

The Forrest Hø 00 - Ipi-manuals, LPI-101 v0.2

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1. The HøLUG Apache Forrest Test Project

This is both a learning exercise and an investigation of potential of the Apache Forrest publishing system to significantly benefit [HøLUG](#), as hosted on [SourceForge.net](#), and the [lpi-manuals project](#), as hosted at [Savannah](#).

2. Transforming and Publishing lpi-manuals Files via Forrest"

Four Forrest transformations of the "LPI-101 v0.2" OpenOffice.org Writer 1.1 (**sxw**) file were run. This file was chosen because previous transformations to Docbook XML via "OOWriter" and [ooo2sdbk](#) (OpenOffice to Simplified DocBook) were too flawed to work with productively.

The **original LPI-101 (sxw) file** can be downloaded from [here](#). The resulting transformations are available via the following links, as: [HTML](#), [PDF](#), [TXT](#), and [here](#), as [Apache xdoc XML](#).

Note:

The PDF file provided was actually generated by OO Writer v2.0-pre, due to inadequate understanding of Forrest's memory-management configuration. More on this is explained below and at the [OOO v1.1 Forrest Transformation Examples](#) page.

3. Forrest's Key Capabilities and Benefits: Beyond What You See

This entire project-site was generated and rendered by [Apache Forrest 0.7](#). The raw [Apache "Document v1.3 and v2.0" or simply "xdoc" XML](#) that this site is built from can be viewed by clicking on the XML icon in the upper right corner of each HTML page. Also there are icons for TXT and PDF versions of the page, generated from the same XML.

Forrest can be used on any computer with Sun JVM 1.4+, whether it runs on Unix, GNU/Linux or MS Windows. An internet connexion and X.org windowing systems provide the most convenience, but neither are necessary. Superuser ("root" or "administrator") privileges are not required.

Document generation (HTML and other formats) can be performed with Forrest running dynamically or static HTML structures can be generated in batches, both complete with validation, navigation, linking, SVG to PNG graphics generation, and the application of XSL and CSS skins.

Specific content, structure and stylistic changes can be manually made after document or site generation as all source code is accessible and modifiable via any text editor.

Contributors can make submissions via [OpenOffice.org SXW or SXI formats](#), [Simplified DocBook XML](#), various wiki formats (with [MoinMoin](#) enjoying some preference in development), or via simply HTML or [Apache xdoc XML](#).

External content can also be collected via [RSS news feeds](#) and WYSIWYG editing of XSL is available using the [XMLMind XML Editor](#).

Forrest document production is also integrated with the [Subversion CVS](#) and [Apache Lenya CMS](#).

Note:

So far in ForrestHø00 only input via Apache xdoc XML and three OOO v1.1 sxw documents and output as HTML, text, PDF and XML were tested. More information about Forrest's input, output, presentation and administration capabilities is available on the [Forrest home page](#) and the [plugins](#) page on this site

4. More: Samples, Templates and Details of the lpi-manuals Tests

This site provides several other [examples](#) of how Forrest can be used to generate and maintain internetworked documentation projects. See the menu at the left. The sources for those examples were provided with the default Forrest 0.70 installation.

For the [lpi-manuals project](#), extra examples were provided to demonstrate how Forrest can generate HTML, Text, PDF and Apache xdoc XML versions of the LPI-101 v0.2 OpenOffice.org Writer (sxw) file via Forrest's `input.OpenOffice.org` plugin.

In the tests for ForrestHø00, the PDF format was not generated by Forrest. Insufficient RAM prevented the PDF (ie, "FOP") conversion. Memory-management options for Forrest are available, however. (See the "FAQ" tab above and search for "memory". But time ran out before they could be learned and tried.

Notably, after adding the LPI-101 v0.2 sxw file to input, site-generation time jumped from some 4-5 minutes for the original site-template, on an older IBM ThinkPad 600x PIII with 256MB RAM running on SuSE Linux 9.3 (GNU/Linux 2.6.11.x, medium load), to 18-27 minutes

Once that file was processed, however, site generation times fell back to 7-10 minutes, likely due to the make-like build management of [Apache Ant](#), which forms part of Forrest's core.

More detail is given at the [OOO v1.1 Forrest Transformation Examples](#) page.