

# Apache™ FOP: Known Issues

\$Revision\$

## Table of contents

1 Known issues.....	2
1.1 FO Tree.....	2
1.2 Layout Engine.....	2
1.3 Other known issues.....	4

## 1 Known issues

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This page lists currently known issues in the current release.

### Note:

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

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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

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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 handling 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 incomplete):

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 intended 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).