**XML**

eXtensible Markup Language

Used to transport data.

**XML syntax:**

**XML Porlog:**

<?xml version="1.0" encoding="UTF-8**"**?>

Should have closing tab. <p> andljjj. </p>

Proper nested closing <b><i> jsbkjb </i></p>

Case sensitive <message> hi </message>

Attributes are quoted . <note date = “08/02/2021”> <to>Steve</to></note>

Entity references:

&lt; <

&gt; >

&amp; &

&apos; ‘

&quot; “

Comments cannot have -- in between <!-- comment -- wrong --> not allowed

White space is preserved.

Attributes must be quoted.

<book category=”children”>

Or

<gangster name='George "Shotgun" Ziegler'> //when attribute contains double quotes.

**Element vs Attribute**

<person gender="female"> // Attribute  
  <firstname>Anna</firstname>  
  <lastname>Smith</lastname>  
</person>

<person>

<gender>Female</gender> //Element  
  <firstname>Anna</firstname>  
  <lastname>Smith</lastname>  
</person>

Naming conflicts using prefixes

<h:table>  
  <h:tr>  
    <h:td>Apples</h:td>  
    <h:td>Bananas</h:td>  
  </h:tr>  
</h:table>  
  
<f:table>  
  <f:name>African Coffee Table</f:name>  
  <f:width>80</f:width>  
  <f:length>120</f:length>  
</f:table>

**Name space :**

<root>

<h:table xmlns:h=”http://www.w3.org/TR/html4/">

Can also be declared as

<root xmlns:h="http://www.w3.org/TR/html4/"  
xmlns:f="https://www.w3schools.com/furniture">

## XMLHttpRequest – sending, receiving

**XML DOM** (Document Object Model ) – standard way of accessing and manipulating XML documents.

xmlDoc.getElementsByTagName("title")[0].childNodes[0].nodeValue;

XPath uses path expressions to select nodes or node-sets in an XML document.

XSLT (eXtensible Stylesheet Language Transformations) is the recommended style sheet language for XML.

XQuery is the language for querying XML data.

XLink is used to create hyperlinks within XML documents.

<homepage xlink:type="simple" xlink:href="https://www.w3schools.com">Visit W3Schools</homepage>

**DTD** - Document Type Definition

A DTD defines the structure and the legal elements and attributes of an XML document.

**XML AJAX**

AJAX – Asynchronous Javascript and XML.

It is a technique used to access web servers from a web page.

Keystone is XMLHttpRequest() object.