xtpxlib-xdoc

An xtpxlib component for generating documentation

Erik Siegel - Xatapult
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0   Documentation generation with xtpxlib-xdoc

Parameter	Value
DATE	2019-11-21
DATETIME	2019-11-21 12:06:07
HREF-SOURCE	file:///C:/Data/Erik/work/xatapult/xtpxlib-xdoc/doc/source/xtpxlib-xdoc-componentdoc.xml
TBD-DELETE-LATER	bla bla bla
TIME	12:06:07
author-email-address	erik@xatapult.com
author-name	Erik Siegel
component-dependencies	xtpxlib-common xtpxlib-container
component-name	xtpxlib-xdoc
core-component-name	xtpxlib-common
current-release-date	2019-11-11
current-release-version	1.0
git-uri	git@github.com:eriksiegel/xtpxlib-xdoc.git
github-pages-uri	http://www.xatapult.nl
library-name	xtpxlib
owner-company-github	https://github.com/xatapult
owner-company-name	Xatapult Content Engineering
owner-company-phone	+31 6 53260792
owner-company-website	http://www.xatapult.com

Table 0-1 - Parameters

Component **xtpxlib-xdoc** version 1.0 - 2019-11-11

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xtpxlib-xdoc is a component for generating documentation. It uses DocBook 5.1 + additional markup and has (currently) PDF and XHTML as output formats. It can also generate component documentation (like you're looking at now), as a simple website and PDF.

xtpxlib-xdoc is part of the **xtpxlib** library. **xtpxlib** contains software for processing XML, using languages like XSLT and XProc. It consists of several separate components, named `xtpxlib-*`. Everything can be found on GitHub (https://github.com/xatapult). The core component of `xtpxlib` is `xtpxlib-common`. Most components will be accompanied by a GitHub pages documentation site (TBD).

https://github.com/xatapult/ xtpxlib-common

xtpxlib-xdoc's main points:

- **xtpxlib-xdoc**'s starting point is documentation written in DocBook 5.1 plus extensions. This source format is called *xdoc*.
- xdoc has two kinds of extensions:
  - Parameters, coming from a parameter file, that are expanded. This useful for, for instance, status information, dates/times, standard words and phrases, etc. [TBD LINK]
  - The so-called xdoc transforms. These transformations convert something into DocBook and insert the result back in the main document. This is used for, for instance code documentation generation. There are standard transformations but you can also write your own (in XSLT or XProc).
- An xdoc document can be converted into pure DocBook by an XProc pipeline [TBD LINK]
- Additional XProc pipelines [TBD LINK] convert this DocBook into PDF (through XSL-FO) or basic XHTML.
- This mechanism also serves as a basis for documentation generation of complete software components [TBD LINK]. The result's are meant to be used as GitHub pages.
- Noteworthy additional functionality is an XProc module [TBD LINK] that converts (simple) Markdown into DocBook.

An extensive explanation of **xtpxlib-xdoc** can be found here.

xtpxlib-xdoc is created by:

1 Introduction

1.1 Installing and running xtpxlib-xdoc

[TBD]

1.2 How does xtpxlib-xdoc work?

[TBD] xdoc to docbook to ...

The `xtpxlib-xdoc` module uses DocBook 5.1 as its target vocabulary. However, it does not implement the full standard (which is huge!) but only those elements/attributes that were deemed necessary. The `xtpxlib-xdoc` component adds several extensions which are tested by running this document through the conversion pipelines. This means it also serves as partial documentation and example.

2 Code documentation

2.1 XProc 1.0 pipeline: xdoc-to-componentdoc-website.xpl (xdoc:xdoc-to-componentdoc-website)

File: `xpl/xdoc-to-componentdoc-website.xpl`

Creates a documentation website for a component from an xdoc book style document. Relative names are resolved against the base URI of the *source document*.

Port	Tp.	Pr?	Description
source	in	*	The DocBook source with xdoc extensions to create the website from
result	out	*	TBD???

Option	Rq?	Default	Description
component-name	*		The name of the component (e.g. `xtpxlib-xdoc`) for which the documentation is generated.
global-resources-directory		()	The name of the subdirectory that contains global resources (resources used for documenting a group of components).
href-global-parameters		()	Optional global parameters file. The parameters from this file will be merged in as well.
href-parameters		()	Reference to an optional document with parameter settings. See the xtpxlib-common parameters.mod.xsl module for details.
href-template	*		TBD
href-version-information		()	Reference to an optional standard xtpxlib version in formation document.
output-directory	*		The name of the output directory for the generated website.
parameter-filters		()	Filter settings for processing the parameters. Format: "name=value|name=value|..."
resources-subdirectory		()	The *relative* name of the subdirectory that contains specific resources (like CSS, images, etc.) for this component.

3 xdoc transforms

[TBD]

4 DocBook dialect

[TBD]