TEST module

Test document for generating module documentation

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1 Preface part

Can we do something with the preface part, like using it for a home page?

2 Introduction

WARNING:

This document is for testing the features of the xtpxlib-xdoc component.

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.

3 Stuff

3.1 Parameters

Parameter	Value
DATE	2019-11-07
DATETIME	2019-11-07 11:14:49
HREF-PARAMETERS	
HREF-SOURCE	file:///C:/Data/Erik/work/xatapult/xtpxlib-xdoc/test/xdoc-moduledoc-test.xml
TIME	11:14:49

Table 3-1 - Parameters

3.2 Coming from transformations

Comes from an XProc transformation:

Line 1 from test.xpl

Line 2 from test.xpl

Comes from an XSLT transformation:

From the test.xsl

3.3 XML Descriptions

Main description of p:declare-step...

The attribute-table-header, yoho!

Attribute	#	Туре	Description	1
name	?	xs:NCName	_	of this step. You need this name to refer to
		Bla bla bla additioal type description	its ports fro	om within the step itself.
type	?	xs:QName	The value of this step.	of the type attribute is used to invoke/call
			must use a	namespace prefix (and of course this prefix clared). You cannot use the XProc p:
psvi-required	?	xs:boolean	Default: fa	
				not PSVI ("Post Schema Validation apport is required.
			with your X added when Advanced X this to make	As you to carry type information together KML document. PSVI information is in validating documents against a schema. XSLT and other transformations can use e decisions based on the type of something ints or attributes).
			If your XPr set this attr PSVI-support to execute to	roc transformation requires PSVI support, ibute to true. This will make sure that non-orting XProc processors will not even dare them.
xpath-version	?	xs:decimal	Default: 3.	· -
				version that must be used for evaluating the ressions within the pipeline.
			support is 3 lower than	alue XProc 3.0 processors are required to 3.1. It's not allowed to specify a version 3.1 and whether your XProc processor gher values is implementation defined.
			latest and g starts support	rsion of XPath arrives (if ever) <i>and</i> the greatest release of your XProc processor orting this, there might be a good reason to the new (higher) value. In all other cases I don't bother.
exclude-inline- prefixes	?	xs:string	Defines wh	nat to do with inline namespace definitions cuments
version	?	xs:decimal		fies the XProc version for your pipeline.
			_	: This attribute is <i>mandatory</i> on
			element of	re-step> elements that are the root a document. It is <i>optional</i> on nested re-step> elements (if not set, these inherit
			If specified	setting from their parent). I, its value <i>must</i> be 3.0. Specifying a
				alue is an error.
visibility	?	xs:string	pipeline wh	hether this step is visible for the importing nen part of a library (<p:library>, see . If not part of a library the attribute is ignored.</p:library>
			Value	Description
			public	The step is visible to the importing pipeline
			private	The step is <i>in</i> visible to the importing pipeline and can only be used in the library itself.

The elements in the prolog of a p:declare-step> are about:

- Imports of external XProc pipelines, libraries or XPath function libraries.
- Declaring static variables.
- Declarations of input ports, output ports, options and/or variables.
- Declarations of locally defined steps.

Child element	#	Description
p:import	*	Imports a step from an external source.
		You can also use this to import step <i>libraries</i> .
p:import-functions	*	Imports functions (not global variables) from another language so these become useable inside the XPath expressions in your pipeline. The most common ones are XSLT and XQuery libraries, but other languages are not ruled out. Whether importing functions is supported is implementation specific.
p:input	*	Declares an input port for this step.
p:output	*	Declares an output port for this step.
p:option	*	Declares an option for this step.
p:variable	*	Declares a variable.
		Variables declared in the prolog must be <i>static</i> (they must always carry the static="true" attribute).
p:declare-step	*	Use nested <p:declare-step> elements to declare steps that are local to the encompassing step. The effect is the same as for steps imported by a <p:import> element.</p:import></p:declare-step>
		You may also use this element to declare an atomic step.

3.4 Documentation generation

3.4.1 XSLT Module

File: test.mod.xsl

XSLT library module with general constants and code.

Prefix	Namespace
xtlc	http://www.xtpxlib.nl/ns/common

Table 3-5 - Namespaces in test.mod.xsl

Parameter	Туре	Required	Default	Description
xyz	xs:string	true		Trala la la
xyz2	xs:string	false	'yeah'	Trala la la more

Table 3-6 - Parameters in test.mod.xsl

Variable	Description
<pre>\$xtlc:default-dt-format</pre>	Default date/time format string (yyyy-mm-dd).
<pre>\$xtlc:default-dt-format-en</pre>	Date/time format string (English: mm-dd-yyyy).
<pre>\$xtlc:default-dt-format-nl</pre>	Date/time format string (Dutch: dd-mm-yyyy).
<pre>\$xtlc:internal-error-prompt</pre>	Add this in front of any internal error raised.
\$xtlc:language-en	Language code for English
\$xtlc:language-nl	Language code for Dutch
<pre>\$xtlc:namespace-xtlc-common</pre>	Name of the xtpxlib common namespace.
\$xtlc:status-codes	Sequence with all valid status codes.
\$xtlc:status-debug	Generic debug status/severity code.
\$xtlc:status-error	Generic error status/severity code.
\$xtlc:status-info	Generic info (a.k.a. OK) status/severity code.
\$xtlc:status-warning	Generic warning status/severity code.

Table 3-7 - Variables in test.mod.xsl

Function	Description
xtlc:att2str	Turns an attribute into a string representation, suitable for display.
xtlc:capitalize	Capitalizes a string (makes the first character uppercase).
xtlc:char-repeat	Returns a string with a single character repeated a given number of times.
xtlc:elm2str	Turns an element into a descriptive string (the element with all the attributes (excluding schema references).
xtlc:item2element	Tries to find the element belonging to a given item:
xtlc:items2str	Creates a string from a sequence of items. Useful for easy creation of messages consisting of multiple parts and pieces.
xtlc:prefix-to-length	Prefixes a string with a given character so it will get at least a given length.
xtlc:q	Returns the input string quoted ("\$in")
xtlc:str2bln	Safe conversion of a string into a boolean.
xtlc:str2id	Turns a string into a valid identifier, adding a prefix.
xtlc:str2id	Turns a string into a valid identifier.
xtlc:str2int	Safe conversion of a string into an integer.
xtlc:str2seq	Converts a string with a list of words into a sequence of words.

Table 3-8 - Functions in test.mod.xsl

Named template	Description
xtlc:raise-error	Stops any processing by raising an error.

Table 3-9 - Named templates in test.mod.xsl

Function: xtlc:att2str => xs:string

Turns an attribute into a string representation, suitable for display.

Parameter	Type	Description
att	attribute()?	Attribute to convert.

Function: xtlc:capitalize => xs:string

Capitalizes a string (makes the first character uppercase).

Parameter	Type	Description
in	xs:string	The string to work on.

Function: xtlc:char-repeat => xs:string

Returns a string with a single character repeated a given number of times.

Parameter	Type	Description
char	xs:string	The first character of this string is the character to repeat. If empty, an empty string is returned.
repeat	xs:integer	The number of repeats. If ≤ 0 , an empty string is returned.

Function: xtlc:elm2str => xs:string

Turns an element into a descriptive string (the element with all the attributes (excluding schema references).

Parameter	Type	Description
elm	element()?	Element to convert

Function: xtlc:item2element => element()?

Tries to find the element belonging to a given item:

- When the item is of type xs:string or xs:anyURI, it is assumed to be a document reference. The root element of this is returned.
- When the item is of type document-node(), the root element of this document is returned
- When the item is of type element(), this is returned

You can choose whether to produce an error message or () when the item cannot be resolved.

Parameter	Type	Description
item	item()	The item to work on
error-on-non-resolve	xs:boolean	Whether to generate an error when \$item could not be resolved. Otherwise, the function will return ().

Function: xtlc:items2str => xs:string

Creates a string from a sequence of items. Useful for easy creation of messages consisting of multiple parts and pieces.

Parameter	Type	Description
items	item()*	The message parts to combine

Function: xtlc:prefix-to-length => xs:string

Prefixes a string with a given character so it will get at least a given length.

Parameter	Type	Description
in	xs:string	String to prefix
prefix-char	xs:string	String to prefix with. Only first character is used. If empty, a * is used.
length	xs:integer	The length to reach.

Function: xtlc:q => xs:string

Returns the input string quoted ("\$in")

Parameter	Type	Description
in	xs:string?	String to convert.

Named template: xtlc:raise-error

Stops any processing by raising an error.

Parameter	Type	Required	Default	Description
msg-parts	item()+	true		Error message to show (in parts, all parts will be concatenated by xtlc:items2str()).
error-name	xs:string	false	\$xtlc:status-error	The (optional) name of the error. Must be a NCName.

Function: xtlc:str2bln => xs:boolean

Safe conversion of a string into a boolean. When \$in is empty or not convertible into a boolean, \$default is returned.

Parameter	Type	Description
in	xs:string?	String to convert.
default	xs:boolean	Default value to return when \$in is empty or cannot be converted.

Function: xtlc:str2id => xs:string

Turns a string into a valid identifier, adding a prefix. All characters that are not allowed in an identifier are converted into underscores. When the result does not start with a letter or underscore, the extra prefix 'id-' is added.

Parameter	Type	Description
in	xs:string	String to convert.
prefix	xs:string?	Prefix to apply.

Function: xtlc:str2id => xs:string

Turns a string into a valid identifier. All characters that are not allowed in an identifier are converted into underscores. When the result does not start with a letter or underscore, the extra prefix 'id-' is added.

Parameter	Type	Description
in	xs:string	String to convert.

Function: xtlc:str2int => xs:integer

Safe conversion of a string into an integer. When \$in is empty or not convertible into an integer, \$default is returned.

Parameter	Type	Description	
in	xs:string?	String to convert.	
default	xs:integer	Default value to return when \$in is empty or cannot be converted.	

Function: xtlc:str2seq => xs:string*

Converts a string with a list of words into a sequence of words.

Parameter	Type	Description
in	xs:string?	String to convert.

3.4.2 XPROC Module

File: data/test.mod.xpl

XProc library with generic steps.

Prefix	Namespace
xtlc	http://www.xtpxlib.nl/ns/common

Table 3-24 - Namespaces in test.mod.xpl

Step	Description
xtlc:copy-directory	Copies a full directory structure.
xtlc:copy-file	Copies a file, if necessary from inside a zip file.
xtlc:log	Writes a message to a log file.
xtlc:recursive-directory-	Returns the contents of a directory, going into sub-directories recursively.
xtlc:remove-dir	Removes a full directory (since the normal processing using pxf:delete does not work properly some older Calabash versions:-()
xtlc:tee	Tees the input to a file and passes it unchanged (like the Unix tee command).
xtlc:zip-directory	Zips a directory and its sub-directories into a single zip file.

 $Table \ 3\text{-}25 - Steps \ in \ test.mod.xpl$

Step: xtlc:copy-directory

Copies a full directory structure.

Port	Type	Description
source	input, primary	Input, will be passed unchanged.
result	output, primary	The input unchanged.

Option	Required	Description
href-source-dir	true	Reference to the directory to copy from.
href-target-dir	true	Reference to the directory to copy to.

Step: xtlc:copy-file

Copies a file, if necessary from inside a zip file.

IMPORTANT: For older versions of Calabash (before January 2017) there is a huge bug in this step: A file inside a zip file must have a straight filename without any characters that normally would have been escaped (like, the most inportant one, spaces).

Port	Type	Description
source	input, primary	Input, will be passed unchanged.
result	output, primary	The input unchanged.

Option	Required	Default	Description
href-source	true		Reference to the source file to copy.
href-source-zip	false	1 1	Document reference to a zip file. When filled, \$href-source is assumed to be a path inside this zip.
href-target	true		Reference to the target.
enable	false	true()	Whether the copying is done at all.

Step: xtlc:log

Writes a message to a log file.

Port	Type	Description
source	input, primary	Input to the logging, will be passed unchanged to the output
result	output, primary	The input unchanged.

Option	Required	Default	Description
href-log	true		Name of the file to write the logmessages to (must have a leading file://specifier!)
enable	false	true()	Whether the logging is done at all.
status	false	'ok'	Status of the message. Must be ok, warning, error or debug.
message	true		The actual log message
keep-messages	false	100	The number of messages to keep in the logfile. If le 0, all messages are kept. Set by default to 100 to prevent overflowing files

Step: xtlc:recursive-directory-list

Returns the contents of a directory, going into sub-directories recursively. When the requested directory does not exist, it returns only a c:directory root element with @error="true".

Adapated from Norman Walsh example code at https://github.com/xquery/xquerydoc/blob/master/deps/xmlcalabash/recursive-directory-list.xpl

Port	Type	Description
result	output, primary	The resulting directory structure listing in XML format.

Option	Required	Default	Description
path	true		The path to get the directory listing from.
include-filter	false		An optional regexp include filter.
exclude-filter	false		An optional regexp exclude filter.
depth	false	-1	The sub-directory depth to go. When le 0, all sub-directories are processed.
flatten	false	false()	When true, the list will be "flattened": Only c:file children within the root c:directory element. All c:file elements have a @name, @hrefabs (absolute filename) and @href-rel (relative filename) attribute.

Step: xtlc:remove-dir

Removes a full directory (since the normal processing using pxf:delete does not work properly some older Calabash versions...:-() When the directory does not exist everything continues without error.

Port	Type	Description
source	input, primary	Input, will be passed unchanged.
result	output, primary	The input unchanged.

Option	Required	Default	Description	
href-dir	true		Reference to the directory to remove.	
enable	false	true()	Whether the removal is done at all.	

Step: xtlc:tee

Tees the input to a file and passes it unchanged (like the Unix tee command).

Port	Type	Description
source	input, primary	Input to the tee.
result	output, primary	The input unchanged (unless \$root-attribute-href was specified).

Option	Required	Default	Description
href	true		Name of the file to write to (must have a leading file://specifier!)
enable	false	true()	Whether to actually do the write. When false nothing happens.
root-attribute-href	false	1 1	If filled, \$href is recorded as an attribute with this name on the root element of the original input. Must be a valid attribute name.

Step: xtlc:zip-directory

Zips a directory and its sub-directories into a single zip file.

Port	Type	Description
result	output, primary	The output of the actual zip step, listing all the files that went in

Option	Required	Default	Description
href-target-zip	true		Document reference for the zip file to produce (must have a leading file:// specifier!)
include-base	false	true()	When true, the last part of \$base-path (e.g. $a/b/c ==> c$) is used as the root directory in the zip file.
base-path	true		Directory which contents will be stored in the zip (must have a leading file:// specifier!)

3.4.3 XPROC Step

 $File: \verb|C:/Data/Erik/work/xatapult/xtpxlib-xdoc/test/data/test.xpl|\\$

TBD

Port	Type	Description
source	input, primary	The document to generate documentation for, wrapped in an xdoc:transform element.
result	output, primary	The resulting docbook 5 output

Option	Required	Description
blabla	true	More bla

3.4.4 XSD

File: C:/Data/Erik/work/xatapult/xtpxlib-xdoc/test/data/test.xsd

This schema describes the intermediate format used for docgen

Global element	Description
document	The description of a (code) document according to the docgen intermediate
	format

3.4.5 XML

Some utter nonsense