

## 🖰 НОМЕ

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Web Statistics Web Glossary Web Hosting Web Quality

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### XPath Summary

This chapter contains a summary on what you have learned in this tutorial and a recommendation on what subject you should study next.

#### **XPath Reference**

#### **XPath Functions**

This reference library defines the built-in functions required for XPath 2.0, XQuery 1.0 and XSLT 2.0.

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	th expressions to select nodes or node-sets in an XML document. The ed by following a path or steps.	Every thing Active Server Page Resource Web S
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Selecting No	odes	Programming Ford Windows Web Hos WEB BUILDIN
	expressions to select nodes in an XML document. The node is selected by or steps. The most useful path expressions are listed below:	XML Website Tom
		Flash Template Website Builde
Expression	Description Selects all child nodes of the node	Internet Busines
nodename /	Selects all child nodes of the node Selects from the root node	<u>Opportunity</u>
///	Selects nodes in the document from the current node that match the	Custom Programn
	selection no matter where they are	BEST Flash Templ
	Selects the current node	Web Design Foru
	Selects the parent of the current node	Programming For

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In the table I	below we have	listed some path expressions and the result of the expressions:	SHOPP
		1	UK Whole UK Whole
Path Expre	ssion	Result	
bookstore		Selects all the child nodes of the bookstore element	ONLINE D Advance You
/bookstore		Selects the root element bookstore	with Drexel L
			Bachelor's &
		<b>Note:</b> If the path starts with a slash ( / ) it always represents an absolute path to an element!	Tech Degrees
bookstore/b	ook	Selects all book elements that are children of bookstore	-
//book		Selects all book elements no matter where they are in the	
		document	_
bookstore//I	DOOK	Selects all book elements that are descendant of the bookstore element, no matter where they are under the bookstore element	
//@lang		Selects all attributes that are named lang	-
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## Selecting Unknown Nodes

XPath wildcards can be used to select unknown XML elements.

Wildcard	Description
*	Matches any element node
@*	Matches any attribute node
node()	Matches any node of any kind

#### Examples

In the table below we have listed some path expressions and the result of the expressions:

Path Expression	Result
/bookstore/*	Selects all the child nodes of the bookstore element
//*	Selects all elements in the document
//title[@*]	Selects all title elements which have any attribute

### **Selecting Several Paths**

By using the | operator in an XPath expression you can select several paths.

#### Examples

In the table below we have listed some path expressions and the result of the expressions:

Path Expression	Result
//book/title   //book/price	Selects all the title AND price elements of all book elements
//title   //price	Selects all the title AND price elements in the document
/bookstore/book/title   //price	Selects all the title elements of the book element of the bookstore element AND all the price elements in the document
<u>-</u>	,

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The XML Example Do		Every thing Active Server Pages Resource Web Site
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		PHP MySQL Hosting Web Hosting UK
		Top 10 Web Hostin
XPath Axes		Web Hosting Provide
An axis defines a node-set r	relative to the current node.	ASP.NET Web Hostin <u>3 Months Free!</u>
		Programming Forum
AxisName	Result	Windows Web Hostin
ancestor	Selects all ancestors (parent, grandparent, etc.) of the current node	WEB BUILDING XML Website Tools
ancestor-or-self	Selects all ancestors (parent, grandparent, etc.) of the current node and the current node itself	Website Templates
attribute	Selects all attributes of the current node	Website Builder
child	Selects all children of the current node	Internet Business
descendant	Selects all descendants (children, grandchildren, etc.) of the current node	<u>Opportunity</u>
	Selects all descendants (children, grandchildren, etc.) of	Custom Programmir
descendant-or-self	the current node and the current node itself	BEST Flash Templat

http://www.w3schools.com/xpath/xpath\_axes.asp (1 of 4) [3/14/2007 1:08:39 PM]

following-sibling	Selects all siblings after the current node	FREE Trial or Demo
namespace	Selects all namespace nodes of the current node	Web Content Manager
parent	Selects the parent of the current node	Forms, Web Alerts, RSS
preceding	Selects everything in the document that is before the start tag of the current node	HTML Exam SHOPPING
preceding-sibling	Selects all siblings before the current node	UK Wholesalers
self	Selects the current node	UK Wholesale
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<ul> <li>by speaking their language</li> <li>Online Calendars - Build and manage Web-based calendars and enable users to customize a view based on what's important to them</li> <li>See why there are 15,000+ Ektron integrations worldwide.</li> </ul>	HTML Form     HTML form-b	Engine - Creat	e a two-way dialog with visitors using our wizard-like with validation and database support
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### Selected Reading

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An XPath e	xpression returns either a	node-set, a string, a Boole	an, or a number.	Every bing Active Server Pages Resource Web Site
<b>XPath Op</b> Below is a lis	erators st of the operators that can b	e used in XPath expressions:		WEB HOSTING \$15 Domain Name Registration Save \$20 / year!
Operator	Description	Example	Return value	UK Domain Names UK Web Hosting
	Computes two node-sets	//book   //cd	Returns a node-set with all book and cd elements	Alojamiento Web Buy UK Domain Name Register Domain Name
+	Addition	6 + 4	10	Cheap Domain Names
-	Subtraction	6 - 4	2	Cheap Web Hosting
*	Multiplication	6 * 4	24	Best Web Hosting
div	Division	8 div 4	2	Bulk Domain Names
=	Equal	price=9.80	true if price is 9.80 false if price is 9.90	UK Web Hosting
!=	Not equal	price!=9.80	true if price is 9.90 false if price is 9.80	PHP MySQL Hosting Web Hosting UK
<	Less than	price<9.80	true if price is 9.00 false if price is 9.80	Top 10 Web Hosting
<=	Less than or equal to	price<=9.80	true if price is 9.00 false if price is 9.90	Web Hosting Provider
>	Greater than	price>9.80	true if price is 9.90 false if price is 9.80	ASP.NET Web Hosting <u>3 Months Free!</u>
>=	Greater than or equal to	price>=9.80	true if price is 9.90 false if price is 9.70	Programming Forums Windows Web Hosting
or	or	price=9.80 or price=9.70	true if price is 9.80 false if price is 9.50	WEB BUILDING XML Website Tools
and	and	price>9.00 and price<9.90	true if price is 9.80 false if price is 8.50	Website Templates
mod	Modulus (division remainder)	5 mod 2	1	Flash Templates     Website Builder     Internet Business     Opportunity
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Let's try to learn some basic XPath syntax by looking at some examples.	CHARTING FOR ASP.NET Web based charting for ASP.NET
The XML Example Document	WEB HOSTING <u>\$15 Domain Name</u> <u>Registration</u>
We will use the following XML document in the examples below.	Save \$20 / year!
"books.xml":	UK Domain Names UK Web Hosting Alojamiento Web
xml version="1.0" encoding="ISO-8859-1"?	Buy UK Domain Names Register Domain Names
<bookstore></bookstore>	Cheap Domain Names Cheap Web Hosting
<book category="COOKING"></book>	Best Web Hosting
<title lang="en">Everyday Italian</title> <author>Giada De Laurentiis</author>	Bulk Domain Names
<year>2005</year>	UK Web Hosting
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<title lang="en">XQuery Kick Start</title> <author>James McGovern</author>	XML Website Tools           Website Templates
<author>Per Bothner</author>	Flash Templates
<author>Kurt Cagle</author> <author>James Linn</author>	Website Builder
<author>Vaidyanathan Nagarajan</author>	<u>Internet Business</u> Opportunity
<pre><year>2003</year> <price>49.99</price></pre>	Custom Programming
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Selecting Nodes	
We will use the Microsoft XMLDOM object to load the XML document and the selectNodes()	
function to select nodes from the XML document:	
<pre>set xmlDoc=CreateObject("Microsoft.XMLDOM")</pre>	
xmlDoc.async="false"	
<pre>xmlDoc.load("books.xml")</pre>	
xmlDoc.selectNodes(path expression)	
Select all book Nodes	
The following example selects all the book nodes under the bookstore element:	
The following example selects an the book hodes under the bookstore element.	
<pre>xmlDoc.selectNodes("/bookstore/book")</pre>	
If you have IE 5 or higher you can try it yourself.	
Select the First book Node	
The following example selects only the first book node under the bookstore element:	
<pre>xmlDoc.selectNodes("/bookstore/book[0]")</pre>	
<u>If you have IE 5 or higher you can try it yourself</u>	
<u></u>	
<b>Note:</b> IE5 and later has implemented that [0] should be the first node, but according to the W3C standard it should have been [1]!!	
A Workaround!	
A Workaround! To solve the [0] and [1] problem in IE5+, you can set the SelectionLanguage to XPath.	

The following	example selects only the first book node under the bookstore element:
	Property "SelectionLanguage", "XPath" LectNodes("/bookstore/book[1]")
Try it yoursel	<u>f</u>
Select the	prices
The following	example selects the text from all the price nodes:
xmlDoc.sel	<pre>lectNodes("/bookstore/book/price/text()")</pre>
If you have I	<u>E 5 or higher you can try it yourself</u> .
Selecting	price Nodes with Price>35
The following	example selects all the price nodes with a price higher than 35:
xmlDoc.sel	<pre>lectNodes("/bookstore/book[price&gt;35]/price")</pre>
If you have I	E 5 or higher you can try it yourself.
Selecting	title Nodes with Price>35
The following	example selects all the title nodes with a price higher than 35:
xmlDoc.sel	<pre>lectNodes("/bookstore/book[price&gt;35]/title")</pre>
If you have I	<u>E 5 or higher you can try it yourself</u> .
<ul> <li>Previou</li> </ul>	s Next •
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