Location Paths [XPath §2]

Optional '/', zero or more location steps, separated by '/'

Location Steps [XPath §2.1]

Axis specifier, node test, zero or more predicates

Axis Specifiers [XPath §2.2]

following-sibling:: ancestor:: ancestor-or-self:: namespace:: attribute:: parent:: child:: preceding:: preceding-sibling::

descendant-or-self:: self::

following::

descendant::

Node Tests [XPath §2.3]

name node() URI:name text() prefix:name comment()

processing-instruction() prefix:* processing-instruction(literal)

Abbreviated Syntax for Location Paths

(nothing)	child::
@	attribute::
//	/descendant-or-self::node()/
	self::node()
	parent::node()
/	Node tree root

Predicate [XPath §2.4]

[expr]

Variable Reference [XPath §3.7]

\$aname

Literal Result Elements [§7.1.1]

Any element not in the xsl: namespace and not an extension element

XSLT

http://www.w3.org/TR/xslt

XPath

http://www.w3.org/TR/xpath

XSL-List

http://www.mulberrytech.com/xsl/xsl-list/



XPath Operators

Parentheses may be used for grouping.

Node-sets [XPath §3.3]

// [expr]

Booleans [XPath §3.4]

<=, <, >=, > =, != and or

Numbers [XPath §3.5]

*. div. mod +. --expr

XPath Core Function Library

Node Set Functions [XPath §4.1]

number last() number position() number count(node-set) node-set id(object)

string local-name(node-set?) string namespace-uri(node-set?)

string name(node-set?)

String Functions [XPath §4.2]

string string(object?)

string concat(string, string, string*) boolean starts-with(string, string) boolean contains(string, string) string substring-before(string, string) string substring-after(string, string) string substring(string, number, number?) number string-length(string?)

string normalize-space(string?) string translate(string, string, string)

Boolean Functions [XPath §4.3]

boolean boolean(object) boolean not(object) boolean true() boolean false() boolean lang(string)

Number Functions [XPath §4.4]

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number number(object?) number **sum**(node-set) number floor(number) number ceiling(number) number round(number)

XSLT and XPath Quick Reference

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XSLT Functions [§12, §15]

node-set document(object, node-set?)

node-set key(string, object)

string format-number(number, string, string?)

node-set current()

string unparsed-entity-uri(string)

string generate-id(node-set?)

object system-property(string)

boolean element-available(string)

boolean function-available(string)

Node Types [XPath §5]

Root **Processing Instruction**

Element Comment Attribute Text

Namespace

Object Types [§11.1, XPath §1]

boolean	True or false
number	Floating-point number
string	UCS characters
node-set	Set of nodes selected by a path
Result tree fragment	XSLT only. Fragment of the result tree

Expression Context [§4, XPath §1]

Context node (a node)

Context position (a number) Context size (a number)

Variable bindings in scope

Namespace declarations in scope

Function library

Built-in Template Rules [§5.8]

<xsl:template match="*|/"> <xsl:apply-templates/>

</xsl:template>

<xsl:template match="*|/" mode="m"> <xsl:apply-templates mode="m"/>

</xsl:template>

<xsl:template match="text()|@*">

<xsl:value-of select="."/>

</xsl:template>

<xsl:template

match="processing-instruction()|comment()"/>

Built-in template rule for namespaces is to do nothing



XSLT Elements

Stylesheet Element [§2.2]

<xsl:stylesheet version="1.0" id="id"
 extension-element-prefixes="tokens"
 exclude-result-prefixes="tokens"
 xmIns:xsl="http://www.w3.org/1999/XSL/
 Transform"> xsl:import*, top-level elements
</xsl:stylesheet>

xsl:transform is a synonym for xsl:stylesheet

Combining Stylesheets [§2.6]

<xsl:include href="uri-reference"/>

<xsl:import href="uri-reference"/>

Whitespace Stripping [§3.4]

<xsl:strip-space elements="tokens"/>

<xsl:preserve-space elements="tokens"/>

Defining Template Rules [§5.3]

<xsl:template match="pattern" name="qname"
priority="number" mode="qname">
xsl:param* followed by text, literal result elements
and/or XSL elements </xsl:template>

Applying Template Rules [§5.4]

mode="qname"/>
<xsl:apply-templates select="node-set-exp"
mode="qname">
(xsl:sort | xsl:with-param)* </xsl:apply-templates>

<xsl:apply-templates select="node-set-exp"</p>

Overriding Template Rules [§5.6] <xsl:apply-imports/>

Named Templates [§6]

<xsl:call-template name="qname"/>
<xsl:call-template name="qname">
 xsl:with-param* </xsl:call-template>

Namespace Alias [§7.1.1]

<xsl:namespace-alias result-prefix="prefix|#default"
stylesheet-prefix="prefix|#default"/>

Creating Elements [§7.1.2]

<xsl:element name="{qname}"
namespace="{uri-reference}"
use-attribute-sets="qnames">...</xsl:element>

Creating Attributes [§7.1.3]

<xsl:attribute name="{qname}"
namespace="{uri-reference}">...</xsl:attribute>

Named Attribute Sets [§7.1.4]

<xsl:attribute-set name="qname"
use-attribute-sets="qnames">
xsl:attribute* </xsl:attribute-set>

Creating Text [§7.2]

<xsl:text disable-output-escaping="yes|no">
 #PCDATA </xsl:text>

Processing Instructions [§7.3]

<xsl:processing-instruction name="{ncname}">
....</xsl:processing-instruction>

Creating Comments [§7.4]

<xsl:comment>...</xsl:comment>

Copying [§7.5]

<xsl:copy use-attribute-sets="qnames">
...</xsl:copy>

Generating Text [§7.6.1]

<xsl:value-of select="string-expr"
disable-output-escaping="yes|no"/>

Attribute Value Templates [§7.6.2]

<element attribute="{expr}"/>

Numbering [§7.7]

<xsl:number level="single|multiple|any"
 count="pattern" from="pattern"
 value="number-expr" format="{string}"
 lang="{nmtoken}"
 letter-value="{alphabetic|traditional}"
 grouping-separator="{char}"
 grouping-size="{number}"/>

Repetition [§8]

<xsl:for-each select="node-set-expr">
xsl:sort*, ...</xsl:for-each>

Conditional Processing [§9]

<xsl:if test="boolean-expr">...</xsl:if>

<xsl:choose>

<xsl:when test="expr">...</xsl:when>+
 <xsl:otherwise>...</xsl:otherwise>?
</xsl:choose>

Sorting [§10]

Variables and Parameters [§11]

<xsl:variable name="qname" select="expr"/>
<xsl:variable name="qname">...</xsl:variable>

<xsl:param name="qname" select="expr"/>
<xsl:param name="qname">...</xsl:param>

Using Values [§11.3]

<xsl:copy-of select="expr"/>

Passing Parameters [§11.6]

<xsl:with-param name="expr" select="expr"/>
<xsl:with-param name="expr">...</xsl:with-param>

Keys [§12.2]

<xsl:key name="qname" match="pattern"
use="expr"/>

Number Formatting [§12.3]

<xsl:decimal-format name="qname"
 decimal-separator="char"
 grouping-separator="char" infinity="string"
 minus-sign="char" NaN="string"
 percent="char" per-mille="char"
 zero-digit="char" digit="char"
 pattern-separator="char"/>

Messages [§13]

<xsl:message terminate="yes|no">
 ...</xsl:message>

Fallback [§15]

<xsl:fallback>...</xsl:fallback>

Output [§**16**]

<xsl:output

method="xml|html|text|qname-but-not-ncname"
version="nmtoken" encoding="string"
omit-xml-declaration="yes|no"
doctype-public="string" doctype-system="string"
standalone="yes|no" indent="yes|no"
cdata-section-elements="qnames"
media-type="string"/>

Key

xsl:stylesheet	Element
version=	Required attribute
version=	Optional attribute
{expr}	Attribute value template. Text between
	any { and } is evaluated as an
	expression. Attribute value must
	evaluate to indicated attribute type.
•••	Anything allowed in a template
1	Separates alternative values
?	Zero or one occurrences
*	Zero or more occurrences
+	One or more occurrences
#PCDATA	Character data
Attribute \	/alue Types
1.0	Literal value
boolean-expr	Expression returning boolean value
char	Single character
expr	Expression
id	XML name used as identifier
ncname	XML name not containing a colon (:)
node-set-expr	Expression returning a node set
number-expr	Expression returning a number
pattern	XSLT pattern
prefix	Namespace prefix
qname	Namespace-qualified XML name comprising local part and optional prefix
qname-but-not- ncname	Namespace-qualified name comprising local part and prefix
token	Meaning varies with context. See Rec.
uri-reference	Reference to Universal Resource Identifier







