

# **Release Notes**

## **DocBook Project XSL Stylesheets**

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These are the release notes for the DocBook XSL Stylesheets distribution. This document provides an (incomplete) per-release list of enhancements and changes to the stylesheets' public APIs (user-configurable parameters) and generally excludes descriptions of bug fixes. For a complete list of all changes (including all bug fixes) that have been made since the previous release, see the separate [NEWS](#) (plain text) or [NEWS.html](#) files.

As with all DocBook Project **dot-zero** releases, this is an experimental release. It will be followed shortly by a stable release.

## 1 Release: 1.73.0

This release includes important bug fixes and adds the following significant feature changes:

### New localizations and localization updates

We added two new localizations: Latvian and Esperanto, and made updates to the Czech, Chinese Simplified, Mongolian, Serbian, Italian, and Ukrainian localizations.

### ISO690 citation style for bibliography output.

Set the *bibliography.style* parameter to `iso690` to use ISO690 style.

### New documentation for processing instructions (PI)

The reference documentation that ships with the release now includes [documentation on all PIs](#) that you can use to control output from the stylesheets.

### New profiling parameters for audience and wordsize

You can now do profiling based on the values of the `audience` and `wordsize` attributes.

### Changes to man-page output

The manpages stylesheet now supports single-pass profiling and single-pass DocBook 5 namespace stripping (just as the HTML and FO stylesheets also do). Also, added handling for `mediaobject` & `inlinemediaobject`. (Each `imagedata`, `audiodata`, or `videodata` element within a `mediaobject` or `inline mediaobject` is now treated as a "notesource" and so handled in much the same way as `links` and `annotation/alt/footnote` are in manpages output.) And added the *man.authors.section.enabled* and *man.copyright.section.enabled* parameters to enable control over whether output includes auto-generated AUTHORS and COPYRIGHT sections.

### Highlighting support for C

The highlighting mechanism for generating syntax-highlighted code snippets in output now supports C code listings (along with Java, PHP, XSLT, and others).

### Experimental docbook-xsl-update script

We added an experimental `docbook-xsl-update` script, the purpose of which is to facilitate easy sync-up to the latest docbook-xsl snapshot (by means of `rsync`).

## 1.1 Gentext

The following changes have been made to the `gentext` code since the 1.72.0 release.

- Michael(tm) Smith: `locale/lv.xml`; `Makefile`

Added Latvian localization file, from Girts Ziemelis.

- Dongsheng Song: `locale/zh_cn.xml`

Brought up to date with `en.xml` in terms of items. A few strings marked for translation.

- Jirka Kosek: `locale/cs.xml`

Added missing translations

- Robert Stayton: `locale/eo.xml`

New locale for Esperanto.

- Robert Stayton: `locale/mn.xml`

Update from Ganbold Tsagaankhuu.

- Jirka Kosek: `locale/en.xml`; `locale/cs.xml`

Rules for normalizing glossary entries before they are sorted can be now different for each language. ↔

- Michael(tm) Smith: `locale/sr_Latn.xml`; `locale/sr.xml`

Committed changes from Miloš Komarčević to Serbian files.

- Robert Stayton: `locale/ja.xml`

Fix chapter in context `xref-number-and-title`

- Robert Stayton: `locale/it.xml`

Improved version from contributor.

- Mauritz Jeanson: `locale/uk.xml`

Applied patch 1592083.

## 1.2 Common

The following changes have been made to the common code since the 1.72.0 release.

- Michael(tm) Smith: `labels.xml`

Changed handling of reference auto-labeling such that reference (when it appears at the component level) is now affected by the `label.from.part` param, just as preface, chapter, and appendix.

- Michael(tm) Smith: `common.xml`

Added support to the HTML stylesheets for proper processing of `orgname` as a child of `author`.

- Michael(tm) Smith: `refentry.xml`

Refined logging output of `refentry` metadata-gathering template; for some cases of "missing" elements (`refmiscinfo` stuff, etc.), the log messages now include URL to corresponding page in the Definitive Guide (TDG).

- Robert Stayton: `titles.xml`

Add `refsection/info/title` support.

- Michael(tm) Smith: `titles.xml`

Added support for correct handling of xref to elements that contain info/title descendants but no title children.

This should be further refined so that it handles any \*info elements. And there are probably some other places where similar handling for \*info/title should be added.

- Mauritz Jeanson: pi.xml

Modified <xsl:when> in datetime.format template to work around Xalan bug.

### 1.3 FO

The following changes have been made to the fo code since the 1.72.0 release.

- Robert Stayton: component.xml

Add parameters to the page.sequence utility template.

- Mauritz Jeanson: xref.xml

Added template for xref to area/areaset.  
Part of fix for bug #1675513 (xref to area broken).

- Michael(tm) Smith: inline.xml

Added template match for person element to fo stylesheet.

- Robert Stayton: lists.xml

Added support for spacing="compact" in variablelist, per bug report #1722540.

- Robert Stayton: table.xml

table pgwide="1" should also use pgwide.properties attribute-set.

- Mauritz Jeanson: inline.xml

Make citations numbered if bibliography.numbered != 0.

- Robert Stayton: param.xweb; param.ent

Add new profiling parameters for audience and wordsize.

- Robert Stayton: param.xweb; param.ent

Added callout.icon.size parameter.

- Robert Stayton: inline.xml; xref.xml

Add support for xlink as olink.

- Robert Stayton: autotoc.xml; param.xweb; param.ent

Add support for qanda.in.toc to fo TOC.

- Robert Stayton: `component.xml`

Improved the `page.sequence` utility template for use with book.

- Robert Stayton: `division.xml`

Refactored the big book template into smaller pieces.  
Used the "page.sequence" utility template in `component.xml` to shorten the toc piece.  
Added placeholder templates for `front.cover` and `back.cover`.

- Robert Stayton: `param.xweb`; `param.ent`; `sections.xml`

Add `section.container.element` parameter to enable  
pgwide spans inside sections.

- Robert Stayton: `param.xweb`; `param.ent`; `component.xml`

Add `component.titlepage.properties` attribute-set to  
support `span="all"` and other properties.

- Robert Stayton: `htmltbl.xml`; `table.xml`

Apply `table.row.properties` template to html tr rows too.  
Add `keep-with-next` to `table.row.properties` when row is in thead.

- Robert Stayton: `table.xml`

Add support for `default.table.frame` parameter.  
Fix bug 1575446 rowsep last check for @morerows.

- Robert Stayton: `refentry.xml`

Add support for info/title in refsections.

- David Cramer: `qandaset.xml`

Make fo questions and answers behave the same way as html

- Jirka Kosek: `lists.xml`

Added missing attribute set for procedure

- Jirka Kosek: `param.xweb`; `biblio.xml`; `docbook.xml`; `param.ent`; `biblio-iso690.xml`

Added support for formatting biblioentries according to ISO690 citation style.  
New bibliography style can be turned on by setting parameter `bibliography.style` to "iso690 ↔"  
The code was provided by Jana Dvorakova

- Robert Stayton: `param.xweb`; `param.ent`; `pagesetup.xml`

Add `header.table.properties` and `footer.table.properties` attribute-sets.

- Robert Stayton: `inline.xml`

Add `fop1.extensions` for menuchoice arrow handling exception.



## 1.4 HTML

The following changes have been made to the `html` code since the 1.72.0 release.

- Mauritz Jeanson: `param.xweb`; `param.ent`

Moved declaration and documentation of `javahelp.encoding` from `javahelp.xsl` to the regular "parameter machinery".

- Michael(tm) Smith: `admon.xsl`

Changed handling of titles for note, warning, caution, important, tip admonitions: We now output and HTML h3 head only if `admon.textlabel` is non-zero or if the admonition actually contains a title; otherwise, we don't output an h3 head at all. (Previously, we were outputting an empty h3 if the `admon.textlabel` was zero and if the admonition had no title.)

- Mauritz Jeanson: `xref.xsl`

Added template for `xref` to `area/areaset`.  
Part of fix for bug #1675513 (`xref` to `area` broken).

- Mauritz Jeanson: `titlepage.xsl`; `component.xsl`; `division.xsl`; `sections.xsl`

Added fixes to avoid duplicate ids when `generate.id.attributes = 1`.  
This (hopefully) closes bug #1671052.

- Michael(tm) Smith: `formal.xsl`; `pi.xsl`

Made the `dbfunclist` PI work as intended. Also added doc for `dbfunclist` and `dbcmdlist` PIs.

- Michael(tm) Smith: `pi.xsl`; `synop.xsl`

Made the `dbcmdlist` work the way it appears to have been intended to work. Restored `dbhtml-dir` template back to `pi.xsl`.

- Michael(tm) Smith: `titlepage.xsl`; `param.xweb`; `param.ent`

Added new `param abstract.nottitle.enabled`.  
If non-zero, in output of the abstract element on titlepages, display of the abstract title is suppressed.  
Because sometimes you really don't want or need that title there...

- Michael(tm) Smith: `chunk-code.xsl`; `graphics.xsl`

When we are chunking long descriptions for `mediaobject` instances into separate HTML output files, and `use.id.as.filename` is non-zero, if a `mediaobject` has an ID, use that ID as the basename for the long-description file (otherwise, we generate an ID for it and use that ID as the basename for the file).  
The parallels the recent change made to cause IDs for `legalnotice` instances to be used as basenames for `legalnotice` chunks.  
Also, made some minor refinements to the recent changes for `legalnotice` chunk handling.

- Michael(tm) Smith: `titlepage.xsl`

Added support to the HTML stylesheets for proper processing of orgname as a child of author.

- Michael(tm) Smith: chunk-code.xsl

When \$generate.legalnotice.link is non-zero and \$use.id.as.filename is also non-zero, if a legalnotice has an ID, then instead of assigning the "ln-<generatedID>" basename to the output file for that legalnotice, just use its real ID as the basename for the file -- as we do when chunking other elements that have IDs.

- David Cramer: xref.xsl

Handle alt text on xrefs to steps when the step doesn't have a title.

- David Cramer: lists.xsl

Added <p> element around term in variablelist when formatted as table to avoid ↩ misalignment of term and listitem in xhtml (non-quirks mode) output

- David Cramer: gandaset.xsl

Added <p> element around question and answer labels to avoid misalignment of label and ↩ listitem in xhtml (non-quirks mode) output

- David Cramer: lists.xsl

Added <p> element around callouts to avoid misalignment of callout and listitem in xhtml ( ↩ non-quirks mode) output

- Mauritz Jeanson: inline.xsl

Make citations numbered if bibliography.numbered != 0.

- Robert Stayton: param.xweb; param.ent

Add support for new profiling attributes audience and wordsize.

- Robert Stayton: inline.xsl; xref.xsl

Add support for xlink olinks.

- Jirka Kosek: glossary.xsl

Rules for normalizing glossary entries before they are sorted can be now different for ↩ each language.

- Robert Stayton: chunk-common.xsl; chunk-code.xsl; manifest.xsl; chunk.xsl

Refactored the chunking modules to move all named templates to chunk-common.xsl and all match templates to chunk-code.xsl, in order to enable better chunk customization. See the comments in chunk.xsl for more details.

- Robert Stayton: lists.xsl

Add anchor for xml:id for listitem in varlistentry.

- Robert Stayton: `refentry.xml`

Add support for `info/title` in `refsections` for `db5`.

- Jirka Kosek: `param.xweb`; `biblio.xml`; `docbook.xml`; `param.ent`; `biblio-iso690.xml`

Added support for formatting `biblioentries` according to ISO690 citation style.

New bibliography style can be turned on by setting parameter `bibliography.style` to `"iso690 ↵`  
`"`

The code was provided by Jana Dvorakova

- Robert Stayton: `inline.xml`; `xref.xml`

Add call to `class.attribute` to `<a>` output elements so they can have a `class` value too.

- Mauritz Jeanson: `glossary.xml`

Fixed bug #1644881:

- \* Added curly braces around all `$language` attribute values.

- \* Moved declaration of `language` variable to top level of stylesheet.

Tested with Xalan, Saxon, and xsltproc.

## 1.5 Manpages

The following changes have been made to the `manpages` code since the 1.72.0 release.

- Michael(tm) Smith: `param.xweb`; `docbook.xml`; `param.ent`

Added the `man.authors.section.enabled` and `man.copyright.section.enabled` parameters. Set those to zero when you want to suppress display of the auto-generated `AUTHORS` and `COPYRIGHT` sections. Closes request #1467806. Thanks to Daniel Leidert.

- Michael(tm) Smith: `docbook.xml`

Took the test that the `manpages` stylesheet does to see if there are any `Refentry` children in current doc, and made it namespace-agnostic. Reason for that is because the test otherwise won't work when it is copied over into the generated `profile-docbook.xml` stylesheet.

- Michael(tm) Smith: `Makefile`

Added a `manpages/profile-docbook.xml` file to enable single-pass profiling for `manpages` output.

- Michael(tm) Smith: `info.xml`

Output `copyright` and `legalnotice` in `man-page` output in whatever place they are in in document order. Closes #1690539. Thanks to Daniel Leidert for reporting.

- Michael(tm) Smith: `docbook.xml`

Restored support for single-pass namespace stripping to `manpages` stylesheet.

- Michael(tm) Smith: `synop.xml; block.xml; info.xml; inline.xml; lists.xml; endnotes.xml; ut...`

Changed handling of bold and italic/underline output in manpages output. Should be transparent to users, but...

This touches handling of all bold and italic/underline output. The exact change is that the `mode="bold"` and `mode="italic"` utility templates were changed to named templates. (I think maybe I've changed it back and forth from mode to named before, so this is maybe re-reverting it yet again).

Anyway, the reason for the change is that the templates are sometimes call on dynamically node-sets, and using modes to format those doesn't allow passing info about the current/real context node from the source (not the node-set created by the stylesheet) to that formatting stage.

The named templates allow the context to be passed in as a parameter, so that the bold/ital formatting template can use context-aware condition checking.

This was basically necessary in order to suppress bold formatting in titles, which otherwise gets screwed up because of the numbnut way that roff handles nested bold/ital.

Closes #1674534). Much thanks to Daniel Leidert, whose in his docbook-xsl bug-finding kung-fu has achieved Grand Master status.

- Michael(tm) Smith: `block.xml`

Fixed handling of example instances by adding the example element to the same template we use for processing figure. Closes #1674538. Thanks to Daniel Leidert.

- Michael(tm) Smith: `utility.xml`

Don't include lang in manpages filename/pathname if lang=en (that is, only generate lang-qualified file-/pathnames for non-English).

- Michael(tm) Smith: `endnotes.xml`

In manpages output, emit warnings for notesources (footnote, etc.) that have something other than para as a child.

The numbered-with-hanging-indent formatting that's used for rendering endnotes in the NOTES section of man pages places some limits/assumptions on how the DocBook source is marked up; namely, for notesources (footnote, annotation, etc.) that can contain block-level children, if the they have a block-level child such as a table or itemizedlist or orderedlist that is the first child of a footnote, we have no way of rendering/indenting its content properly in the endnotes list.

Thus, the manpages stylesheet not emits a warning message for that case, and suggests the "fix" (which is to wrap the table or itemizedlist or whatever in a para that has some preferatory text.

- Michael(tm) Smith: `utility.xml`

Added support to mixed-block template for handling tables in mixed-blocks (e.g., as child of para) correctly.

- Michael(tm) Smith: `table.xml; synop.xml; block.xml; info.xml; lists.xml; refentry.xml; end...`

Reverted necessary escaping of backslash, dot, and dash out of the well-intentioned (but it now appears, misguided) "marker" mechanism (introduced in the 1.72.0 release) -- which made use of alternative "marker" characters as internal representations of those characters, and then replaced them just prior to serialization -- and back into what's basically the system that was used prior to the 1.69.0 release; that is, into a part of stylesheet code that gets executed at the beginning of processing -- before any other roff markup up is. This change obviates the need for the marker system. It also requires a lot less RAM during processing (for large files, the marker mechanism ending up requiring gigabytes of memory).

Closes bug #1661177. Thanks to Scott Smedley for providing a test case (the fvwm man page) that exposed the problem with the marker mechanism.

Also moved the mechanism for converting non-breaking spaces back into the same area of the stylesheet code.

- Michael(tm) Smith: `lists.xml`

Fixed problem with incorrect formatting of nested variablelist. Closes bug #1650931. Thanks to Daniel "Eagle Eye" Leidert.

- Michael(tm) Smith: `lists.xml`

Make sure that all listitems in itemizedlist and orderedlist are preceded by a blank line. This fixes a regression that occurred when instances of the TP macro that were use in a previous versions of the list-handling code were switched to RS/RE (because TP doesn't support nesting). TP automatically generates a blank line, but RS doesn't. So I added a .sp before each .RS

- Michael(tm) Smith: `block.xml; inline.xml; param.xweb; docbook.xml; links.xml; param.ent`

Made a number of changes related to elements with out-of-line content:

- Added handling for mediaobject & inlinemediaobject. Each imagedata, audiodata, or videodata element within a mediaobject or inline mediaobject is now treated as a "notesource" and so handled in much the same way as links and annotation/alt/footnotes.

That means a numbered marker is generated inline to mark the place in the main flow where the imagedata, audiodata, or videodata element occurs, and a corresponding numbered endnote for it is generated in the endnotes list at the end of the man page; the endnote contains the URL from the fileref attribute of the imagedata, audiodata, or videodata element.

For mediobject and inlinemediaobject instances that have a textobject child, the textobject is displayed within the main text flow.

- Renamed several `man.link.*` params to `man.endnotes.*`, to reflect that fact that the endnotes list now contains more than just links. Also did similar renaming for a number of stylesheet-internal vars.
- Added support for `xlink:href` (along with existing support for the legacy `ulink` element).
- Cleaned up and streamlined the endnotes-handling code. It's still messy and klunky and the basic mechanism it uses is very inefficient for documents that contain a lot of notesources, but at least it's a bit better than it was.

## 1.6 Eclipse

The following changes have been made to the `eclipse` code since the 1.72.0 release.

- Mauritz Jeanson: `Makefile`

Fixed bug #1715093: `Makefile` for creating profiled version of `eclipse.xsl` added.

- David Cramer: `eclipse.xsl`

Added `normalize-space` around `to` to avoid leading whitespace from appearing in the output if `↔` there's extra leading whitespace (e.g. `<title> Foo</title>`) in the source

## 1.7 JavaHelp

The following changes have been made to the `javahelp` code since the 1.72.0 release.

- Mauritz Jeanson: `javahelp.xsl`

Implemented FR #1230233 (sorted index in `javahelp`).

- Mauritz Jeanson: `javahelp.xsl`

Added `normalize-space()` around titles and index entries to work around whitespace problems `↔`  
.  
Added support for glossary and bibliography in `toc` and `map` files.

## 1.8 Roundtrip

The following changes have been made to the `roundtrip` code since the 1.72.0 release.

- Steve Ball: `blocks2dbk.xsl`; `wordml2normalise.xsl`; `normalise2sections.xsl`; `sections-2blocks...`

new stylesheets for better word processor support and easier maintenance

- Steve Ball: `template-pages.xml`; `dbk2wp.xsl`; `sections-spec.xml`

fixed bugs

## 1.9 Params

The following changes have been made to the params code since the 1.72.0 release.

- Mauritz Jeanson: `htmlhelp.button.back.xml`; `htmlhelp.button.forward.xml`; `htmlhelp.button.zo...`

Modified repurpose text.

- Mauritz Jeanson: `htmlhelp.map.file.xml`; `htmlhelp.force.map.and.alias.xml`; `htmlhelp.alias.f...`

Fixed typos, made some small changes.

- Mauritz Jeanson: `javahelp.encoding.xml`

Moved declaration and documentation of `javahelp.encoding` from `javahelp.xsl` to the regular "parameter machinery".

- Mauritz Jeanson: `generate.id.attributes.xml`

Added repurpose text.

- Mauritz Jeanson: `annotation.js.xml`; `annotation.graphic.open.xml`; `annotation.graphic.close...`

Added better repurpose texts.

- Michael(tm) Smith: `chunker.output.cdata-section-elements.xml`; `chunker.output.standalone.xml...`

Fixed some broken formatting in source files for `chunker.* params`, as pointed out by Dave Pawson.

- Michael(tm) Smith: `label.from.part.xml`

Changed handling of reference auto-labeling such that reference (when it appears at the component level) is now affected by the `label.from.part` param, just as `preface`, `chapter`, and `appendix`.

- Mauritz Jeanson: `callout.graphics.extension.xml`

Clarified that 'extension' refers to file names.

- Michael(tm) Smith: `abstract.notitle.enabled.xml`

Added new param `abstract.notitle.enabled`.  
If non-zero, in output of the abstract element on titlepages, display of the abstract title is suppressed.  
Because sometimes you really don't want or need that title there...

- Michael(tm) Smith: `man.string.subst.map.xml`

Updated manpages string-substitute map to reflect fact that because of another recent change to suppress bold markup in `.SH` output, we no longer need to add a workaround for the accidental uppercasing of roff escapes that occurred previously.

- Jirka Kosek: `margin.note.float.type.xml`; `title.font.family.xml`; `table.frame.border-color.x...`

Improved parameter metadata

- Robert Stayton: `profile.wordsize.xml`; `profile.audience.xml`

Add support for profiling on new attributes audience and wordsize.

- Robert Stayton: `callout.graphics.number.limit.xml`; `callout.graphics.extension.xml`

Added SVG graphics for fo output.

- Robert Stayton: `callout.icon.size.xml`

Set size of callout graphics.

- Jirka Kosek: `default.units.xml`; `chunker.output.method.xml`; `toc.list.type.xml`; `output.inden...`

Updated parameter metadata to the new format.

- Jirka Kosek: `man.output.quietly.xml`; `title.font.family.xml`; `footnote.sep.leader.pr...`

Added type annotations into parameter definition files.

- Robert Stayton: `section.container.element.xml`

Support spans in sections for certain processors.

- Robert Stayton: `component.titlepage.properties.xml`

Empty attribute set for top level component titlepage block.  
Allows setting a span on title info.

- Jirka Kosek: `bibliography.style.xml`

Added link to WiKi page with description of special markup needed for ISO690 biblientries

- Robert Stayton: `make.year.ranges.xml`

Clarify that multiple year elements are required.

- Robert Stayton: `id.warnings.xml`

Turn off id.warnings by default.

- Jirka Kosek: `bibliography.style.xml`

Added support for formatting biblientries according to ISO690 citation style.  
New bibliography style can be turned on by setting parameter `bibliography.style` to "iso690 ←"  
The code was provided by Jana Dvorakova

- Robert Stayton: `header.table.properties.xml`; `footer.table.properties.xml`

Support adding table properties to header and footer tables.



## 1.10 Highlighting

The following changes have been made to the highlighting code since the 1.72.0 release.

- Jirka Kosek: `c-hl.xml; xslthl-config.xml`

Added support for C language. Provided by Bruno Guegan.

## 1.11 Profiling

The following changes have been made to the profiling code since the 1.72.0 release.

- Robert Stayton: `profile-mode.xsl`

Add support for new profiling attributes audience and wordsize.

## 1.12 Lib

The following changes have been made to the lib code since the 1.72.0 release.

- Michael(tm) Smith: `lib.xweb`

Changed name of prepend-pad template to pad-string and tweaked so it can do both right/left padding.

## 1.13 Tools

The following changes have been made to the tools code since the 1.72.0 release.

- Michael(tm) Smith: `bin; bin/docbook-xsl-update`

Did some cleanup to the install.sh source and added a docbook-xsl-update script to the docbook-xsl distro, the purpose of which is to facilitate easy sync-up to the latest docbook-xsl snapshot (by means of rsync).

# 2 Release: 1.72.0

This release includes important bug fixes and adds the following significant feature changes:

### Automatic sorting of glossary entries

The HTML and FO stylesheets now support automatic sorting of glossary entries. To enable glossary sorting, set the value of the `glossary.sort` parameter to 1 (by default, it's value is 0). When you enable glossary sorting, `gloss-entry` elements within a `glossary`, `glossdiv`, or `glosslist` are sorted on the `glossterm`, using the current language setting. If you don't enable glossary sorting, then the order of `glossentry` elements is left "as is" — that is, they are not sorted but are instead just displayed in document order.

### WordML renamed to Roundtrip, OpenOffice support added

Stylesheets for "roundtrip" conversion between documents in OpenOffice format (ODF) and DocBook XML have been added to the set of stylesheets that formerly had the collective title *WordML*, and that set of stylesheets has been renamed to *Roundtrip* to better reflect the actual scope and purpose of its contents.

So the DocBook XSL Stylesheets now support roundtrip conversion (with certain limitations) of WordML, OpenOffice, and Apple Pages documents to and from DocBook XML.

### Including QandASet questions in TOCs

The HTML stylesheet now provides support for including QandASet questions in the document TOC. To enable display of questions in the document TOC, set the value of the `qanda.in.toc` to 1 (by default, it's 0). When you enable `qanda.in.toc`, then the generated table of contents for a document will include `qandaset` titles, `qandadiv` titles, and `question` elements. The default value of zero excludes them from the TOC.

---

#### Note

The `qanda.in.toc` parameter does not affect any tables of contents that may be generated *within* a `qandaset` or `qandadiv` (only in the document TOC).

---

### Language identifier in man-page filenames and pathnames

Added new parameter `man.output.lang.in.name.enabled`, which controls whether a language identifier is included in man-page filenames and pathnames. It works like this:

If the value of `man.output.lang.in.name.enabled` is non-zero, man-page files are output with a language identifier included in their filenames or pathnames as follows:

- if `man.output.subdirs.enabled` is non-zero, each file is output to, e.g., a `/ $lang / man8 / foo . 8` pathname
- if `man.output.subdirs.enabled` is zero, each file is output with a `foo . $lang . 8` filename

### `index.page.number.properties` property set

For FO output, use the `index.page.number.properties` to control formatting of page numbers in `index` output — to (for example) to display page numbers in `index` output in a different color (to indicate that they are links).

### Crop marks in output from Antenna House XSL Formatter

Support has been added for generating crop marks in print/PDF output generated using Antenna House XSL Formatter

### More string-substitution hooks in manpages output

The `man.string.subst.map.local.pre` and `man.string.subst.map.local.post` parameters have been added to enable easier control over custom string substitutions.

### Moved verbatim properties to attribute-set

The hardcoded properties used in verbatim elements (`literallayout`, `programlisting`, `screen`) were moved to the `verbatim.properties` attribute-set so they can be more easily customized.

### enhanced simple.xlink template

Now the `simple.xlink` template in `inline.xsl` works with cross reference elements `xref` and `link` as well. Also, more elements call `simple.xlink`, which enables DB5 xlink functionality.

### DocBook 5 compatibility

Stylesheets now consistently support DocBook 5 attributes (such as `xml:id`). Also, DocBook 5 info elements are now checked along with other `*info` elements, and the use of `name()` function was replaced by `local-name()` so it also matches on DocBook 5 elements. These changes enable reusing the stylesheets with DocBook 5 documents with minimal fixup.

### HTML class attributes now handled in class.attribute mode

The HTML class attributes were formerly hardcoded to the element name. Now the class attribute is generated by applying templates in `class.attribute` mode so class attribute names can be customized. The default is still the element name.

### arabic-indic numbering enabled in autolabels

Numbering of chapter, sections, and pages can now use arabic-indic numbering when number format is set to 'arabicindic' or to `&#x661;`.

The following is a detailed list of changes (not including bug fixes) that have been made since the 1.71.1 release.

## 2.1 Common

The following changes have been made to the `common` code since the 1.71.1 release.

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- Add support for arabicindic numbering to autolabel.format template.
- Finish support for @xml:id everywhere @id is used.
- replace name() with local-name() in most cases.
- Add support for info.
- Add utility template tabstyle to return the tabstyle from any table element.

## 2.2 FO

The following changes have been made to the fo code since the 1.71.1 release.

- Add support for sorting glossary entries
- Add table.row.properties template to customize table rows.
- Moved all properties to attribute-sets so can be customized more easily.
- Add index.page.number.properties attribute-set to format page numbers.
- xref now supports xlink:href, using simple.xlink template.
- Rewrote simple.xlink, and call it with all charseq templates.
- Add simple.xlink processing to term and member elements.
- Add support for crop marks in Antenna House.

## 2.3 HTML

The following changes have been made to the html code since the 1.71.1 release.

- Add support for sorting glossary entries
  - Add support for qanda.in.toc to add qandaentry questions to document TOC.
  - add simple.xlink support to variablelist term and simplelist member.
  - \*.propagates.style now handled in class.attribute mode.
  - add class parameter to class.attribute mode to set default class.
  - Convert all class attributes to use the class.attribute mode so class names can be customized more easily.
  - Add class.attribute mode to generate class attributes.
  - Added simple.xlink to most remaining inlines.  
Changed class attributes to applying class.attributes mode.
  - Changed xref template to use simple.xlink tempalte.
  - Improve generate.html.title to work with link targets too.
  - Improved simple.xlink to support link and xref.
  - Use new link.title.attribute now.
  - Rewrote simple.xlink to handle linkend also.  
Better computation of title attribute on link too.
-

- Handle Xalan quirk as special case.
- Add support for info.
- Fixed imagemaps so they work properly going from calspair coords to HTML area coords.

## 2.4 Manpages

The following changes have been made to the manpages code since the 1.71.1 release.

- Added doc for `man.output.lang.in.name.enabled` parameter. This checkin completes support for writing file/pathnames for man-pages with `$lang` include in the names. Closes #1585967. knightly accolades to Daniel Leidert for providing the feature request.
- Added new param `man.output.lang.in.name.enabled`, which controls whether `$LANG` value is included in manpages filenames and pathnames. It works like this:

If the value of `man.output.lang.in.name.enabled` is non-zero, man-page files are output with the `$lang` value included in their filenames or pathnames as follows;

- if `man.output.subdirs.enabled` is non-zero, each file is output to, e.g., a `/ $lang / man8 / foo.8` pathname
- if `man.output.subdirs.enabled` is zero, each file is output with a `foo. $lang .8` filename
- Use `"\e"` instead of `"\\"` for backslash output, because the groff docs say that's the correct thing to do; also because testing (thanks, Paul Dubois) shows that `"\\"` doesn't always work as expected; for example, `"\\"` within a table seems to mess things up.
- Added the `man.string.subst.map.local.pre` and `man.string.subst.map.local.post` parameters. Those parameters enable local additions and changes to string-substitution mappings without the need to change the value of `man.string.subst.map` parameter (which is for standard system mappings). Closes #1456738. Thanks to Sam Steingold for constructing a true stylesheet torture test (the clisp docs) that exposed the need for these params.
- Added the Markup element to the list of elements that get output in bold. Thanks to Eric S. Raymond.
- Replaced all dots in roff requests with U+2302 ("house" character), and added escaping in output for all instances of dot that are not in roff requests. This fixes the problem case where a string beginning with a dot (for example, the string `".bashrc"`) might occur at the beginning of a line in output, in which case would mistakenly get interpreted as a roff request. Thanks to Eric S. Raymond for pushing to fix this.
- Made change to ensure that list content nested in `itemizedlist` and `orderedlist` instances is properly indented. This is a switch from using `.TP` to format those lists to using `.RS/.RE`

to format them instead (because .TP does not allow nesting). Closes bug #1602616. Thanks to Daniel Leidert.

## 2.5 Params

The following changes have been made to the params code since the 1.71.1 release.

- Added doc for `man.output.lang.in.name.enabled` parameter. This checkin completes support for writing file/pathnames for man-pages with `$lang` include in the names. Closes #1585967. knightly accolades to Daniel Leidert for providing the feature request.
- Added new param `man.output.lang.in.name.enabled`, which controls whether `$LANG` value is included in manpages filenames and pathnames. It works like this:

If the value of `man.output.lang.in.name.enabled` is non-zero, man-page files are output with the `$lang` value included in their filenames or pathnames as follows;

- if `man.output.subdirs.enabled` is non-zero, each file is output to, e.g., a `/ $lang /man8 /foo.8` pathname
- if `man.output.subdirs.enabled` is zero, each file is output with a `foo.$lang.8` filename

- Added the `man.string.subst.map.local.pre` and `man.string.subst.map.local.post` parameters. Those parameters enable local additions and changes to string-substitution mappings without the need to change the value of `man.string.subst.map` parameter (which is for standard system mappings). Closes #1456738. Thanks to Sam Steingold for constructing a true stylesheet torture test (the clisp docs) that exposed the need for these params.
- Add `index.page.number.properties` by default.
- Added `index.page.number.properties` to allow customizations of page numbers in indexes.
- Move `show-destination="replace"` property from template to attribute-set so it can be customized.
- Add support for sorting glossary entries
- Add option to include qanda in tables of contents.
- Moved all properties to attribute-sets so can be customized more easily.

## 2.6 Template

The following changes have been made to the template code since the 1.71.1 release.

- Added workaround for Xalan bug: use `for-each` and `copy` instead of `copy-of` (#1604770).

## 2.7 Roundtrip

The following changes have been made to the roundtrip code since the 1.71.1 release.

- rename to `roundtrip`, add OpenOffice support
-

### 3 Release: 1.71.1

This is a minor update to the 1.71.0 release. Along with a number of bug fixes, it includes two feature changes:

- Added support for profiling based on `xml:lang` and `status` attributes.
- Added initial support in manpages output for `footnote`, `annotation`, and `alt` instances. Basically, they all now get handled the same way `ulink` instances are. They are treated as a class as "note sources": A numbered marker is generated at the place in the main text flow where they occur, then their contents are displayed in an endnotes section at the end of the man page.

#### 3.1 Common

The following changes have been made to the `common` code since the 1.71.1 release.

- For backward compatability `autoidx-ng.xml` is invoking "kosek" indexing method again.
- Add support for Xalan generating a root `xml:base` like `saxon`.

#### 3.2 FO

The following changes have been made to the `fo` code since the 1.71.1 release.

- For backward compatability `autoidx-ng.xml` is invoking "kosek" indexing method again.
- Add support for Xalan to add root node `xml:base` for `db5` docs.
- Added support for profiling based on `xml:lang` and `status` attributes.

#### 3.3 HTML

The following changes have been made to the `html` code since the 1.71.1 release.

- For backward compatability `autoidx-ng.xml` is invoking "kosek" indexing method again.
- Add support for Xalan to add root node `xml:base` for `db5` docs.
- Added support for profiling based on `xml:lang` and `status` attributes.
- Made changes in namespace declarations to prevent `xmllint`'s canonicalizer from treating them as relative namespace URIs.
  - Changed `xmlns:k="java:com.isogen.saxon18n.Saxon18nService"` to `xmlns:k="http://www.isogen.com/functions/com.isogen.saxon18n.Saxon18nService"`; Saxon accepts either form (see <http://www.saxonica.com/documentation/extensibility/functions.html>); to Saxon, "the part of the URI before the final `'/'` is immaterial".
  - Changed, e.g. `xmlns:xverb="com.nwalsh.xalan.Verbatim"` to `xmlns:xverb="xalan://com.nwalsh.xalan.Verbatim"`; Xalan accepts either form (see <http://xml.apache.org/xalan-j/extensions.html#java-namespace-declare>); just as Saxon does, it will "simply use the string to the right of the rightmost forward slash as the Java class name".
  - Changed `xmlns:xalanredirect="org.apache.xalan.xslt.extensions.Redirect"` to `xmlns:redirect="http://xml.apache.org/xalan/redirect"`, and adjusted associated code to make the current Xalan redirect spec. (see <http://xml.apache.org/xalan-j/apidocs/org/apache/xalan/lib/Redirect.html>)

- Added the `html.append` and `chunk.append` parameters. By default, the value of both is empty; but the internal DocBook XSL stylesheets build sets their value to "`<xsl:text>&#x0a;</xsl:text>`", in order to ensure that all files in the `docbook-xsl-doc` package end in a newline character. (Because `diff` and some other tools may emit error messages and/or not behave as expected when processing files that are not newline-terminated.)

### 3.4 Highlighting

The following changes have been made to the highlighting code since the 1.71.1 release.

- Added license information

### 3.5 Manpages

The following changes have been made to the manpages code since the 1.71.1 release.

- Added initial support in manpages output for footnote, annotation, and alt instances. Basically, they all now get handled the same way `ulink` instances are. They are treated as a class as "note sources": A numbered marker is generated at the place in the main text flow where they occur, then their contents are displayed in an endnotes section at the end of the man page (currently titled REFERENCES, for English output, but will be changed to NOTES).

This support is not yet complete. It works for most "normal" cases, but probably mishandles a good number of cases. More testing will be needed to expose the problems. It may well also introduce some bugs and regressions in other areas, including basic paragraph handling, handling of "mixed block" content, handling of other indented content, and handling of `authorblurb` and `personblurb` in the AUTHORS section.

### 3.6 Params

The following changes have been made to the `params` code since the 1.71.1 release.

- Added support for profiling based on `xml:lang` and `status` attributes.
- Added the `html.append` and `chunk.append` parameters. By default, the value of both is empty; but the internal DocBook XSL stylesheets build sets their value to "`<xsl:text>&#x0a;</xsl:text>`", in order to ensure that all files in the `docbook-xsl-doc` package end in a newline character. (Because `diff` and some other tools may emit error messages and/or not behave as expected when processing files that are not newline-terminated.)

### 3.7 Profiling

The following changes have been made to the profiling code since the 1.71.1 release.

- Added support for profiling based on `xml:lang` and `status` attributes.
-

## 4 Release: 1.71.0

This is mainly a bug fix release, but it also includes two significant feature changes:

### Highlighting support added

The stylesheets now include support for source-code highlighting in output of programlisting instances (controlled through the `highlight.source` parameter). The Java-based implementation requires Saxon and makes use of Michal Molhanec's XSLTHL. More details are available at Jirka Kosek's website:

<http://xmlguru.cz/2006/07/docbook-syntax-highlighting>

The support is currently limited to highlighting of XML, Java, PHP, Delphi, Modula-2 sources, and INI files.

### Changes to autoindexing

The templates that handle alternative indexing methods were reworked to avoid errors produced by certain processors not being able to tolerate the presence of unused functions. With this release, none of the code for the 'kimber' or 'kosek' methods is included in the default stylesheets. In order to use one of those methods, your customization layer must import one of the optional stylesheet modules:

- `html/autoidx-kosek.xsl`
- `html/autoidx-kimber.xsl`
- `fo/autoidx-kosek.xsl`
- `fo/autoidx-kimber.xsl`

See the `index.method` parameter reference page for more information.

Two other changes to note:

- The default indexing method now can handle accented characters in latin-based alphabets, not just English. This means accented latin letters will group and sort with their unaccented counterpart.
- The default value for the `index.method` parameter was changed from 'english' to 'basic' because now the default method can handle latin-based alphabets, not just English.

The following is a list of changes that have been made since the 1.70.1 release.

### 4.1 Common

The following changes have been made to the `common` code since the 1.70.1 release.

- Added `reference.autolabel` parameter for controlling labels on reference output.
- Support rows that are *completely* overlapped by the preceding row
- New modules for supporting indexing extensions.
- Support `startinglinenumber` on `orderedlist`

### 4.2 Extensions

The following changes have been made to the `extensions` code since the 1.70.1 release.

- Completely reworked extensions build system; now uses NetBeans and ant



### 4.3 FO

The following changes have been made to the `fo` code since the 1.70.1 release.

- `xsl:sort lang` attribute now uses two-char substring of `lang` attribute.
- Support titlecase "Java", "Perl", and "IDL" as values for the language attribute on `classsynopsis`, etc. (instead of just lowercase "java", "perl", and "idl"). Also support "c++" and "C++" (instead of just "cpp").

Affects HTML, FO, and manpages output. Closes bug 1552332. Thanks to "Brian A. Vanderburg II".

- Added support for the `reference.autolabel` param in (X)HTML and FO output.
- Support rows that are *\*completely\** overlapped by the preceding row
- Rearranged templates for the 3 indexing methods and changed method named 'english' to 'basic'.
- New modules for supporting indexing extensions.
- Turn off `blank-body` for `fop1.extensions` too since `fop 0.92` does not support it either.
- Add Xalan variant to test for `exslt:node-set` function. Xalan can use function named `node-set()`, but doesn't recognize it using `function-available()`.
- Added support to FO stylesheets for handling instances of `Org` where it occurs outside of *\*info* content. In HTML stylesheets, moved handling of `Org` out of `info.xsl` and into `inline.xsl`. In both FO and HTML stylesheets, added support for correctly processing `Affiliation` and `Jobtitle`.
- Don't output punctuation between `Refname` and `Refpurpose` if `Refpurpose` is empty. Also corrected handling of `Refsect2/title` instances, and removed some debugging stuff that was generated in manpages output to mark the ends of sections.
- Added new `email.delimiters.enabled` param. If non-zero (the default), delimiters are generated around e-mail addresses (output of the email element). If zero, the delimiters are suppressed.
- Initial support of syntax highlighting of program listings.
- Chapter after preface should restart numbering of pages.

### 4.4 HTML

The following changes have been made to the `html` code since the 1.70.1 release.

- `xsl:sort lang` attribute now uses two-char substring of `lang` attribute.
- Support titlecase "Java", "Perl", and "IDL" as values for the language attribute on `classsynopsis`, etc. (instead of just lowercase "java", "perl", and "idl"). Also support "c++" and "C++" (instead of just "cpp").

Affects HTML, FO, and manpages output. Closes bug 1552332. Thanks to "Brian A. Vanderburg II".

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- Added support for the `reference.autolabel` param in (X)HTML and FO output.
- Support rows that are *\*completely\** overlapped by the preceding row
- Rearranged templates for the 3 indexing methods and changed method named 'english' to 'basic'.
- New modules for supporting indexing extensions.
- Added several new HTML parameters for controlling appearance of content on HTML title pages:

`contrib.inline.enabled:`

If non-zero (the default), output of the `contrib` element is displayed as inline content rather than as block content.

`othercredit.like.author.enabled:`

If non-zero, output of the `othercredit` element on titlepages is displayed in the same style as `author` and `editor` output. If zero (the default), `othercredit` output is displayed using a style different than that of `author` and `editor`.

`blurb.on.titlepage.enabled:`

If non-zero, output from `authorblurb` and `personblurb` elements is displayed on title pages. If zero (the default), output from those elements is suppressed on title pages (unless you are using a titlepage customization that causes them to be included).

`editedby.enabled`

If non-zero (the default), a localized `Edited by` heading is displayed above editor names in output of the `editor` element.

- Add Xalan variant to test for `exslt:node-set` function. Xalan can use function named `node-set()`, but doesn't recognize it using `function-available()`.
  - Added support to FO stylesheets for handling instances of `Org` where it occurs outside of *\*info* content. In HTML stylesheets, moved handling of `Org` out of `info.xsl` and into `inline.xsl`. In both FO and HTML stylesheets, added support for correctly processing `Affiliation` and `Jobtitle`.
  - Don't output punctuation between `Refname` and `Refpurpose` if `Refpurpose` is empty. Also corrected handling of `Refsect2/title` instances, and removed some debugging stuff that was generated in `manpages` output to mark the ends of sections.
  - Added new `email.delimiters.enabled` param. If non-zero (the default), delimiters are generated around e-mail addresses (output of the `email` element). If zero, the delimiters are suppressed.
  - Added `qanda.nested.in.toc` param. Default value is zero. If non-zero, instances of "nested" `Qandaentry` (ones that are children of `Answer` elements) are displayed in the TOC. Closes patch 1509018 (from Daniel Leidert). Currently on affects HTML output (no patch for FO output provided).
  - Improved handling of relative locations generated files
  - Initial support of syntax highlighting of `programlistings`.
-

- Support `org`
- Support `person`
- Support `$keep.relative.image.uris` also when chunking

## 4.5 Highlighting

The following changes have been made to the highlighting code since the 1.70.1 release.

- Initial support of syntax highlighting of `programlistings`.

## 4.6 Manpages

The following changes have been made to the manpages code since the 1.70.1 release.

- Suppress footnote markers and output warning that footnotes are not yet supported.
- Handle instances of `address/otheraddr/ulink` in `author et al` in the same way as email instances; that is, display them on the same `linke` as the `author, editor, etc., name`.
- Don't number or link-list any `Ulink` instance whose string value is identical to the value of its `url` attribute. Just display it inline.
- Don't output punctuation between `Refname` and `Refpurpose` if `Refpurpose` is empty. Also corrected handling of `Refsect2/title` instances, and removed some debugging stuff that was generated in manpages output to mark the ends of sections.
- Added new `email.delimiters.enabled` param. If non-zero (the default), delimiters are generated around e-mail addresses (output of the email element). If zero, the delimiters are suppressed.
- In manpages output, if the last/nearest `*info` element for particular `Refentry` has multiple `Copyright` and/or `Legalnotice` children, process them all (not just the first ones). Closes bug 1524576. Thanks to Sam Steingold for the report and to Daniel Leidert for providing a patch.

## 4.7 Params

The following changes have been made to the params code since the 1.70.1 release.

- Added `reference.autolabel` parameter for controlling labels on reference output.
- Added namespace declarations to document elements for all param files.
- Updated `index.method` doc to describe revised setup for importing index extensions.
- Added several new HTML parameters for controlling appearance of content on HTML title pages:

`contrib.inline.enabled`:

If non-zero (the default), output of the `contrib` element is displayed as inline content rather than as block content.

---

`othercredit.like.author.enabled:`

If non-zero, output of the `othercredit` element on titlepages is displayed in the same style as `author` and `editor` output. If zero (the default), `othercredit` output is displayed using a style different than that of `author` and `editor`.

`blurb.on.titlepage.enabled:`

If non-zero, output from `authorblurb` and `personblurb` elements is displayed on title pages. If zero (the default), output from those elements is suppressed on title pages (unless you are using a titlepage customization that causes them to be included).

`editedby.enabled`

If non-zero (the default), a localized `Edited by` heading is displayed above editor names in output of the `editor` element.

- Added new `email.delimiters.enabled` param. If non-zero (the default), delimiters are generated around e-mail addresses (output of the `email` element). If zero, the delimiters are suppressed.
- Added `qanda.nested.in.toc` param. Default value is zero. If non-zero, instances of "nested" `Qandaentry` (ones that are children of `Answer` elements) are displayed in the TOC. Closes patch 1509018 (from Daniel Leidert). Currently on affects HTML output (no patch for FO output provided).
- Initial support of syntax highlighting of `programlistings`.

## 4.8 Tools

The following changes have been made to the `tools` code since the 1.70.1 release.

- Ratched down font sizes of headings in example makefile FO output.
- Added param and attribute set to example makefile, for getting wrapping in verbatims in FO output.
- Renamed `Makefile.paramDoc` to `Makefile.docParam`.
- Added `Makefile.paramDoc` file, for creating versions of `param.xml` files with doc embedded.
- Added variable to example makefile for controlling whether HTML or XHTML is generated.

## 5 Release: 1.70.1

This is a stable release of the 1.70 stylesheets. It includes only a few small changes from 1.70.0.

The following is a list of changes that have been made since the 1.70.0 release.

### 5.1 FO

The following changes have been made to the `fo` code since the 1.70.0 release.

---

- Added three new attribute sets (`revhistory.title.properties`, `revhistory.table.properties` and `revhistory.table.cell.properties`) for controlling appearance of revhistory in FO output.

Modified: `fo/block.xsl,1.34`; `fo/param.ent,1.101`; `fo/param.xweb,1.114`; `fo/titlepage.xsl,1.41`; `params/revhistory.table.cell.properties.xml,1.1`; `params/revhistory.table.properties.xml,1.1`; `params/revhistory.title.properties.xml,1.1` - Jirka Kosek

- Support DBv5 revisions with full author name (not only authorinitials)

Modified: `fo/block.xsl,1.33`; `fo/titlepage.xsl,1.40` - Jirka Kosek

## 5.2 HTML

The following changes have been made to the `html` code since the 1.70.0 release.

- Support DBv5 revisions with full author name (not only authorinitials)

Modified: `html/block.xsl,1.23`; `html/titlepage.xsl,1.34` - Jirka Kosek

## 5.3 HTMLHelp

The following changes have been made to the `htmlhelp` code since the 1.70.0 release.

- `htmlhelp.generate.index` is now param, not variable. This means that you can override its setting from outside. This is useful when you generate indexterms on the fly (see <http://www.xml.com/pub/a/2004/07/14/dbndx.html?page=3>).

Modified: `htmlhelp/htmlhelp-common.xsl,1.38` - Jirka Kosek

- Support `chunk.tocs.and.lots` in HTML Help

Modified: `htmlhelp/htmlhelp-common.xsl,1.37` - Jirka Kosek

## 5.4 Params

The following changes have been made to the `params` code since the 1.70.0 release.

- Added three new attribute sets (`revhistory.title.properties`, `revhistory.table.properties` and `revhistory.table.cell.properties`) for controlling appearance of revhistory in FO output.

Modified: `fo/block.xsl,1.34`; `fo/param.ent,1.101`; `fo/param.xweb,1.114`; `fo/titlepage.xsl,1.41`; `params/revhistory.table.cell.properties.xml,1.1`; `params/revhistory.table.properties.xml,1.1`; `params/revhistory.title.properties.xml,1.1` - Jirka Kosek

## 6 Release: 1.70.0

As with all DocBook Project **dot-zero** releases, this is an experimental release. It will be followed shortly by a stable release.

This release adds a number of new features, including:

- support for selecting alternative index-collation methods (in particular, support for using a collation library developed by Eliot Kimber)
- improved handling of DocBook 5 document instances (through a namespace-stripping mechanism)
- full support for CALS and HTML tables in manpages output
- a mechanism for preserving relative URIs in documents that make use of XInclude
- support for the "new" .90 version of FOP
- enhanced capabilities for controlling formatting of lists in HTML and FO output

- autogeneration of AUTHOR and COPYRIGHT sections in manpages output
- support for generating crop marks in FO/PDF output
- support for qandaset as a root element in FO output
- support for floatstyle and orient on all table types
- support for floatstyle in figure, and example
- pgwide.properties attribute-set supports extending figure, example and table into the left indent area instead of spanning multiple columns.

The following is a detailed list of enhancements and API changes that have been made since the 1.69.1 release.

## 6.1 Common

The following changes have been made to the `common` code since the 1.69.1 release.

- Add the `xsl:key` for the kimber indexing method.  
Modified: `common/autoidx-ng.xsl`, 1.2 - Robert Stayton
- Add support for `qandaset`.  
Modified: `common/labels.xsl`, 1.37; `common/subtitles.xsl`, 1.7; `common/titles.xsl`, 1.35 - Robert Stayton
- Support `dbhtml/dbfo` start PI for `orderedlist` numbering in both HTML and FO  
Modified: `common/common.xsl`, 1.61; `html/lists.xsl`, 1.50 - Norman Walsh
- Added CVS header.  
Modified: `common/stripns.xsl`, 1.12 - Robert Stayton
- Changed content model of text element to ANY rather than #PCDATA because they could contain markup.  
Modified: `common/targetdatabase.dtd`, 1.7 - Robert Stayton
- Added `refentry.meta.get.quietly` param.  
If zero (the default), notes and warnings about "missing" markup are generated during gathering of `refentry` metadata. If non-zero, the metadata is gathered "quietly" -- that is, the notes and warnings are suppressed.  
NOTE: If you are processing a large amount of `refentry` content, you may be able to speed up processing significantly by setting a non-zero value for `refentry.meta.get.quietly`.  
Modified: `common/refentry.xsl`, 1.17; `manpages/param.ent`, 1.15; `manpages/param.xweb`, 1.17; `params/refentry.meta.get.quietly.xml`, 1.1 - Michael(tm) Smith
- After namespace stripping, the source document is the temporary tree created by the stripping process and it has the wrong base URI for relative references. Earlier versions of this code used to try to fix that by patching the elements with relative `@fileref` attributes. That was inadequate because it calculated an absolute base URI without considering that there might be `xml:base` attributes already in effect. It seems obvious now that the right thing to do is simply to put the `xml:base` on the root of the document. And that seems to work.  
Modified: `common/stripns.xsl`, 1.7 - Norman Walsh
- Added support for "software" and "sectdesc" class values on `refmiscinfo`; "software" is treated identically to "source", and "sectdesc" is treated identically to "manual".  
Modified: `common/refentry.xsl`, 1.10; `params/man.th.extra2.max.length.xml`, 1.3; `params/refentry.source.name.profile.xml`, 1.4 - Michael(tm) Smith
- Added support for DocBook 5 namespace-stripping in manpages stylesheet. Closes request #1210692.  
Modified: `common/common.xsl`, 1.56; `manpages/docbook.xsl`, 1.57 - Michael(tm) Smith

- Added `<xsl:template match="/">` to make `stripns.xsl` usable as a standalone stylesheet for stripping out DocBook 5/NG to DocBook 4. Note that DocBook XSLT drivers that include this stylesheet all override the `match="/"` template.

Modified: `common/stripns.xsl`, 1.4 - Michael(tm) Smith

- Number figures, examples, and tables from `book` if there is no prefix (i.e. if `chapter.autolabel` is set to 0). This avoids having the list of figures where the figures mysteriously restart their numeration periodically when `chapter.autolabel` is set to 0.

Modified: `common/labels.xsl`, 1.36 - David Cramer

- Add `task` template in `title.markup` mode.

Modified: `common/titles.xsl`, 1.34 - Robert Stayton

- Add children (with ids) of formal objects to target data.

Modified: `common/targets.xsl`, 1.10 - Robert Stayton

- Added support for case when `personname` doesn't contain specific name markup (as allowed in DocBook 5.0)

Modified: `common/common.xsl`, 1.54 - Jirka Kosek

## 6.2 Extensions

The following changes have been made to the `extensions` code since the 1.69.1 release.

- Support Xalan 2.7

Modified: `extensions/xalan27/cvsignore`, 1.1; `extensions/xalan27/build.xml`, 1.1; `extensions/xalan27/nbproject/cvsignore`, 1.1; `extensions/xalan27/nbproject/build-impl.xml`, 1.1; `extensions/xalan27/nbproject/genfiles.properties`, 1.1; `extensions/xalan27/nbproject/project.xml`, 1.1; `extensions/xalan27/src/com/nwalsh/xalan/CVS.java`, 1.1; `extensions/xalan27/src/com/nwalsh/xalan/FormatCallout.java`, 1.1; `extensions/xalan27/src/com/nwalsh/xalan/FormatDingbatCallout.java`, 1.1; `extensions/xalan27/src/com/nwalsh/xalan/FormatGraphicCallout.java`, 1.1; `extensions/xalan27/src/com/nwalsh/xalan/FormatTextCallout.java`, 1.1; `extensions/xalan27/src/com/nwalsh/xalan/FormatUnicodeCallout.java`, 1.1; `extensions/xalan27/src/com/nwalsh/xalan/Func.java`, 1.1; `extensions/xalan27/src/com/nwalsh/xalan/ImageIntrinsics.java`, 1.1; `extensions/xalan27/src/com/nwalsh/xalan/Params.java`, 1.1; `extensions/xalan27/src/com/nwalsh/xalan/Table.java`, 1.1; `extensions/xalan27/src/com/nwalsh/xalan/Text.java`, 1.1; `extensions/xalan27/src/com/nwalsh/xalan/Verbatim.java`, 1.1 - Norman Walsh

- Handle the case where the `imageFn` is actually a `URI`. This still needs work.

Modified: `extensions/saxon643/com/nwalsh/saxon/ImageIntrinsics.java`, 1.4 - Norman Walsh

## 6.3 FO

The following changes have been made to the `fo` code since the 1.69.1 release.

- Adapted to the new indexing code. Now works just like a wrapper that calls kosek indexing method, originally implemented here.

Modified: `fo/autoidx-ng.xsl`, 1.5 - Jirka Kosek

- Added parameters for header/footer `table` minimum height.

Modified: `fo/pagesetup.xsl`, 1.60; `fo/param.ent`, 1.100; `fo/param.xweb`, 1.113 - Robert Stayton

- Add the `index.method` parameter.

Modified: `fo/param.ent`, 1.99; `fo/param.xweb`, 1.112 - Robert Stayton

- Integrate support for three indexing methods: - the original English-only method. - Jirka Kosek's method using EXSLT extensions. - Eliot Kimber's method using Saxon extensions. Use the `'index.method'` parameter to select.

Modified: `fo/autoidx.xsl`, 1.38 - Robert Stayton

- Add support for TOC for `qandaset` in fo output.  
Modified: fo/autotoc.xsl,1.30; fo/qandaset.xsl,1.20 - Robert Stayton
- Added parameter `ulink.hyphenate.chars`. Added parameter `insert.link.page.number`.  
Modified: fo/param.ent,1.98; fo/param.xweb,1.111 - Robert Stayton
- Implemented feature request #942524 to add `insert.link.page.number` to allow link element cross references to have a page number.  
Modified: fo/xref.xsl,1.67 - Robert Stayton
- Add support for `ulink.hyphenate.chars` so more characters can be break points in urls.  
Modified: fo/xref.xsl,1.66 - Robert Stayton
- Implemented patch #1075144 to make the url text in a `ulink` in FO output an active link as well.  
Modified: fo/xref.xsl,1.65 - Robert Stayton
- `table` footnotes now have their own `table.footnote.properties` attribute set.  
Modified: fo/footnote.xsl,1.23 - Robert Stayton
- Add `qandaset` to `root.elements`.  
Modified: fo/docbook.xsl,1.41 - Robert Stayton
- Added `mode="page.sequence"` to make it easier to put content into a page sequence. First used for `qandaset`.  
Modified: fo/component.xsl,1.37 - Robert Stayton
- Implemented feature request #1434408 to support formatting of `biblioentry`.  
Modified: fo/biblio.xsl,1.35 - Robert Stayton
- Added `biblioentry.properties`.  
Modified: fo/param.ent,1.97; fo/param.xweb,1.110 - Robert Stayton
- Support PTC/Arbortext bookmarks  
Modified: fo/docbook.xsl,1.40; fo/ptc.xsl,1.1 - Norman Walsh
- Added `table.footnote.properties` to permit `table` footnotes to format differently from regular footnotes.  
Modified: fo/param.ent,1.96; fo/param.xweb,1.109 - Robert Stayton
- Refactored `table` templates to unify their processing and support all options in all types. Now `table` and `informaltable`, in both Cals and Html markup, use the same templates where possible, and all support `pgwide`, rotation, and floats. There is also a placeholder `table.container` template to support wrapping a `table` in a layout `table`, so the XEP `table` title "continued" extension can be more easily implemented.  
Modified: fo/formal.xsl,1.52; fo/htmltbl.xsl,1.9; fo/table.xsl,1.48 - Robert Stayton
- Added new attribute set `toc.line.properties` for controlling appearance of lines in ToC/LoT  
Modified: fo/autotoc.xsl,1.29; fo/param.ent,1.95; fo/param.xweb,1.108 - Jirka Kosek
- Added support for float to `example` and `equation`. Added support for `pgwide` to `figure`, `example`, and `equation` (the latter two via a `dbfo pgwide="1"` processing instruction).  
Modified: fo/formal.xsl,1.51 - Robert Stayton
- Add `pgwide.properties` attribute-set.  
Modified: fo/param.ent,1.94; fo/param.xweb,1.107 - Robert Stayton
- Added `refclass.suppress` param.  
If the value of `refclass.suppress` is non-zero, then display `refclass` contents is suppressed in output. Affects HTML and FO output only.  
Modified: fo/param.ent,1.93; fo/param.xweb,1.106; html/param.ent,1.90; html/param.xweb,1.99; params/refclass.suppress.xml,1.1 - Michael(tm) Smith



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- Improved support for `task` subelements  
Modified: `fo/task.xsl`,1.3; `html/task.xsl`,1.3 - Jirka Kosek
  - Adjusted spacing around K&R-formatted `Funcdef` and `Paramdef` output such that it can more easily be discerned where one ends and the other begins. Closes #1213264.  
Modified: `fo/synop.xsl`,1.18 - Michael(tm) Smith
  - Made handling of `paramdef/parameter` in FO output consistent with that in HTML and manpages output. Closes #1213259.  
Modified: `fo/synop.xsl`,1.17 - Michael(tm) Smith
  - Made handling of `Refnamediv` consistent with formatting in HTML and manpages output; specifically, changed so that `Re-fname` (comma-separated list of multiple instances found) is used (instead of `Refentrytitle` as previously), then em-dash, then the `Refpurpose`. Closes #1212562.  
Modified: `fo/refentry.xsl`,1.30 - Michael(tm) Smith
  - Added output of `Releaseinfo` to recto titlepage ("copyright" page) for `Book` in FO output. This makes it consistent with HTML output. Closes #1327034. Thanks to Paul DuBois for reporting.  
Modified: `fo/titlepage.templates.xml`,1.28 - Michael(tm) Smith
  - Added condition for setting `block-progression-dimension.minimum` on `table-row`, instead of `height`, when `fop1.extensions` is non-zero. For an explanation of the reason for the change, see: <http://wiki.apache.org/xmlgraphics-fop/Troubleshooting/CommonL>  
Modified: `fo/pagesetup.xsl`,1.59 - Michael(tm) Smith
  - Added new `refclass.suppress` param for suppressing display of `Refclass` in HTML and FO output. Did not add it to manpages because manpages stylesheet is currently just silently ignoring `Refclass` anyway. Closes request #1461065. Thanks to Davor Ocelic (docelic) for reporting.  
Modified: `fo/refentry.xsl`,1.29; `html/refentry.xsl`,1.23 - Michael(tm) Smith
  - Add support for keep-together PI to informal objects.  
Modified: `fo/formal.xsl`,1.50 - Robert Stayton
  - Add support for `fop1.extensions`.  
Modified: `fo/formal.xsl`,1.49; `fo/graphics.xsl`,1.44; `fo/table.xsl`,1.47 - Robert Stayton
  - Add support for `fop1` bookmarks.  
Modified: `fo/docbook.xsl`,1.39 - Robert Stayton
  - Add `fop1.extensions` parameter to add support for fop development version.  
Modified: `fo/param.ent`,1.92; `fo/param.xweb`,1.105 - Robert Stayton
  - Start supporting fop development version, which will become fop version 1.  
Modified: `fo/fop1.xsl`,1.1 - Robert Stayton
  - Add template for `task` in `mode="xref-to"`.  
Modified: `fo/xref.xsl`,1.63; `html/xref.xsl`,1.57 - Robert Stayton
  - `table` footnotes now also get `footnote.properties` attribute-set.  
Modified: `fo/footnote.xsl`,1.22 - Robert Stayton
  - Added `index.separator` named template to compute the separator punctuation based on locale.  
Modified: `fo/autoidx.xsl`,1.36 - Robert Stayton
  - Added support for `link`, `olink`, and `xref` within OO `Classsynopsis` and children. (Because DocBook NG/5 allows it).  
Modified: `fo/synop.xsl`,1.15; `html/synop.xsl`,1.19 - Michael(tm) Smith
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- Support `date` as an inline  
Modified: `fo/inline.xsl,1.43`; `html/inline.xsl,1.46` - Norman Walsh
- Added new parameter `keep.relative.image.uris`  
Modified: `fo/param.ent,1.91`; `fo/param.xweb,1.104`; `html/param.ent,1.87`; `html/param.xweb,1.96`; `params/keep.relative.image.uris.xml`  
- Norman Walsh
- Map Unicode space characters U+2000-U+200A to `fo:leaders`.  
Modified: `fo/docbook.xsl,1.38`; `fo/passivetex.xsl,1.4`; `fo/spaces.xsl,1.1` - Jirka Kosek
- Output a real em dash for em-dash dingbat (instead of two hypens).  
Modified: `fo/fo.xsl,1.7` - Michael(tm) Smith
- Support default `label` width parameters for itemized and ordered lists  
Modified: `fo/lists.xsl,1.64`; `fo/param.ent,1.90`; `fo/param.xweb,1.103`; `params/itemizedlist.label.width.xml,1.1`; `params/orderedlist.label`  
- Norman Walsh
- Generate localized `title` for `Refsynopsisdiv` if no appropriate `Title` descendant found in source. Closes #1212398.  
This change makes behavior for the `Synopsis` title consistent with the behavior of HTML and manpages output.  
Also, added `xsl:use-attribute-sets="normal para.spacing"` to block generated for `Cmdsynopsis` output. Previously, that block had no spacing at all specified, which resulted it being crammed up to closely to the `Synopsis` head.  
Modified: `fo/refentry.xsl,1.28`; `fo/synop.xsl,1.13` - Michael(tm) Smith
- Added parameters to support localization of `index` item punctuation.  
Modified: `fo/autoidx.xsl,1.35` - Robert Stayton
- Added `index.number.separator`, `index.range.separator`, and `index.term.separator` parameters to support localization of punctuation in `index` entries.  
Modified: `fo/param.ent,1.89`; `fo/param.xweb,1.102` - Robert Stayton
- Added "Cross References" section in HTML doc (for consistency with the FO doc). Also, moved the existing FO "Cross References" section to follow the "Linking" section.  
Modified: `fo/param.xweb,1.101`; `html/param.xweb,1.95` - Michael(tm) Smith
- Added ID attributes to all `Reference` elements (e.g., `id="tables"` for the doc for section on `Table` params). So pages for all subsections of ref docs now have stable filenames instead of arbitrary generated filenames.  
Modified: `fo/param.xweb,1.100`; `html/param.xweb,1.94` - Michael(tm) Smith
- Added two new parameters for handling of multi-term `varlistentry` elements:  
`variablelist.term.break.after`: When the `variablelist.term.break.after` is non-zero, it will generate a line break after each term multi-term `varlistentry`.  
`variablelist.term.separator`: When a `varlistentry` contains multiple term elements, the string specified in the value of the `variablelist.term.separator` parameter is placed after each term except the last. The default is `" "` (a comma followed by a space). To suppress rendering of the separator, set the value of `variablelist.term.separator` to the empty string (`""`).  
These parameters are primarily intended to be useful if you have multi-term `varlistentries` that have long terms.  
Closes #1306676. Thanks to Sam Steingold for providing an example "lots of long terms" doc that demonstrated the value of having these options.  
Also, added `normalize-space()` call to processing of each `term`.  
This change affects all output formats (HTML, PDF, manpages). The default behavior should pretty much remain the same as before, but it is possible (as always) that the change may introduce some new bugginess.  
Modified: `fo/lists.xsl,1.62`; `fo/param.ent,1.88`; `fo/param.xweb,1.99`; `html/lists.xsl,1.48`; `html/param.ent,1.86`; `html/param.xweb,1.93`; `manpages/lists.xsl,1.22`; `manpages/param.ent,1.14`; `manpages/param.xweb,1.16`; `params/variablelist.term.break.after.xml,1.1`; `params/variablelist.term.separator.xml,1.1` - Michael(tm) Smith

- Add `sidebar` titlepage placeholder attset for styles.

Modified: `fo/titlepage.xml`, 1.37 - Robert Stayton

- Add titlepage for `sidebar`.

Modified: `fo/titlepage.templates.xml`, 1.27 - Robert Stayton

- Implemented RFE #1292615.

Added bunch of new parameters (attribute sets) that affect list presentation: `list.block.properties`, `itemizedlist.properties`, `orderedlist.properties`, `itemizedlist.label.properties` and `orderedlist.label.properties`. Default behaviour of stylesheets has not been changed but further customizations will be much more easier.

Modified: `fo/lists.xml`, 1.61; `fo/param.ent`, 1.87; `fo/param.xweb`, 1.98; `params/itemizedlist.label.properties.xml`, 1.1; `params/itemizedlist.properties.xml`, 1.1; `params/list.block.properties.xml`, 1.1; `params/orderedlist.label.properties.xml`, 1.1; `params/orderedlist.properties.xml`, 1.1 - Jirka Kosek

- Implemented RFE #1242092.

You can enable crop marks in your document by setting `crop.marks=1` and `xep.extensions=1`. Appearance of crop marks can be controlled by parameters `crop.mark.bleed` (6pt), `crop.mark.offset` (24pt) and `crop.mark.width` (0.5pt).

Also there is new named template called `user-xep-pis`. You can overwrite it in order to produce some PIs that can control XEP as described in [http://www.renderx.com/reference.html#Output\\_Formats](http://www.renderx.com/reference.html#Output_Formats)

Modified: `fo/docbook.xml`, 1.36; `fo/param.ent`, 1.86; `fo/param.xweb`, 1.97; `fo/xep.xml`, 1.23; `params/crop.mark.bleed.xml`, 1.1; `params/crop.mark.offset.xml`, 1.1; `params/crop.mark.width.xml`, 1.1; `params/crop.marks.xml`, 1.1 - Jirka Kosek

## 6.4 HTML

The following changes have been made to the `html` code since the 1.69.1 release.

- implemented `index.method` parameter and three methods.

Modified: `html/autoidx.xml`, 1.28 - Robert Stayton

- added `index.method` parameter to support 3 indexing methods.

Modified: `html/param.ent`, 1.94; `html/param.xweb`, 1.103 - Robert Stayton

- Implemented feature request #1072510 as a processing instruction to permit including external HTML content into HTML output.

Modified: `html/pi.xml`, 1.9 - Robert Stayton

- Added new parameter `chunk.tocs.and.lots.has.title` which controls presence of `title` in a separate chunk with ToC/LoT. Disabling `title` can be very useful if you are generating frameset output (well, yes those frames, but some customers really want them ;-).

Modified: `html/chunk-code.xml`, 1.15; `html/param.ent`, 1.93; `html/param.xweb`, 1.102; `params/chunk.tocs.and.lots.has.title.xml`, 1.1 - Jirka Kosek

- Support `dbhtml/dbfo` start PI for `orderedlist` numbering in both HTML and FO

Modified: `common/common.xml`, 1.61; `html/lists.xml`, 1.50 - Norman Walsh

- Allow ToC without `title` also for `set` and `book`.

Modified: `html/autotoc.xml`, 1.37; `html/division.xml`, 1.12 - Jirka Kosek

- Implemented floats uniformly for `figure`, `example`, `equation` and `informalfigure`, `informalexample`, and `informalequation`.

Modified: `html/formal.xml`, 1.22 - Robert Stayton

- Added the `autotoc.label.in.hyperlink` param.

If the value of `autotoc.label.in.hyperlink` is non-zero, labels are included in hyperlinked titles in the TOC. If it is instead zero, labels are still displayed prior to the hyperlinked titles, but are not hyperlinked along with the titles.

Closes patch #1065868. Thanks to anatoly techtonik for the patch.

Modified: `html/autotoc.xsl,1.36`; `html/param.ent,1.92`; `html/param.xweb,1.101`; `params/autotoc.label.in.hyperlink.xml,1.1` - Michael(tm) Smith

- Added two new params: `html.head.legalnotice.link.types` and `html.head.legalnotice.link.multiple`.

If the value of the `generate.legalnotice.link` is non-zero, then the stylesheet generates (in the head section of the HTML source) either a single HTML link element or, if the value of the `html.head.legalnotice.link.multiple` is non-zero, one link element for each link type specified. Each link has the following attributes:

- a `rel` attribute whose value is derived from the value of `html.head.legalnotice.link.types`
- an `href` attribute whose value is set to the URL of the file containing the `legalnotice`
- a `title` attribute whose value is set to the title of the corresponding `legalnotice` (or a title programatically determined by the stylesheet)

For example:

```
<link rel="copyright" href="ln-id2524073.html" title="Legal Notice">
```

Closes #1476450. Thanks to Sam Steingold.

Modified: `html/chunk-common.xsl,1.45`; `html/param.ent,1.91`; `html/param.xweb,1.100`; `params/generate.legalnotice.link.xml,1.4`; `params/html.head.legalnotice.link.multiple.xml,1.1`; `params/html.head.legalnotice.link.types.xml,1.1` - Michael(tm) Smith

- Added `refclass.suppress` param.

If the value of `refclass.suppress` is non-zero, then display `refclass` contents is suppressed in output. Affects HTML and FO output only.

Modified: `fo/param.ent,1.93`; `fo/param.xweb,1.106`; `html/param.ent,1.90`; `html/param.xweb,1.99`; `params/refclass.suppress.xml,1.1` - Michael(tm) Smith

- Improved support for `task` subelements

Modified: `fo/task.xsl,1.3`; `html/task.xsl,1.3` - Jirka Kosek

- Added new `refclass.suppress` param for suppressing display of `Refclass` in HTML and FO output. Did not add it to manpages because manpages stylesheet is currently just silently ignoring `Refclass` anyway. Closes request #1461065. Thanks to Davor Ocelic (docelic) for reporting.

Modified: `fo/refentry.xsl,1.29`; `html/refentry.xsl,1.23` - Michael(tm) Smith

- Process `alt` text with `normalize-space()`. Replace tab indents with spaces.

Modified: `html/graphics.xsl,1.57` - Robert Stayton

- Content of `citation` element is automatically linked to the bibliographic entry with the corresponding `abbrev`.

Modified: `html/biblio.xsl,1.26`; `html/inline.xsl,1.47`; `html/xref.xsl,1.58` - Jirka Kosek

- Add template for `task` in `mode="xref-to"`.

Modified: `fo/xref.xsl,1.63`; `html/xref.xsl,1.57` - Robert Stayton

- Suppress ID warnings if the `.warnings` parameter is 0

Modified: `html/html.xsl,1.17` - Norman Walsh

- Add support for `floatstyle` to `figure`.

Modified: `html/formal.xsl,1.21` - Robert Stayton

- Handling of `xref` to `area/areaset` need support in extensions code also. I currently have no time to touch extensions code, so code is here to be enabled when extension is fixed also.

Modified: `html/xref.xsl,1.56` - Jirka Kosek

- Added 3 parameters for overriding gentext for `index` punctuation.

Modified: `html/param.ent`,1.89; `html/param.xweb`,1.98 - Robert Stayton

- Added parameters to support localization of `index` item punctuation. Added `index.separator` named template to compute the separator punctuation based on locale.

Modified: `html/autoidx.xsl`,1.27 - Robert Stayton

- Added a `<div class="{ $class }-contents">` wrapper around output of contents of all formal objects. Also, added an optional `<br class="{ $class }-break"/>` linebreak after all formal objects.

WARNING: Because this change places an additional DIV between the DIV wrapper for the `equation` and the `equation` contents, it may break some existing CSS stylesheets that have been created with the assumption that there would never be an intervening DIV there.

The following is an example of what `Equation` output looks like as a result of the changes described above.

```
<div class="equation"> <a name="three" id="three"></a>
```

```
<p class="title"><b>(1.3)</b></p>
```

```
<div class="equation-contents"> <span class="mathphrase">1+1=3</span> </div> </div><br class="equation-break">
```

Rationale: These changes allow CSS control of the placement of the formal-object `title` relative to the formal-object contents. For example, using the CSS "float" property enables the `title` and contents to be rendered on the same line. Example stylesheet:

```
.equation { margin-top: 20px; margin-bottom: 20px; } .equation-contents { float: left; }
```

```
.equation .title { margin-top: 0; float: right; margin-right: 200px; }
```

```
.equation .title b { font-weight: normal; }
```

```
.equation-break { clear: both; }
```

Note that the purpose of the ".equation-break" class is to provide a way to clear off the floats.

If you want to instead have the `equation title` rendered to the left of the `equation` contents, you can do something like this:

```
.equation { margin-top: 20px; width: 300px; margin-bottom: 20px; } .equation-contents { float: right; }
```

```
.equation .title { margin-top: 0; float: left; margin-right: 200px; }
```

```
.equation .title b { font-weight: normal; }
```

```
.equation-break { clear: both; }
```

Modified: `html/formal.xsl`,1.20 - Michael(tm) Smith

- Added a `chunker.output.quiet` top-level parameter so that the chunker can be made quiet by default

Modified: `html/chunker.xsl`,1.26 - Norman Walsh

- Added support for `link`, `olink`, and `xref` within `OO Classsynopsis` and children. (Because DocBook NG/5 allows it).

Modified: `fo/synop.xsl`,1.15; `html/synop.xsl`,1.19 - Michael(tm) Smith

- New parameter: `id.warnings`. If non-zero, warnings are generated for titled objects that don't have titles. True by default; I wonder if this will be too aggressive?

Modified: `html/biblio.xsl`,1.25; `html/component.xsl`,1.27; `html/division.xsl`,1.11; `html/formal.xsl`,1.19; `html/glossary.xsl`,1.20; `html/html.xsl`,1.13; `html/index.xsl`,1.16; `html/param.ent`,1.88; `html/param.xweb`,1.97; `html/refentry.xsl`,1.22; `html/sections.xsl`,1.30; `params/id.warnings.xml`,1.1 - Norman Walsh

- If the `keep.relative.image.uris` parameter is true, don't use the absolute URI (as calculated from `xml:base`) in the `img src` attribute, use the value the author specified. Note that we still have to calculate the absolute `filename` for use in the `image intrinsics` extension.

Modified: `html/graphics.xsl`,1.56 - Norman Walsh

- Support `date` as an inline

Modified: `fo/inline.xsl`,1.43; `html/inline.xsl`,1.46 - Norman Walsh

- Added new parameter *keep.relative.image.uris*

Modified: fo/param.ent,1.91; fo/param.xweb,1.104; html/param.ent,1.87; html/param.xweb,1.96; params/keep.relative.image.uris.xml  
- Norman Walsh

- Added two new parameters for handling of multi-term *varlistentry* elements:

*variablelist.term.break.after*: When the *variablelist.term.break.after* is non-zero, it will generate a line break after each *term* multi-term *varlistentry*.

*variablelist.term.separator*: When a *varlistentry* contains multiple *term* elements, the string specified in the value of the *variablelist.term.separator* parameter is placed after each *term* except the last. The default is ", " (a comma followed by a space). To suppress rendering of the separator, set the value of *variablelist.term.separator* to the empty string ("").

These parameters are primarily intended to be useful if you have multi-term *varlistentries* that have long terms.

Closes #1306676. Thanks to Sam Steingold for providing an example "lots of long terms" doc that demonstrated the value of having these options.

Also, added *normalize-space()* call to processing of each *term*.

This change affects all output formats (HTML, PDF, manpages). The default behavior should pretty much remain the same as before, but it is possible (as always) that the change may introduce some new bugginess.

Modified: fo/lists.xml,1.62; fo/param.ent,1.88; fo/param.xweb,1.99; html/lists.xml,1.48; html/param.ent,1.86; html/param.xweb,1.93; manpages/lists.xml,1.22; manpages/param.ent,1.14; manpages/param.xweb,1.16; params/variablelist.term.break.after.xml,1.1; params/variablelist.term.separator.xml,1.1 - Michael(tm) Smith

- Added "wrapper-name" param to *inline.charseq* named template, enabling it to output inlines other than just "span". *Acronym* and *Abbrev* templates now use *inline.charseq* to output HTML "acronym" and "abbr" elements (instead of "span"). Closes #1305468. Thanks to Sam Steingold for suggesting the change.

Modified: html/inline.xml,1.45 - Michael(tm) Smith

## 6.5 Manpages

The following changes have been made to the *manpages* code since the 1.69.1 release.

- Added the following params:

- *man.indent.width* (string-valued) - *man.indent.refsect* (boolean) - *man.indent.blurbs* (boolean) - *man.indent.lists* (boolean) - *man.indent.verbatims* (boolean)

Note that in earlier snapshots, *man.indent.width* was named *man.indentation.default.value* and the boolean params had names like *man.indentation.\*.adjust*. Also the *man.indent.blurbs* param was called *man.indentation.authors.adjust* (or something).

The behavior now is: If the value of a particular *man.indent.\** boolean param is non-zero, the corresponding contents (*refsect\**, list items, *authorblurb/personblurb*, *vervatims*) are displayed with a left margin indented by a width equal to the value of *man.indent.width*.

Modified: params/man.indent.blurbs.xml,1.1; manpages/docbook.xml,1.74; manpages/info.xml,1.20; manpages/lists.xml,1.30; manpages/other.xml,1.20; manpages/param.ent,1.22; manpages/param.xweb,1.24; manpages/refentry.xml,1.14; params/man.indent.lists; params/man.indent.refsect.xml,1.1; params/man.indent.verbatims.xml,1.1; params/man.indent.width.xml,1.1 - Michael(tm) Smith

- Added *man.table.footnotes.divider* param.

In each *table* that contains footnotes, the string specified by the *man.table.footnotes.divider* parameter is output before the list of footnotes for the *table*.

Modified: manpages/docbook.xml,1.73; manpages/links.xml,1.6; manpages/param.ent,1.21; manpages/param.xweb,1.23; param-s/man.table.footnotes.divider.xml,1.1 - Michael(tm) Smith

- Added the *man.output.in.separate.dir*, *man.output.base.dir*, and *man.output.subdirs.enabled* parameters.

The *man.output.base.dir* parameter specifies the base directory into which man-page files are output. The *man.output.subdirs.enabled* parameter controls whether the files are output in subdirectories within the base directory.

The values of the `man.output.base.dir` and `man.output.subdirs.enabled` parameters are used only if the value of `man.output.in.separate` parameter is non-zero. If the value of `man.output.in.separate.dir` is zero, man-page files are not output in a separate directory.

Modified: `manpages/docbook.xml`, 1.72; `manpages/param.ent`, 1.20; `manpages/param.xweb`, 1.22; `params/man.output.base.dir.xml`, 1.1; `params/man.output.in.separate.dir.xml`, 1.1; `params/man.output.subdirs.enabled.xml`, 1.1 - Michael(tm) Smith

- Added `man.font.table.headings` and `man.font.table.title` params, for controlling font in `table` headings and titles.

Modified: `manpages/docbook.xml`, 1.71; `manpages/param.ent`, 1.19; `manpages/param.xweb`, 1.21; `params/man.font.table.headings.xml`, `params/man.font.table.title.xml`, 1.1 - Michael(tm) Smith

- Added `man.font.funcsynopsisinfo` and `man.font.funcprototype` params, for specifying the roff font (for example, BI, B, I) for `funcsynopsisinfo` and `funcprototype` output.

Modified: `manpages/block.xml`, 1.19; `manpages/docbook.xml`, 1.69; `manpages/param.ent`, 1.18; `manpages/param.xweb`, 1.20; `manpages/synop.xml`, 1.29; `manpages/table.xml`, 1.21; `params/man.font.funcprototype.xml`, 1.1; `params/man.font.funcsynopsisinfo.xml`, 1.1 - Michael(tm) Smith

- Added `man.segtitle.suppress` param.

If the value of `man.segtitle.suppress` is non-zero, then display of `segtitle` contents is suppressed in output.

Modified: `manpages/docbook.xml`, 1.68; `manpages/param.ent`, 1.17; `manpages/param.xweb`, 1.19; `params/man.segtitle.suppress.xml`, 1.1 - Michael(tm) Smith

- Added `man.output.manifest.enabled` and `man.output.manifest.filename` params.

If `man.output.manifest.enabled` is non-zero, a list of filenames for man pages generated by the stylesheet transformation is written to the file named by `man.output.manifest.filename`

Modified: `manpages/docbook.xml`, 1.67; `manpages/other.xml`, 1.19; `manpages/param.ent`, 1.16; `manpages/param.xweb`, 1.18; `params/man.output.manifest.enabled.xml`, 1.1; `params/man.output.manifest.filename.xml`, 1.1; `tools/make/Makefile.DocBook`, 1.4 - Michael(tm) Smith

- Added `refentry.meta.get.quietly` param.

If zero (the default), notes and warnings about "missing" markup are generated during gathering of `refentry` metadata. If non-zero, the metadata is gathered "quietly" -- that is, the notes and warnings are suppressed.

NOTE: If you are processing a large amount of `refentry` content, you may be able to speed up processing significantly by setting a non-zero value for `refentry.meta.get.quietly`.

Modified: `common/refentry.xml`, 1.17; `manpages/param.ent`, 1.15; `manpages/param.xweb`, 1.17; `params/refentry.meta.get.quietly.xml`, 1.1 - Michael(tm) Smith

- Changed names of all boolean indentation params to `man.indent.*`. Also discarded individual `man.indent.*.value` params and switched to just using a common `man.indent.width` param (3n by default).

Modified: `manpages/docbook.xml`, 1.66; `manpages/info.xml`, 1.19; `manpages/lists.xml`, 1.29; `manpages/other.xml`, 1.18; `manpages/refentry.xml`, 1.13 - Michael(tm) Smith

- Added boolean `man.output.in.separate.dir` param, to control whether or not man files are output in separate directory.

Modified: `manpages/docbook.xml`, 1.65; `manpages/utility.xml`, 1.14 - Michael(tm) Smith

- Added options for controlling indentation of verbatim output. Controlled through the `man.indentation.verbatims.adjust` and `man.indentation.verbatims.value` params. Closes #1242997

Modified: `manpages/block.xml`, 1.15; `manpages/docbook.xml`, 1.64 - Michael(tm) Smith

- Added options for controlling indentation in lists and in `*blurb` output in the `AUTHORS` section. Controlled through the `man.indentation.lists.adjust`, `man.indentation.lists.value`, `man.indentation.authors.adjust`, and `man.indentation.authors.value` parameters. Default is 3 characters (instead of the roff default of 8 characters). Closes #1449369.

Also, removed the indent that was being set on `informalexample` output. I will instead add an option for indenting verbatims, which I think is what the `informalexample` indent was intended for originally.

Modified: `manpages/block.xml`, 1.14; `manpages/docbook.xml`, 1.63; `manpages/info.xml`, 1.18; `manpages/lists.xml`, 1.28 - Michael(tm) Smith

- Changed line-spacing call before `synopfragment` to use ".sp -1n" ("n" units specified) instead of plain ".sp -1"

Modified: `manpages/synop.xml`,1.28 - Michael(tm) Smith

- Added support for writing man files into a specific output directory and into appropriate subdirectories within that output directory. Controlled through the `man.base.dir` parameter (similar to the `base.dir` support in the HTML stylesheet) and the `man.subdirs.enabled` parameter, which automatically determines the name of an appropriate subdir (for example, `man/man7`, `man/man1`, etc.) based on the `section` number/`manvolnum` of the source `Refentry`.

Closes #1255036 and #1170317. Thanks to Denis Bradford for the original feature request, and to Costin Stroie for submitting a patch that was very helpful in implementing the support.

Modified: `manpages/docbook.xml`,1.62; `manpages/utility.xml`,1.13 - Michael(tm) Smith

- Refined XPath statements and notification messages for `refentry` metadata handling.

Modified: `common/common.xml`,1.59; `common/refentry.xml`,1.14; `manpages/docbook.xml`,1.61; `manpages/other.xml`,1.17 - Michael(tm) Smith

- Added support for `copyright` and `legalnotice`. The manpages stylesheets now output a `COPYRIGHT` section, after the `AUTHORS` section, if a `copyright` or `legalnotice` is found in the source. The section contains the `copyright` contents followed by the `legalnotice` contents. Closes #1450209.

Modified: `manpages/docbook.xml`,1.59; `manpages/info.xml`,1.17 - Michael(tm) Smith

- Drastically reworked all of the XPath expressions used in `refentry` metadata gathering -- completely removed `$parentinfo` and turned `$info` into a set of nodes that includes the `*info` contents of the `Refentry` plus the `*info` contents all all of its ancestor elements. The basic XPath expression now used throughout is (using the example of checking for a date):

```
((($info[//date])[last()]/date)[1].
```

That selects the "last" `*info/date` `date` in document order -- that is, the one either on the `Refentry` itself or on the closest ancestor to the `Refentry`.

It's likely this change may break some things; may need to pick up some pieces later.

Also, changed the default value for the `man.th.extra2.max.length` from 40 to 30.

Modified: `common/common.xml`,1.58; `common/refentry.xml`,1.7; `params/man.th.extra2.max.length.xml`,1.2; `params/refentry.date.profile.xml`,1.2; `params/refentry.manual.profile.xml`,1.2; `params/refentry.source.name.profile.xml`,1.2; `params/refentry.version.profile.xml`,1.2; `manpages/docbook.xml`,1.58; `manpages/other.xml`,1.15 - Michael(tm) Smith

- Added support for DocBook 5 namespace-stripping in manpages stylesheet. Closes request #1210692.

Modified: `common/common.xml`,1.56; `manpages/docbook.xml`,1.57 - Michael(tm) Smith

- Fixed handling of `table` footnotes. With this checkin, the `table` support in the manpages stylesheet is now basically feature complete. So this change closes request #619532, "No support for tables" -- the oldest currently open manpages feature request, submitted by Ben Secrest (blsecres) on 2002-10-07. Congratulations to me [patting myself on the back].

Modified: `manpages/block.xml`,1.11; `manpages/docbook.xml`,1.55; `manpages/table.xml`,1.15 - Michael(tm) Smith

- Added handling for `table` titles. Also fixed handling of nested tables; nest tables are now "extracted" and displayed just after their parent tables.

Modified: `manpages/docbook.xml`,1.54; `manpages/table.xml`,1.14 - Michael(tm) Smith

- Added option for turning off bold formatting in `Funcsynopsis`. Boldface formatting in `function synopsis` is mandated in the `man(7)` man page and is used almost universally in existing man pages. Despite that, it really does look like crap to have an entire `Funcsynopsis` output in bold, so I added params for turning off the bold formatting and/or replacing it with a different roff special font (e.g., "RI" for alternating roman/italic instead of the default "BI" for alternating bold/italic). The new params are "man.funcprototype.font" and "man.funcsynopsisinfo.font". To be documented later.

Closes #1452247. Thanks to Joe Orton for the feature request.

Modified: `params/man.string.subst.map.xml`,1.16; `manpages/block.xml`,1.10; `manpages/docbook.xml`,1.51; `manpages/inline.xml`,1.16; `manpages/synop.xml`,1.27 - Michael(tm) Smith



- Use `AUTHORS` instead of `AUTHOR` if we have multiple people to attribute. Also, fixed checking such that we generate an `author` section even if we don't have an `author` (as long as there is at least one other person/entity we can put in the section). Also adjusted assembly of content for `Author` metainfo field such that we now not only use `author`, but try to find a "best match" if we can't find an `author` name to put there.

Closes #1233592. Thanks to Sam Steingold for the request.

Modified: `manpages/info.xml`, 1.12 - Michael(tm) Smith

- Changes for request #1243027, "Improve handling of `AUTHOR` section." This adds support for `Collab`, `Corpauthor`, `Corppcred`, `Orgname`, `Publishername`, and `Publisher`. Also adds support for output of `Affiliation` and its children, and support for using gentext strings for auto-attributing roles (`Author`, `Editor`, `Publisher`, `Translator`, etc.). Also did a lot of code cleanup and modularization of all the `AUTHOR` handling code. And fixed a bug that was causing `Author` info to not be picked up correctly for metainfo comment we embed in man-page source.

Modified: `manpages/info.xml`, 1.11 - Michael(tm) Smith

- Support bold output for "`emphasis` `remap='B'`". (because Eric Raymond's `doclifter(1)` tool converts groff source marked up with ".B" request or "\fB" escapes to DocBook "`emphasis` `remap='B'`".)

Modified: `manpages/inline.xml`, 1.14 - Michael(tm) Smith

- Added support for `Segmentedlist`. Details: Output is tabular, with no option for "list" type output. Output for `Segtitle` elements can be suppressed by setting `man.segtitle.suppress`. If `Segtitle` content is output, it is rendered in italic type (not bold because not all terminals support bold and so italic ensures the stand out on those terminals). Extra space (.sp line) at end of `table` code ensures that it gets handled correctly in the case where its source is the child of a `Para`. Closes feature-request #1400097. Thanks to Daniel Leidert for the patch and push, and to Alastair Rankine for filing the original feature request.

Modified: `manpages/lists.xml`, 1.23; `manpages/utility.xml`, 1.10 - Michael(tm) Smith

- Improved handling of `Author`/`Editor`/`Othercredit`.

Reworked content of (non-visible) comment added at top of each page (metadata stuff).

Added support for generating a *manifest* file (useful for cleaning up after builds, etc.)

Modified: `manpages/docbook.xml`, 1.46; `manpages/info.xml`, 1.9; `manpages/other.xml`, 1.12; `manpages/utility.xml`, 1.6 - Michael(tm) Smith

- Added two new parameters for handling of multi-term `varlistentry` elements:

`variablelist.term.break.after`: When the `variablelist.term.break.after` is non-zero, it will generate a line break after each term multi-term `varlistentry`.

`variablelist.term.separator`: When a `varlistentry` contains multiple term elements, the string specified in the value of the `variablelist.term.separator` parameter is placed after each term except the last. The default is ", " (a comma followed by a space). To suppress rendering of the separator, set the value of `variablelist.term.separator` to the empty string ("").

These parameters are primarily intended to be useful if you have multi-term `varlistentries` that have long terms.

Closes #1306676. Thanks to Sam Steingold for providing an example "lots of long terms" doc that demonstrated the value of having these options.

Also, added `normalize-space()` call to processing of each term.

This change affects all output formats (HTML, PDF, manpages). The default behavior should pretty much remain the same as before, but it is possible (as always) that the change may introduce some new bugginess.

Modified: `fo/lists.xml`, 1.62; `fo/param.ent`, 1.88; `fo/param.xweb`, 1.99; `html/lists.xml`, 1.48; `html/param.ent`, 1.86; `html/param.xweb`, 1.93; `manpages/lists.xml`, 1.22; `manpages/param.ent`, 1.14; `manpages/param.xweb`, 1.16; `params/variablelist.term.break.after.xml`, 1.1; `params/variablelist.term.separator.xml`, 1.1 - Michael(tm) Smith

## 6.6 Params

The following changes have been made to the `params` code since the 1.69.1 release.

- New parameters to set header/footer `table` minimum height.  
Modified: `params/footer.table.height.xml,1.1`; `params/header.table.height.xml,1.1` - Robert Stayton
- Support multiple indexing methods for different languages.  
Modified: `params/index.method.xml,1.1` - Robert Stayton
- Remove `qandaset` and `qandadiv` from `generate.toc` for fo output because formerly it wasn't working, but now it is and the default behavior should stay the same.  
Modified: `params/generate.toc.xml,1.8` - Robert Stayton
- add support for page number references to `link` element too.  
Modified: `params/insert.link.page.number.xml,1.1` - Robert Stayton
- Add support for more characters to hyphen on when `ulink.hyphenate` is turned on.  
Modified: `params/ulink.hyphenate.chars.xml,1.1`; `params/ulink.hyphenate.xml,1.3` - Robert Stayton
- New attribute-set to format `biblioentry` and `bibliomixed`.  
Modified: `params/biblioentry.properties.xml,1.1` - Robert Stayton
- Added new parameter `chunk.tocs.and.lots.has.title` which controls presence of `title` in a separate chunk with ToC/LoT. Disabling `title` can be very useful if you are generating frameset output (well, yes those frames, but some customers really want them ;-).  
Modified: `html/chunk-code.xsl,1.15`; `html/param.ent,1.93`; `html/param.xweb,1.102`; `params/chunk.tocs.and.lots.has.title.xml,1.1` - Jirka Kosek
- Added new attribute set `toc.line.properties` for controlling appearance of lines in ToC/LoT  
Modified: `params/toc.line.properties.xml,1.1` - Jirka Kosek
- Allow `table` footnotes to have different properties from regular footnotes.  
Modified: `params/table.footnote.properties.xml,1.1` - Robert Stayton
- Set properties for `pgwide="1"` objects.  
Modified: `params/pgwide.properties.xml,1.1` - Robert Stayton
- Added the `autotoc.label.in.hyperlink` param.  
If the value of `autotoc.label.in.hyperlink` is non-zero, labels are included in hyperlinked titles in the TOC. If it is instead zero, labels are still displayed prior to the hyperlinked titles, but are not hyperlinked along with the titles.  
Closes patch #1065868. Thanks to anatoly techtonik for the patch.  
Modified: `html/autotoc.xsl,1.36`; `html/param.ent,1.92`; `html/param.xweb,1.101`; `params/autotoc.label.in.hyperlink.xml,1.1` - Michael(tm) Smith
- Added two new params: `html.head.legalnotice.link.types` and `html.head.legalnotice.link.multiple`.  
If the value of the `generate.legalnotice.link` is non-zero, then the stylesheet generates (in the head section of the HTML source) either a single HTML link element or, if the value of the `html.head.legalnotice.link.multiple` is non-zero, one link element for each link type specified. Each link has the following attributes:
  - a `rel` attribute whose value is derived from the value of `html.head.legalnotice.link.types`
  - an `href` attribute whose value is set to the URL of the file containing the `legalnotice`
  - a `title` attribute whose value is set to the title of the corresponding `legalnotice` (or a title programatically determined by the stylesheet)
 For example:

<link rel="copyright" href="In-id2524073.html" title="Legal Notice">

Closes #1476450. Thanks to Sam Steingold.

Modified: `html/chunk-common.xml`, 1.45; `html/param.ent`, 1.91; `html/param.xweb`, 1.100; `params/generate.legalnotice.link.xml`, 1.4; `params/html.head.legalnotice.link.multiple.xml`, 1.1; `params/html.head.legalnotice.link.types.xml`, 1.1 - Michael(tm) Smith

- Added the following params:

- `man.indent.width` (string-valued) - `man.indent.refsect` (boolean) - `man.indent.blurbs` (boolean) - `man.indent.lists` (boolean) - `man.indent.verbatims` (boolean)

Note that in earlier snapshots, `man.indent.width` was named `man.indentation.default.value` and the boolean params had names like `man.indentation.*.adjust`. Also the `man.indent.blurbs` param was called `man.indentation.authors.adjust` (or something).

The behavior now is: If the value of a particular `man.indent.*` boolean param is non-zero, the corresponding contents (`refsect*`, list items, `authorblurb/personblurb`, `vervatims`) are displayed with a left margin indented by a width equal to the value of `man.indent.width`.

Modified: `params/man.indent.blurbs.xml`, 1.1; `manpages/docbook.xml`, 1.74; `manpages/info.xml`, 1.20; `manpages/lists.xml`, 1.30; `manpages/other.xml`, 1.20; `manpages/param.ent`, 1.22; `manpages/param.xweb`, 1.24; `manpages/refentry.xml`, 1.14; `params/man.indent.lists`; `params/man.indent.refsect.xml`, 1.1; `params/man.indent.verbatims.xml`, 1.1; `params/man.indent.width.xml`, 1.1 - Michael(tm) Smith

- Added `man.table.footnotes.divider` param.

In each `table` that contains footnotes, the string specified by the `man.table.footnotes.divider` parameter is output before the list of footnotes for the `table`.

Modified: `manpages/docbook.xml`, 1.73; `manpages/links.xml`, 1.6; `manpages/param.ent`, 1.21; `manpages/param.xweb`, 1.23; `params/man.table.footnotes.divider.xml`, 1.1 - Michael(tm) Smith

- Added the `man.output.in.separate.dir`, `man.output.base.dir`, and `man.output.subdirs.enabled` parameters.

The `man.output.base.dir` parameter specifies the base directory into which man-page files are output. The `man.output.subdirs.enabled` parameter controls whether the files are output in subdirectories within the base directory.

The values of the `man.output.base.dir` and `man.output.subdirs.enabled` parameters are used only if the value of `man.output.in.separate.dir` parameter is non-zero. If the value of `man.output.in.separate.dir` is zero, man-page files are not output in a separate directory.

Modified: `manpages/docbook.xml`, 1.72; `manpages/param.ent`, 1.20; `manpages/param.xweb`, 1.22; `params/man.output.base.dir.xml`, 1.1; `params/man.output.in.separate.dir.xml`, 1.1; `params/man.output.subdirs.enabled.xml`, 1.1 - Michael(tm) Smith

- Added `man.font.table.headings` and `man.font.table.title` params, for controlling font in `table` headings and titles.

Modified: `manpages/docbook.xml`, 1.71; `manpages/param.ent`, 1.19; `manpages/param.xweb`, 1.21; `params/man.font.table.headings.xml`, 1.1; `params/man.font.table.title.xml`, 1.1 - Michael(tm) Smith

- Added `man.font.funcsynopsisinfo` and `man.font.funcprototype` params, for specifying the roff font (for example, BI, B, I) for `funcsynopsisinfo` and `funcprototype` output.

Modified: `manpages/block.xml`, 1.19; `manpages/docbook.xml`, 1.69; `manpages/param.ent`, 1.18; `manpages/param.xweb`, 1.20; `manpages/synop.xml`, 1.29; `manpages/table.xml`, 1.21; `params/man.font.funcprototype.xml`, 1.1; `params/man.font.funcsynopsisinfo.xml`, 1.1 - Michael(tm) Smith

- Changed to `select="0"` in `refclass.suppress` (instead of `..>0</..`)

Modified: `params/refclass.suppress.xml`, 1.3 - Michael(tm) Smith

- Added `man.segtitle.suppress` param.

If the value of `man.segtitle.suppress` is non-zero, then display of `segtitle` contents is suppressed in output.

Modified: `manpages/docbook.xml`, 1.68; `manpages/param.ent`, 1.17; `manpages/param.xweb`, 1.19; `params/man.segtitle.suppress.xml`, 1.1 - Michael(tm) Smith

- Added `man.output.manifest.enabled` and `man.output.manifest.filename` params.

If `man.output.manifest.enabled` is non-zero, a list of filenames for man pages generated by the stylesheet transformation is written to the file named by `man.output.manifest.filename`

Modified: `manpages/docbook.xml`, 1.67; `manpages/other.xml`, 1.19; `manpages/param.ent`, 1.16; `manpages/param.xweb`, 1.18; `params/man.output.manifest.enabled.xml`, 1.1; `params/man.output.manifest.filename.xml`, 1.1; `tools/make/Makefile.DocBook`, 1.4 - Michael(tm) Smith

- Added `refclass.suppress` param.

If the value of `refclass.suppress` is non-zero, then display `refclass` contents is suppressed in output. Affects HTML and FO output only.

Modified: `fo/param.ent,1.93`; `fo/param.xweb,1.106`; `html/param.ent,1.90`; `html/param.xweb,1.99`; `params/refclass.suppress.xml,1.1`  
- Michael(tm) Smith

- Added `refentry.meta.get.quietly` param.

If zero (the default), notes and warnings about "missing" markup are generated during gathering of `refentry` metadata. If non-zero, the metadata is gathered "quietly" -- that is, the notes and warnings are suppressed.

NOTE: If you are processing a large amount of `refentry` content, you may be able to speed up processing significantly by setting a non-zero value for `refentry.meta.get.quietly`.

Modified: `common/refentry.xml,1.17`; `manpages/param.ent,1.15`; `manpages/param.xweb,1.17`; `params/refentry.meta.get.quietly.xml,1`  
- Michael(tm) Smith

- Added support for "software" and "sectdesc" class values on `refmiscinfo`; "software" is treated identically to "source", and "sectdesc" is treated identically to "manual".

Modified: `common/refentry.xml,1.10`; `params/man.th.extra2.max.length.xml,1.3`; `params/refentry.source.name.profile.xml,1.4`  
- Michael(tm) Smith

- Drastically reworked all of the XPath expressions used in `refentry` metadata gathering -- completely removed `$parentinfo` and turned `$info` into a set of nodes that includes the `*info` contents of the `Refentry` plus the `*info` contents all of its ancestor elements. The basic XPath expression now used throughout is (using the example of checking for a date):

```
((($info[//date])[last()]/date)[1].
```

That selects the "last" `*info/date` date in document order -- that is, the one either on the `Refentry` itself or on the closest ancestor to the `Refentry`.

It's likely this change may break some things; may need to pick up some pieces later.

Also, changed the default value for the `man.th.extra2.max.length` from 40 to 30.

Modified: `common/common.xml,1.58`; `common/refentry.xml,1.7`; `params/man.th.extra2.max.length.xml,1.2`; `params/refentry.date.profile.xml,1.2`; `params/refentry.manual.profile.xml,1.2`; `params/refentry.source.name.profile.xml,1.2`; `params/refentry.version.profile.xml,1.2`; `manpages/docbook.xml,1.58`; `manpages/other.xml,1.15` - Michael(tm) Smith

- Added option for turning off bold formatting in `Funcsynopsis`. Boldface formatting in `function synopsis` is mandated in the man(7) man page and is used almost universally in existing man pages. Despite that, it really does look like crap to have an entire `Funcsynopsis` output in bold, so I added params for turning off the bold formatting and/or replacing it with a different roff special font (e.g., "RI" for alternating roman/italic instead of the default "BI" for alternating bold/italic). The new params are "man.funcprototype.font" and "man.funcsynopsisinfo.font". To be documented later.

Closes #1452247. Thanks to Joe Orton for the feature request.

Modified: `params/man.string.subst.map.xml,1.16`; `manpages/block.xml,1.10`; `manpages/docbook.xml,1.51`; `manpages/inline.xml,1.16`; `manpages/synop.xml,1.27` - Michael(tm) Smith

- `fop.extensions` now only for FOP version 0.20.5 and earlier.

Modified: `params/fop.extensions.xml,1.4` - Robert Stayton

- Support for `fop1` different from `fop` 0.20.5 and earlier.

Modified: `params/fop1.extensions.xml,1.1` - Robert Stayton

- Reset default value to empty string so template uses `gextext` first, then the parameter value if not empty.

Modified: `params/index.number.separator.xml,1.2`; `params/index.range.separator.xml,1.2`; `params/index.term.separator.xml,1.2`  
- Robert Stayton

- New parameter: `id.warnings`. If non-zero, warnings are generated for titled objects that don't have titles. True by default; I wonder if this will be too aggressive?

Modified: `html/biblio.xml,1.25`; `html/component.xml,1.27`; `html/division.xml,1.11`; `html/formal.xml,1.19`; `html/glossary.xml,1.20`; `html/html.xml,1.13`; `html/index.xml,1.16`; `html/param.ent,1.88`; `html/param.xweb,1.97`; `html/refentry.xml,1.22`; `html/sections.xml,1.30`; `params/id.warnings.xml,1.1` - Norman Walsh

- Added new parameter *keep.relative.image.uris*

Modified: fo/param.ent,1.91; fo/param.xweb,1.104; html/param.ent,1.87; html/param.xweb,1.96; params/keep.relative.image.uris.xml,1.1  
- Norman Walsh

- Support default *label* width parameters for itemized and ordered lists

Modified: fo/lists.xsl,1.64; fo/param.ent,1.90; fo/param.xweb,1.103; params/itemizedlist.label.width.xml,1.1; params/orderedlist.label.width.xml,1.1  
- Norman Walsh

- Added parameters to localize punctuation in indexes.

Modified: params/index.number.separator.xml,1.1; params/index.range.separator.xml,1.1; params/index.term.separator.xml,1.1  
- Robert Stayton

- Added two new parameters for handling of multi-term *varlistentry* elements:

*variablelist.term.break.after*: When the *variablelist.term.break.after* is non-zero, it will generate a line break after each term multi-term *varlistentry*.

*variablelist.term.separator*: When a *varlistentry* contains multiple term elements, the string specified in the value of the *variablelist.term.separator* parameter is placed after each term except the last. The default is ", " (a comma followed by a space). To suppress rendering of the separator, set the value of *variablelist.term.separator* to the empty string ("").

These parameters are primarily intended to be useful if you have multi-term *varlistentries* that have long terms.

Closes #1306676. Thanks to Sam Steingold for providing an example "lots of long terms" doc that demonstrated the value of having these options.

Also, added *normalize-space()* call to processing of each term.

This change affects all output formats (HTML, PDF, manpages). The default behavior should pretty much remain the same as before, but it is possible (as always) that the change may introduce some new bugginess.

Modified: fo/lists.xsl,1.62; fo/param.ent,1.88; fo/param.xweb,1.99; html/lists.xsl,1.48; html/param.ent,1.86; html/param.xweb,1.93; manpages/lists.xsl,1.22; manpages/param.ent,1.14; manpages/param.xweb,1.16; params/variablelist.term.break.after.xml,1.1; params/variablelist.term.separator.xml,1.1 - Michael(tm) Smith

- Convert 'no' to string in default value.

Modified: params/olink.doctitle.xml,1.4 - Robert Stayton

- Implemented RFE #1292615.

Added bunch of new parameters (attribute sets) that affect list presentation: *list.block.properties*, *itemizedlist.properties*, *orderedlist.properties*, *itemizedlist.label.properties* and *orderedlist.label.properties*. Default behaviour of stylesheets has not been changed but further customizations will be much more easier.

Modified: fo/lists.xsl,1.61; fo/param.ent,1.87; fo/param.xweb,1.98; params/itemizedlist.label.properties.xml,1.1; params/itemizedlist.properties.xml,1.1; params/list.block.properties.xml,1.1; params/orderedlist.label.properties.xml,1.1; params/orderedlist.properties.xml,1.1  
- Jirka Kosek

- Implemented RFE #1242092.

You can enable crop marks in your document by setting *crop.marks=1* and *xep.extensions=1*. Appearance of crop marks can be controlled by parameters *crop.mark.bleed* (6pt), *crop.mark.offset* (24pt) and *crop.mark.width* (0.5pt).

Also there is new named template called *user-xep-pis*. You can overwrite it in order to produce some PIs that can control XEP as described in [http://www.renderx.com/reference.html#Output\\_Formats](http://www.renderx.com/reference.html#Output_Formats)

Modified: fo/docbook.xsl,1.36; fo/param.ent,1.86; fo/param.xweb,1.97; fo/xep.xsl,1.23; params/crop.mark.bleed.xml,1.1; params/crop.mark.offset.xml,1.1; params/crop.mark.width.xml,1.1; params/crop.marks.xml,1.1 - Jirka Kosek

- Changed short descriptions in doc for *\*autolabel\** params to match new *autolabel* behavior.

Modified: params/appendix.autolabel.xml,1.5; params/chapter.autolabel.xml,1.4; params/part.autolabel.xml,1.5; params/preface.autolabel.xml,1.4 - Michael(tm) Smith

## 6.7 Profiling

The following changes have been made to the `profiling` code since the 1.69.1 release.

- Profiling now works together with namespace stripping (V5 documents). Namespace stripping should work with all stylesheets named `profile-`, even if they are not supporting namespace stripping in a non-profiling variant.  
Modified: `profiling/profile-mode.xml`, 1.4; `profiling/xsl2profile.xml`, 1.7 - Jirka Kosek
- Moved profiling stage out of templates. This make possible to reuse profiled content by several templates and still maintaing node identity (needed for example for HTML Help where content is processed multiple times).  
I don't know why this was not on the top level before. Maybe some XSLT processors choked on it. I hope this will be OK now.  
Modified: `profiling/xsl2profile.xml`, 1.5 - Jirka Kosek

## 6.8 Tools

The following changes have been made to the `tools` code since the 1.69.1 release.

- Moved `Makefile.DocBook` from `contrib` module to `xsl` module.  
Modified: `tools/make/Makefile.DocBook`, 1.1 - Michael(tm) Smith

## 6.9 WordML

The following changes have been made to the `wordml` code since the 1.69.1 release.

- added `contrib` element, better handling of default paragraph style  
Modified: `wordml/pages-normalise.xml`, 1.6; `wordml/supported.xml`, 1.2; `wordml/wordml-final.xml`, 1.14 - Steve Ball
- added `bridgehead`  
Modified: `wordml/docbook-pages.xml`, 1.6; `wordml/docbook.xml`, 1.17; `wordml/pages-normalise.xml`, 1.5; `wordml/template-pages.xml`, 1.1; `wordml/template.dot`, 1.4; `wordml/template.xml`, 1.14; `wordml/wordml-final.xml`, 1.13 - Steve Ball
- added blocks stylesheet to support bibliographies, glossaries and qandaset  
Modified: `wordml/Makefile`, 1.4; `wordml/README`, 1.3; `wordml/blocks-spec.xml`, 1.1; `wordml/docbook-pages.xml`, 1.5; `wordml/docbook.xml`, 1.16; `wordml/pages-normalise.xml`, 1.4; `wordml/sections-spec.xml`, 1.3; `wordml/specifications.xml`, 1.13; `wordml/template-pages.xml`, 1.6; `wordml/template.dot`, 1.3; `wordml/template.xml`, 1.13; `wordml/wordml-blocks.xml`, 1.1; `wordml/wordml-final.xml`, 1.12; `wordml/wordml-sections.xml`, 1.3 - Steve Ball
- added `mediaobject` `caption`  
Modified: `wordml/docbook-pages.xml`, 1.4; `wordml/docbook.xml`, 1.15; `wordml/specifications.xml`, 1.12; `wordml/template-pages.xml`, 1.1; `wordml/template.dot`, 1.2; `wordml/template.xml`, 1.12; `wordml/wordml-final.xml`, 1.11 - Steve Ball
- added callouts  
Modified: `wordml/docbook-pages.xml`, 1.3; `wordml/docbook.xml`, 1.14; `wordml/pages-normalise.xml`, 1.3; `wordml/specifications.xml`, 1.1; `wordml/template-pages.xml`, 1.4; `wordml/wordml-final.xml`, 1.10 - Steve Ball
- added Word template file  
Modified: `wordml/template.dot`, 1.1 - Steve Ball
- added `abstract`, fixed `itemizedlist`, `ulink`  
Modified: `wordml/specifications.xml`, 1.10; `wordml/wordml-final.xml`, 1.9 - Steve Ball
- fixed `Makefile` added many features to Pages support added `revhistory`, `inlines`, `highlights`, `abstract`  
Modified: `wordml/Makefile`, 1.2; `wordml/docbook-pages.xml`, 1.2; `wordml/pages-normalise.xml`, 1.2; `wordml/sections-spec.xml`, 1.2; `wordml/specifications.xml`, 1.9; `wordml/template-pages.xml`, 1.3; `wordml/template.xml`, 1.11; `wordml/wordml-final.xml`, 1.8; `wordml/wordml-sections.xml`, 1.2 - Steve Ball
- fixed handling linebreaks when generating WordML added Apple Pages support  
Modified: `wordml/docbook.xml`, 1.13; `wordml/template-pages.xml`, 1.2 - Steve Ball

## 7 Release 1.69.1

This release is a minor bug-fix update to the 1.69.0 release. Along with bug fixes, it includes one configuration-parameter change: The default value of the `annotation.support` parameter is now 0 (off). The reason for that change is that there have been reports that annotation handling is causing a significant performance degradation in processing of large documents with `xsltproc`.

## 8 Release 1.69.0

The release includes major feature changes, particularly in the **manpages stylesheets**, as well as a large number of bug fixes. As with all DocBook Project ‘dot zero’ releases, this is an **experimental release**.

### 8.1 Common

- This release adds localizations for the following languages: Albanian, Amharic, Azerbaijani, Hindi, Irish (Gaelic), Gujarati, Kannada, Mongolian, Oriya, Punjabi, Tagalog, Tamil, Welsh.
- Added support for specifying number format for auto labels for `chapter`, `appendix`, `part`, and `preface`. Contolled with the `appendix.autolabel`, `chapter.autolabel`, `part.autolabel`, and `preface.autolabel` parameters.
- Added basic support for `biblioref` cross referencing.
- Added support for align on `caption` in `mediaobject`.
- Added support for processing documents that use the DocBook V5 namespace.
- Added support for `termdef` and `mathphrase`.
- EXPERIMENTAL: Incorporated the Slides and Website stylesheets into the DocBook XSL stylesheets package. So, for example, Website documents can now be processed using the following URI for the driver Website `tabular.xml` file:

```
http://docbook.sourceforge.net/release/xsl/current/website/tabular.xml
```

- A `procedure` without a `title` is now treated as an ‘informal’ procedure (meaning that it is not added to any generated ‘list of procedures’ and has no affect on numbering of generated labels for other procedures).
- `docname` is no longer added to `olink` when pointing to a root element.
- Added support for generation of choice separator in inline `simplelist`. This enables auto-generation of an appropriate localized ‘choice separator’ (for example, ‘and’ or ‘or’) before the final item in an inline `simplelist`.

To indicate that you want a choice separator generated for a particular list, you need to put a processing instruction (PI) of the form `<?dbchoice choice="foo"?>` as a child of the list. For example:

```
<para>Choose from
ONE and ONLY ONE of the following:
<simplelist type="inline">
<?dbchoice choice="or" ?>
<member>A</member>
<member>B</member>
<member>C</member>.</simplelist></para>
```

Output (for English):

Choose from ONE and only ONE of the following choices: A, B, or C.

As a temporary workaround for the fact that most of the DocBook non-English locale files don’t have a localization for the word ‘or’, you can put in a literal string to be used; example for French: `<?dbchoice choice="ou"?>`. That is, use ‘ou’ instead of ‘or’.

## 8.2 FO

- Added `content-type` property to `external-graphic` element, based on `imagedata` format attribute.
- Added support for generating `<rx:meta-field creator="$VERSION"/>` field for XEP output. This makes the DocBook XSL stylesheet version information available through the Document Properties menu in Acrobat Reader and other PDF viewers.
- Trademark symbol handling made consistent with handling of same in HTML stylesheets. Prior to this change, if you processed a document that contained no value for the class attribute on the `trademark` element, the HTML stylesheets would default to rendering a superscript `TM` symbol after the `trademark` contents, but the FO stylesheets would render nothing.
- Added support for generating XEP bookmarks for `refentry`.
- Added support for HTML markup `table border` attribute, applied to each table cell.
- The `table.width` template can now sum column specs if none use `%` or `*`.
- Added `fox:destination` extension inside `fox:outline` to support linking to internal destinations.
- Added support for customizing `abstract` with property sets. Controlled with the `abstract.properties` and `abstract.title.properties` parameters.
- Add footnotes in table title to table footnote set, and add support for table footnotes to HTML table markup.
- Added support for `title` in `glosslist`.
- Added support for `itemizedlist` symbol `none`.
- Implemented the new `graphical.admonition.properties` and `nongraphical.admonition.properties` attribute sets.
- Added id to `formalpara` and some other blocks that were missing it.
- Changed the anchor template to output `fo:inline` instead of `fo:wrapper`.
- Added support for `toc.max.depth` parameter.

## 8.3 Help

- Eclipse Help: Added support for generating olink database.

## 8.4 HTML

- Added a first cut at support in HTML output for DocBook 5 style annotations. Controlled using the `annotation.-support` parameter, and implemented using JavaScript and CSS styling. For more details, see the documentation for the `annotation.js`, `annotation.css`, `annotation.graphic.open`, and `annotation.graphic.close` parameters.
- Generate client-side image map for `imageobjectco` with areas using `calspair` units
- Added support for `<?img.src.path?>` PI.
- Added support for passing `img.src.path` to DocBook Java XSLT image extensions when appropriate. Controlled using the `graphicsize.use.img.src.path` parameter.
- Added support for (not valid for DocBook 4) `xlink:href` on `area` and (not valid for DocBook 4) `alt` in `area`.
- Added new parameter `default.table.frame` to control table framing if there is no frame attribute on a table.



- Added initial, experimental support for generating content for the HTML `title` attribute from content of the `alt` element. This change adds support for the following inline elements only (none of them are block elements): `abbrev`, `accel`, `acronym`, `action`, `application`, `authorinitials`, `beginpage`, `citation`, `citerefentry`, `citetitle`, `city`, `classname`, `code`, `command`, `computeroutput`, `constant`, `country`, `database`, `email`, `envar`, `errorcode`, `errorname`, `errortext`, `errortype`, `exceptionname`, `fax`, `filename`, `firstname`, `firstterm`, `foreignphrase`, `function`, `glossterm`, `guibutton`, `guiicon`, `guilabel`, `guimenu`, `guimenuitem`, `guisubmenu`, `hardware`, `honorific`, `interface`, `interfacename`, `keycap`, `keycode`, `keysym`, `lineage`, `lineannotation`, `literal`, `markup`, `medialabel`, `methodname`, `mousebutton`, `option`, `optional`, `otheraddr`, `othername`, `package`, `parameter`, `personname`, `phone`, `pob`, `postcode`, `productname`, `productnumber`, `prompt`, `property`, `quote`, `refentrytitle`, `remark`, `replaceable`, `returnvalue`, `tag`, `shortcut`, `state`, `street`, `structfield`, `structname`, `subscript`, `superscript`, `surname`, `symbol`, `systemitem`, `tag`, `termdef`, `token`, `trademark`, `type`, `uri`, `userinput`, `varname`, `wordasword`
- Added support for chunking `revhistory` into separate file (similar to the support for doing same with `legalnotice`). Patch from Thomas Schraitle. Controlled through `new generate.revhistory.link` parameter.
- `l10n.xml`: Made language codes RFC compliant. Added a new boolean config parameter, `l10n.lang.value.rfc.compliant`. If it is non-zero (the default), any underscore in a language code will be converted to a hyphen in HTML output. If it is zero, the language code will be left as-is.

## 8.5 man

This release closes out 44 manpages stylesheet bug reports and feature requests. It adds more than 35 new configuration parameters for controlling aspects of man-page output -- including hyphenation and justification, handling of links, conversion of Unicode characters, and contents of man-page headers and footers.

- New options for globally disabling/enabling hyphenation and justification: `man.justify` and `man.hyphenate`.

Note that the default for the both of those is zero (off), because justified text looks good only when it is also hyphenated; to quote the ‘Hyphenation’ node from the groff info page:

*Since the odds are not great for finding a set of words, for every output line, which fit nicely on a line without inserting excessive amounts of space between words, ‘groff’ hyphenates words so that it can justify lines without inserting too much space between words.*

The problem is that groff can end up hyphenating a lot of things that you don’t want hyphenated (variable names and command names, for example). Keeping both justification and hyphenation disabled ensures that hyphens won’t get inserted where you don’t want to them, and you don’t end up with lines containing excessive amounts of space between words. These default settings run counter to how most existing man pages are formatted. But there are some notable exceptions, such as the perl man pages.

- Added parameters for controlling hyphenation of computer inlines, filenames, and URLs. By default, even when hyphenation is enabled (globally), hyphenation is now suppressed for "computer inlines" (currently, just `classname`, `constant`, `envar`, `errorcode`, `option`, `replaceable`, `userinput`, `type`, and `varname`, and for filenames, and for URLs from `link`. It can be (re)enabled using the `man.hyphenate.computer.inlines`, `man.hyphenate.filenames`, and `man.hyphenate.urls` parameters.

- Implemented a new system for replacing Unicode characters. There are two parts to the new system: a ‘string substitution map’ for doing ‘essential’ replacements, and a ‘character map’ that can optionally be disabled and enabled.

The new system fixes all open bugs that had to do with literal Unicode numbered entities such as `&#8220`; and `&#8221`; showing up in output, and greatly expands the ability of the stylesheets to generate ‘good’ roff equivalents for Unicode symbols and special characters.

Here are some details...

The previous manpages mechanism for replacing Unicode symbols and special characters with roff equivalents (the `replace-entities` template) was not scalable and not complete. The mechanism handled a somewhat arbitrary selection of less than 20 or so Unicode characters. But there are potentially more than 800 Unicode special characters that have some groff equivalent they can be mapped to. And there are about 34 symbols in the Latin-1 (ISO-8859-1) block alone. Users

might reasonably expect that if they include any of those Latin-1 characters in their DocBook source documents, they will get correctly converted to known roff equivalents in output.

In addition to those common symbols, certain users may have a need to use symbols from other Unicode blocks. Say, somebody who is documenting an application related to math might need to use a bunch of symbols from the ‘Mathematical Operators’ Unicode block (there are about 65 characters in that block that have reasonable roff equivalents). Or somebody else might really like Dingbats -- such as the checkmark character -- and so might use a bunch of things from the ‘Dingbat’ block (141 characters in that that have roff equivalents or that can at least be ‘degraded’ somewhat gracefully into roff).

So, the old `replace-entities` mechanism was replaced with a completely different mechanism that is based on use of two ‘maps’: a ‘substitution map’ and a ‘character map’ (the latter in a format compliant with the XSLT 2.0 spec and therefore completely ‘forward compatible’ with XSLT 2.0).

The substitution map is controlled through the `man.string.subst.map` parameter, and is used to replace things like the backslash character (which needs special handling to prevent it from being interpreted as a roff escape). The substitution map cannot be disabled, because disabling it will cause the output to be broken. However, you can add to it and change it if needed.

The ‘character map’ mechanism, on the other hand, can be completely disabled. It is enabled by default, and, by default, does replacement of all Latin-1 symbols, along with most special spaces, dashes, and quotes (about 75 characters by default). Also, you can optionally enable a ‘full’ character map that provides support for converting all 800 or so of the characters that have some reasonable groff equivalent.

The character-map mechanism is controlled through the following parameters:

**`man.charmap.enabled`**

turns character-map support on/off

**`man.charmap.use.subset`**

specifies that a subset of the character map is used instead of the full map

**`man.charmap.subset.profile`**

specifies profile of character-map subset

**`man.charmap.uri`**

specifies an alternate character map to use instead of the ‘standard’ character map provided in the distribution

- Implemented out-of-line handling of display of URLs for links (currently, only for `ulink`). This gives you three choices for handling of links:
  1. Number and list links. Each link is numbered inline, with a number in square brackets preceding the link contents, and a numbered list of all links is added to the end of the document.
  2. Only list links. Links are not numbered, but an (unnumbered) list of links is added to the end of the document.
  3. Suppress links. Don’t number links and don’t add any list of links to the end of the document.

You can also choose whether links should be underlined. The default is ‘the works’ -- list, number, and underline links. You can use the `man.links.list.enabled`, `man.links.are.numbered`, and `man.links.are.underlined` parameters to change the defaults. The default heading for the link list is REFERENCES. You can change that using the `man.links.list.heading` parameter.

- Changed default output encoding to UTF-8. **This does not mean that man pages are output in raw UTF-8**, because the character map is applied before final output, causing all UTF-8 characters covered in the map to be converted to roff equivalents.
- Added support for processing `refsect3` and `formalpara` and nested `refsection` elements, down to any arbitrary level of nesting.
- Output of the NAME and SYNOPSIS and AUTHOR headings and the headings for admonitions (`note`, `caution`, etc.) are no longer hard-coded for English. Instead, headings are generated for those in the correct locale (just as the FO and HTML stylesheets do).
- Re-worked mechanism for assembling page headers/footers (the contents of the `.TH` macro ‘title line’).

Here are some details...

All man pages contain a `.TH` roff macro whose contents are used for rendering the ‘title line’ displayed in the header and footer of each page. Here are a couple of examples of real-world man pages that have useful page headers/footers:

```

gtk-options(7)      GTK+ User's Manual      gtk-options(7) <-- header
GTK+ 1.2            2003-10-20             gtk-options(7) <-- footer

svglib(7)           Svgalib User Manual     svglib(7) <-- header
Svgalib 1.4.1       16 December 1999       svglib(7) <-- footer

```

And here are the terms with which the `groff_man(7)` man page refers to the various parts of the header/footer:

```

title(section)  extra3  title(section)  <- header
extra2          extra1  title(section)  <- footer

```

Or, using the names with which the `man(7)` man page refers to those same fields:

```

title(section)  manual  title(section)  <- page header
source          date    title(section)  <- page footer

```

The easiest way to control the contents of those fields is to mark up your `refentry` content like the following (note that this is a ‘minimal’ example).

```

<refentry>
  <info>
    <date>2003-10-20</date> ❶
  </info>
  <refmeta>
    <refentrytitle>gtk-options</refentrytitle> ❷
    <manvolnum>7</manvolnum> ❸
    <refmiscinfo class="source-name">GTK+</refmiscinfo> ❹
    <refmiscinfo class="version">1.2</refmiscinfo> ❺
    <refmiscinfo class="manual">GTK+ User's Manual</refmiscinfo> ❻
  </refmeta>
  <refnamediv>
    <refname>gtk-options</refname>
    <refpurpose>Standard Command Line Options for GTK+ Programs</refpurpose>
  </refnamediv>
  <refsect1>
    <title>Description</title>
    <para>This manual page describes the command line options, which
      are common to all GTK+ based applications.</para>
  </refsect1>
</refentry>

```

- ❶ Sets the ‘date’ part of the header/footer.
- ❷ Sets the ‘title’ part.
- ❸ Sets the ‘section’ part.
- ❹ Sets the ‘source name’ part.
- ❺ Sets the ‘version’ part.
- ❻ Sets the ‘manual’ part.

Below are explanations of the steps the stylesheets take to attempt to assemble and display ‘good’ headers and footer. [In the descriptions, note that *\*info* is the `refentry` ‘info’ child (whatever its name), and *parentinfo* is the ‘info’ child of its parent (again, whatever its name).]

#### extra1 field (date)

Content of the ‘extra1’ field is what shows up in the **center footer** position of each page. The `man(7)` man page describes it as ‘the date of the last revision’.

To provide this content, if the `refentry.date.profile.enabled` is non-zero, the stylesheets check the value of `refentry.date.profile`.

Otherwise, by default, they check for a date or pubdate not only in the *\*info* contents, but also in the *parentinfo* contents.

If a date cannot be found, the stylesheets now automatically generate a localized ‘long format’ date, ensuring that this field always has content in output.

However, if for some reason you want to suppress this field, you can do so by setting a non-zero value for *man.th.extra1.suppress*.

### extra2 field (source)

On Linux systems and on systems with a modern groff, the content of the ‘extra2’ field are what shows up in the **left footer** position of each page.

The *man(7)* man page describes this as ‘the source of the command’, and provides the following examples:

- For binaries, use something like: GNU, NET-2, SLS Distribution, MCC Distribution.
- For system calls, use the version of the kernel that you are currently looking at: Linux 0.99.11.
- For library calls, use the source of the function: GNU, BSD 4.3, Linux DLL 4.4.1.

In practice, there are many pages that simply have a version number in the ‘source’ field. So, it looks like what we have is a two-part field, *Name Version*, where:

#### Name

product name (e.g., BSD) or org. name (e.g., GNU)

#### Version

version name

Each part is optional. If the *Name* is a product name, then the *Version* is probably the version of the product. Or there may be no *Name*, in which case, if there is a *Version*, it is probably the version of the item itself, not the product it is part of. Or, if the *Name* is an organization name, then there probably will be no *Version*.

To provide this content, if the *refentry.source.name.profile.enabled* and *refentry.version.profile.enabled* parameter are non-zero, the stylesheets check the value of *refentry.source.name.profile* *refentry.version.profile*.

Otherwise, by default, they check the following places, in the following order:

1. *\*info/productnumber*
2. *\*info/productnumber*
3. *refmeta/refmiscinfo[@class = 'version']*
4. *parentinfo/productnumber*
5. *\*info/productname*
6. *parentinfo/productname*
7. *refmeta/refmiscinfo*
8. [nothing found, so leave it empty]

### extra3 field

On Linux systems and on systems with a modern groff, the content of the ‘extra3’ field are what shows up in the **center header** position of each page. Some man pages have ‘extra2’ content, some don’t. If a particular man page has it, it is most often ‘context’ data about some larger system the documented item belongs to (for example, the name or description of a group of related applications). The stylesheets now check the following places, in the following order, to look for content to add to the ‘extra3’ field.

1. *parentinfo/title*
2. *parent’s title*
3. *refmeta/refmiscinfo*
4. [nothing found, so leave it empty]

- Reworked *\*info* gathering. For each *refentry* found, the stylesheets now cache its *\*info* content, then check for any valid parent of it that might have *metainfo* content and cache that, if found; they then then do all further matches against those node-sets (rather than re-selecting the original *\*info* nodes each time they are needed).
- New option for breaking strings after forward slashes. This enables long URLs and pathnames to be broken across lines. Controlled through *man.break.after.slash* parameter.

- Output for servicemark and trademark are now (SM) and (TM). There is a groff "\ (tm" escape, but output from that is not acceptable.
- New option for controlling the length of the title part of the .TH title line. Controlled through the *man.th.title.max.length* parameter.
- New option for specifying output encoding of each man page; controlled with *man.output.encoding* (similar to the HTML *chunker.output.encoding* parameter).
- New option for suppressing filename messages when generating output; controlled with *man.output.quietly* (similar to the HTML *chunk.quietly* parameter).
- The text of cross-references to first-level *refentry* (*refsect1*, top-level *refsection*, *refnamediv*, and *refsynopsisdiv*) are now capitalized.
- Cross-references to *refnamediv* now use the localized NAME title instead of using the first *refname* child. This makes the output inconsistent with HTML and FO output, but for man-page output, it seems to make better sense to have the NAME. (It may actually make better sense to do it that way in HTML and FO output as well...)
- Added support for processing *funcparams*.
- Removed the space that was being output between *funcdef* and *paramdef*; example: was: `float rand (void)`; now: `float rand(void)`
- Turned off bold formatting for the *type* element when it occurs within a *funcdef* or *paramdef*
- Corrected rendering of *simplelist*. Any `<simplelist type="inline"` instance is now rendered as a comma-separated list (also with an optional localized ‘and’ or ‘or’ before the last item -- see description elsewhere in these release notes). Any *simplelist* instance whose type is not *inline* is rendered as a one-column vertical list (ignoring the values of the *type* and *columns* attributes if present)
- Comment added at top of roff source for each page now includes DocBook XSL stylesheets version number (as in the HTML stylesheets)
- Made change to prevent ‘sticky’ fonts changes. Now, when the manpages stylesheets encounter node sets that need to be boldfaced or italicized, they put the `\fBfoo\fR` and `\fIbar\fR` groff bold/italic instructions separately around each node in the set.
- *synop.xsl*: Boldface everything in *funcsynopsis* output except parameters (which are in ital). The *man(7)* man page says:

For functions, the arguments are always specified using italics, even in the SYNOPSIS section, where the rest of the function is specified in bold.

A look through the contents of the *man/man2* directory shows that most (all) existing pages do follow this ‘everything in *funcsynopsis* bold’ rule. That means the *type* content and any punctuation (parens, semicolons, *varargs*) also must be bolded.

- Removed code for adding backslashes before periods/dots in roff source, because backslashes in front of periods/dots in roff source are needed only in the very rare case where a period is the very first character in a line, without any space in front of it. A better way to deal with that rare case is for you to add a zero-width space in front of the offending dot(s) in your source
- Removed special handling of the *quote* element. That was hard-coded to cause anything marked up with the *quote* element to be output preceded by two backticks and followed by two apostrophes -- that is, that old-school kludge for generating ‘curly’ quotes in Emacs and in X-Windows fonts. While Emacs still seems to support that, I don’t think X-Windows has for a long time now. And, anyway, it looks (and has always looked) like crap when viewed on a normal tty/console. In addition, it breaks localization of *quote*. By default, *quote* content is output with localized quotation marks, which, depending on the locale, may or may not be left and right double quotation marks.
- Changed mappings for left and right single quotation marks. Those had previously been incorrectly mapped to the backtick (`&#96;`) and apostrophe (`&39;`) characters (for kludgy reasons -- see above). They are now correctly mapped to the `\ (oq` and `\ (cq` roff escapes. If you want the old (broken) behavior, you need to manually change the mappings for those in the value of the *man.string.subst.map* parameter.

- Removed `xref.xsl` file. Now, of the various cross-reference elements, only the `ulink` element is handled differently; the rest are handled exactly as the HTML stylesheets handle them, except that no hypertext links are generated. (Because there is no equivalent hypertext mechanism in man pages.)
- New option for making ‘subheading dividers’ in generated roff source. The dividers are not visible in the rendered man page; they are just there to make the source readable. Controlled using `man.subheading.divider`.
- Fixed many places where too much space was being added between lines.

## 9 Release 1.68.1

The release adds localization support for Farsi (thanks to Sina Heshmati) and improved support for the XLink-based DocBook NG `db:link` element. Other than that, it is a minor bug-fix update to the 1.68.0 release. The main thing it fixes is a build error that caused the XSLT Java extensions to be jarred up with the wrong package structure. Thanks to Jens Stavnstrup for quickly reporting the problem, and to Mauritz Jeanson for investigating and finding the cause.

## 10 Release 1.68.0

This release includes some features changes, particularly for FO/PDF output, and a number of bug fixes.

FO

- Moved footnote properties to attribute-sets.
- Added support for side floats, margin notes, and custom floats.
- Added new parameters `body.start.indent` and `body.end.indent` to the `set.flow.properties` template.
- Added support for `xml:id`
- Added support for `refdescriptor`.
- Added support for multiple `refnamedivs`.
- Added `index.entry.properties` attribute-set to support customization of index entries.
- Added `set.flow.properties` template call to each `fo:flow` to support customizations entry point.
- Add support for `@floatstyle` in `figure`
- Moved hardcoded properties for index division titles to the `index.div.title.properties` attribute-set.
- Added support for `table-layout="auto"` for XEP.
- Added `index.div.title.properties` attribute-set.
- `$verbose` parameter is now passed to most elements.
- Added `refentry` to `toc` in part, as it is permitted by the DocBook schema/DTD.
- Added backmatter elements and `article` to `toc` in part, since they are permitted by the DocBook schema/DTD.
- Added `mode="toc"` for `simplesect`, since it is now permitted in the `toc` if `simplesect.in.toc` is set.
- Moved hard-coded properties to `nongraphical.admonition.properties` and `graphical.admonition.properties` attribute sets.
- Added support for `sidebar-width` and `float-type` processing instructions in `sidebar`.

- For tables with HTML markup elements, added support for `dbfo bgcolor` PI, the attribute-sets named `table.properties`, `informaltable.properties`, `table.table.properties`, and `table.cell.padding`. Also added support for the templates named `table.cell.properties` and `table.cell.block.properties` so that tabstyles can be implemented. Also added support for tables containing only `tr` instead of `tbody` with `tr`.
- Added new parameter `hyphenate.verbatim.characters` which can specify characters after which a line break can occur in verbatim environments. This parameter can be used to extend the initial set of characters which contain only space and non-breakable space.
- Added `itemizedlist.label.markup` to enable selection of different bullet symbol. Also added several potential bullet characters, commented out by default.
- Enabled all id's in XEP output for external olinking.

## HTML

- Added support for `refdescriptor`.
- Added support for multiple `refnamedivs`.
- Added support for `xml:id`
- `refsynopsisdiv` as a section for counting section levels

## IMAGES

- Added new SVG admonition graphics and navigation images.

## 11 Release 1.67.2

This release fixes a table bug introduced in the 1.67.1 release.

## 12 Release 1.67.1

This release includes a number of bug fixes.

The following lists provide details about API and feature changes.

### FO

- Tables: Inherited cell properties are now passed to the `table.cell.properties` template so they can be overridden by a customization.
- Tables: Added support for `bgcolor` PI on table row element.
- TOCs: Added new parameter `simplesect.in.toc`; default value of 0 causes `simplesect` to be omitted from TOCs; to cause `simplesect` to be included in TOCs, you must set the value of `simplesect.in.toc` to 1. Comment from Norm:

*Simplesect elements aren't supposed to appear in the ToC at all... The use case for simplesect is when, for example, every chapter in a book ends with "Exercises" or "For More Information" sections and you don't want those to appear in the ToC.*

- Sections: Reverted change that caused a variable reference to be used in a template match and rewrote code to preserve intended semantics.
- Lists: Added workaround to prevent "`* 0.60 + 1em`" garbage in list output from PassiveTeX
- Moved the literal attributes from `component.title` to the `component.title.properties` attribute-set so they can be customized.

- Lists: Added glossdef's first para to special handling in fo:list-item-body.

## HTML

- TOCs: Added new parameter *simplesect.in.toc*; for details, see the list of **FO** changes for this release.
- Indexing: Added new parameter *index.prefer.titleabbrev*; when set to 1, index references will use *titleabbrev* instead of *title* when available.

## HTML HELP

- Added support for generating windows-1252-encoded output using Saxon; for more details, see the list of **XSL Java extensions** changes for this release.

## MAN PAGES

- Replaced named/numeric character-entity references for non-breaking space with groff equivalent (backslash-tilde).

## XSL JAVA EXTENSIONS

- Saxon extensions: Added the `Windows1252` class. It extends Saxon 6.5.x with the windows-1252 character set, which is particularly useful when generating HTML Help for Western European Languages (code from Pontus Haglund and contributed to the DocBook community by Sectra AB, Sweden).

To use:

1. Make sure that the Saxon 6.5.x jar file and the jar file for the DocBook XSL Java extensions are in your CLASSPATH
2. Create a DocBook XSL customization layer -- a file named `mystylesheet.xml` or whatever -- that, at a minimum, contains the following:

```
<xsl:stylesheet
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  version='1.0'>
  <xsl:import href="http://docbook.sourceforge.net/release/xsl/current/htmlhelp/ ↵
    htmlhelp.xml"/>
  <xsl:output method="html" encoding="WINDOWS-1252" indent="no"/>
  <xsl:param name="htmlhelp.encoding" select="'WINDOWS-1252'"/></xsl:param>
  <xsl:param name="chunker.output.encoding" select="'WINDOWS-1252'"/></xsl:param>
  <xsl:param name="saxon.character.representation" select="'native'"/></xsl:param>
</xsl:stylesheet>
```

Invoke Saxon with the `encoding.windows-1252` Java system property set to `com.nwalsh.saxon.Windows-1252`; for example

```
java \
  -Dencoding.windows-1252=com.nwalsh.saxon.Windows1252 \
  com.icl.saxon.StyleSheet \
  mydoc.xml mystylesheet.xml
```

Or, for a more complete "real world" case showing other options you'll typically want to use:

```
java \
  -Dencoding.windows-1252=com.nwalsh.saxon.Windows1252 \
  -Djavax.xml.parsers.DocumentBuilderFactory=org.apache.xerces.jaxp. ↵
    DocumentBuilderFactoryImpl \
  -Djavax.xml.parsers.SAXParserFactory=org.apache.xerces.jaxp.SAXParserFactoryImpl \
  -Djavax.xml.transform.TransformerFactory=com.icl.saxon.TransformerFactoryImpl \
  com.icl.saxon.StyleSheet \
  -x org.apache.xml.resolver.tools.ResolvingXMLReader \
  -y org.apache.xml.resolver.tools.ResolvingXMLReader \
  -r org.apache.xml.resolver.tools.CatalogResolver \
  mydoc.xml mystylesheet.xml
```



In both cases, the "mystylesheet.xml" file should be a DocBook customization layer containing the parameters show in step 2.

- Saxon extensions: Removed Saxon 8 extensions from release package

## 13 Release 1.67.0

- A number of important bug fixes.
- Added Saxon8 extensions
- Enabled `dbfo table-width` on `entrytbl` in FO output
- Added support for `role=strong` on `emphasis` in FO output
- Added new FO parameter `hyphenate.verbatim` that can be used to turn on "intelligent" wrapping of verbatim environments.
- Replaced all `<tt></tt>` output with `<code></code>`
- Changed `admon.graphic.width` template to a mode so that different admonitions can have different graphical widths.
- Deprecated the HTML `shade.verbatim` parameter (use CSS instead)
- Wrapped ToC `refentrytitle/refname` and `refpurpose` in span with class values. This makes it possible to style them using a CSS stylesheet.
- Use `strong/em` instead of `b/i` in HTML output
- Added support for converting `Emphasis` to `groff italic` and `Emphasis role='bold'` to `bold`. Controlled by `emphasis.propagates.style` param, but not documented yet using `litprog` system. Will do that next (planning to add some other parameter-controllable options for hyphenation and handling of line spacing).
- `callout.graphics.number.limit.xml` param: Changed the default from 10 to 15.
- `verbatim.properties`: Added `hyphenate=false`
- Saxon and Xalan Text.java extensions: Added support for `URIResolver()` on `insertfile href`'s
- Added generated `RELEASE-NOTES.txt` file.
- Added `INSTALL` file (executable file for generating `catalog.xml`)
- Removed obsolete `tools` directory from package

## 14 Release 1.66.1

- A number of important bug fixes.
- Now `xml:base` attributes that are generated by an `XInclude` processor are resolved for image files.
- Rewrote olink templates to support several new features.
  - Extended full olink support to FO output.
  - Add support for `xrefstyle` attribute in olinks.
  - New parameters to support new olink features: `insert.olink.page.number`, `insert.olink.pdf.frag`, `olink.debug`, `olink.lang.fallback.sequence`, `olink.properties`, `prefer.internal.olink`. See the reference page for each parameter for more information.
- Added `index.on.type` parameter for new type attribute introduced in DocBook 4.3 for `indexterms` and `index`. This allows you to create multiple indices containing different categories of entries. For users of 4.2 and earlier, you can use the new parameter `index.on.role` instead.

- Added new `section.autolabel.max.depth` parameter to turn off section numbering below a certain depth. This permits you to number major section levels and leave minor section levels unnumbered.
  - Added `footnote.sep.leader.properties` attribute set to format the line separating footnotes in printed output.
  - Added parameter `img.src.path` as a prefix to HTML `img src` attributes. The prefix is added to whatever path is already generated by the stylesheet for each image file.
  - Added new attribute-sets `informalequation.properties`, `informalexample.properties`, `informalfigure.properties`, and `informaltable.properties`, so each such element type can be formatted individually if needed.
  - Add `component.label.includes.part.label` parameter to add any part number to chapter, appendix and other component labels when the `label.from.part` parameter is nonzero. This permits you to distinguish multiple chapters with the same chapter number in cross references and the TOC.
  - Added `chunk.separate.lots` parameter for HTML output. This parameter lets you generate separate chunk files for each LOT (list of tables, list of figures, etc.).
  - Added several table features:
    - Added `table.table.properties` attribute set to add properties to the `fo:table` element.
    - Added placeholder templates named `table.cell.properties` and `table.cell.block.properties` to enable adding properties to any `fo:table-cell` or the cell's `fo:block`, respectively. These templates are a start for implementing table styles.
  - Added new attribute set `component.title.properties` for easy modifications of component's title formatting in FO output.
  - Added Saxon support for an encoding attribute on the `textdata` element. Added new parameter `textdata.default.encoding` which specifies encoding when encoding attribute on `textdata` is missing.
  - Template `label.this.section` now controls whole section label, not only sub-label which corresponds to particular label. Former behaviour was IMHO bug as it was not usable.
  - Formatting in `titleabbrev` for TOC and headers is preserved when there are no hotlink elements in the title. Formerly the title showed only the text of the title, no font changes or other markup.
  - Added `intial.page.number` template to set the `initial-page-number` property for page sequences in print output. Customizing this template lets you change when page numbering restarts. This is similar to the `format.page.number` template that lets you change how the page number formatting changes in the output.
  - Added `force.page.count` template to set the `force-page-count` property for page sequences in print output. This is similar to the `format.page.number` template.
  - Sort language for localized index sorting in `autoidx-ng.xsl` is now taken from document `lang`, not from system environment.
  - Numbering and formatting of normal and ulink footnotes (if turned on) has been unified. Now ulink footnotes are mixed in with any other footnotes.
  - Added support for `renderas` attribute in `section` and `sect1` et al. This permits you to render a given section title as if it were a different level.
  - Added support for `label` attribute in footnote to manually supply the footnote mark.
  - Added support for DocBook 4.3 `corpcredit` element.
  - Added support for a `dbfo keep-together` PI for formal objects (table, figure, example, equation, programlisting). That permits a formal object to be kept together if it is not already, or to be broken if it is very long and the default keep-together is not appropriate.
  - For graphics files, made file extension matching case insensitive, and updated the list of graphics extensions.
  - Allow `calloutlist` to have block content before the first callout
-

- Added `dbfo-need` processing instruction to provide soft page breaks.
- Added implementation of existing but unused `default.image.width` parameter for graphics.
- Support DocBook NG `tag` inline element.
- It appears that XEP now supports Unicode characters in bookmarks. There is no further need to strip accents from characters.
- Make `segmentedlist` HTML markup more semantic and available to CSS styles.
- Added `user.preroot` placeholder template to permit `xsl-stylesheet` and other PIs and comments to be output before the HTML root element.
- Non-chunked `legalnotice` now gets an `<a name="id">` element in HTML output so it can be referenced with `xref` or `link`.
- In chunked HTML output, changed `link rel="home"` to `rel="start"`, and `link rel="previous"` to `rel="prev"`, per W3C HTML 4.01 spec.
- Added several patches to `htmlhelp` from W. Borgert
- Added Bosnian locale file as `common/bs.xml`.

## 15 Release 1.65.0

- A number of important bug fixes.
- Added a workaround to allow these stylesheets to process DocBook NG documents. (It's a hack that pre-processes the document to strip off the namespace and then uses `exsl:node-set` to process the result.)
- Added alternative indexing mechanism which has better internationalization support. New indexing method allows grouping of accented letters like `e`, `é`, `ë` into the same group under letter "e". It can also treat special letters (e.g. "ch") as one character and place them in the correct position (e.g. between "h" and "i" in Czech language).

In order to use this mechanism you must create customization layer which imports some base stylesheet (like `fo/docbook.xsl`, `html/chunk.xsl`) and then includes appropriate stylesheet with new indexing code (`fo/autoidx-ng.xsl` or `html/autoidx-ng.xsl`). For example:

```
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
                version="1.0">

<xsl:import href="http://docbook.sourceforge.net/release/xsl/current/fo/docbook.xsl"/>
<xsl:include href="http://docbook.sourceforge.net/release/xsl/current/fo/autoidx-ng.xsl"/>

</xsl:stylesheet>
```

New method is known to work with Saxon and it should also work with `xsltproc` 1.1.1 and later. Currently supported languages are English, Czech, German, French, Spanish and Danish.

## 16 Release 1.64.1

- In the course of fixing bug #849787, wrapping Unicode callouts with an appropriate font change in the Xalan extensions, I discovered that the Xalan APIs have changed a bit. So `xalan2.jar` will work with older Xalan 2 implementations, `xalan25.jar` works with Xalan 2.5.

## 17 Release 1.61.0

- Initial support for timestamp PI. From now you can use `<?dbtimestamp format="Y-m-d H:M:S">` to get current datetime in your document. Added localization support for datetime PI
- Added level 6 to test for `section` depth in `section.level` template so that `section.title.level6.properties` will be used for sections that are 6 deep or deeper. This should also cause a h6 to be created in html output.
- Don't use SVG graphics if `use.svg=0`
- Now uses `number-and-title-template` for sections only if `section.autolabel` is not zero.
- Added missing 'english-language-name' attribute to the `l10n` element, and the missing 'style' attribute to the template element so the current gentext documents will validate.
- Corrected several references to parameter `qanda.defaultlabel` that were missing the "\$".
- Now accepts `admon.textlabel` parameter to turn off Note, Warning, etc. label.
- FeatReq #684561: support more XEP metadata
- Added hyphenation support. Added support for `coref`. Added `beginpage` support. (does nothing; see TDG).
- Added support for `hyphenation-character`, `hyphenation-push-character-count`, and `hyphenation-remain-character-count`
- Added `root.properties`, `ebnf.assignment`, and `ebnf.statement.terminator`
- Support `bgcolor` PI in table cells; make sure `rowsep` and `colsep` don't have any effect on the last row or column
- Handle `othercredit` on `titlepage` a little better
- Applied fix from Jeff Beal that fixed the bug that put secondary page numbers on primary entries. Same with tertiary page numbers on secondary entries.
- Added definition of missing variable `collection`.
- Make `footnote` formatting 'normal' even when it occurs in a context that has special formatting
- Added warning when `glossary.collection` is not blank, but it cannot open the specified file.
- Pick up the `frame` attribute on `table` and `informaltable`.
- `indexdiv/title` in non-autogenerated indexes are now picked up.
- Removed (unused) `component.title.properties`
- Move IDs from `page-sequences` down to `titlepage` blocks
- Use `proportional-column-width(1)` on more `tables`.  
Use `proportional-column-width()` for header/footer tables; suppress `relative-align` when when using FOP
- Check for `glossterm.auto.link` when linking firstterms; don't output `gl.` prefix on `glossterm` links
- Generate Part ToCs
- Support `glossary`, `bibliography`, and `index` in component ToCs.
- Refactored chunking code so that customization of chunk algorithm and chunk elements is more practical
- Support `textobject/phrase` on `inlinemediaobject`.
- Support 'start' PI on ordered lists
- Fixed test of `$toc` PI to turn on `qandaset` TOC.
- Added `process.chunk.footnotes` to `sect2` through `5` to fix bug of missing footnotes when chunk level greater than 1.

- Added parameter *toc.max.depth* which controls maximal depth of ToC as requested by PHP-DOC group.
- Exempted *titleabbrev* from preamble processing in lists, and fixed *variablelist* preamble code to use the same syntax as the other lists.
- Added support for elements between *variablelist* and first *varlistentry* since DocBook 4.2 supports that now.

## 18 Release 1.60.1

- The format of the *titlepage.templates.xml* files and the stylesheet that transforms them have been significantly changed. All of the attributes used to control the templates are now namespace qualified. So what used to be:

```
<t:titlepage element="article" wrapper="fo:block">
```

is now:

```
<t:titlepage t:element="article" t:wrapper="fo:block">
```

Attributes from other namespaces (including those that are unqualified) are now copied directly through. In practice, this means that the names that used to be ‘fo:’ qualified:

```
<title named-template="component.title"
  param:node="ancestor-or-self::article[1]"
  fo:text-align="center"
  fo:keep-with-next="always"
  fo:font-size="&hsize5;"
  fo:font-weight="bold"
  fo:font-family="{ $title.font.family }"/>
```

are now unqualified:

```
<title t:named-template="component.title"
  param:node="ancestor-or-self::article[1]"
  text-align="center"
  keep-with-next="always"
  font-size="&hsize5;"
  font-weight="bold"
  font-family="{ $title.font.family }"/>
```

The *t:titlepage* and *t:titlepage-content* elements both generate wrappers now. And unqualified attributes on those elements are passed through. This means that you can now make the title font apply to an entire titlepage and make the entire ‘recto’ titlepage centered by specifying the font and alignment on those elements:

```
<t:titlepage t:element="article" t:wrapper="fo:block"
  font-family="{ $title.font.family }">

  <t:titlepage-content t:side="recto"
    text-align="center">
```

- Support use of *titleabbrev* in running headers and footers.
- Added (experimental) *xref.with.number.and.title* parameter to enable number/title cross references even when the default would be just the number.
- Generate part ToCs if they’re requested.
- Use *proportional-column-width()* in header/footer tables.
- Handle alignment correctly when *screenshot* wraps a graphic in a figure.
- Format chapter and appendix cross references consistently.

- Attempt to support tables with multiple `tgroups` in FO.
- Output `fo:table-columns` in `simplelist` tables.
- Use `titlepage.templates.xml` for `indexdiv` and `glossdiv` formatting.
- Improve support for new bibliography elements.
- Added `footnote.number.format`, `table.footnote.number.format`, `footnote.number.symbols`, and `table.footnote.number.symbols` for better control of footnote markers.
- Added `glossentry.show.acronyms`.
- Suppress the draft-mode page masters when `draft-mode` is 'no'.
- Make blank pages verso not recto. D'Oh!
- Improved formatting of `ulink` footnotes.
- Fixed bugs in graphic width/height calculations.
- Added class attributes to inline elements.
- Don't add '.html' to the filenames identified with the 'dbhtml' PI.
- Don't force a ToC when sections contain `refentry`s.
- Make section title sizes a function of the `body.master.size`.

## 19 Release 1.59.2

- Removed the region-name from the region-body of blank pages. There's no reason to give the body of blank pages a unique name and doing so causes a mismatch that FOP detects.
- Output IDs for the first paragraphs in `listitems`.
- Fixed some small bugs in the handling of page numbers in double-sided mode.
- Attempt to prevent duplicated IDs from being produced when `endterm` on `xref` points to something with nested structure.
- Fix alignment problems in `equations`.
- Output the `type` attribute on unordered lists (UL) in HTML only if the `css.decoration` parameter is true.
- Calculate the font size in `formal.title.properties` so that it's 1.2 times the base font size, not a fixed "12pt".

## 20 Release 1.59.1

- Added Bulgarian localization.
  - Indexing improvements; localize book indexes to books but allow `setindex` to index an entire set.
  - The default value for `rowsep` and `colsep` is now "1" as per CALS.
  - Added support for `titleabbrev` (use them for cross references).
  - Improvements to `mediaobject` for selecting print vs. online images.
  - Added separate property sets for `figures`, `examples`, `equations`, `tableless`, and `procedures`.
  - Make `lineannotations` italic.
  - Support `xrefstyle` attribute.
  - Make `endterm` on `xref` higher priority than `xreflabel` target.
  - Glossary formatting improvements.
-

## 21 Release 1.58.0

- This release contains the first attempt at extension support for `xsltproc`. The only extension available to date is the one that adjusts table column widths. Run `extensions/xsltproc/python/xslt.py`.
- Fixed bugs in calculation of adjusted column widths to correct for rounding errors.
- Support nested `refsection` elements correctly.
- Reworked `gentext.template` to take context into consideration. The name of elements in localization files is now an xpath-like context list, not just a simple name.
- Made some improvements to bibliography formatting.
- Improved graphical formatting of admonitions.
- Added support for `entrytbl`.
- Support spanning index terms.
- Support `bibliosource`.

## 22 Release 1.57.0

- The 1.57.0 release wasn't documented here. Oops.

## 23 Release 1.56.0

- Reworked chunking. *This will break all existing customizations layers that change the chunking algorithm.* If you're customizing chunking, look at the new 'content' parameter that's passed to `process-chunk-element` and friends.
- Support continued and inherited numeration in `orderedlist` formatting for FOs.
- Added Thai localization.
- Tweaked stylesheet documentation stylesheets to link to TDG and the parameter references.
- Allow title on tables of contents ("Table of Contents") to be optional. Added new keyword to `generate.toc`. Support tables of contents on sections.
- Made separate parameters for table borders and table cell borders: `table.frame.border.color`, `table.frame.border-style`, `table.frame.border.thickness`, `table.cell.border.color`, `table.cell.border.style`, and `table-cell.border.thickness`.
- Suppress formatting of 'endofrange' `indexterms`. This is only half-right. They should generate a range, but I haven't figured out how to do that yet.
- Support `revdescription`. (Bug #582192)
- Added `default.float.class` and fixed figure floats. (Bug #497603)
- Fixed formatting of `sbr` in FOs.
- Added context to the 'missing template' error message.
- Process `arg` correctly in a `group`. (Bug #605150)
- Removed 'keep-with-next' from `formal.title.properties` attribute set now that the stylesheets support the option of putting such titles below the object. Now the `$placement` value determines if 'keep-with-next' or 'keep-with-previous' is used in the title block.

- Wrap `'url()'` around external-destinations when appropriate.
- Fixed typo in compact list spacing. (Bug #615464)
- Removed spurious hash in anchor name. (Bug #617717)
- Address is now displayed verbatim on title pages. (Bug #618600)
- The `bridgehead.in.toc` parameter is now properly supported.
- Improved effectiveness of HTML cleanup by increasing the number of places where it is used. Improve use of HTML cleanup in XHTML stylesheets.
- Support table of contents for appendix in article. (Bug #596599)
- Don't duplicate footnotes in bibliographys and glossarys. (Bug #583282)
- Added `default.image.width`. (Bug #516859)
- Totally reworked `funcsynopsis` code; it now supports a 'tabular' presentation style for 'wide' prototypes; see `funcsynopsis.tabular.threshold`. (HTML only right now, I think, FO support, uh, real soon now.)
- Reworked support for difference marking; toned down the colors a bit and added a 'system.head.content' template so that the diff CSS wasn't overriding 'user.head.content'. (Bug #610660)
- Added call to the `'*.head.content'` elements when writing out long description chunks.
- Make sure `legalnotice` link is correct even when chunking to a different `base.dir`.
- Use CSS to set viewport characteristics if `css.decoration` is non-zero, use `div` instead of `p` for making graphic a block element; make figure titles the default alt text for images in a figure.
- Added space-after to `list.block.spacing`.
- Reworked `section.level` template to give 'correct' answer instead of being off by one.
- When processing tables, use the `tabstyle` attribute as the division class.
- Fixed bug in `html2xhtml.xsl` that was causing the XHTML chunker to output HTML instead of XHTML.

## 24 Older releases

To view the release notes for older releases, see <http://cvs.sourceforge.net/viewcvs.py/docbook/xsl/RELEASE-NOTES.xml>. Be aware that there were no release notes for releases prior to the 1.50.0 release.

## 25 About dot-zero releases

DocBook Project 'dot zero' releases should be considered *experimental* and are always followed by stable 'dot one' releases, usually within two or three weeks. Please help to ensure the stability of 'dot one' releases by carefully testing each 'dot zero' release and reporting back about any problems you find.

It is not recommended that you use a 'dot zero' release in a production system, or package it for an OS distro. Instead, you should wait for the 'dot one' version.

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