

xtpxlib-xdoc

An xtpxlib component for generating documentation

0 Table of Contents

0 Documentation generation with xtpplib-xdoc	2
1 Introduction	3
1.1 Installing and running xtpplib-xdoc	3
1.2 How does xtpplib-xdoc work?	3
2 Code documentation	4
2.1 XProc 1.0 pipeline: xdoc-to-componentdoc-website.xpl (xdoc:xdoc-to-componentdoc-website)	4
3 xdoc transforms	5
4 DocBook dialect	6

0 Documentation generation with xtpplib-xdoc

Component **xtpplib-xdoc** version 1.1 - 2019-11-21

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xtpplib-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.

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

xtpplib-xdoc's main points:

- **xtpplib-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 **xtpplib-xdoc** can be found [here](#).

xtpplib-xdoc is created by:

The logo for Xatapult Content Engineering. It features a stylized 'X' made of two overlapping chevrons, followed by the word 'ATAPULT' in a bold, serif, all-caps font.

CONTENT ENGINEERING

1 Introduction

1.1 Installing and running xtpplib-xdoc

[TBD]

1.2 How does xtpplib-xdoc work?

[TBD] xdoc to docbook to ...

The `xtpplib-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 `xtpplib-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-parameters		()	Reference to an optional document with parameter settings. See the xtpxlib-common parameters.mod.xsl module for details.
href-template	*		TBD
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 <i>relative</i> name of the subdirectory that contains specific resources (like CSS, images, etc.) for this component.

3 xdoc transforms

[TBD]

4 DocBook dialect

[TBD]