

Upgrading from an Earlier Version of Apache FOP

\$Revision\$

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1. Important!

If you're planning to upgrade to the latest FOP version there are a few very important things to consider:

- More than half of the codebase has been rewritten over the last three years. The code is relatively new and possibly not as stable as version 0.20.5 in every regard. But the code is **quickly approaching production level**, especially when you're happy with only PDF and PostScript output.
- The API of FOP has changed considerably and is not backwards-compatible with version 0.20.5.
- There have been changes to the end-user API between 0.91 beta and 0.92 beta. With version 0.92, **the API is now considered stable**. Some methods have been deprecated and will be removed with the next release. If you upgrade from 0.91 beta, you will need to adjust your Java code.
- The new code is much more strict about the interpretation of the XSL-FO 1.0 specification. Things that worked fine in version 0.20.5 might start to produce warnings or even errors now. FOP 0.20.5 contains many bugs which have been corrected in the new code.

An example

While FOP 0.20.5 allowed you to have empty `fo:table-cell` elements, the new code will complain about that (unless relaxed validation is enabled) because the specification demands at least one block-level element (`{%block;}`)+, see [XSL-FO 1.0, 6.7.10](#) inside an `fo:table-cell` element.

- Extensions and Renderers written for version 0.20.5 will not work with the new code! The new FOP extension for [Barcode4J](#) will be available in January 2006.
- The PCL Renderer and the MIF Handler have not been resurrected, yet! They are currently non-functional and hope for someone to step up and reimplement them.
- By looking at the [Compliance page](#) you might get the impression that the new code is much more advanced than version 0.20.5. That's true but there may still be a few things that may not be handled as gracefully by the new code as by version 0.20.5.

2. What you need to know when you upgrade!

When you use your existing FO files or XML/XSL files which work fine with FOP version 0.20.5 against this FOP version some things may not work as expected. The following list will hopefully help you to identify and correct those problems.

- Check the [Compliance page](#) for the feature causing trouble. It may contain the necessary information to understand and resolve the problem.

- Not all 0.20.5 output formats are supported. PDF and Postscript should be fully supported. See [Output Targets](#) for a more complete description.
- As stated above empty table cells `<fo:table-cell></fo:table-cell>` are not allowed by the specification. The same applies to empty `static-content` and `block-container` elements, for example.
- 0.20.5 is not XSL-FO compliant with respect to sizing images (`external-graphic`) or `instream-foreign-object` objects. If images or SVGs are sized differently in your outputs with the new FOP version check [Bug 37136](#) as it contains some hints on what to. The file "[examples/fo/basic/images.fo](#)" has a number of good examples that shows the new, more correct behaviour.
- The `fox:outline` extension not implemented in this version anymore. It has been superseded by the new bookmark elements from XSL-FO 1.1.
- The `fox:destination` extension is also not implemented in this version although it may be added in the future. See also [Bug 37157](#).