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# DocBook XSL Stylesheet Release Notes

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These are the release notes for the DocBook XSL Stylesheets. At a minimum, this file attempts to document changes to the public APIs, particularly to user-configurable parameters. This file also provides a high-level overview of the features added in each release.

Bug fixes are (mostly) not documented here. For a complete list of changes, including descriptions of bug fixes, see the NEWS file, which is auto-generated from the checkin descriptions for changes in the project CVS repository.

## 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**.

# 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 .

## Common

- This release adds localizations for the following languages: Albanian, Amharic, Azerbaijani, Hindi, Irish (Gaelic), Gujarati, Kannada, Mongolian, Oriya, Punjabi, Tagalog, Tamil, and Welsh.
- Added support for specifying number format for auto labels for chapter, appendix, part, and preface. Controlled 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".

## 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.

## Help

- Eclipse Help: Added support for generating olink database.

## 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 `imageobject` 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`, `errormame`, `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`, `sgmltag`, `shortcut`, `state`, `street`, `structfield`, `structname`, `subscript`, `superscript`, `surname`, `symbol`, `systemitem`, `tag`, `termdef`, `token`, `trademark`, `type`, `uri`, `userinput`, `varname`, and `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.
- `110n.xsl`: Made language codes RFC compliant. Added a new boolean config parameter, `110n.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.

## man

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

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

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

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

The problem is that groff can end up hyphenating a lot of things that you don't want hyphenated (variable names and command names, for example). Keeping both justification and hyphenation disabled ensures that hyphens won't get inserted where you don't want 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`, `user-input`, `type`, and `varname`, and for filenames, and for URLs from `link`. It can be (re)enabled using the `man.hyphenate.computer.inlines`, `man.hyphenate.filenames`, and `man.hyphenate.urls` parameters.
- Implemented a new system for replacing Unicode characters. There are two parts to the new system: a "string substitution map" for doing "essential" replacements, and a "character map" that can optionally be disabled and enabled.

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

Here are some details...

The previous manpages mechanism for replacing Unicode symbols and special characters with roff equivalents (the `replace-entities` template) was not scalable and not complete. The mechanism handled a somewhat arbitrary selection of less than 20 or so Unicode characters. But there are potentially more than 800 Unicode special characters that have some groff equivalent they can be mapped to. And there are about 34 symbols in the Latin-1 (ISO-8859-1) block alone. Users might reasonably expect that if they include any of those Latin-1 characters in their DocBook source documents, they will get correctly converted to known roff equivalents in output.

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

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

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

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

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

`man.charmap.enabled` turns character-map support on/off

*man.charmap.use.subset* specifies that a subset of the character map is used instead of the full map

*man.charmap.subset.profile* specifies profile of character-map subset

*man.charmap.uri* specifies an alternate character map to use instead of the “standard” character map provided in the distribution

- Implemented out-of-line handling of display of URLs for links (currently, only for `ulink`). This gives you three choices for handling of links:

1. Number and list links. Each link is numbered inline, with a number in square brackets preceding the link contents, and a numbered list of all links is added to the end of the document.

2. Only list links. Links are not numbered, but an (unnumbered) list of links is added to the end of the document.

3. Suppress links. Don't number links and don't add any list of links to the end of the document. You can also choose whether links should be underlined. The default is “the works” -- list, number, and underline links. You can use the *man.links.list.enabled*, *man.links.are.numbered*, and *man.links.are.underlined* parameters to change the defaults. The default heading for the link list is REFERENCES. You can change that using the *man.links.list.heading* parameter.

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

Here are some details...

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

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

`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> ①  
  </info>  
  <refmeta>  
    <refentrytitle>gtk-options</refentrytitle> ②  
    <manvolnum>7</manvolnum> ③  
    <refmiscinfo class="source-name">GTK+</refmiscinfo> ④  
    <refmiscinfo class="version">1.2</refmiscinfo> ⑤  
    <refmiscinfo class="manual">GTK+ User's Manual</refmiscinfo> ⑥  
  </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>
```

- ① Sets the “date” part of the header/footer.
- ② Sets the “title” part.
- ③ Sets the “section” part.
- ④ Sets the “source name” part.
- ⑤ Sets the “version” part.
- ⑥ Sets the “manual” part.

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

extra1 field (date)

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

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

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

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

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

#### extra2 field (source)

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

The `man(7)` man page describes this as “the source of the command”, and provides the following examples:

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

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

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

Version version name

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

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

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

1. `*info/productnumber`
2. `*info/productnumber`
3. `refmeta/refmiscinfo[@class = 'version']`

4. *parentinfo/productnumber*

5. *\*info/productname*

6. *parentinfo/productname*

7. *refmeta/refmiscinfo*

8. [nothing found, so leave it empty]

extra3 field

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

1. *parentinfo/title*

2. parent's title

3. *refmeta/refmiscinfo*

4. [nothing found, so leave it empty]

- Reworked *\*info* gathering. For each *refentry* found, the stylesheets now cache its *\*info* content, then check for any valid parent of it that might have metainfo content and cache that, if found; they then 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.output.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 italic). The `man(7)` man page says:

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

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

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

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

## 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.

## Release 1.68.0

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

### FO

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

- Added backmatter elements and `article` to `toc` in `part`, since they are permitted by the DocBook schema/DTD.
- Added `mode="toc"` for `simplesect`, since it is now permitted in the `toc` if `simplesect.in.toc` is set.
- Moved hard-coded properties to `nongraphical.admonition.properties` and `graphical.admonition.properties` attribute sets.
- Added support for `sidebar-width` and `float-type` processing instructions in `sidebar`.
- For tables with HTML markup elements, added support for `dbfo bgcolor` PI, the attribute-sets named `table.properties`, `informaltable.properties`, `table.table.properties`, and `table.cell.padding`. Also added support for the templates named `table.cell.properties` and `table.cell.block.properties` so that tabstyles can be implemented. Also added support for tables containing only `tr` instead of `tbody` with `tr`.
- Added new parameter `hyphenate.verbatim.characters` which can specify characters after which a line break can occur in verbatim environments. This parameter can be used to extend the initial set of characters which contain only space and non-breakable space.
- Added `itemizedlist.label.markup` to enable selection of different bullet symbol. Also added several potential bullet characters, commented out by default.
- Enabled all id's in XEP output for external linking.

## HTML

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

## Images

- Added new SVG admonition graphics and navigation images.

# Release 1.67.2

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

# Release 1.67.1

This release includes a number of bug fixes; for details, see the WhatsNew file.

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/htm
<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:
<xsl:param name="saxon.character.representation" select="'native'"></xsl
</xsl:stylesheet>
```

Invoke Saxon with the `encoding.windows-1252` Java system property set to `com.nw-`  
`alsh.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.Document
-Djavax.xml.parsers.SAXParserFactory=org.apache.xerces.jaxp.SAXParserFac
-Djavax.xml.transform.TransformerFactory=com.icl.saxon.TransformerFactory
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

## Release 1.67.0

- A number of important bug fixes, documented in WhatsNew.
- 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 dif-  
ferent 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

## Release 1.66.1

- A number of important bug fixes, documented in WhatsNew.
- 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 un-numbered.
- 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`.

## Release 1.65.0

- A number of important bug fixes, documented in WhatsNew.
- 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.

## Release 1.64.1

General bug fixes and improvements. Sorry about the failure to produce an updated release notes file for 1.62.0—1.63.2

- 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.

## Release 1.61.0

Lots of bug fixes and improvements.

- Initial support for timestamp PI. From now you can use `<?dbtimestamp format="Y-m-d H:M:S"?>` to get current datetime in your document. Added localization support for datetime PI
- Added level 6 to test for `section` depth in `section.level` template so that `section.title.level6.properties` will be used for sections that are 6 deep or deeper. This should also cause a `h6` to be created in html output.
- Don't use SVG graphics if `use.svg=0`
- Now uses number-and-title-template for sections only if `section.autolabel` is not zero.
- Added missing 'english-language-name' attribute to the `l10n` element, and the missing 'style' attribute to the `template` element so the current gentext documents will validate.
- Corrected several references to parameter `qanda.defaultlabel` that were missing the "\$".
- Now accepts `admon.textlabel` parameter to turn off Note, Warning, etc. label.
- FeatReq #684561: support more XEP metadata
- Added hyphenation support. Added support for `coref`. Added `beginpage` support. (does nothing; see TDG).
- Added support for hyphenation-character, hyphenation-push-character-count, and hyphenation-remain-character-count
- Added `root.properties`, `ebnf.assignment`, and `ebnf.statement.terminator`
- Support bgcolor PI in table cells; make sure rowsep and colsep don't have any effect on the last row or column
- Handle `othercredit` on titlepage a little better
- Applied fix from Jeff Beal that fixed the bug that put secondary page numbers on primary entries. Same with tertiary page numbers on secondary entries.
- Added definition of missing variable `collection`.
- Make `footnote` formatting 'normal' even when it occurs in a context that has special formatting
- Added warning when `glossary.collection` is not blank, but it cannot open the specified file.

- Pick up the frame attribute on `table` and `informaltable`.
- `indexdiv/title` in non-autogenerated indexes are now picked up.
- Removed (unused) `component.title.properties`
- Move IDs from page-sequences down to titlepage blocks
- Use `proportional-column-width(1)` on more `tables`.

Use `proportional-column-width()` for header/footer tables; suppress `relative-align` when using FOP

- Check for `glossterm.auto.link` when linking firstterms; don't output gl. prefix on glossterm links
- Generate Part ToCs
- Support `glossary`, `bibliography`, and `index` in component ToCs.
- Refactored chunking code so that customization of chunk algorithm and chunk elements is more practical
- Support `textobject/phrase` on `inlinemediaobject`.
- Support 'start' PI on ordered lists
- Fixed test of \$toc PI to turn on qandaset TOC.
- Added process.chunk.footnotes to sect2 through 5 to fix bug of missing footnotes when chunk level greater than 1.
- Added parameter `toc.max.depth` which controls maximal depth of ToC as requested by PHP-DOC group.
- Exempted `titleabbrev` from preamble processing in lists, and fixed variablelist preamble code to use the same syntax as the other lists.
- Added support for elements between variablelist and first varlistentry since DocBook 4.2 supports that now.

## Release 1.60.1

Lots of bug fixes.

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

The `t:titlepage` and `t:titlepage-content` elements both generate wrappers now. And unqualified attributes on those elements are passed through. This means that you can now make the title font apply to an entire titlepage and make the entire “recto” titlepage centered by specifying the font and alignment on those elements:

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

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

- Support use of `titleabbrev` in running headers and footers.
- Added (experimental) `xref.with.number.and.title` parameter to enable number/title cross references even when the default would be just the number.
- Generate part ToCs if they're requested.
- Use proportional-column-width() in header/footer tables.
- Handle alignment correctly when `screenshot` wraps a graphic in a `figure`.
- Format `chapter` and `appendix` cross references consistently.
- Attempt to support tables with multiple `tgroups` in FO.
- Output `fo:table-columns` in `simplelist` tables.
- Use `titlepage.templates.xml` for `indexdiv` and `glossdiv` formatting.
- Improve support for new bibliography elements.
- Added `footnote.number.format`, `table.footnote.number.format`, `footnote.number.symbols`, and `table.footnote.number.symbols` for better control of footnote markers.

- Added `glossentry.show.acronyms`.
- Suppress the draft-mode page masters when `draft-mode` is “no”.
- Make blank pages verso not recto. D'Oh!
- Improved formatting of `ulink` footnotes.
- Fixed bugs in graphic width/height calculations.
- Added class attributes to inline elements.
- Don't add “.html” to the filenames identified with the “dbhtml” PI.
- Don't force a ToC when sections contain `refentries`.
- Make section title sizes a function of the `body.master.size`.

## Release 1.59.2

The 1.59.2 fixes an FO bug in the page masters that causes FOP to fail.

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

## Release 1.59.1

The 1.59.1 fixes a few bugs.

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

- Support `xrefstyle` attribute.
- Make `endterm` on `xref` higher priority than `xreflabel` target.
- Glossary formatting improvements.

## Release 1.58.0

The 1.58.0 adds some initial support for extensions in `xsltproc`, adds a few features, and fixes bugs.

- 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`.

## Release 1.57.0

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

## Release 1.56.0

The 1.56.0 release fixes bugs.

- Reworked chunking. *This will break all existing customizations layers that change the chunking algorithm.* If you're customizing chunking, look at the new “content” parameter that's passed to `process-chunk-element` and friends.
- Support continued and inherited numeration in `orderedlist` formatting for FOs.
- Added Thai localization.
- Tweaked stylesheet documentation stylesheets to link to TDG and the parameter references.
- Allow title on tables of contents (“Table of Contents”) to be optional. Added new keyword to `generate.toc`. Support tables of contents on sections.
- Made separate parameters for table borders and table cell borders: `table.frame.border.color`,  
`table.frame.border.style`,  
`table.frame.border.thickness`,

`table.cell.border.color`, `table.cell.border.style`, and `table.cell.border.thickness`.

- Suppress formatting of “endofrange” `indexterms`. This is only half-right. They should generate a range, but I haven’t figured out how to do that yet.
- Support `revdescription`. (Bug #582192)
- Added `default.float.class` and fixed figure floats. (Bug #497603)
- Fixed formatting of `sbr` in FOs.
- Added context to the “missing template” error message.
- Process `arg` correctly in a `group`. (Bug #605150)
- Removed ‘keep-with-next’ from `formal.title.properties` attribute set now that the stylesheets support the option of putting such titles below the object. Now the \$placement value determines if ‘keep-with-next’ or ‘keep-with-previous’ is used in the title block.
- Wrap “url()” around external-destinations when appropriate.
- Fixed typo in compact list spacing. (Bug #615464)
- Removed spurious hash in anchor name. (Bug #617717)
- Address is now displayed verbatim on title pages. (Bug #618600)
- The `bridgehead.in.toc` parameter is now properly supported.
- Improved effectiveness of HTML cleanup by increasing the number of places where it is used. Improve use of HTML cleanup in XHTML stylesheets.
- Support table of contents for `appendix` in `article`. (Bug #596599)
- Don’t duplicate footnotes in `bibliographys` and `glossarys`. (Bug #583282)
- Added `default.image.width`. (Bug #516859)
- Totally reworked `funcsynopsis` code; it now supports a ‘tabular’ presentation style for ‘wide’ prototypes; see `funcsynopsis.tabular.threshold`. (HTML only right now, I think, FO support, uh, real soon now.)
- Reworked support for difference marking; toned down the colors a bit and added a “`system.head.content`” template so that the diff CSS wasn’t overriding “`user.head.content`”. (Bug #610660)
- Added call to the “`*.head.content`” elements when writing out long description chunks.
- Make sure `legalnotice` link is correct even when chunking to a different `base.dir`.
- Use CSS to set viewport characteristics if `css.decoration` is non-zero, use `div` instead of `p` for making graphic a block element; make figure `titles` the default alt text for images in a `figure`.
- Added space-after to `list.block.spacing`.
- Reworked section.level template to give “correct” answer instead of being off by one.

- When processing tables, use the `tabstyle` attribute as the division class.
- Fixed bug in `html2xhtml.xsl` that was causing the XHTML chunker to output HTML instead of XHTML.

## 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.

## About dot-zero releases

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

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