Release Notes for the DocBook XSL Stylesheets

Contents

Abstract

This release-notes document is available in the following formats: HTML, PDF, plain text; it provides a per-release list of enhancements and changes to the stylesheets' public APIs (user-configurable parameters) and excludes descriptions of most 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. Also available: An online hyperlinked change history (warning: big file) of all changes made over the entire history of the codebase.

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

As with all DocBook Project "dot one plus" releases, this release aspires to be stable (in contrast to dot-zero releases, which are experimental).

This is a pre-release "snapshot" of the DocBook XSL Stylesheets. The change information in the first section of this file (for "Release Notes: 1.75.1") is auto-generated from change descriptions stored in the project source-code repository.

That means the first section contains descriptions both of bug fixes and of feature changes. The remaining sections are manually edited changelog subsets that exclude bug-fix descriptions – that is, trimmed down to just those those descriptions that document enhancements and changes to the public APIs (user-configurable parameters).

1   Release Notes: 1.75.1

The following is a list of changes that have been made since the 1.75.0 release.

1.1   FO

The following changes have been made to the `fo` code since the 1.75.0 release.

- Keith Fahlgren: block.xsl

  Switching to em dash for character before attribution in epigraph; resolves Bug #2793878

- Robert Stayton: lists.xsl

  Fixed bug 2789947, id attribute missing on simplelist fo output.

1.2   HTML

The following changes have been made to the `html` code since the 1.75.0 release.

- Keith Fahlgren: block.xsl

  Switching to em dash for character before attribution in epigraph; resolves Bug #2793878

- Robert Stayton: lists.xsl

  Fixed bug 2789678: apply-templates line accidentally deleted.

1.3   Epub

The following changes have been made to the `epub` code since the 1.75.0 release.

- Keith Fahlgren: bin/spec/epub_regressions_spec.rb; docbook.xsl

  Added regression and fix to correct "bug" with namespace-prefixed container elements in ↩
      META-INF/container.xml ; resolves Issue #2790017

- Keith Fahlgren: bin/spec/epub_regressions_spec.rb; bin/spec/files/onegraphic.xinclude.xml;⋯

  Another attempt at flexible named entity and XInclude processing

- Keith Fahlgren: bin/lib/docbook.rb

  Tweaking solution to Bug #2750442 following regression reported by Michael Wiedmann.

1.4   Params

The following changes have been made to the `params` code since the 1.75.0 release.

- Mauritz Jeanson: highlight.source.xml

  Updated documentation to reflect changes made in r8419.

2 Release Notes: 1.75.1

This release includes bug fixes.

The following is a list of changes that have been made since the 1.75.0 release.

2.1 FO

The following changes have been made to the `fo` code since the 1.75.0 release.

- Keith Fahlgren: block.xsl

  ```
  Switching to em dash for character before attribution in epigraph; resolves Bug #2793878
  ```

- Robert Stayton: lists.xsl

  ```
  Fixed bug 2789947, id attribute missing on simplelist fo output.
  ```

2.2 HTML

The following changes have been made to the `html` code since the 1.75.0 release.

- Keith Fahlgren: block.xsl

  ```
  Switching to em dash for character before attribution in epigraph; resolves Bug #2793878
  ```

- Robert Stayton: lists.xsl

  ```
  Fixed bug 2789678: apply-templates line accidentally deleted.
  ```

2.3 Epub

The following changes have been made to the `epub` code since the 1.75.0 release.

- Keith Fahlgren: bin/spec/epub_regressions_spec.rb; docbook.xsl

  ```
  Added regression and fix to correct "bug" with namespace-prefixed container elements in  ←
      META-INF/container.xml ; resolves Issue #2790017
  ```

- Keith Fahlgren: bin/spec/epub_regressions_spec.rb; bin/spec/files/onegraphic.xinclude.xml;⋯

  ```
  Another attempt at flexible named entity and XInclude processing
  ```

- Keith Fahlgren: bin/lib/docbook.rb

  ```
  Tweaking solution to Bug #2750442 following regression reported by Michael Wiedmann.
  ```

2.4 Params

The following changes have been made to the `params` code since the 1.75.0 release.

- Mauritz Jeanson: highlight.source.xml

  ```
  Updated documentation to reflect changes made in r8419.
  ```

3 Release Notes: 1.75.0

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

Gentext

Modifications to translations have been made.

Common

Added support for some format properties on tables using HTML `table` markup.

Added two new `qanda.defaultlabel` values so that numbered sections and numbered questions can be distinguished. Satisfies Feature Request #1539045.

Added code to handle `acknowledgements` in `book` and part. The element is processed similarly to `dedication`. All `acknowledgements` will appear as front matter, after any dedications.

FO

The inclusion of highlighting code has been simplified.

Add support for pgwide on informal objects.

Added a new parameter, `bookmarks.collapse`, that controls the initial `state` of the bookmark tree. Closes FR #1792326.

Add support for more dbfo processing instructions.

Add new `variablelist.term.properties` to format terms, per request # 1968513.

Add support for @width on `screen` and `programlisting`, fixes bug #2012736.

Add support for writing-mode="rl-tb" (right-to-left) in FO outputs.

Add `writing.mode` param for FO output.

HTML

Convert all calls to class.attribute to calls to common.html.attributes to support dir, lang, and `title` attributes in html output for all elements. Fulfills feature request #1993833.

Inclusion of highlighting code was simplified. Only one import is now necessary.

Add new param `index.links.to.section`.

Add support for the new `index.links.to.section` param which permits precise links to indexterms in HTML output rather than to the `section title`.

ePub

Slightly more nuanced handling of `imageobject` alternatives and better support in dbtoepub for XIncludes and ENTITYs to resolve Issue #2750442 reported by Raphael Hertzog.

Added a colon after an `abstract`/`title` when mapping into the dc:description for OPF metadata in ePub output to help the flat text have more pseudo-semantics (sugestions from Michael Wiedmann)

Added DocBook `subjectset` -> OPF dc:`subject` mapping and tests

Added DocBook `date` -> OPF dc:date mapping and tests

Added DocBook `abstract` -> OPF dc:description mapping and tests

Added --output option to dbtoepub based on user request

HTMLHelp

Add support for generating `olink` target `database` for htmlhelp files.

Params

Add default setting for @rules attribute on HTML markup tables.

Added a new parameter, `bookmarks.collapse`, that controls the initial `state` of the bookmark tree. When the parameter has a non-zero value (the default), only the top-level bookmarks are displayed initially. Otherwise, the whole tree of bookmarks is displayed. This is implemented for FOP 0.9X. Closes FR #1792326.

Add new `variablelist.term.properties` to format terms, per request # 1968513.

Add two new *qanda.defaultlabel* values so that numbered sections and numbered questions can be distinguished. Satisfies Feature Request #1539045.

Add param to control whether an `index entry` links to a `section title` or to the precise location of the `indexterm`.

New attribute list for `glossentry` in `glossary`.

New parameter to support @width on `programlisting` and `screen`.

Add attribute-sets for formatting `glossary` terms and defs.

Highlighting

Inclusion of highlighting code was simplified. Only one import is now necessary.

The following is a list of changes that have been made since the 1.74.3 release.

3.1 Gentext

The following changes have been made to the `gentext` code since the 1.74.3 release.

- Robert Stayton: locale/sv.xml; locale/ja.xml; locale/pl.xml

  ```
  Check in translations of Legalnotice submitted on mailing list.
  ```

- Robert Stayton: locale/es.xml

  ```
  Fix spelling errors in Acknowledgements entries.
  ```

- Robert Stayton: locale/es.xml

  ```
  Check in translations for 4 elements submitted through docbook-apps
  message of 14 April 2009.
  ```

- David Cramer: locale/zh.xml; locale/ca.xml; locale/ru.xml; locale/ga.xml; locale/gl.xml; l···

  ```
  Internationalized punctuation in glosssee and glossseealso
  ```

- Robert Stayton: Makefile

  ```
  Check in fixes for DSSSL gentext targets from submitted patch #1689633.
  ```

- Robert Stayton: locale/uk.xml

  ```
  Check in major update submitted with bug report #2008524.
  ```

- Robert Stayton: locale/zh_tw.xml

  ```
  Check in fix to Note string submitted in bug #2441051.
  ```

- Robert Stayton: locale/ru.xml

  ```
  Checkin typo fix submitted in bug #2453406.
  ```

3.2 Common

The following changes have been made to the `common` code since the 1.74.3 release.

- Robert Stayton: gentext.xsl

  Fix extra generated space when xrefstyle includes 'nopage'.

- Robert Stayton: table.xsl

  ```
  Add support for some format properties on tables using
  HTML table markup.  These include:
    - frame attribute on table (or uses $default.table.frame parameter).
    - rules attribute on table (or uses $default.table.rules parameter).
    - align attribute on td and th
    - valign attribute on td and th
    - colspan on td and th
    - rowspan on td and th
    - bgcolor on td and th
  ```

- Robert Stayton: olink.xsl

  ```
  Add placeholder template to massage olink hot text to make
  customization easier, per Feature Request 1828608.
  ```

- Robert Stayton: targets.xsl

  ```
  Add support for collecting olink targets from a glossary
  generated from a glossary.collection.
  ```

- Robert Stayton: titles.xsl

  Handle firstterm like glossterm in mode="title.markup".

- Robert Stayton: titles.xsl

  Add match on info/title in title.markup templates where missing.

- Mauritz Jeanson: titles.xsl

  ```
  Changed "ancestor::title" to "(ancestor::title and (@id or @xml:id))".
  This enables proper formatting of inline elements in titles in TOCs,
  as long as these inlines don't have id or xml:id attributes.
  ```

- Robert Stayton: labels.xsl

  ```
  Add two new qanda.defaultlabel values so that numbered sections
  and numbered questions can be distinguished.  Satisfies
  Feature Request #1539045.
  ```

- Robert Stayton: stripns.xsl; pi.xsl

  ```
  Convert function-available(exsl:node-set) to use the new param
  so Xalan bug is isolated.
  ```

- Mauritz Jeanson: titles.xsl

  ```
  Added fixes for bugs #2112656 and #1759205:
  1. Reverted mistaken commits r7485 and r7523.
  2. Updated the template with match="link" and mode="no.anchor.mode" so that
  @endterm is used if it exists and if the link has no content.
  ```

- Mauritz Jeanson: `titles.xsl`

  Added code to handle acknowledgements in book and part. The element is processed
  similarly to dedication. All acknowledgements will appear as front matter, after
  any dedications.

- Robert Stayton: `olink.xsl`

  Fix bug #2018717 use.local.olink.style uses wrong gentext context.

- Robert Stayton: `olink.xsl`

  Fix bug #1787167 incorrect hot text for some olinks.

- Robert Stayton: `common.xsl`

  Fix bug #1669654 Broken output if copyright <year> contains a range.

- Robert Stayton: `labels.xsl`

  Fix bug in labelling figure inside appendix inside article inside book.

3.3 FO

The following changes have been made to the `fo` code since the 1.74.3 release.

- Jirka Kosek: `highlight.xsl`

  Inclusion of highlighting code was simplified. Only one import is now necessary.

- Robert Stayton: `fop1.xsl`

  Add the new fop extensions namespace declaration, in case FOP
  extension functions are used.

- Robert Stayton: `formal.xsl`

  Add support for pgwide on informal objects.

- Robert Stayton: `docbook.xsl`

  Fixed spurious closing quote on line 134.

- Robert Stayton: `docbook.xsl; autoidx-kosek.xsl; autoidx.xsl`

  Convert function-available for node-set() to use
  new $exsl.node.set.available param in test.

- David Cramer: `xref.xsl`

  Suppress extra space after xref when xrefstyle='select: label nopage' (#2740472)

- Mauritz Jeanson: `pi.xsl`

  Fixed doc bug for row-height.

- David Cramer: `glossary.xsl`

```
Internationalized punctuation in glosssee and glossseealso
```

- Robert Stayton: param.xweb; param.ent; htmltbl.xsl; table.xsl

```
Add support for some format properties on tables using
HTML table markup.  These include:
  - frame attribute on table (or uses $default.table.frame parameter).
  - rules attribute on table (or uses $default.table.rules parameter).
  - align attribute on td and th
  - valign attribute on td and th
  - colspan on td and th
  - rowspan on td and th
  - bgcolor on td and th
```

- Robert Stayton: table.xsl

```
Add support bgcolor in td and th
elements in HTML table markup.
```

- Robert Stayton: htmltbl.xsl

```
Add support for colspan and rowspan and bgcolor in td and th
elements in HTML table markup.
```

- Robert Stayton: param.xweb

```
Fix working of page-master left and right margins.
```

- Mauritz Jeanson: param.xweb; param.ent; fop1.xsl

```
Added a new parameter, bookmarks.collapse, that controls the initial state of the bookmark ←
    tree. When the parameter has a non-zero value (the default), only the top-level  ←
   bookmarks are displayed initially. Otherwise, the whole tree of bookmarks is displayed ←
    .  This is implemented for FOP 0.9X. Closes FR #1792326.
```

- Robert Stayton: table.xsl; pi.xsl

```
Add support for dbfo row-height processing instruction, like that in dbhtml.
```

- Robert Stayton: lists.xsl

```
Add support for dbfo keep-together processing instruction for
entire list instances.
```

- Robert Stayton: lists.xsl; block.xsl

```
Add support fo dbfo keep-together processing instruction to
more blocks like list items and paras.
```

- Robert Stayton: lists.xsl; param.xweb; param.ent

```
Add new variablelist.term.properties to format terms, per request # 1968513.
```

- Robert Stayton: inline.xsl

```
In simple.xlink, rearrange order of processing.
```

- Robert Stayton: xref.xsl

```
Handle firstterm like glossterm in mode="xref-to".
```

- Robert Stayton: glossary.xsl; xref.xsl; pi.xsl; footnote.xsl

```
Implement simple.xlink for glosssee and glossseealso so they can use
other types of linking besides otherterm.
```

- Robert Stayton: qandaset.xsl

```
Add two new qanda.defaultlabel values so that numbered sections and numbered questions can ↩
    be distinguished.  Satisfies Feature Request #1539045.
```

- Robert Stayton: titlepage.xsl

```
For the book title templates, I changed info/title to book/info/title
so other element's titles will not be affected.
```

- Robert Stayton: xref.xsl; verbatim.xsl

```
Use param exsl.node.set.available to test for function.
```

- Robert Stayton: param.xweb; param.ent; footnote.xsl

```
Start using new param exsl.node.set.available to work around Xalan bug.
```

- Robert Stayton: titlepage.templates.xml

```
Add comment on use of t:predicate for editor to prevent
extra processing of multiple editors. Fixes bug 2687842.
```

- Robert Stayton: xref.xsl; autoidx.xsl

```
An indexterm primary, secondary, or tertiary element with an id or xml:id
now outputs that ID, so that index entries can be cross referenced to.
```

- Mauritz Jeanson: synop.xsl

```
Added modeless template for ooclass|oointerface|ooexception.
Closes bug #1623468.
```

- Robert Stayton: xref.xsl

```
Add template with match on indexterm in mode="xref-to" to fix bug 2102592.
```

- Robert Stayton: xref.xsl

```
Now xref to qandaentry will use the label element in a question for
the link text if it has one.
```

- Robert Stayton: inline.xsl

```
Add id if specified from @id to output for quote and phrase so
they can be xref'ed to.
```

- Robert Stayton: xref.xsl

```
Add support for xref to phrase, simpara, anchor, and quote.
This assumes the author specifies something using xrefstyle since
the elements don't have ordinary link text.
```

- Robert Stayton: `toc.xsl`

  Fix bug in new toc templates.

- Mauritz Jeanson: `titlepage.xsl; component.xsl; division.xsl; xref.xsl; titlepage.templates...`

  Added code to handle acknowledgements in book and part. The element is processed
  similarly to dedication. All acknowledgements will appear as front matter, after
  any dedications.

- Robert Stayton: `toc.xsl`

  Rewrite toc templates to support an empty toc or populated toc
  in all permitted contexts. Same for lot elements.
  This fixes bug #1595969 for FO outputs.

- Robert Stayton: `index.xsl`

  Fix indents for seealsoie so they are consistent.

- Mauritz Jeanson: `param.xweb`

  Removed duplicate (monospace.font.family).

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

  Add glossentry.list.item.properties.

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

  Add monospace.verbatim.font.width param to support @width on programlisting.

- Robert Stayton: `verbatim.xsl`

  Put programlisting in fo:block-container with writing-mode="lr-tb"
  when text direction is right to left because all program languages
  are left-to-right.

- Robert Stayton: `verbatim.xsl`

  Add support for @width on screen and programlisting, fixes bug #2012736.

- Robert Stayton: `xref.xsl`

  Fix bug #1973585 xref to para with xrefstyle not handled correctly.

- Mauritz Jeanson: `block.xsl`

  Added support for acknowledgements in article.
  Support in book/part remains to be added.

- Robert Stayton: `xref.xsl`

  Fix bug #1787167 incorrect hot text for some olinks.

- Robert Stayton: `fo.xsl`

  Add writing-mode="tb-rl" as well since some XSL-FO processors support it.

- Robert Stayton: autotoc.xsl; lists.xsl; glossary.xsl; fo.xsl; table.xsl; pagesetup.xsl

  ```
  Add support for writing-mode="rl-tb" (right-to-left) in FO outputs.
  Changed instances of margin-left to margin-{$direction.align.start}
  and margin-right to margin-{$direction.align.end}. Those direction.align
  params are computed from the writing mode value in each locale's
  gentext key named 'writing-mode', introduced in 1.74.3 to add
  right-to-left support to HTML outputs.
  ```

- Robert Stayton: param.xweb; param.ent

  ```
  Add attribute-sets for formatting glossary terms and defs.
  ```

- Robert Stayton: param.xweb; param.ent

  ```
  Add writing.mode param for FO output.
  ```

- Robert Stayton: autotoc.xsl

  ```
  Fix bug 1546008: in qandaentry in a TOC, use its blockinfo/titleabbrev or blockinfo/title
  instead of question, if available. For DocBook 5, use the info versions.
  ```

- Keith Fahlgren: verbatim.xsl

  ```
  Add better pointer to README for XSLTHL
  ```

- Keith Fahlgren: verbatim.xsl

  ```
  More tweaking the way that XSLTHL does or does not get called
  ```

- Keith Fahlgren: verbatim.xsl

  ```
  Alternate attempt at sanely including/excluding XSLTHT code
  ```

3.4 HTML

The following changes have been made to the `html` code since the 1.74.3 release.

- Robert Stayton: lists.xsl

  ```
  Removed redundant lang and title attributes on list element inside
  div element for lists.
  ```

- Robert Stayton: inline.xsl; titlepage.xsl; division.xsl; toc.xsl; sections.xsl; table.xsl;···

  ```
  Convert all calls to class.attribute to calls to common.html.attributes
  to support dir, lang, and title attributes in html output for all elements.
  Fulfills feature request #1993833.
  ```

- Robert Stayton: chunk-common.xsl

  ```
  Fix bug #2750253 wrong links in list of figures in chunk.html
  when target html is in a subdirectory and dbhtml filename used.
  ```

- Jirka Kosek: highlight.xsl

  ```
  Inclusion of highlighting code was simplified. Only one import is now necessary.
  ```

- Robert Stayton: chunk-common.xsl; chunktoc.xsl; docbook.xsl; chunk-changebars.xsl; autoidx···

  ```
  Convert function-available for node-set() to use
  new $exsl.node.set.available param in test.
  ```

- Mauritz Jeanson: pi.xsl

  ```
  Fixed doc bug for row-height.
  ```

- David Cramer: glossary.xsl

  ```
  Internationalized punctuation in glosssee and glossseealso
  ```

- Robert Stayton: lists.xsl; html.xsl; block.xsl

  ```
  More elements get common.html.attributes.
  Added locale.html.attributes template which does the lang,
  dir, and title attributes, but not the class attribute
  (used on para, for example).
  ```

- Robert Stayton: lists.xsl

  ```
  Replace more literal class atts with mode="class.attribute" to support
  easier customization.
  ```

- Robert Stayton: glossary.xsl

  ```
  Support olinking in glosssee and glossseealso.
  ```

- Robert Stayton: inline.xsl

  ```
  In simple.xlink, rearrange order of processing.
  ```

- Robert Stayton: xref.xsl

  ```
  Handle firstterm like glossterm in mode="xref-to".
  ```

- Robert Stayton: lists.xsl; html.xsl; block.xsl

  ```
  Added template named common.html.attributes to output
  class, title, lang, and dir for most elements.
  Started adding it to some list and block elements.
  ```

- Robert Stayton: qandaset.xsl

  ```
  Add two new qanda.defaultlabel values so that numbered sections
  and numbered questions can be distinguished.  Satisfies
  Feature Request #1539045.
  ```

- Robert Stayton: param.xweb; chunk-code.xsl; param.ent; xref.xsl; chunkfast.xsl; verbatim.x···

  ```
  Use new param exsl.node.set.available to test, handles Xalan bug.
  ```

- Robert Stayton: autoidx.xsl

  ```
  Use named anchors for primary, secondary, and tertiary ids so
  duplicate entries with different ids can still have an id output.
  ```

- Robert Stayton: param.xweb; param.ent

Add new param index.links.to.section.

- Robert Stayton: xref.xsl; autoidx.xsl

  Pass through an id on primary, secondary, or tertiary to
  the index entry, so that one could link to an index entry.
  You can't link to the id on an indexterm because that is
  used to place the main anchor in the text flow.

- Robert Stayton: autoidx.xsl

  Add support for the new index.links.to.section param which permits
  precise links to indexterms in HTML output rather than to
  the section title.

- Mauritz Jeanson: synop.xsl

  Added modeless template for ooclass|oointerface|ooexception.
  Closes bug #1623468.

- Robert Stayton: qandaset.xsl

  Make sure a qandaset has an anchor, even when it has no title,
  because it may be referenced in a TOC or xref.
  Before, the anchor was output by the title, but there was no
  anchor if there was no title.

- Robert Stayton: xref.xsl

  Add a template for indexterm with mode="xref-to" to fix bug 2102592.

- Robert Stayton: xref.xsl

  Now xref to qandaentry will use the label element in a question for
  the link text if it has one.

- Robert Stayton: qandaset.xsl; html.xsl

  Create separate templates for computing label of question and answer
  in a qandaentry, so such can be used for the alt text of an xref
  to a qandaentry.

- Robert Stayton: inline.xsl; xref.xsl

  Now support xref to phrase, simpara, anchor, and quote,
  most useful when an xrefstyle is used.

- Robert Stayton: toc.xsl

  Rewrite toc templates to support an empty toc or populated toc
  in all permitted contexts. Same for lot elements.
  This fixes bug #1595969 for HTML outputs.

- Mauritz Jeanson: titlepage.xsl; component.xsl; division.xsl; xref.xsl; titlepage.templates···

  Added code to handle acknowledgements in book and part. The element is processed
  similarly to dedication. All acknowledgements will appear as front matter, after
  any dedications.

- Robert Stayton: index.xsl

  Rewrote primaryie, secondaryie and tertiaryie templates to handle
  nesting of elements and seeie and seealsoie, as reported in
  bug # 1168912.

- Robert Stayton: autotoc.xsl

  Fix simplesect in toc problem.

- Robert Stayton: verbatim.xsl

  Add support for @width per bug report #2012736.

- Robert Stayton: formal.xsl; htmltbl.xsl

  Fix bug #1787140 HTML tables not handling attributes correctly.

- Robert Stayton: param.xweb

  Move writing-mode param.

- Keith Fahlgren: refentry.xsl

  Remove a nesting of <p> inside <p> for refclass (made XHTML* invalid, made HTML silly)

- Robert Stayton: table.xsl

  Fix bug #1945872 to allow passthrough of colwidth values to
  HTML table when no tablecolumns.extension is available and
  when no instance of * appears in the table's colspecs.

- Mauritz Jeanson: block.xsl

  Added support for acknowledgements in article.
  Support in book/part remains to be added.

- Robert Stayton: chunk-common.xsl

  Fix bug #1787167 incorrect hot text for some olinks.

- Robert Stayton: qandaset.xsl

  Fix bug 1546008: in qandaentry in a TOC, use its blockinfo/titleabbrev or blockinfo/title
  instead of question, if available. For DocBook 5, use the info versions.

- Robert Stayton: chunktoc.xsl

  Add support for generating olink database when using chunktoc.xsl.

- Keith Fahlgren: verbatim.xsl

  Add better pointer to README for XSLTHL

- Keith Fahlgren: verbatim.xsl

  Another stab at fixing the stupid XSLTHT includes across processors (Saxon regression ↩
      reported by Sorin Ristache)

- Keith Fahlgren: `verbatim.xsl`

  ```
  More tweaking the way that XSLTHL does or does not get called
  ```

- Keith Fahlgren: `verbatim.xsl`

  ```
  Alternate attempt at sanely including/excluding XSLTHT code
  ```

3.5 Manpages

The following changes have been made to the `manpages` code since the 1.74.3 release.

- Robert Stayton: `table.xsl`

  ```
  Convert function-available test for node-set() function to
  test of $exsl.node.set.available param.
  ```

- Mauritz Jeanson: `lists.xsl`

  ```
  Added a template for bibliolist. Closes bug #1815916.
  ```

3.6 ePub

The following changes have been made to the `epub` code since the 1.74.3 release.

- Keith Fahlgren: `bin/spec/epub_regressions_spec.rb; bin/spec/files/onegraphic.xinclude.xml;···`

  ```
  Slightly more nuanced handling of imageobject alternatives and better support in dbtoepub ↩
      for XIncludes and ENTITYs to resolve Issue #2750442 reported by Raphael Hertzog.
  ```

- Keith Fahlgren: `docbook.xsl`

  ```
  Add a colon after an abstract/title when mapping into the dc:description for OPF metadata ↩
      in ePub output to help the flat text have more pseudo-semantics (sugestions from ↩
      Michael Wiedmann)
  ```

- Keith Fahlgren: `bin/spec/epub_regressions_spec.rb; docbook.xsl; bin/spec/files/de.xml`

  ```
  Correctly set dc:language in OPF metadata when i18nizing. Closes Bug #2755150
  ```

- Keith Fahlgren: `bin/spec/epub_regressions_spec.rb; docbook.xsl`

  ```
  Corrected namespace declarations for literal XHTML elements to make them serialize " ↩
      normally"
  ```

- Keith Fahlgren: `docbook.xsl`

  ```
  Be a little bit more nuanced about dates
  ```

- Keith Fahlgren: `docbook.xsl; bin/spec/epub_realbook_spec.rb; bin/spec/files/orm.book.001.x···`

  ```
  Add DocBook subjectset -> OPF dc:subject mapping and tests
  ```

- Keith Fahlgren: `docbook.xsl; bin/spec/epub_realbook_spec.rb; bin/spec/files/orm.book.001.x···`

  ```
  Add DocBook date -> OPF dc:date mapping and tests
  ```

- Keith Fahlgren: docbook.xsl; bin/spec/epub_realbook_spec.rb; bin/spec/files/orm.book.001.x···

  ```
  Add DocBook abstract -> OPF dc:description mapping and tests
  ```

- Robert Stayton: docbook.xsl

  ```
  Check in patch submitted by user to add opf:file-as attribute
  to dc:creator element.
  ```

- Keith Fahlgren: bin/dbtoepub

  ```
  Adding --output option to dbtoepub based on user request
  ```

- Keith Fahlgren: docbook.xsl; bin/spec/epub_spec.rb

  ```
  Cleaning and regularizing the generation of namespaced nodes for OPF, NCX, XHTML and other ↩
      outputted filetypes (hat tip to bobstayton for pointing out the silly, incorrect code ↩
      )
  ```

- Keith Fahlgren: bin/spec/epub_regressions_spec.rb; bin/spec/files/refclass.xml

  ```
  Remove a nesting of <p> inside <p> for refclass (made XHTML* invalid, made HTML silly)
  ```

- Keith Fahlgren: bin/spec/epub_regressions_spec.rb; bin/spec/files/blockquotepre.xml

  ```
  Added regression test and fix for XHTML validation problem with <a>s added inside < ↩
      blockquote>; This potentially causes another problem (where something is referenced by ↩
       has no anchor, but someone reporting that should cause the whole <a id='thing'/>  ↩
      thing to be reconsidered with modern browsers in mind.
  ```

3.7 HTMLHelp

The following changes have been made to the `htmlhelp` code since the 1.74.3 release.

- Robert Stayton: htmlhelp-common.xsl

  ```
  Add support for generating olink target database for htmlhelp files.
  ```

3.8 Params

The following changes have been made to the `params` code since the 1.74.3 release.

- Robert Stayton: default.table.rules.xml

  ```
  Add default setting for @rules attribute on HTML markup tables.
  ```

- Mauritz Jeanson: bookmarks.collapse.xml

  ```
  Added a new parameter, bookmarks.collapse, that controls the initial state
  of the bookmark tree. When the parameter has a non-zero value (the default),
  only the top-level bookmarks are displayed initially. Otherwise, the whole
  tree of bookmarks is displayed.

  This is implemented for FOP 0.9X. Closes FR #1792326.
  ```

- Robert Stayton: variablelist.term.properties.xml

```
Add new variablelist.term.properties to format terms, per
request # 1968513.
```

- Robert Stayton: qanda.defaultlabel.xml

```
Add two new qanda.defaultlabel values so that numbered sections
and numbered questions can be distinguished.  Satisfies
Feature Request #1539045.
```

- Robert Stayton: index.links.to.section.xml

```
Change default to 1 to match past behavior.
```

- Robert Stayton: exsl.node.set.available.xml

```
Isolate this text for Xalan bug regarding exsl:node-set available.
If it is ever fixed in Xalan, just fix it here.
```

- Robert Stayton: index.links.to.section.xml

```
Add param to control whether an index entry links to
a section title or to the precise location of the
indexterm.
```

- Robert Stayton: glossentry.list.item.properties.xml

```
New attribute list for glossentry in glossary.
```

- Robert Stayton: monospace.verbatim.font.width.xml

```
New parameter to support @width on programlisting and screen.
```

- Mauritz Jeanson: highlight.source.xml

```
Updated and reorganized the description.
```

- Robert Stayton: page.margin.outer.xml; page.margin.inner.xml

```
Add caveat about XEP bug when writing-mode is right-to-left.
```

- Robert Stayton: article.appendix.title.properties.xml; writing.mode.xml; body.start.indent⋯

```
Change 'left' to 'start' and 'right' to 'end' to support right-to-left
writing mode.
```

- Robert Stayton: glossdef.block.properties.xml; glossdef.list.properties.xml; glossterm.blo⋯

```
Add attribute-sets for formatting glossary terms and defs.
```

- Robert Stayton: glossterm.separation.xml

```
Clarify the description.
```

- Robert Stayton: make.year.ranges.xml

```
Now handles year element containing a comma or dash without error.
```

3.9 Highlighting

The following changes have been made to the `highlighting` code since the 1.74.3 release.

- `Jirka Kosek:  README`

  `Inclusion of highlighting code was simplified. Only one import is now necessary.`

- `Keith Fahlgren:  README`

  `Adding XSLTHL readme`

- `Keith Fahlgren:  common.xsl`

  `Alternate attempt at sanely including/excluding XSLTHT code`

3.10 XSL-Saxon

The following changes have been made to the `xsl-saxon` code since the 1.74.3 release.

- `Mauritz Jeanson:  src/com/nwalsh/saxon/Text.java`

  ```
  Added a fix that prevents output of extra blank line.
  Hopefully this closes bug #894805.
  ```

3.11 XSL-Xalan

The following changes have been made to the `xsl-xalan` code since the 1.74.3 release.

- `Mauritz Jeanson:  src/com/nwalsh/xalan/Text.java`

  ```
  Added a fix that prevents output of extra blank line.
  Hopefully this closes bug #894805.
  ```

4 Release Notes: 1.74.3

This release fixes some bugs in the 1.74.2 release.

See `highlighting/README` for XSLTHL usage instructions.

5 Release Notes: 1.74.2

This release fixes some bugs in the 1.74.1 release.

6   Release Notes: 1.74.1

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

Gentext

> Kirghiz locale added and Chinese translations have been simplified.
> Somme support for gentext and right-to-left languages has been added.

FO

> Various bugs have been resolved.
> Support for a new processing instruction: dbfo funcsynopsis-style has been added.
> Added new param `email.mailto.enabled` for FO output. Patch from Paolo Borelli.
> Support for documented metadata in fop1 mode has been added.

Highlighting

> Support for the latest version of XSLTHL 2.0 and some new language syntaxes have been added to a variety of outputs.

Manpages

> Added man.output.better.ps.enabled param (zero default). It non-zero, no such markup is embedded in generated man pages, and no enhancements are included in the PostScript output generated from those man pages by the man -Tps `command`.

HTML

> Support for `writing.mode` to set text direction and `alignment` based on document locale has been added.
> Added a new top-level stylesheet module, chunk-changebars.xsl, to be used for generating chunked output with highlighting based on change (@revisionflag) markup. The module imports/includes the standard chunking and changebars templates and contains additional logic for chunked output. See FRs #1015180 and #1819915.

ePub

> Covers now look better in Adobe Digital Editions thanks to a patch from Paul Norton of Adobe
> Cover handling now more generic (including limited DocBook 5.0 cover support thanks to patch contributed by Liza Daly.
> Cover markup now carries more reliably into files destined for .mobi and the Kindle.
> dc:identifiers are now generated from more types of numbering schemes.
> Both SEO and semantic structure of chunked ePub output by ensuring that we always send out one and only one h1 in each XHTML chunk.
> Primitive support for embedding a single font added.
> Support for embedding a CSS customizations added.

Roundtrip

> Support for imagedata-metadata and `table` as images added.
> Support for imagedata-metadata and `legalnotice` as images added.

Params

> `man.output.better.ps.enabled` added for Manpages output
> `writing.mode.xml` added to set text direction.
> Added new param `email.mailto.enabled` for FO output. Patch from Paolo Borelli. Closes #2086321.
> `highlight.source` upgraded to support the latest version of XSLTHL 2.0.

The following is a list of changes that have been made since the 1.74.0 release.

6.1   Gentext

The following changes have been made to the `gentext` code since the 1.74.0 release.

• Michael(tm) Smith: locale/ky.xml; Makefile

```
new Kirghiz locale from Ilyas Bakirov
```

- Mauritz Jeanson: locale/en.xml

  ```
  Added "Acknowledgements".
  ```

- Dongsheng Song: locale/zh_cn.xml

  ```
  Simplified Chinese translation.
  ```

- Robert Stayton: locale/lv.xml; locale/ca.xml; locale/pt.xml; locale/tr.xml; locale/af.xml;···

  ```
  Add writing-mode gentext string to support right-to-left languages.
  ```

6.2 FO

The following changes have been made to the `fo` code since the 1.74.0 release.

- David Cramer: footnote.xsl

  ```
  Added a check to confirm that a footnoteref's linkend points to a footnote. Stylesheets  ←
      stop processing if not and provide a useful error message.
  ```

- Mauritz Jeanson: spaces.xsl

  ```
  Convert spaces to fo:leader also in elements in the DB 5 namespace.
  ```

- Mauritz Jeanson: pi.xsl; synop.xsl

  ```
  Added support for a new processing instruction: dbfo funcsynopsis-style.
  Closes bug #1838213.
  ```

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

  ```
  Added new param email.mailto.enabled for FO output.
  Patch from Paolo Borelli. Closes #2086321.
  ```

- Mauritz Jeanson: docbook.xsl

  ```
  Added support for document metadata for fop1 (patch #2067318).
  ```

- Jirka Kosek: param.ent; param.xweb; highlight.xsl

  ```
  Upgraded to support the latest version of XSLTHL 2.0
   -- nested markup in highlited code is now processed
   -- it is no longer needed to specify path XSLTHL configuration file using Java property
   -- support for new languages, including Perl, Python and Ruby was added
  ```

6.3 HTML

The following changes have been made to the `html` code since the 1.74.0 release.

- Robert Stayton: param.xweb; docbook.xsl; param.ent; html.xsl

  ```
  Add support for writing.mode to set text direction and alignment based on document locale.
  ```

- Mauritz Jeanson: chunk-changebars.xsl

  ```
  Added a new top-level stylesheet module, chunk-changebars.xsl, to be
  used for generating chunked output with highlighting based on change
  (@revisionflag) markup. The module imports/includes the standard chunking
  and changebars templates and contains additional logic for chunked output.
  See FRs #1015180 and #1819915.
  ```

6.4 Manpages

The following changes have been made to the `manpages` code since the 1.74.0 release.

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

```
Put the following at the top of generated roff for each page:
  \" t
purpose is to explicitly tell AT&T troff that the page needs to be
pre-processed through tbl(1); groff can figure it out
automatically, but apparently AT&T troff needs to be explicitly told
```

6.5 ePub

The following changes have been made to the `epub` code since the 1.74.0 release.

- `Keith Fahlgren:  docbook.xsl`

```
Patch from Paul Norton of Adobe to get covers to look better in Adobe Digital Editions
```

- `Keith Fahlgren:  bin/spec/epub_regressions_spec.rb; bin/spec/files/v5cover.xml; bin/spec/sp⋯`

```
Patch contributed by Liza Daly to make ePub cover handling more generic. Additionally
DocBook 5.0's <cover> now has some limited support:

- should reference a cover in the OPF guide for a DocBook 5.0 test document
```

- `Keith Fahlgren:  bin/spec/files/isbn.xml; bin/spec/files/issn.xml; bin/spec/files/biblioid.⋯`

```
Liza Daly reported that the dc:identifer-generation code was garbage (she was right).

Added new tests:
- should include at least one dc:identifier
- should include an ISBN as URN for dc:identifier if an ISBN was in the metadata
- should include an ISSN as URN for dc:identifier if an ISSN was in the metadata
- should include an biblioid as a dc:identifier if an biblioid was in the metadata
- should include a URN for a biblioid with @class attribute as a dc:identifier if an  ↩
    biblioid was in the metadata
```

- `Keith Fahlgren:  docbook.xsl; bin/spec/epub_spec.rb`

```
Improve both SEO and  semantic structure of chunked ePub output by ensuring that
we always send out one and only one h1 in each XHTML chunk.

DocBook::Epub
- should include one and only one <h1> in each HTML file in rendered ePub files
for <book>s
- should include one and only one <h1> in each HTML file in rendered ePub files
for <book>s even if they do not have section markup
```

- `Keith Fahlgren:  docbook.xsl; bin/spec/epub_realbook_spec.rb; bin/spec/files/orm.book.001.x⋯`

```
Adding better support for covers in epub files destined for .mobi and the Kindle
```

- `Keith Fahlgren:  bin/dbtoepub; bin/lib/docbook.rb; bin/spec/files/DejaVuSerif.otf; docbook.⋯`

```
Adding primitive support for embedding a single font
```

- Keith Fahlgren: bin/dbtoepub; bin/lib/docbook.rb; bin/spec/files/test_cust.xsl; bin/spec/e⋯

  ```
  Adding support for user-specified customization layers in dbtoepub
  ```

- Keith Fahlgren: bin/dbtoepub; bin/spec/epub_regressions_spec.rb; bin/lib/docbook.rb; bin/s⋯

  ```
  Adding CSS support to .epub target & dbtoepub:
      -c, --css [FILE]                Use FILE for CSS on generated XHTML.



  DocBook::Epub
  ...
  - should include a CSS link in HTML files when a CSS file has been provided
  - should include CSS file in .epub when a CSS file has been provided
  - should include a CSS link in OPF file when a CSS file has been provided
  ```

6.6 Roundtrip

The following changes have been made to the `roundtrip` code since the 1.74.0 release.

- Steve Ball: blocks2dbk.xsl; template.xml; template.dot

  ```
  added support for imagedata-metadata
  added support for table as images
  ```

- Steve Ball: blocks2dbk.xsl; normalise2sections.xsl; sections2blocks.xsl

  ```
  Improved support for personname inlines.
  ```

- Steve Ball: blocks2dbk.xsl; blocks2dbk.dtd; template.xml

  ```
  Added support for legalnotice.
  ```

- Steve Ball: blocks2dbk.xsl; wordml2normalise.xsl

  ```
  added support for orgname in author
  ```

- Steve Ball: specifications.xml; supported.xml; blocks2dbk.xsl; wordml2normalise.xsl; dbk2w⋯

  ```
  Updated specification.
  to-DocBook: add cols attribute to tgroup
  from-DocBook: fix for blockquote title
  ```

6.7 Params

The following changes have been made to the `params` since the 1.74.0 release.

- The change was to add man.output.better.ps.enabled parameter, with its default value set to zero. If the value of the man.output.better.ps
  parameter is non-zero, certain markup is embedded in each generated man page such that PostScript output from the man
  -Tps `command` for that page will include a number of enhancements designed to improve the quality of that output. If
  man.output.better.ps.enabled is zero (the default), no such markup is embedded in generated man pages, and no enhance-
  ments are included in the PostScript output generated from those man pages by the man -Tps `command`. WARNING: The
  enhancements provided by this parameter rely on features that are specific to groff (GNU troff) and that are not part of "clas-
  sic" AT&T troff or any of its derivatives. Therefore, any man pages you generate with this parameter enabled will be readable
  only on systems on which the groff (GNU troff) program is installed, such as GNU/Linux systems. The pages will not not
  be readable on systems on with the classic troff (AT&T troff) `command` is installed. NOTE: The value of this parameter only
  affects PostScript output generated from the man `command`. It has no effect on output generated using the FO backend. `TIP`:
  You can generate PostScript output for any man page by running the following `command`: man FOO -Tps > FOO.ps You can
  then generate PDF output by running the following `command`: ps2pdf FOO.ps

- ```
  Robert Stayton:  writing.mode.xml
  ```

  ```
  writing mode param used to set text direction.
  ```

- ```
  Michael(tm) Smith:  email.mailto.enabled.xml
  ```

  ```
  Added new param email.mailto.enabled for FO output.
  Patch from Paolo Borelli. Closes #2086321.
  ```

- ```
  Jirka Kosek:  highlight.source.xml; highlight.xslthl.config.xml
  ```

  ```
  Upgraded to support the latest version of XSLTHL 2.0
   -- nested markup in highlited code is now processed
   -- it is no longer needed to specify path XSLTHL configuration file using Java property
   -- support for new languages, including Perl, Python and Ruby was added
  ```

6.8 Highlighting

The following changes have been made to the `highlighting` code since the 1.74.0 release.

- ```
  Jirka Kosek:  cpp-hl.xml; c-hl.xml; tcl-hl.xml; php-hl.xml; common.xsl; perl-hl.xml; delphi···
  ```

  ```
  Upgraded to support the latest version of XSLTHL 2.0
   -- nested markup in highlited code is now processed
   -- it is no longer needed to specify path XSLTHL configuration file using Java property
   -- support for new languages, including Perl, Python and Ruby was added
  ```

7 Release Notes: 1.74.0

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

.epub target
> Paul Norton (Adobe) and Keith Fahlgren(O'Reilly Media) have donated code that generates `.epub` documents from DocBook input. An alpha-reference implementation in Ruby has also been provided.
>
> .epub is an open standard of the The International Digital Publishing Forum (IDPF), a the trade and standards association for the digital publishing industry.
>
> Read more about this target in `epub/README`

XHTML 1.1 target
> To support .epub output, a strict XHTML 1.1 target has been added. The stylesheets for this output are generated and are quite similar to the XHTML target.

Gentext updates
> A number of locales have been updated.

Roundtrip improvements
> Table, figure, template syncronization, and character style improvements have been made for WordML & Pages. Support added for OpenOffice.org.

First implementation of a libxslt extension
> A stylesheet extension for libxslt, written in Python, has been added. The extension is a function for adjusting column widths in CALS tables. See `extensions/README.LIBXSLT` for more information.

The following is a list of changes that have been made since the 1.73.2 release.

7.1   Gentext

The following changes have been made to the `gentext` code since the 1.73.2 release.

- `Michael(tm) Smith:  locale/id.xml`

  `Checked in changes to Indonesion locale submitted by Euis Luhuanam a long time ago.`

- `Michael(tm) Smith:  locale/lt.xml`

  `Added changes to Lithuanian locate submitted a long time back by Nikolajus Krauklis.`

- `Michael(tm) Smith:  locale/hu.xml`

  `fixed error in lowercase.alpha definition in Hungarian locale`

- `Michael(tm) Smith:  locale/nb.xml`

  `Corrected language code for nb locale, and restored missing "startquote" key.`

- `Michael(tm) Smith:  locale/ja.xml`

  `Committed changes to ja locale file, from Akagi Kobayashi. Adds bracket quotes around many ↩`
  `     xref instances that did not have them`
  `before.`

- `Michael(tm) Smith:  Makefile`

  `"no" locale is now "nb"`

- `Michael(tm) Smith:  locale/nb.xml`

  `Update Norwegian Bokmål translation. Thanks to Hans F. Nordhaug.`

- `Michael(tm) Smith:  locale/no.xml; locale/nb.xml`

  `per message from Hans F. Nordhaug, correct identifier for`
  `Norwegian Bokmål is "nb" (not "no") and has been for quite some`
  `time now...`

- `Michael(tm) Smith:  locale/ja.xml`

  `Converted ja.xml source file to use real unicode characters so`
  `that the actual glyphs so up when you edit it in a text editor`
  `(instead of the character references).`

- `Michael(tm) Smith:  locale/ja.xml`

  `Checked in changes to ja.xml locale file. Thanks to Akagi Kobayashi.`

- `Michael(tm) Smith:  locale/it.xml`

  `Changes from Federico Zenith`

- `Dongsheng Song:  locale/zh_cn.xml`

  `Added missing translations.`

7.2 Common

The following changes have been made to the `common` code since the 1.73.2 release.

- Michael(tm) Smith: l10n.xsl

  ```
  Added new template "l10.language.name" for retrieving the
  English-language name of the lang setting of the current document.
  Closes #1916837. Thanks to Simon Kennedy.
  ```

- Michael(tm) Smith: refentry.xsl

  ```
  fixed syntax error
  ```

- Michael(tm) Smith: refentry.xsl

  ```
  fixed a couple of typos
  ```

- Michael(tm) Smith: refentry.xsl

  ```
  refined handling of cases where refentry "source" or "manual"
  metadata is missing or when we use fallback content instead. We
  now report a Warning if we use fallback content.
  ```

- Michael(tm) Smith: refentry.xsl

  ```
  don't use refmiscinfo@class=date value as fallback for refentry
  "source" or "manual" metadata fields
  ```

- Michael(tm) Smith: refentry.xsl

  ```
  Made reporting of missing refentry metadata more quiet:

    - we no longer report anything if usable-but-not-preferred
      metadata is found; we just quietly use whatever we manage to
      find

    - we now only report missing "source" metadata if the refentry
      is missing BOTH "source name" and "version" metadata; if it
      has one but not the other, we use whichever one it has and
      don't report anything as missing

  The above changes were made because testing with some "real world"
  source reveals that some authors are intentionally choosing to use
  "non preferred" markup for some metadata, and also choosing to
  omit "source name" or "version" metadata in there DocBook XML. So
  it does no good to give them pedantic reminders about what they
  already know...

  Also, changed code to cause "fixme" text to be inserted in output
  in particular cases:

    - if we can't manage to find any "source" metadata at all, we
      now put fixme text into the output

    - if we can't manage to find any "manual" metadata a all, we
      now put fixme text into the output

  The "source" and "manual" metadata is necessary information, so
  buy putting the fixme stuff in the output, we alert users to the
  need problem of it being missing.
  ```

- Michael(tm) Smith: refentry.xsl

  When generating manpages output, we no longer report anything if
  the refentry source is missing date or pubdate content. In
  practice, many users intentionally omit the date from the source
  because they explicitly want it to be generated.

- Michael(tm) Smith: l10n.xml

  further change needed for switch from no locale to nb.

- Michael(tm) Smith: common.xsl

  Added support for orgname in authorgroup. Thanks to Camille
  Bégnis.

- Michael(tm) Smith: Makefile

  "no" locale is now "nb"

- Mauritz Jeanson: stripns.xsl

  Removed the template matching "ng:link|db:link" (in order to make @xlink:show
  work with <link> elements). As far as I can tell, this template is no longer needed.

- Mauritz Jeanson: entities.ent

  Moved declaration of comment.block.parents entity to common/entities.ent.

- Mauritz Jeanson: titles.xsl

  Added an update the fix made in revision 7528 (handling of xref/link in no.anchor.mode ↩
      mode).
  Having xref in title is not a problem as long as the target is not an ancestor element.
  Closes bug #1838136.

  Note that an xref that is in a title and whose target is an ancestor element is still not
  rendered in the TOC. This could be considered a bug, but on the other hand I cannot really
  see the point in having such an xref in a document.

- Mauritz Jeanson: titles.xsl

  Added a "not(ancestor::title)" test to work around "too many nested
  apply-templates" problems when processing xrefs or links in no.anchor.mode mode.
  Hopefully, this closes bug #1811721.

- Mauritz Jeanson: titles.xsl

  Removed old template matching "link" in no.anchor.mode mode.

- Mauritz Jeanson: titles.xsl

  Process <link> in no.anchor.mode mode with the same template as <xref>.
  Closes bug #1759205 (Empty link in no.anchor.mode mode).

- Mauritz Jeanson: titles.xsl

  In no.anchor.mode mode, do not output anchors for elements that are descendants
  of <title>. Previously, having inline elements with @id/@xml:id in <title>s
  resulted in anchors both in the TOC and in the main flow. Closes bug #1797492.

7.3 FO

The following changes have been made to the `fo` code since the 1.73.2 release.

- Mauritz Jeanson: `pi.xsl`

  ```
  Updated documentation for keep-together.
  ```

- Mauritz Jeanson: `task.xsl`

  ```
  Enabled use of the keep-together PI on task elements.
  ```

- Robert Stayton: `index.xsl`

  ```
  FOP1 requires fo:wrapper for inline index entries, not fo:inline.
  ```

- Robert Stayton: `index.xsl`

  ```
  Fixed non-working inline.or.block template for indexterm wrappers.
  Add fop1 to list of processors using inline.or.block.
  ```

- Mauritz Jeanson: `table.xsl`

  ```
  Fixed bug #1891965 (colsep in entytbl not working).
  ```

- Mauritz Jeanson: `titlepage.xsl`

  ```
  Added support for title in revhistory. Closes bug #1842847.
  ```

- Mauritz Jeanson: `pi.xsl`

  ```
  Small doc cleanup (dbfo float-type).
  ```

- Mauritz Jeanson: `titlepage.xsl`

  ```
  Insert commas between multiple copyright holders.
  ```

- Mauritz Jeanson: `autotoc.xsl; division.xsl`

  ```
  Added modifications to support nested set elements. See bug #1853172.
  ```

- David Cramer: `glossary.xsl`

  ```
  Added normalize-space to xsl:sorts to avoid missorting of glossterms due to stray leading  ←
      spaces.
  ```

- David Cramer: `glossary.xsl`

  ```
  Fixed bug #1854199: glossary.xsl should use the sortas attribute on glossentry
  ```

- Mauritz Jeanson: `inline.xsl`

  ```
  Added a template for citebiblioid. The hyperlink target is the parent of the referenced  ←
      biblioid,
  and the "hot text" is the biblioid itself enclosed in brackets.
  ```

- Mauritz Jeanson: `inline.xsl`

  ```
  Moved declaration of comment.block.parents entity to common/entities.ent.
  ```

- Mauritz Jeanson: docbook.xsl

  Updated message about unmatched element.

- Mauritz Jeanson: param.xweb

  Added link to profiling chapter of TCG.

- Mauritz Jeanson: refentry.xsl

  Fixed typo (refsynopsysdiv -> refsynopsisdiv).

- David Cramer: fop.xsl; fop1.xsl; ptc.xsl; xep.xsl

  Added test to check generate.index param when generating pdf bookmarks

- Mauritz Jeanson: graphics.xsl

  Added support for MathML in imagedata.

- Michael(tm) Smith: math.xsl

  Removed unnecessary extra test condition in test express that
  checks for passivetex.

- Michael(tm) Smith: math.xsl

  Don't use fo:instream-foreign-object if we are processing with
  passivetex. Closes #1806899. Thanks to Justus Piater.

- Mauritz Jeanson: component.xsl

  Added code to output a TOC for an appendix in an article when
  generate.toc='article/appendix toc'. Closes bug #1669658.

- Dongsheng Song: biblio-iso690.xsl

  Change encoding from "windows-1250" to "UTF-8".

- Mauritz Jeanson: pi.xsl

  Updated documentation for dbfo_label-width.

- Mauritz Jeanson: lists.xsl

  Added support for the dbfo_label-width PI in calloutlists.

- Robert Stayton: biblio.xsl

  Support finding glossary database entries inside bibliodivs.

- Robert Stayton: formal.xsl

  Complete support for <?dbfo pgwide="1"?> for informal
  elements too.

- Mauritz Jeanson: table.xsl

```
In the table.block template, added a check for the dbfo_keep-together PI, so that
a table may break (depending on the PI value) at a page break. This was needed
since the outer fo:block that surrounds fo:table has keep-together.within-column="always"
by default, which prevents the table from breaking. Closes bug #1740964 (Titled
table does not respect dbfo PI).
```

- Mauritz Jeanson: pi.xsl

```
Added a few missing @role="tcg".
```

- Mauritz Jeanson: inline.xsl

```
Use normalize-space() in glossterm comparisons (as in html/inline.xsl).
```

- Mauritz Jeanson: autoidx.xsl

```
Removed the [&scope;] predicate from the target variable in the template with name=" ←
    reference".
This filter was the cause of missing index backlinks when @zone and @type were used on  ←
    indexterms,
with index.on.type=1. Closes bug #1680836.
```

- Michael(tm) Smith: inline.xsl; xref.xsl; footnote.xsl

```
Added capability in FO output for displaying URLs for all
hyperlinks (elements marked up with xlink:href attributes) in the
same way as URLs for ulinks are already handled (which is to say,
either inline or as numbered footnotes).

Background on this change:
DocBook 5 allows "ubiquitous" linking, which means you can make
any element a hyperlink just by adding an xlink:href attribute to
it, with the value set to an external URL. That's in contrast to
DocBook 4, which only allows you to use specific elements (e.g.,
the link and ulink elements) to mark up hyperlinks.

The existing FO stylesheets have a mechanism for handling display
of URLs for hyperlinks that are marked up with ulink, but they did
not handle display of URLs for elements that were marked up with
xlink:href attributes. This change adds handling for those other
elements, enabling the URLs they link to be displayed either
inline or as numbered footnotes (depending on what values the user
has the ulink.show and ulink.footnotes params set to).

Note that this change only adds URL display support for elements
that call the simple.xlink template -- which currently is most
(but not all) inline elements.

This change also moves the URL display handling out of the ulink
template and into a new "hyperlink.url.display" named template;
the ulink template and the simple.xlink named template now both
call the hyperlink.url.display template.

Warning: In the stylesheet code that determines what footnote
number to assign to each footnote or external hyperlink, there is
an XPath expression for determining whether a particular
xlink:href instance is an external hyperlink; that expression is
necessarily a bit complicated and further testing may reveal that
it doesn't handle all cases as expected -- so some refinements to
it may need to be done later.
```

```
Closes #1785519. Thanks to Ken Morse for reporting and
troubleshooting the problem.
```

7.4 HTML

The following changes have been made to the `html` code since the 1.73.2 release.

- `Keith Fahlgren:  inline.xsl; synop.xsl`

  ```
  Work to make HTML and XHTML targets more valid
  ```

- `Keith Fahlgren:  table.xsl`

  ```
  Add better handling for tables that have footnotes in the titles
  ```

- `Keith Fahlgren:  biblio.xsl`

  ```
  Add anchors to bibliodivs
  ```

- `Keith Fahlgren:  formal.xsl; Makefile; htmltbl.xsl`

  ```
  Initial checkin/merge of epub target from work provided by Paul Norton of Adobe
  and Keith Fahlgren of O'Reilly.
  ```

  This change includes new code for generating the XHTML 1.1 target sanely.

- `Mauritz Jeanson:  biblio.xsl`

  ```
  Added code for creating URLs from biblioids with @class="doi" (representing Digital
  Object Identifiers). See FR #1934434 and http://doi.org.

  To do: 1) Add support for FO output. 2) Figure out how @class="doi" should be handled
  for bibliorelation, bibliosource and citebiblioid.
  ```

- `Norman Walsh:  formal.xsl`

  ```
  Don't use xsl:copy because it forces the resulting element to be in the same namespace as  ↩
      the source element; in the XHTML stylesheets, that's wrong. But the HTML-to-XHTML  ↩
      converter does the right thing with literal result elements, so use one of them.
  ```

- `Michael(tm) Smith:  Makefile`

  ```
  Added checks and hacks to various makefiles to enable building
  under Cygwin. This stuff is ugly and maybe not worth the mess and
  trouble, but does seem to work as expected and not break anything
  else.
  ```

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

  ```
  added "exslt" namespace binding to html/docbook.xsl file (in
  addition to existing "exsl" binding. reason is because lack of it
  seems to cause processing problems when using the profiled
  version of the stylsheet
  ```

- `Norman Walsh:  chunk-common.xsl`

  ```
  Rename link
  ```

- Mauritz Jeanson: table.xsl

  Added a fix to make rowsep apply to the last row of thead in entrytbl.

- Michael(tm) Smith: synop.xsl

  Simplified and streamlined handling of output for ANSI-style
  funcprototype output, to correct a problem that was causing type
  data to be lost in the output parameter definitions. For example,
  for an instance like this:
    <paramdef>void *<parameter>dataptr[]</paramdef>
  ... the brackets (indicating an array type) were being dropped.

- Michael(tm) Smith: synop.xsl

  Changed HTML handling of K&R-style paramdef output. The parameter
  definitions are no longer output in a table (though the prototype
  still is). The reason for the change is that the
  kr-tabular-funcsynopsis-mode template was causing type data to be
  lost in the output parameter definitions. For example, for an
  instance like this:
    <paramdef>void *<parameter>dataptr[]</paramdef>
  ... the brackets (indicating an array type) were being dropped.
  The easiest way to deal with the problem is to not try to chop up
  the parameter definitions and display them in table format, but to
  instead just output them as-is. May not look quite as pretty, but
  at least we can be sure no information is being lost...

- Michael(tm) Smith: pi.xsl

  updated wording of doc for funcsynopsis-style PI

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

  Removed the funcsynopsis.tabular.threshold param. It's no longer
  being used in the code and hasn't been since mid 2006.

- Mauritz Jeanson: graphics.xsl

  Added support for the img.src.path parameter for SVG graphics. Closes bug #1888169.

- Mauritz Jeanson: chunk-common.xsl

  Added missing space.

- Norman Walsh: component.xsl

  Fix bug where component titles inside info elements were not handled properly

- Michael(tm) Smith: pi.xsl

  Moved dbhtml_stop-chunking embedded doc into alphabetical order,
  fixed text of TCG section it see-also'ed.

- David Cramer: pi.xsl

  Added support for <?dbhtml stop-chunking?> processing instruction

- David Cramer: chunk-common.xsl; pi.xsl

```
Added support for <?dbhtml stop-chunking?> processing instruction
```

- David Cramer: glossary.xsl

```
Fixed bug #1854199: glossary.xsl should use the sortas attribute on glossentry. Also added ↩
        normalize-space to avoid missorting due to stray leading spaces.
```

- Mauritz Jeanson: inline.xsl

```
Added a template for citebiblioid. The hyperlink target is the parent of the referenced  ↩
    biblioid,
and the "hot text" is the biblioid itself enclosed in brackets.
```

- Mauritz Jeanson: inline.xsl

```
Added support for @xlink:show in the simple.xlink template. The "new" and "replace"
values are supported (corresponding to values of "_blank" and "_top" for the
ulink.target parameter). I have assumed that @xlink:show should override ulink.target
for external URI links. This closes bugs #1762023 and #1727498.
```

- Mauritz Jeanson: inline.xsl

```
Moved declaration of comment.block.parents entity to common/entities.ent.
```

- Mauritz Jeanson: param.xweb

```
Added link to profiling chapter of TCG.
```

- Dongsheng Song: biblio-iso690.xsl

```
Change encoding from "windows-1250" to "UTF-8".
```

- Robert Stayton: biblio.xsl

```
Add support in biblio collection to entries in bibliodivs.
```

- Mauritz Jeanson: pi.xsl

```
Added missing @role="tcg".
```

- Mauritz Jeanson: chunk-common.xsl; titlepage.xsl

```
Refactored legalnotice/revhistory chunking, so that the use.id.as.filename
parameter as well as the dbhtml_filename PI are taken into account. A new named
template in titlepage.xsl is used to compute the filename.
```

- Mauritz Jeanson: chunk-common.xsl; titlepage.xsl

```
An update to the fix for bug #1790495 (r7433):
The "ln-" prefix is output only when the legalnotice doesn't have an
@id/@xml:id, in which case the stylesheets generate an ID value,
resulting in a filename like "ln-7e0fwgj.html". This is useful because
without the prefix, you wouldn't know that the file contained a legalnotice.
The same logic is also applied to revhistory, using an "rh-" prefix.
```

- Mauritz Jeanson: autoidx.xsl

```
Removed the [&scope;] predicate from the target variable in the template with name=" ←
    reference".
This filter was the cause of missing index backlinks when @zone and @type were used on  ←
    indexterms,
with index.on.type=1. Closes bug #1680836.
```

- Mauritz Jeanson: titlepage.xsl

```
Added 'ln-' prefix to the name of the legalnotice chunk, in order to match the
<link href"..."> that is output by make.legalnotice.head.links (chunk-common.xsl).
Modified the href attribute on the legalnotice link.
Closes bug #1790495.
```

7.5 Manpages

The following changes have been made to the manpages code since the 1.73.2 release.

- Michael(tm) Smith: other.xsl

```
slightly adjusted spacing around admonition markers
```

- Michael(tm) Smith: refentry.xsl; utility.xsl

```
make sure refsect3 titles are preceded by a line of space, and
make the indenting of their child content less severe
```

- Michael(tm) Smith: block.xsl

```
only indent verbatim environments in TTY output, not in non-TTY/PS
```

- Michael(tm) Smith: block.xsl

```
made another adjustment to correct vertical alignment of admonition marker
```

- Michael(tm) Smith: block.xsl; other.xsl

```
Adjusted/corrected alignment of adominition marker in PS/non-TTY output.
```

- Michael(tm) Smith: endnotes.xsl

```
For PS/non-TTY output, display footnote/endnote numbers in
superscript.
```

- Michael(tm) Smith: table.xsl; synop.xsl; utility.xsl

```
Changed handling of hanging indents for cmdsynopsis, funcsynopsis,
and synopfragment such that they now look correct in non-TTY/PS
output. We now use the groff \w escape to hang by the actual width
-- in the current font -- of the command, funcdef, or
synopfragment references number (as opposed to hanging by the
number of characters). This rendering in TTY output remains the
same, since the width in monospaced TTY output is the same as the
number of characters.

Also, created new synopsis-block-start and synopsis-block-end
templates to use for cmdsynopsis and funcsynopsis instead of the
corresponding verbatim-* templates.
```

```
Along with those changes, also corrected a problem that caused the
content of synopfragment to be dropped, and made a
vertical-spacing change to adjust spacing around table titles and
among sibling synopfragment instances.
```

- Michael(tm) Smith: other.xsl

```
use common l10.language.name template to retrieve English-language name
```

- Michael(tm) Smith: synop.xsl; inline.xsl

```
added comment in code explaining why we don't put filename output
in italic (despite the fact that man guidelines say we should)
```

- Michael(tm) Smith: inline.xsl

```
put filename output in monospace instead of italic
```

- Michael(tm) Smith: synop.xsl

```
put cmdsynopsis in monospace
```

- Michael(tm) Smith: inline.xsl

```
removed template match for literal. template matches for monospace
inlines are all imported from the HTML stylesheet
```

- Michael(tm) Smith: block.xsl

```
don't indent verbatim environments that are descendants of
refsynopsisdiv, not put backgrounds behind them
```

- Michael(tm) Smith: inline.xsl

```
set output of the literal element in monospace. this causes all
inline monospace instances in the git man pages to be set in
monospace (since DocBook XML source for git docs is generated with
asciidoc and asciidoc consistently outputs only <literal> for
inline monospace (not <command> or <code> or anything else).
Of course this only affects non-TTY output...
```

- Michael(tm) Smith: utility.xsl

```
Added inline.monoseq named template.
```

- Michael(tm) Smith: utility.xsl

```
don't bother using a custom register to store the previous
font-family value when setting blocks of text in code font; just
use \F[] .fam with no arg to switch back
```

- Michael(tm) Smith: endnotes.xsl

```
put links in blue in PS output (note that this matches how groff
renders content marked up with the .URL macro)
```

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

```
removed man.links.are.underlined and added man.font.links. Also,
changed the default font formatting for links to bold.
```

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

  Added new param man.base.url.for.relative.links .. specifies a
  base URL for relative links (for ulink, @xlink:href, imagedata,
  audiodata, videodata) shown in the generated NOTES section of
  man-page output. The value of man.base.url.for.relative.links is
  prepended to any relative URI that is a value of ulink url,
  xlink:href, or fileref attribute.

  If you use relative URIs in link sources in your DocBook refentry
  source, and you leave man.base.url.for.relative.links unset, the
  relative links will appear "as is" in the NOTES section of any
  man-page output generated from your source. That's probably not
  what you want, because such relative links are only usable in the
  context of HTML output. So, to make the links meaningful and
  usable in the context of man-page output, set a value for
  man.base.url.for.relative.links that points
  to the online version of HTML output generated from your DocBook
  refentry source. For example:

    <xsl:param name="man.base.url.for.relative.links"
    >http://www.kernel.org/pub/software/scm/git/docs/</xsl:param>

- Michael(tm) Smith: info.xsl

  If a source refentry contains a Documentation or DOCUMENTATION
  section, don't report it as having missing AUTHOR information.
  Also, if missing a contrib/personblurb for a person or org, report
  pointers to http://docbook.sf.net/el/personblurb and to
  http://docbook.sf.net/el/contrib

- Michael(tm) Smith: info.xsl

  If we encounter an author|editor|othercredit instance that lacks a
  personblurb or contrib, report it to the user (because that means
  we have no information about that author|editor|othercredit to
  display in the generated AUTHOR|AUTHORS section...)

- Michael(tm) Smith: info.xsl; docbook.xsl; other.xsl

  if we can't find any usable author data, emit a warning and insert
  a fixme in the output

- Michael(tm) Smith: info.xsl

  fixed bug in indenting of output for contrib instances in AUTHORS
  section. Thanks to Daniel Leidert and the fglrx docs for exposing
  the bug.

- Michael(tm) Smith: block.xsl

  for a para or simpara that is the first child of a callout,
  suppress the .sp or .PP that would normally be output (because in
  those cases, the output goes into a table cell, and the .sp or .PP
  markup causes a spurious linebreak before it when displayed

- Michael(tm) Smith: lists.xsl

  Added support for rendering co callouts and calloutlist instances.
  So you can now use simple callouts -- marking up programlisting
  and such with co instances -- and have the callouts displayed in

```
man-page output. ("simple callouts" means using co@id and
callout@arearefs pointing to co@id instances; in man/roff output,
we can't/don't support markup that uses areaset and area)
```

- Michael(tm) Smith: block.xsl

```
only put a line of space after a verbatim if it's followed by a
text node or a paragraph
```

- Michael(tm) Smith: utility.xsl

```
put verbatim environments in slightly smaller font in non-TTY
output
```

- Michael(tm) Smith: lists.xsl

```
minor whitespace-only reformatting of lists.xsl source
```

- Michael(tm) Smith: lists.xsl

```
Made refinements/fixes to output of orderedlist and itemizedlist
-- in part, to get mysql man pages to display correctly. This
change causes a "\c" continuation marker to be added between
listitem markers and contents (to ensure that the content remains
on the same line as the marker when displayed)
```

- Michael(tm) Smith: block.xsl

```
put a line of vertical space after all verbatim output that has
sibling content following it (not just if that sibling content is
a text node)
```

- Michael(tm) Smith: block.xsl

```
refined spacing around titles for admonitions
```

- Michael(tm) Smith: block.xsl; other.xsl

```
Deal with case of verbatim environments that have a linebreak
after the opening tag. Assumption is that users generally don't
want that linebreak to appear in output, so we do some groff
hackery to mess with vertical spacing and close the space.
```

- Michael(tm) Smith: inline.xsl

```
indexterm instances now produce groff comments like this:

  .\" primary: secondary: tertiary

remark instances, if non-empty, now produce groff comments
```

- Michael(tm) Smith: charmap.groff.xsl; other.xsl

```
convert no-break space character to groff "\ \&" (instead of just
"\ "). the reason is that if a space occurs at the end of a line,
our processing causes it to be eaten. a real-world case of this is
the mysql(1) man page. appending the "\&" prevents that
```

- Michael(tm) Smith: block.xsl

```
output "sp" before simpara output, not after it (outputting it
after results in undesirable whitespace in particular cases; for
example, in the hg/mercurial docs
```

- Michael(tm) Smith: table.xsl; synop.xsl; utility.xsl

```
renamed from title-preamble to pinch.together and replaced "sp -1"
between synopsis fragments with call to pinch.together instead
```

- Michael(tm) Smith: table.xsl

```
use title-preamble template for table titles (instead of "sp -1"
hack), and "sp 1" after all tables (instead of just "sp"
```

- Michael(tm) Smith: utility.xsl

```
created title-preamble template for suppressing line spacing after
headings
```

- Michael(tm) Smith: info.xsl

```
further refinement of indenting in AUTHORS section
```

- Michael(tm) Smith: block.xsl; other.xsl

```
refined handling of admonitions
```

- Michael(tm) Smith: lists.xsl

```
Use RS/RE in another place where we had IP ""
```

- Michael(tm) Smith: info.xsl

```
Replace (ab)use of IP with "sp -1" in AUTHORS section with RS/RE
instead.
```

- Michael(tm) Smith: table.xsl; synop.xsl; info.xsl

```
changed all instances of ".sp -1n" to ".sp -1"
```

- Michael(tm) Smith: other.xsl

```
add extra line before SH heads only in non-TTY output
```

- Michael(tm) Smith: block.xsl

```
Reworked output for admonitions (caution, important, note, tip,
warning). In TTY output, admonitions now get indented. In non-TTY
output, a colored marker (yellow) is displayed next to them.
```

- Michael(tm) Smith: other.xsl

```
Added BM/EM macros for putting a colored marker in margin next to
a block of text.
```

- Michael(tm) Smith: utility.xsl

```
created make.bold.title template by moving title-bolding part out
from nested-section-title template. This allows the bolding to
also be used by the template for formatting admonitions
```

- Michael(tm) Smith: info.xsl

```
put .br before copyright contents to prevent them from getting run in
```

- Michael(tm) Smith: refentry.xsl; other.xsl; utility.xsl

```
made point size of output for Refsect2 and Refsect3 heads bigger
```

- Michael(tm) Smith: other.xsl

```
put slightly more space between SH head and underline in non-TTY
output
```

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

```
Added the man.charmap.subset.profile.english parameter and refined
the handling of charmap subsets to differentiate between English
and non-English source.

This way charmap subsets are now handled is this:

If the value of the man.charmap.use.subset parameter is non-zero,
and your DocBook source is not written in English (that is, if its
lang or xml:lang attribute has a value other than en), then the
character-map subset specified by the man.charmap.subset.profile
parameter is used instead of the full roff character map.

Otherwise, if the lang or xml:lang attribute on the root element
in your DocBook source or on the first refentry element in your
source has the value en or if it has no lang or xml:lang
attribute, then the character-map subset specified by the
man.charmap.subset.profile.english parameter is used instead of
man.charmap.subset.profile.

The difference between the two subsets is that
man.charmap.subset.profile provides mappings for characters in
Western European languages that are not part of the Roman
(English) alphabet (ASCII character set).
```

- Michael(tm) Smith: other.xsl

```
Various updates, mainly related to uppercasing SH titles:

  - added a "Language: " metadata line to the top comment area of
    output man pages, to indicate the language the page is in

  - added a "toupper" macro of doing locale-aware uppercasing of
    SH titles and cross-references to SH titles; the mechanism
    relies on the uppercase.alpha and lowercase.alpha DocBook
    gentext keys to do locale-aware uppercasing based on the
    language the page is written in

  - added a "string.shuffle" template, which provides a library
    function for "shuffling" two strings together into a single
    string; it takes the first character for the first string, the
    first character from second string, etc. The only current use
```

```
    for it is to generate the argument for the groff tr request
    that does string uppercasing.

  - added make.tr.uppercase.arg and make.tr.normalcase.arg named
    templates for use in generating groff code for uppercasing and
    "normal"-casing SH titles

  - made the BB/BE "background drawing" macros have effect only in
    non-TTY output

  - output a few comments in the top part of source
```

- Michael(tm) Smith: utility.xsl

```
removed some leftover kruft
```

- Michael(tm) Smith: refentry.xsl

```
To create the name(s) for each man page, we now replace any spaces
in the refname(s) with underscores. This ensures that tools like
lexgrog(1) will be able to parse the name (lexgrog won't parse
names that contain spaces).
```

- Michael(tm) Smith: docbook.xsl

```
Put a comment into source of man page to indicate where the main
content starts. (We now have a few of macro definitions at the
start of the source, so putting this comment in helps those that
might be viewing the source.)
```

- Michael(tm) Smith: refentry.xsl

```
refined mechanism for generating SH titles
```

- Michael(tm) Smith: charmap.groff.xsl

```
Added zcaron, Zcaron, scaron, and Scaron to the groff character map.
This means that generated Finnish man pages will no longer contain
any raw accented characters -- they'll instead by marked up with
groff escapes.
```

- Michael(tm) Smith: other.xsl; utility.xsl

```
corrected a regression I introduced about a year ago that caused
dots to be output just as "\." -- instead needs to be "\&." (which
is what it will be now, after this change)
```

- Michael(tm) Smith: refentry.xsl

```
Changed backend handling for generating titles for SH sections and
for cross-references to those sections. This should have no effect
on TTY output (behavior should remain the same hopefully) but
results in titles in normal case (instead of uppercase) in PS
output.
```

- Michael(tm) Smith: info.xsl

```
use make.subheading template to make subheadings for AUTHORS and
COPYRIGHT sections (instead of harcoding roff markup)
```

- Michael(tm) Smith: block.xsl

  ```
  put code font around programlisting etc.
  ```

- Michael(tm) Smith: synop.xsl; docbook.xsl

  ```
  embed custom macro definitions in man pages, plus wrap synopsis in
  code font
  ```

- Michael(tm) Smith: endnotes.xsl

  ```
  use the make.subheading template to generated SH subheading for
  endnotes section.
  ```

- Michael(tm) Smith: lists.xsl

  ```
  Added some templates for generating if-then-else conditional
  markup in groff, so let's use those instead of hard-coding it in
  multiple places...
  ```

- Michael(tm) Smith: other.xsl; utility.xsl

  ```
  Initial checkin of some changes related to making PS/PDF output
  from "man -l -Tps" look better. The current changes:

    - render synopsis and verbatim sections in a monospace/code font

    - put a light-grey background behind all programlisting, screen,
      and literallayout instances

    - prevent SH heads in PS output from being rendered in uppercase
      (as they are in console output)

    - also display xrefs to SH heads in PS output in normal case
      (instead of uppercase)

    - draw a line under SH heads in PS output

  The changes made to the code to support the above features were:

    - added some embedded/custom macros: one for conditionally
      upper-casing SH x-refs, one for redefining the SH macro
      itself, with some conditional handling for PS output, and
      finally a macro for putting a background/screen (filled box)
      around a block of text (e.g., a program listing) in PS output

    - added utility templates for wrapping blocks of text in code
      font; also templates for inline code font
  ```

- Robert Stayton: refentry.xsl

  ```
  refpurpose nodes now get apply-templates instead of just normalize-space().
  ```

- Michael(tm) Smith: lists.xsl

  ```
  Fixed alignment of first lined of text for each listitem in
  orderedlist output for TTY. Existing code seemed to have been
  causing an extra undesirable space to appear.
  ```

- Michael(tm) Smith: lists.xsl

```
Wrapped some roff conditionals around roff markup for orderedlist
and itemizedlist output, so that the lists look acceptable in PS
output as well as TTY.
```

- Michael(tm) Smith: pi.xsl; synop.xsl; param.xweb; param.ent

  ```
  Added the man.funcsynopsis.style parameter. Has the same effect in
  manpages output as the funcsynopsis.style parameter has in HTML
  output -- except that its default value is 'ansi' instead of 'kr'.
  ```

- Michael(tm) Smith: synop.xsl

  ```
  Reworked handling of K&R funcprototype output. It no longer relies
  on the HTML kr-tabular templates, but instead just does direct
  transformation to roff. For K&R output, it displays the paramdef
  output in an indented list following the prototype.
  ```

- Michael(tm) Smith: synop.xsl

  ```
  Properly integrated handling for K&R output into manpages
  stylesheet. The choice between K&R output and ANSI output is
  currently controlled through use of the (HTML) funcsynopsis.style
  parameter. Note that because the mechanism does currently rely on
  funcsynopsis.style, the default in manpages output is now K&R
  (because that's the default of that param). But I suppose I ought
  to create a man.funcsynopsis.style and make the default for that
  ANSI (to preserve the existing default behavior).
  ```

- Michael(tm) Smith: docbook.xsl

  ```
  added manpages/pi.xsl file
  ```

- Michael(tm) Smith: .cvsignore; pi.xsl

  ```
  Added "dbman funcsynopsis-style" PI and incorporated it into the
  doc build.
  ```

- Michael(tm) Smith: refentry.xsl

  ```
  Fixed regression that caused an unescaped dash to be output
  between refname and refpurpose content. Closes bug #1894244.
  Thanks to Daniel Leidert.
  ```

- Michael(tm) Smith: other.xsl

  ```
  Fixed problem with dots being escaped in filenames of generated
  man files. Closes #1827195. Thanks to Daniel Leidert.
  ```

- Michael(tm) Smith: inline.xsl

  ```
  Added support for processing structfield (was appearing in roff
  output surrounded by HTML <em> tags; fixed so that it gets roff
  ital markup). Closes bug #1858329.  Thanks to Sam Varshavchik.
  ```

7.6 Epub

The following changes have been made to the `epub` code since the 1.73.2 release.

- Keith Fahlgren: bin/spec/README; bin/spec/epub_realbook_spec.rb

  ```
  'Realbook' spec now passes
  ```

- Keith Fahlgren: bin/dbtoepub; README; bin/spec/README; bin/lib/docbook.rb; bin/spec/epub_r···

  ```
  Very primitive Windows support for dbtoepub reference implementation; README for running  ↩
      tests and for the .epub target in general; shorter realbook test document (still fails ↩
       for now)
  ```

- Keith Fahlgren: bin/dbtoepub; bin/spec/epub_regressions_spec.rb; bin/lib/docbook.rb; bin/s···

  ```
  Changes to OPF spine to not duplicate idrefs for documents with parts not at the root;  ↩
      regression specs for same
  ```

- Keith Fahlgren: docbook.xsl

  ```
  Fixing linking to cover @id, distinct from other needs of cover-image-id (again, thanks to ↩
       Martin Goerner)
  ```

- Keith Fahlgren: docbook.xsl

  ```
  Updating the title of the toc element in the guide to be more explicit (thanks to Martin  ↩
      Goerner)
  ```

- Keith Fahlgren: bin/spec/examples/amasque_exploded/content.opf; bin/spec/examples/amasque_···

  ```
  Initial checkin/merge of epub target from work provided by Paul Norton of Adobe
  and Keith Fahlgren of O'Reilly.
  ```

- Keith Fahlgren: docbook.xsl

  ```
  == General epub test support

  $ spec -O ~/.spec.opts spec/epub_spec.rb

  DocBook::Epub
  - should be able to be created
  - should fail on a nonexistent file
  - should be able to render to a file
  - should create a file after rendering
  - should have the correct mimetype after rendering
  - should be valid .epub after rendering an article
  - should be valid .epub after rendering an article without sections
  - should be valid .epub after rendering a book
  - should be valid .epub after rendering a book even if it has one graphic
  - should be valid .epub after rendering a book even if it has many graphics
  - should be valid .epub after rendering a book even if it has many duplicated graphics
  - should report an empty file as invalid
  - should confirm that a valid .epub file is valid
  - should not include PDFs in rendered epub files as valid image inclusions
  - should include a TOC link in rendered epub files for <book>s

  Finished in 20.608395 seconds

  15 examples, 0 failures
  ```

```
== Verbose epub test coverage against _all_ of the testdocs

Fails on only (errors truncated):
1)
'DocBook::Epub should be able to render a valid .epub for the test document /Users/keith/ ↩
    work/docbook-dev/trunk/xsl/epub/bin/spec/testdocs/calloutlist.003.xml [30]' FAILED
'DocBook::Epub should be able to render a valid .epub for the test document /Users/keith/ ↩
    work/docbook-dev/trunk/xsl/epub/bin/spec/testdocs/cmdsynopsis.001.xml [35]' FAILED
....

Finished in 629.89194 seconds

224 examples, 15 failures

224 examples, 15 failures yields 6% failure rate
```

7.7 HTMLHelp

The following changes have been made to the `htmlhelp` code since the 1.73.2 release.

• Mauritz Jeanson: htmlhelp-common.xsl

```
Added <xsl:with-param name="quiet" select="$chunk.quietly"/> to calls to
the write.chunk, write.chunk.with.doctype, and write.text.chunk templates.
This makes chunk.quietly=1 suppress chunk filename messages also for help
support files (which seems to be what one would expect). See bug #1648360.
```

7.8 Eclipse

The following changes have been made to the `eclipse` code since the 1.73.2 release.

• David Cramer: eclipse.xsl

```
Use sortas attributes (if they exist) when sorting indexterms
```

• David Cramer: eclipse.xsl

```
Added support for indexterm/see in eclipse index.xml
```

• Mauritz Jeanson: eclipse.xsl

```
Added <xsl:with-param name="quiet" select="$chunk.quietly"/>
to helpidx template.
```

• David Cramer: eclipse.xsl

```
Generate index.xml file and add related goo to plugin.xml file. Does not yet support see ↩
    and seealso.
```

• Mauritz Jeanson: eclipse.xsl

```
Added <xsl:with-param name="quiet" select="$chunk.quietly"/> to calls to
the write.chunk, write.chunk.with.doctype, and write.text.chunk templates.
This makes chunk.quietly=1 suppress chunk filename messages also for help
support files (which seems to be what one would expect). See bug #1648360.
```

7.9 JavaHelp

The following changes have been made to the `javahelp` code since the 1.73.2 release.

- `Mauritz Jeanson:  javahelp.xsl`

  ```
  Added <xsl:with-param name="quiet" select="$chunk.quietly"/> to calls to
  the write.chunk, write.chunk.with.doctype, and write.text.chunk templates.
  This makes chunk.quietly=1 suppress chunk filename messages also for help
  support files (which seems to be what one would expect). See bug #1648360.
  ```

7.10 Roundtrip

The following changes have been made to the `roundtrip` code since the 1.73.2 release.

- `Steve Ball:  blocks2dbk.xsl; wordml2normalise.xsl`

  ```
  fix table/cell borders for wordml, fix formal figure, add emphasis-strong
  ```

- `Mauritz Jeanson:  supported.xml`

  ```
  Changed @cols to 5.
  ```

- `Steve Ball:  blocks2dbk.xsl; blocks2dbk.dtd; template.xml`

  ```
  added pubdate, fixed metadata handling in biblioentry
  ```

- `Steve Ball:  supported.xml`

  ```
  Added support for edition.
  ```

- `Steve Ball:  docbook-pages.xsl; wordml-blocks.xsl; docbook.xsl; wordml.xsl; pages-normalise···`

  ```
  Removed stylesheets for old, deprecated conversion method.
  ```

- `Steve Ball:  specifications.xml; dbk2ooo.xsl; blocks2dbk.xsl; dbk2pages.xsl; blocks2dbk.dtd···`

  ```
  Added support for Open Office, added edition element, improved list and table support in  ←
      Word and Pages
  ```

- `Steve Ball:  normalise-common.xsl; blocks2dbk.xsl; dbk2pages.xsl; template-pages.xml; templ···`

  ```
  Fixed bug in WordML table handling, improved table handling for Pages 08, synchronised  ←
      WordML and Pages templates.
  ```

- `Steve Ball:  normalise-common.xsl; blocks2dbk.xsl; wordml2normalise.xsl; dbk2wp.xsl`

  ```
  fix caption, attributes
  ```

- `Steve Ball:  specifications.xml; blocks2dbk.xsl; wordml2normalise.xsl; blocks2dbk.dtd; temp···`

  ```
  Fixes to table and list handling
  ```

- `Steve Ball:  blocks2dbk.xsl`

  ```
  added support for explicit emphasis character styles
  ```

- Steve Ball: `wordml2normalise.xsl`

  ```
  added support for customisation in image handling
  ```

- Steve Ball: `blocks2dbk.xsl`

  ```
  Added inlinemediaobject support for metadata.
  ```

- Steve Ball: `normalise-common.xsl; blocks2dbk.xsl; template.xml; dbk2wordml.xsl; dbk2wp.xsl`

  ```
  Added support file. Added style locking. Conversion bug fixes.
  ```

7.11 Slides

The following changes have been made to the `slides` code since the 1.73.2 release.

- Michael(tm) Smith: `fo/Makefile; html/Makefile`

  ```
  Added checks and hacks to various makefiles to enable building
  under Cygwin. This stuff is ugly and maybe not worth the mess and
  trouble, but does seem to work as expected and not break anything
  else.
  ```

- Jirka Kosek: `html/plain.xsl`

  ```
  Added support for showing foil number
  ```

7.12 Website

The following changes have been made to the `website` code since the 1.73.2 release.

- Michael(tm) Smith: `extensions/saxon64/.classes/.gitignore; extensions/xalan2/.classes/com/···`

  ```
  renamed a bunch more .cvsignore files to .gitignore (to facilitate use of git-svn)
  ```

7.13 Params

The following changes have been made to the `params` code since the 1.73.2 release.

- Keith Fahlgren: `epub.autolabel.xml`

  ```
  New parameter for epub, epub.autolabel
  ```

- Mauritz Jeanson: `table.frame.border.color.xml; table.cell.padding.xml; table.cell.border.t···`

  ```
  Added missing refpurposes and descriptions.
  ```

- Keith Fahlgren: `ade.extensions.xml`

  ```
  Extensions to support Adobe Digital Editions extensions in .epub output.
  ```

- Mauritz Jeanson: `fop.extensions.xml; fop1.extensions.xml`

  ```
  Clarified that fop1.extensions is for FOP 0.90 and later. Version 1 is not here yet...
  ```

- Michael(tm) Smith: man.links.are.underlined.xml; man.endnotes.list.enabled.xml; man.font.l···

  ```
  removed man.links.are.underlined and added man.font.links. Also,
  changed the default font formatting for links to bold.
  ```

- Michael(tm) Smith: man.base.url.for.relative.links.xml

  ```
  Added new param man.base.url.for.relative.links .. specifies a
  base URL for relative links (for ulink, @xlink:href, imagedata,
  audiodata, videodata) shown in the generated NOTES section of
  man-page output. The value of man.base.url.for.relative.links is
  prepended to any relative URI that is a value of ulink url,
  xlink:href, or fileref attribute.

  If you use relative URIs in link sources in your DocBook refentry
  source, and you leave man.base.url.for.relative.links unset, the
  relative links will appear "as is" in the NOTES section of any
  man-page output generated from your source. That's probably not
  what you want, because such relative links are only usable in the
  context of HTML output. So, to make the links meaningful and
  usable in the context of man-page output, set a value for
  man.base.url.for.relative.links that points
  to the online version of HTML output generated from your DocBook
  refentry source. For example:

    <xsl:param name="man.base.url.for.relative.links"
    >http://www.kernel.org/pub/software/scm/git/docs/</xsl:param>
  ```

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

  ```
  squeeze .sp\n.sp into a single .sp (to prevent a extra, spurious
  line of whitespace from being inserted after programlisting etc.
  in certain cases)
  ```

- Michael(tm) Smith: refentry.manual.fallback.profile.xml; refentry.source.fallback.profile.···

  ```
  don't use refmiscinfo@class=date value as fallback for refentry
  "source" or "manual" metadata fields
  ```

- Michael(tm) Smith: man.charmap.subset.profile.xml; man.charmap.enabled.xml; man.charmap.su···

  ```
  made some further doc tweaks related to the
  man.charmap.subset.profile.english param
  ```

- Michael(tm) Smith: man.charmap.subset.profile.xml; man.charmap.enabled.xml; man.charmap.su···

  ```
  Added the man.charmap.subset.profile.english parameter and refined
  the handling of charmap subsets to differentiate between English
  and non-English source.

  This way charmap subsets are now handled is this:

  If the value of the man.charmap.use.subset parameter is non-zero,
  and your DocBook source is not written in English (that is, if its
  lang or xml:lang attribute has a value other than en), then the
  character-map subset specified by the man.charmap.subset.profile
  parameter is used instead of the full roff character map.

  Otherwise, if the lang or xml:lang attribute on the root element
  in your DocBook source or on the first refentry element in your
  source has the value en or if it has no lang or xml:lang
  ```

```
attribute, then the character-map subset specified by the
man.charmap.subset.profile.english parameter is used instead of
man.charmap.subset.profile.

The difference between the two subsets is that
man.charmap.subset.profile provides mappings for characters in
Western European languages that are not part of the Roman
(English) alphabet (ASCII character set).
```

- Michael(tm) Smith: man.charmap.subset.profile.xml

```
Added to default charmap used by manpages:

  - the "letters" part of the 'C1 Controls And Latin-1 Supplement
    (Latin-1 Supplement)' Unicode block
  - Latin Extended-A block (but not all of the characters from
    that block have mappings in groff, so some of them are still
    passed through as-is)

The effects of this change are that in man pages generated for
most Western European languages and for Finnish, all characters
not part of the Roman alphabet are (e.g., "accented" characters)
are converted to groff escapes.

Previously, by default we passed through those characters as is
(and users needed to use the full charmap if they wanted to have
those characters converted).

As a result of this change, man pages generated for Western
European languages will be viewable in some environments in which
they are not viewable if the "raw" non-Roman characters are in them.
```

- Mauritz Jeanson: generate.legalnotice.link.xml; generate.revhistory.link.xml

```
Added information on how the filename is computed.
```

- Mauritz Jeanson: default.table.width.xml

```
Clarified PI usage.
```

- Michael(tm) Smith: man.funcsynopsis.style.xml

```
Added the man.funcsynopsis.style parameter. Has the same effect in
manpages output as the funcsynopsis.style parameter has in HTML
output -- except that its default value is 'ansi' instead of 'kr'.
```

- Michael(tm) Smith: funcsynopsis.tabular.threshold.xml

```
Removed the funcsynopsis.tabular.threshold param. It's no longer
being used in the code and hasn't been since mid 2006.
```

- Mauritz Jeanson: table.properties.xml

```
Set keep-together.within-column to "auto". This seems to be the most sensible
default value for tables.
```

- Mauritz Jeanson: informal.object.properties.xml; admon.graphics.extension.xml; informalequ⋯

```
Several small documentation fixes.
```

- Mauritz Jeanson: `manifest.in.base.dir.xml`

  ```
  Wording fixes.
  ```

- Mauritz Jeanson: `header.content.properties.xml; footer.content.properties.xml`

  ```
  Added refpurpose.
  ```

- Mauritz Jeanson: `ulink.footnotes.xml; ulink.show.xml`

  ```
  Updated for DocBook 5.
  ```

- Mauritz Jeanson: `index.method.xml; glossterm.auto.link.xml`

  ```
  Spelling and wording fixes.
  ```

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

  ```
  Clarifed available graphics formats and extensions.
  ```

- Mauritz Jeanson: `footnote.sep.leader.properties.xml`

  ```
  Corrected refpurpose.
  ```

- Jirka Kosek: `footnote.properties.xml`

  ```
  Added more properties which make it possible to render correctly footnotes placed inside ↩
      verbatim elements.
  ```

- Mauritz Jeanson: `img.src.path.xml`

  ```
  img.src.path works with inlinegraphic too.
  ```

- Mauritz Jeanson: `saxon.character.representation.xml`

  ```
  Added TCG link.
  ```

- Mauritz Jeanson: `img.src.path.xml`

  ```
  Updated description of img.src.path. Bug #1785224 revealed that
  there was a risk of misunderstanding how it works.
  ```

7.14 Profiling

The following changes have been made to the `profiling` code since the 1.73.2 release.

- Jirka Kosek: `xsl2profile.xsl`

  ```
  Added new rules to profile all content generated by HTML Help (including alias files)
  ```

- Robert Stayton: `profile-mode.xsl`

  ```
  use mode="profile" instead of xsl:copy-of for attributes so
  they can be more easily customized.
  ```

7.15 Tools

The following changes have been made to the `tools` code since the 1.73.2 release.

- Michael(tm) Smith: make/Makefile.DocBook

```
various changes and additions to support making with asciidoc as
an input format
```

- Michael(tm) Smith: make/Makefile.DocBook

```
make dblatex the default PDF maker for the example makefile
```

- Michael(tm) Smith: xsl/build/html2roff.xsl

```
Reworked handling of K&R funcprototype output. It no longer relies
on the HTML kr-tabular templates, but instead just does direct
transformation to roff. For K&R output, it displays the paramdef
output in an indented list following the prototype.
```

- Mauritz Jeanson: xsl/build/make-xsl-params.xsl

```
Made attribute-sets members of the param list. This enables links to attribute-sets in the
reference documentation.
```

- Michael(tm) Smith: xsl/build/html2roff.xsl

```
use .BI handling in K&R funsynopsis output for manpages, just as
we do already of ANSI output
```

- Michael(tm) Smith: xsl/build/html2roff.xsl

```
Implemented initial support for handling tabular K&R output of
funcprototype in manpages output. Accomplished by adding more
templates to the intermediate HTML-to-roff stylesheet that the
build uses to create the manpages/html-synop.xsl stylesheet.
```

- Michael(tm) Smith: xsl/build/doc-link-docbook.xsl

```
Made the xsl/tools/xsl/build/doc-link-docbook.xsl stylesheet
import profile-docbook.xsl, so that we can do profiling of release
notes. Corrected some problems in the target for the release-notes
HTML build.
```

7.16 Extensions

The following changes have been made to the `extensions` code since the 1.73.2 release.

- Keith Fahlgren: Makefile

```
Use DOCBOOK_SVN variable everywhere, please; build with PDF_MAKER
```

- Michael(tm) Smith: Makefile

```
moved extensions build targets from master xsl/Makefile to
xsl/extensions/Makefile
```

- Michael(tm) Smith: .cvsignore

```
re-adding empty extensions subdir
```

7.17 XSL-Saxon

The following changes have been made to the `xsl-saxon` code since the 1.73.2 release.

- Michael(tm) Smith: VERSION

  ```
  bring xsl2, xsl-saxon, and xsl-xalan VERSION files up-to-date with
  recent change to snapshot build infrastructure
  ```

- Michael(tm) Smith: nbproject/build-impl.xml; nbproject/project.properties

  ```
  Changed hard-coded file references in "clean" target to variable
  references. Closes #1792043. Thanks to Daniel Leidert.
  ```

- Michael(tm) Smith: VERSION; Makefile

  ```
  Did post-release wrap-up of xsl-saxon and xsl-xalan dirs
  ```

- Michael(tm) Smith: nbproject/build-impl.xml; VERSION; Makefile; test

  ```
  More tweaks to get release-ready
  ```

7.18 XSL-Xalan

The following changes have been made to the `xsl-xalan` code since the 1.73.2 release.

- Michael(tm) Smith: VERSION

  ```
  bring xsl2, xsl-saxon, and xsl-xalan VERSION files up-to-date with
  recent change to snapshot build infrastructure
  ```

- Michael(tm) Smith: nbproject/build-impl.xml

  ```
  Changed hard-coded file references in "clean" target to variable
  references. Closes #1792043. Thanks to Daniel Leidert.
  ```

- Michael(tm) Smith: Makefile; VERSION

  ```
  Did post-release wrap-up of xsl-saxon and xsl-xalan dirs
  ```

- Michael(tm) Smith: Makefile; nbproject/build-impl.xml; VERSION

  ```
  More tweaks to get release-ready
  ```

7.19 XSL-libxslt

The following changes have been made to the `xsl-libxslt` code since the 1.73.2 release.

- Mauritz Jeanson: python/xslt.py

  ```
  Print the result to stdout if no outfile has been given.
  Some unnecessary semicolons removed.
  ```

- Mauritz Jeanson: python/xslt.py

```
Added a function that quotes parameter values (to ensure that they are interpreted as  ←
    strings).
Replaced deprecated functions from the string module with string methods.
```

- Michael(tm) Smith: python/README; python/README.LIBXSLT

```
renamed xsl-libxslt/python/README to xsl-libxslt/python/README.LIBXSLT
```

- Mauritz Jeanson: python/README

```
Tweaked the text a little.
```

8 Release Notes: 1.73.2

This is solely a minor bug-fix update to the 1.73.1 release. It fixes a packaging error in the 1.73.1 package, as well as a bug in footnote handling in FO output.

9 Release: 1.73.1

This is mostly a bug-fix update to the 1.73.0 release.

9.1 Gentext

The following changes have been made to the gentext code since the 1.73.0 release.

- Mauritz Jeanson: locale/de.xml

```
Applied patch #1766009.
```

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

```
Added localization for ProductionSet.
```

9.2 FO

The following changes have been made to the fo code since the 1.73.0 release.

- Mauritz Jeanson: table.xsl

```
Modified the tgroup template so that, for tables with multiple tgroups,
a width attribute is output on all corresponding fo:tables. Previously,
there was a test prohibiting this (and a comment saying that outputting more
than one width attribute will cause an error). But this seems to be no longer
relevant; it is not a problem with FOP 0.93 or XEP 4.10. Closes bug #1760559.
```

- Mauritz Jeanson: graphics.xsl

```
Replaced useless <a> elements with warning messages (textinsert extension).
```

- Mauritz Jeanson: admon.xsl

```
Enabled generation of ids (on fo:wrapper) for indexterms in admonition titles, so that  ←
    page
references in the index can be created. Closes bug #1775086.
```

9.3 HTML

The following changes have been made to the `html` code since the 1.73.0 release.

- Mauritz Jeanson: titlepage.xsl

  Added <xsl:call-template name="process.footnotes"/> to abstract template
  so that footnotes in info/abstract are processed. Closes bug #1760907.

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

  Changed handling of HTML output for the cmdsynopsis and
  funcsynopsis elements, such that a@id instances are generated for
  them if they are descendants of any element containing a dbcmdlist
  or dbfunclist PI. Also, update the embedded reference docs for the
  dbcmdlist and dbfunclist PIs to make it clear that they can be
  used within any element for which cmdsynopsis or funcsynopsis are
  valid children.

- Michael(tm) Smith: formal.xsl

  Reverted the part of revision 6952 that caused a@id anchors to be
  generated for output of informal objects. Thanks to Sam Steingold
  for reporting.

- Robert Stayton: glossary.xsl

  Account for a glossary with no glossdiv or glossentry children.

- Mauritz Jeanson: titlepage.xsl

  Modified legalnotice template so that the base.name parameter is calculated
  in the same way as for revhistory chunks. Using <xsl:apply-templates
  mode="chunk-filename" select="."/> did not work for single-page output since
  the template with that mode is in chunk-code.xsl.

- Mauritz Jeanson: graphics.xsl

  Updated support for SVG (must be a child of imagedata in DB 5).
  Added support for MathML in imagedata.

- Mauritz Jeanson: pi.xsl

  Added documentation for the dbhh PI (used for context-sensitive HTML Help).
  (The two templates matching 'dbhh' are still in htmlhelp-common.xsl).

9.4 Manpages

The following changes have been made to the `manpages` code since the 1.73.0 release.

- Michael(tm) Smith: endnotes.xsl

  In manpages output, generate warnings about notesources with
  non-para children only if the notesource is a footnote or
  annotation. Thanks to Sam Steingold for reporting problems with
  the existing handling.

9.5 HTMLHelp

The following changes have been made to the `htmlhelp` code since the 1.73.0 release.

- `Michael(tm) Smith:  htmlhelp-common.xsl`

  ```
  Added single-pass namespace-stripping support to the htmlhelp,
  eclipse, and javahelp stylesheets.
  ```

9.6 Eclipse

The following changes have been made to the `eclipse` code since the 1.73.0 release.

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

  ```
  Added single-pass namespace-stripping support to the htmlhelp,
  eclipse, and javahelp stylesheets.
  ```

9.7 JavaHelp

The following changes have been made to the `javahelp` code since the 1.73.0 release.

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

  ```
  Added single-pass namespace-stripping support to the htmlhelp,
  eclipse, and javahelp stylesheets.
  ```

9.8 Roundtrip

The following changes have been made to the `roundtrip` code since the 1.73.0 release.

- `Steve Ball:  blocks2dbk.xsl; blocks2dbk.dtd; pages2normalise.xsl`

  ```
  Modularised blocks2dbk to allow customisation,
  Added support for tables to pages2normalise
  ```

9.9 Params

The following changes have been made to the `params` code since the 1.73.0 release.

- `Robert Stayton:  procedure.properties.xml`

  ```
  procedure was inheriting keep-together from formal.object.properties, but
  a procedure does not need to be kept together by default.
  ```

- `Dave Pawson:  title.font.family.xml; component.label.includes.part.label.xml; table.frame.b···`

  ```
  Regular formatting re-org.
  ```

10 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).

10.1 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.
  ```

10.2 Common

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

- Michael(tm) Smith: labels.xsl

  ```
  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.xsl

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

- Michael(tm) Smith: refentry.xsl

  ```
  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.xsl

  ```
  Add refsection/info/title support.
  ```

- Michael(tm) Smith: titles.xsl

  ```
  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.xsl

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

10.3 FO

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

- Robert Stayton: component.xsl

  Add parameters to the page.sequence utility template.

- Mauritz Jeanson: xref.xsl

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

- Michael(tm) Smith: inline.xsl

  Added template match for person element to fo stylesheet.

- Robert Stayton: lists.xsl

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

- Robert Stayton: table.xsl

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

- Mauritz Jeanson: inline.xsl

  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.xsl; xref.xsl

  Add support for xlink as olink.

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

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

- Robert Stayton: component.xsl

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

- Robert Stayton: division.xsl

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

- Robert Stayton: param.xweb; param.ent; sections.xsl

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

- Robert Stayton: param.xweb; param.ent; component.xsl

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

- Robert Stayton: htmltbl.xsl; table.xsl

```
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.xsl

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

- Robert Stayton: refentry.xsl

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

- David Cramer: qandaset.xsl

```
Make fo questions and answers behave the same way as html
```

- Jirka Kosek: lists.xsl

```
Added missing attribute set for procedure
```

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

```
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.xsl

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

- Robert Stayton: inline.xsl

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

10.4 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.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: 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: `qandaset.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.xsl`

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

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

  ```
  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.xsl; xref.xsl`

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

- Mauritz Jeanson: glossary.xsl

```
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.
```

10.5 Manpages

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

- Michael(tm) Smith: param.xweb; docbook.xsl; 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.xsl

```
Took the test that the manpages stylesheet does to see if there
are any Refentry chilren 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.xsl stylesheet.
```

- Michael(tm) Smith: Makefile

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

- Michael(tm) Smith: info.xsl

```
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.xsl

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

- Michael(tm) Smith: synop.xsl; block.xsl; info.xsl; inline.xsl; lists.xsl; endnotes.xsl; 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.xsl

```
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.xsl

```
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.xsl

```
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.xsl

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

- Michael(tm) Smith: table.xsl; synop.xsl; block.xsl; info.xsl; lists.xsl; refentry.xsl; 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.xsl

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

- Michael(tm) Smith: lists.xsl

```
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.xsl; inline.xsl; param.xweb; docbook.xsl; links.xsl; 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 inefficent for documents
```

```
    that contain a lot of notesources, but at least it's
    a bit better than it was.
```

10.6 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 avoid leading whitespace from appearing in the output if  ↩
      there's extra leading whitespace (e.g. <title> Foo</title>) in the source
  ```

10.7 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.
  ```

10.8 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; sections2blocks.···

  ```
  new stylesheets for better word processor support and easier maintenance
  ```

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

  ```
  fixed bugs
  ```

10.9 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 refpurpose 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 refpurpose text.
  ```

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

  ```
  Added better refpurpose texts.
  ```

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

  ```
  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.properties⋯

  ```
  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 biblioentries
  ```

- 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 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: header.table.properties.xml; footer.table.properties.xml

  ```
  Support adding table properties to header and footer tables.
  ```

10.10 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.
  ```

10.11 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.
  ```

10.12   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 twheeked so
it can do both right/left padding.
```

10.13   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).
```

10.14   XSL-Saxon

The following changes have been made to the `xsl-saxon` code since the 1.72.0 release.

- `Mauritz Jeanson:  xalan27/src/com/nwalsh/xalan/Verbatim.java; xalan27/src/com/nwalsh/xalan/···`

```
Added modifications so that the new callout.icon.size parameter is taken into account.  ↩
    This
parameter is used for FO output (where SVG now is the default graphics format for callouts ↩
    ).
```

- `Mauritz Jeanson:  saxon65/src/com/nwalsh/saxon/FormatCallout.java; xalan27/src/com/nwalsh/x···`

```
Added code for generating id attributes on callouts in HTML and FO output.
These patches enable cross-references to callouts placed by area coordinates.
It works for graphic, unicode and text callouts.
Part of fix for bug #1675513 (xref to area broken).
```

- `Michael(tm) Smith:  saxon65/src/com/nwalsh/saxon/Website.java; xalan27/src/com/nwalsh/xalan···`

```
Copied over Website XSL Java extensions.
```

10.15   XSL-Xalan

The following changes have been made to the `xsl-xalan` code since the 1.72.0 release.

- `Michael(tm) Smith:  Makefile; xalan2`

```
Turned off xalan2.jar build. This removes DocBook XSL
Java extensions support for versions of Xalan prior to
Xalan 2.7. If you are currently using the extensions
with an earlier version of Xalan, you need to upgrade
to Xalan 2.7.
```

- Mauritz Jeanson: xalan27/src/com/nwalsh/xalan/Verbatim.java; xalan27/src/com/nwalsh/xalan/···

```
Added modifications so that the new callout.icon.size parameter is taken into account.  ←
    This
parameter is used for FO output (where SVG now is the default graphics format for callouts ←
    ).
```

- Mauritz Jeanson: saxon65/src/com/nwalsh/saxon/FormatCallout.java; xalan27/src/com/nwalsh/x···

```
Added code for generating id attributes on callouts in HTML and FO output.
These patches enable cross-references to callouts placed by area coordinates.
It works for graphic, unicode and text callouts.
Part of fix for bug #1675513 (xref to area broken).
```

- Michael(tm) Smith: saxon65/src/com/nwalsh/saxon/Website.java; xalan27/src/com/nwalsh/xalan···

```
Copied over Website XSL Java extensions.
```

11   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, `glossentry` 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 ١.

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

11.1 Common

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

- 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.

11.2 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.

11.3 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.

11.4 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.

11.5 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.

11.6 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).

11.7 Roundtrip

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

- rename to roundtrip, add OpenOffice support

12 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.

12.1 Common

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

- `For backward compatability autoidx-ng.xsl is invoking "kosek" indexing method again.`

- `Add support for Xalan generating a root xml:base like saxon.`

12.2 FO

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

- `For backward compatability autoidx-ng.xsl 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.`

12.3 HTML

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

- `For backward compatability autoidx-ng.xsl 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.saxoni18n.Saxoni18nService" to xmlns:k="http://www.isogen.com/functions/com.isogen.saxoni18n.Saxoni18nService"; 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>
</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.)`

12.4 Highlighting

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

• `Added license information`

12.5 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.
```

12.6 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.)
```

12.7 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.`

13 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:

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.

13.1 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

13.2 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

13.3 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 programlistings.

- Chapter after preface should restart numbering of pages.

13.4 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".

- 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

13.5 Highlighting

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

• `Initial support of syntax highlighting of programlistings.`

13.6 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.`

13.7 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.

13.8 Tools

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

- Racheted 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.xsl files with doc embedded.

- Added variable to example makefile for controlling whether HTML or XHTML is generated.

14 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.

14.1 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 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

14.2 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

14.3 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

14.4 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.x
  params/revhistory.table.properties.xml,1.1; params/revhistory.title.properties.xml,1.1 - Jirka Kosek

15 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.

15.1 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. - 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 "setdesc" 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

15.2 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/
  extensions/xalan27/nbproject/project.xml,1.1; extensions/xalan27/src/com/nwalsh/xalan/CVS.java,1.1; extensions/xalan27/src/com/n
  extensions/xalan27/src/com/nwalsh/xalan/FormatCallout.java,1.1; extensions/xalan27/src/com/nwalsh/xalan/FormatDingbatCallout.ja
  extensions/xalan27/src/com/nwalsh/xalan/FormatGraphicCallout.java,1.1; extensions/xalan27/src/com/nwalsh/xalan/FormatTextCallo
  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/x-
  alan27/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

15.3 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

- 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 `Refname` (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/CommonLo

  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.extentions 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

- 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.xsl,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.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.prope - 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

  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

15.4 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.xsl,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.xsl,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.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

- 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

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

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

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

  Modified: html/formal.xsl,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">

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

  <div class="equation-contents"> 1+1=3 </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, us 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.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

- 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.xsl,1.45 - Michael(tm) Smith

15.5 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.xsl,1.74; manpages/info.xsl,1.20; manpages/lists.xsl,1.30; manpages/other.xsl,1.20; manpages/param.ent,1.22; manpages/param.xweb,1.24; manpages/refentry.xsl,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 footenotes, the string specified by the man.`table`.footnotes.divider parameter is output before the list of footnotes for the `table`.

Modified: manpages/docbook.xsl,1.73; manpages/links.xsl,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.xsl,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.xsl,1.71; manpages/param.ent,1.19; manpages/param.xweb,1.21; params/man.font.table.headings.xml,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.xsl,1.19; manpages/docbook.xsl,1.69; manpages/param.ent,1.18; manpages/param.xweb,1.20; manpages/synop.xsl,1.29; manpages/table.xsl,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.xsl,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.xsl,1.67; manpages/other.xsl,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(t 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.xsl,1.17; manpages/param.ent,1.15; manpages/param.xweb,1.17; params/refentry.meta.get.quietly.xml,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.xsl,1.66; manpages/info.xsl,1.19; manpages/lists.xsl,1.29; manpages/other.xsl,1.18; manpages/refentry.xsl,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.xsl,1.65; manpages/utility.xsl,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.xsl,1.15; manpages/docbook.xsl,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` outuput. I will instead add an option for indenting verbatims, which I think is what the `informalexample` indent was intended for originally.

  Modified: manpages/block.xsl,1.14; manpages/docbook.xsl,1.63; manpages/info.xsl,1.18; manpages/lists.xsl,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.xsl,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.xsl,1.62; manpages/utility.xsl,1.13 - Michael(tm) Smith

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

  Modified: common/common.xsl,1.59; common/refentry.xsl,1.14; manpages/docbook.xsl,1.61; manpages/other.xsl,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.xsl,1.59; manpages/info.xsl,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 eitther 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.xsl,1.58; common/refentry.xsl,1.7; params/man.th.extra2.max.length.xml,1.2; params/refentry.date.profi params/refentry.manual.profile.xml,1.2; params/refentry.source.name.profile.xml,1.2; params/refentry.version.profile.xml,1.2; manpages/docbook.xsl,1.58; manpages/other.xsl,1.15 - 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

- 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.xsl,1.11; manpages/docbook.xsl,1.55; manpages/table.xsl,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.xsl,1.54; manpages/table.xsl,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.xsl,1.10; manpages/docbook.xsl,1.51; manpages/inline.xsl,1.16; manpages/synop.xsl,1.27 - Michael(tm) Smith

- Use AUTHORS instead of `AUTHOR` if we have multiple people to attribute. Also, fixed checking such that we generate `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.xsl,1.12 - Michael(tm) Smith

- Changes for request #1243027, "Impove handling of `AUTHOR section`." This adds support for `Collab`, Corpauthor, Corpcredt, `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.xsl,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.xsl,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 supressed 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.xsl,1.23; manpages/utility.xsl,1.10 - Michael(tm) Smith

- Improved handling or 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.xsl,1.46; manpages/info.xsl,1.9; manpages/other.xsl,1.12; manpages/utility.xsl,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.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

15.6 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="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 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.xsl,1.74; manpages/info.xsl,1.20; manpages/lists.xsl,1.30; manpages/other.xsl,1.20; manpages/param.ent,1.22; manpages/param.xweb,1.24; manpages/refentry.xsl,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 footenotes, the string specified by the man.`table`.footnotes.divider parameter is output before the list of footnotes for the `table`.

  Modified: manpages/docbook.xsl,1.73; manpages/links.xsl,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.enable 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.separat 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.xsl,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.xsl,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.xsl,1.19; manpages/docbook.xsl,1.69; manpages/param.ent,1.18; manpages/param.xweb,1.20; manpages/synop.xsl,1.29; manpages/table.xsl,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.xsl,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.xsl,1.67; manpages/other.xsl,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(t 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.xsl,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 "setdesc" 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

- 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 eitther 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.xsl,1.58; common/refentry.xsl,1.7; params/man.th.extra2.max.length.xml,1.2; params/refentry.date.profi params/refentry.manual.profile.xml,1.2; params/refentry.source.name.profile.xml,1.2; params/refentry.version.profile.xml,1.2; manpages/docbook.xsl,1.58; manpages/other.xsl,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.xsl,1.10; manpages/docbook.xsl,1.51; manpages/inline.xsl,1.16; manpages/synop.xsl,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 gentext 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.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

- 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.xm - 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.labe - 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.prope - 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

  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

15.7 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 striping should work with all stylesheets named profile-, even if they are not supporting namespace stripping in a non-profiling variant.

  Modified: profiling/profile-mode.xsl,1.4; profiling/xsl2profile.xsl,1.7 - Jirka Kosek

- Moved profiling stage out of templates. This make possible to reuse profiled content by several templates and still maintaing node indentity (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.xsl,1.5 - Jirka Kosek

15.8 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

15.9 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.xsl,1.6; wordml/supported.xml,1.2; wordml/wordml-final.xsl,1.14 - Steve Ball

- added `bridgehead`

  Modified: wordml/docbook-pages.xsl,1.6; wordml/docbook.xsl,1.17; wordml/pages-normalise.xsl,1.5; wordml/template-pages.xml,1.
  wordml/template.dot,1.4; wordml/template.xml,1.14; wordml/wordml-final.xsl,1.13 - Steve Ball

- added blocks stylesheet to support bibliographies, glossaries and qandasets

  Modified: wordml/Makefile,1.4; wordml/README,1.3; wordml/blocks-spec.xml,1.1; wordml/docbook-pages.xsl,1.5; wordm-
  l/docbook.xsl,1.16; wordml/pages-normalise.xsl,1.4; wordml/sections-spec.xml,1.3; wordml/specifications.xml,1.13; wordml/templat
  pages.xml,1.6; wordml/template.dot,1.3; wordml/template.xml,1.13; wordml/wordml-blocks.xsl,1.1; wordml/wordml-final.xsl,1.12;
  wordml/wordml-sections.xsl,1.3 - Steve Ball

- added `mediaobject caption`

  Modified: wordml/docbook-pages.xsl,1.4; wordml/docbook.xsl,1.15; wordml/specifications.xml,1.12; wordml/template-pages.xml,1.
  wordml/template.dot,1.2; wordml/template.xml,1.12; wordml/wordml-final.xsl,1.11 - Steve Ball

- added callouts

  Modified: wordml/docbook-pages.xsl,1.3; wordml/docbook.xsl,1.14; wordml/pages-normalise.xsl,1.3; wordml/specifications.xml,1.1
  wordml/template-pages.xml,1.4; wordml/wordml-final.xsl,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.xsl,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.xsl,1.2; wordml/pages-normalise.xsl,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.xsl,1.8; wordml/wc
  sections.xsl,1.2 - Steve Ball

- fixed handling linebreaks when generating WordML added Apple Pages support

  Modified: wordml/docbook.xsl,1.13; wordml/template-pages.xml,1.2 - Steve Ball

16   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.

17   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.

17.1 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.xsl` file:

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

- 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'.

17.2 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.

17.3   Help

- Eclipse Help: Added support for generating olink database.

17.4   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.xsl: 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.

17.5 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, 'gtroff' 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 “ and ” 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 be 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

  svgalib(7)          Svgalib User Manual        svgalib(7) <-- header
  Svgalib 1.4.1        16 December 1999           svgalib(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 somwething 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 localiztion 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 (`) 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 is 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.

18   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.

19   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 `refnamediv`s.

- 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.admonintion.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 paramater `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 `refnamediv`s.

- Added support for xml:id

- `refsynopsisdiv` as a section for counting section levels

IMAGES

- Added new SVG admonition graphics and navigation images.

20 Release 1.67.2

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

21 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.xsl` 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.xsl"/>
  <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.Windows1252`; for example

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

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.xsl
```

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

- Saxon extensions: Removed Saxon 8 extensions from release package

22 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

23 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.

24   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.

25   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.

26   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 `table`s.
  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 paramater *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.

27 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 ane entire titlepage and make the entire 'recto' titlepage centered by specifying the font and alignment on the 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*.

28   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 aligment problems in `equation`s.

- 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".

29   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 seperate property sets for `figure`s, `example`s, `equation`s, `tables`s, and `procedure`s.

- Make `lineannotation`s italic.

- Support xrefstyle attribute.

- Make endterm on `xref` higher priority than xreflabel target.

- Glossary formatting improvements.

30   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`.

31 Release 1.57.0

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

32 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' `indexterm`s. 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 `bibliography`s and `glossary`s. (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.

33 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.

34 About dot-zero releases

DocBook Project "dot zero" releases should be considered *experimental* and are always followed by stable "dot one plus" releases, usually within two or three weeks. Please help to ensure the stability of "dot one plus" 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. Instead, you should wait for the "dot one" or greater versions.