

xtpxlib

An XML processing library

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0 XML processing xtpxlib library

Xatapult Content Engineering - <http://www.xatapult.com> - +31 6 53260792
Erik Siegel - erik@xatapult.com

xtpxlib is an open source library containing software for processing XML, using XSLT (*2.0 and 3.0) and XProc (1.0 and 3.0). It consists of several separate components, all named `xtpxlib-*`. Everything can be found on GitHub (<https://github.com/xatapult>). See its [description](#) for more information. Installation and usage instructions can be found [here](#).

The Xatapult XML Library currently consists of the following components:

Component	Description
xtpxlib-common	Common component: Shared libraries and IDE support
xtpxlib-container	Support for XML containers (multiple files wrapped into one)
xtpxlib-xoffice	Conversions between Word/Excel and XML
xtpxlib-xdoc	DocBook publication toolchain

1 Description

The **xtpxlib** library is an open source library containing software for processing XML, using languages like XSLT and XProc. It consists of several separate [components](#). I've tried to document everything on the accompanying GitHub pages.

Some highlights (the parts I use most often):

- The [xtpxlib-common](#) component contains several [XSLT modules](#). For instance:
 - [general.mod.xsl](#) contains a lot of small utility functions and templates. For instance capitalize a string, safe conversions from strings to other data types, etc.
 - [href.mod.xsl](#) is a library I use very often. It contains all kinds of href (filename or web address) juggling functions. For instance get the name/extension/path portion of an href, get/replace/delete its protocol, canonicalize an href (replace the . and . . parts, compute relative href-s, etc.
 - [parameters.mod.xsl](#) contains code for the general handling of parameters and the substitution of parameter values in texts. There is a separate [parameters documentation section](#) about this.
- The <https://container.xtpxlib.org/> component contains code for handling *XML containers*: Constructs that provide support for working with multiple related files by wrapping them into a single one. Binary files are referenced instead of included. Also a very useful technique if you need to create a lot of files (like when you're generating a website).
- The <https://xoffice.xtpxlib.org/> component contains an [XProc pipeline](#) for turning Excel sheets into much more legible and processable XML. This allows Excel to be used as a user interface to data-driven XML applications.
- The [xtpxlib-xdoc](#) component contains a [toolchain](#) for DocBook driven documentation. Among its functionality are [pipelines](#) with mechanisms for generating DocBook from other markup. It also contains custom PDF and HTML generating.

2 Usage

2.1 Installing xtpxlib components

To install an **xtpxlib** component, first go to its documentation home page to find details about where it is on GitHub and the Git URI you need for cloning it:

Component	Description
xtpxlib-common	Common component: Shared libraries and IDE support
xtpxlib-container	Support for XML containers (multiple files wrapped into one)
xtpxlib-xoffice	Conversions between Word/Excel and XML
xtpxlib-xdoc	DocBook publication toolchain

Then do one of the following:

- Clone its GitHub repository to some appropriate location on disk. The master branch will always contain the latest stable version.
- Or download the latest release zip from its git website (releases page) and unpack it somewhere.

That's all folks...

2.2 Running xtpxlib components

xtpxlib consists of XSLT (2.0 and 3.0) stylesheets and XProc (1.0 and 3.0) pipelines. To run these you'll need:

- **XSLT:**
To run XSLT stylesheets, the [Saxon](#) processor is preferred. In most cases the (open source) HE (Home Edition) version will be sufficient.
As an alternative, run the software from within the [oXygen XML](#) IDE.
- **XProc 1.0:**
To run the XProc 1.0 pipelines, use the [XML Calabash](#) Xproc 1.0 processor. The xtpxlib library uses several of its non-standard extensions, another XProc processor is therefore not (directly) usable.
As an alternative, run the software from within the [oXygen XML](#) IDE.
WARNING: The XProc 1.0 pipelines are no longer actively maintained.
- **XProc 3.0:**
To run the XProc 3.0 pipelines, use the [MorganaXProc-III](#) processor. For some of the more advanced pipelines (mainly the ones in xtpxlib-xdoc) you need the EE version, for which a license is required.