

# Release Notes for Apache FOP 0.93

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This is the first production grade release of the new FOP codebase.

- It contains the new API first introduced in release 0.92 beta. The preceding API has been removed.
- See the compliance page for an overview of the compliance of this release with the XSL 1.0 and 1.1 recommendations.
- This release again contains many bug fixes and new features. See below for details.
- See the known issues page for an overview of the known issues with this release.

Caveats:

- You may experience different behaviour compared to version 0.20.5. Please consult the "Upgrading" page for details.

## 1. Major Changes in Version 0.93

### Note:

This is not a complete list of changes, a full list of changes in this release is available.

### 1.1. Important Changes Code Base

- Added support for the use of Open Type fonts (BD)
- 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 Coppins. Fixes [40729](#).
- Added support for PDF/A-1b and PDF/X-3:2003. (Note: this may still be a bit incomplete. Feedback is welcome!) (JM)
- Automatic support for all fonts available to the Java2D subsystem for all Java2D-descendant renderers (TIFF, PNG, print, AWT). (JM)
- Enabled Copy/Paste from PDF content in Acrobat Reader for text using embedded TrueType fonts. (BD) Thanks to Adam Strzelecki, Victor Mote. Fixes [5535](#).
- 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)