

xtpxlib

An XML processing library

0 Table of Contents

| | |
|---|----------|
| 0 XML processing xtpplib library | 2 |
| 1 Description | 3 |
| 2 Usage | 4 |
| 2.1 Installing xtpplib components | 4 |
| 2.2 Running xtpplib components | 4 |

0 XML processing xtpxlib library



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xtpxlib is an open source library containing software for processing XML, using languages like XSLT and XProc. 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 from Word and Excel files into 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) |
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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 mainly of XProc (1.0) pipelines and XSLT (2.0 and 3.0) stylesheets. To run these you'll need:

- To run the XProc 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.
- To run XSLT stylesheets the [Saxon](#) processor is preferred. In most cases the (open source) HE (Home Edition) version will be sufficient. If not a PE (Professional Edition) license is necessary.
- As an alternative, run the software from within the [oXygen XML](#) IDE.