

SNS COLLEGE OF TECHNOLOGY



Coimbatore-37. An Autonomous Institution

COURSE NAME : 19CSE301 INTRODUCTION TO DATA SCIENCE

III YEAR/ V SEMESTER

UNIT – III Topic: Xpath

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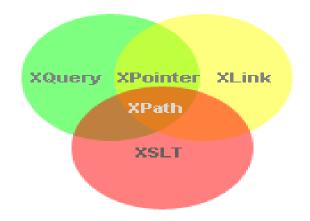


- XPath is a major element in the XSLT standard.
- XPath can be used to navigate through elements and attributes in an XML document.
- XPath stands for XML Path Language
- XPath uses "path like" syntax to identify and navigate nodes in an XML document
- XPath contains over 200 built-in functions
- XPath is a major element in the XSLT standard
- XPath is a W3C recommendation





- XPath defines a pattern or path expression to select nodes or node sets in an XML document.
- These patterns are used by XSLT to perform transformations.
- The path expressions look like very similar to the general expressions we used in traditional file system.



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XPath specifies seven types of nodes that can be output of the execution of the XPath expression.

- Root
- Element
- Text
- Attribute
- Comment
- Processing Instruction
- Namespace





- XPath defines structure: XPath is used to define the parts of an XML document i.e. element, attributes, text, namespace, processing-instruction, comment, and document nodes.
- XPath provides path expression: XPath provides powerful path expressions, select nodes, or list of nodes in XML documents.
- XPath is a core component of XSLT: XPath is a major element in XSLT standard and must be followed to work with XSLT documents.
- XPath is a standard function: XPath provides a rich library of standard functions to manipulate string values, numeric values, date and time comparison, node and Q Name manipulation, sequence manipulation, Boolean values etc.





- XPath includes over 200 built-in functions.
- There are functions for string values, numeric values, booleans, date and time comparison, node manipulation, sequence manipulation, and much more.
- Today XPath expressions can also be used in JavaScript, Java, XML Schema, PHP, Python, C and C++, and lots of other languages.
- <?xml version = "1.0"?>
- <?xml-stylesheet type = "text/xsl" href = "employee.xsl"?>
- <class>
- <employee id = "001">
- <firstname>Aryan</firstname>
- <lastname>Gupta</lastname>
- <nickname>Raju</nickname>
- <salary>30000</salary>
- </employee> </class>







<html></html>
<body></body>
<h2> Employees</h2>
ID
> First Name
Last Name
Nick Name
> Salary
<xsl:for-each select="class/employee"></xsl:for-each>
<xsl:value-of select="@id"></xsl:value-of>
<xsl:value-of select="firstname"></xsl:value-of>
<xsl:value-of select="lastname"></xsl:value-of>
<xsl:value-of select="nickname"></xsl:value-of>
<xsl:value-of select="salary"></xsl:value-of>





- Tom M. Mitchell, "Machine Learning", McGraw-Hill Education (India) Private Limited, 2013.
- 2Gareth James, Daniela Witten, Trevor Hastie, Robert Tibshirani, "An Introduction to Statistical Learning: with Applications in R", Springer; First Edition 2013.







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