode trait derivation on fo:region-*.

1.3 Other known issues

This section lists some other issues that post-date the release of FOP 1.0. For known issues that pre-date FOP 1.0, see older bugs that remain open. For all open issues that post-date FOP 1.0, see newer bugs that remain open.

- Support for Unicode characters outside of the Base Multilingual Plane (BMP), i.e., characters whose code points are greater than 65535, is not yet implemented. See bug 51843.
- The writing-mode property does not produce the expected behavior when specified on `fo:simple-page-master` or `fo:region-*` elements. See bug 53276.

- Support for Devanagari and other Indic scripts is not yet complete.
- Use of Unicode U+200C ZERO WIDTH NON-JOINER (ZWNJ) or U+200D ZERO WIDTH JOINER (ZWJ) does not prevent or force contextual substitution, respectively, when used with Arabic script.
- Use of Unicode U+200C ZERO WIDTH NON-JOINER (ZWNJ) or U+200D ZERO WIDTH JOINER (ZWJ) does not affect conjunct formation or other special behavior prescribed when used with Indic scripts.
- Support for automatic line breaking at orthographic syllable segment boundaries in Indic or Southeast Asian scripts is not yet available. In the mean time, use U+200B ZERO WIDTH SPACE (ZWSP).
- Complex script content is presently supported only with AT, IF, and PDF output formats.
- When complex script text encounters an `fo:inline` or `fo:character` boundary, contextual substitution and ligature formation will not occur across the boundary. This prevents, for example, applying a different color to an Arabic Letter within an Arabic word, unless that letter is a non-joining letter (on both sides).