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How Can XML be Used?

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XML is used in many aspects of web development.

XML is often used to separate data from presentation.

XML Separates Data from Presentation

XML does not carry any information about how to be displayed.

The same XML data can be used in many different presentation scenarios.

Because of this, with XML, there is a full separation between data and presentation.

XML Certificate

XML DOM

DOM Intro

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DOM Node Info

DOM Node List

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DOM Get Values

DOM Change Nodes

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DOM Reference

DOM Node Types

DOM Node

DOM NodeList

DOM NamedNodeMap

DOM Document

XML is Often a Complement to HTML

In many HTML applications, XML is used to store or transport data, while HTML is used to format and display the same data.

XML Separates Data from HTML

When displaying data in HTML, you should not have to edit the HTML file when the data changes.

With XML, the data can be stored in separate XML files.

With a few lines of JavaScript code, you can read an XML file and update the data content of any HTML page.

Display Books.xml »

Books.xml

DOM Element

DOM Attribute

DOM Text

DOM CDATA

DOM Comment

DOM XMLHttpRequest

DOM Parser

Web Services

XML Services

XML WSDL

XML SOAP

XML RDF

XML RSS

XML DTD

DTD Intro

DTD Building Blocks

DTD Elements

DTD Attributes

DTD Elements vs Attr

DTD Entities

DTD Examples

XSD Schema

```
</book>
 <book category="children">
    <title lang="en">Harry Potter</title>
   <author>J K. Rowling</author>
   <year>2005</year>
   <price>29.99</price>
 </book>
 <book category="web">
   <title lang="en">XQuery Kick Start</title>
    <author>James McGovern</author>
   <author>Per Bothner</author>
   <author>Kurt Cagle</author>
    <author>James Linn</author>
    <author>Vaidyanathan Nagarajan</author>
   <year>2003</year>
   <price>49.99</price>
 </book>
 <book category="web" cover="paperback">
   <title lang="en">Learning XML</title>
    <author>Erik T. Ray</author>
    <year>2003</year>
   <price>39.95</price>
 </book>
</bookstore>
```

You will learn a lot more about using XML and JavaScript in the DOM section of this

XSD Intro

XSD Why Use

XSD How To

XSD <schema>

XSD Simple

XSD Elements

XSD Attributes

XSD Restrictions

XSD Complex

XSD Elements

XSD Empty

XSD Elements Only

XSD Text Only

XSD Mixed

XSD Indicators

XSD <any>

XSD <anyAttribute>

XSD Substitution

XSD Example

XSD Data

XSD String

XSD Date

tutorial.

Transaction Data

Thousands of XML formats exists, in many different industries, to describe day-to-day data transactions:

Stocks and Shares

Financial transactions

Medical data

Mathematical data

Scientific measurements

News information

Weather services

Example: XML News

XMLNews is a specification for exchanging news and other information.

Using a standard makes it easier for both news producers and news consumers to produce, receive, and archive any kind of news information across different hardware, software, and programming languages.

An example XMLNews document:

XSD Numeric XSD Misc

XSD References

XSD Reference

```
<?xml version="1.0" encoding="UTF-8"?>
<nitf>
  <head>
   <title>Colombia Earthquake</title>
 </head>
 <body>
   <headline>
      <hli>143 Dead in Colombia Earthquake</hl>
   </headline>
   <byline>
     <bytag>By Jared Kotler, Associated Press Writer
    </byline>
   <dateline>
     <location>Bogota, Colombia</location>
      <date>Monday January 25 1999 7:28 ET</date>
    </dateline>
 </body>
</nitf>
```

Example: XML Weather Service

An XML national weather service from NOAA (National Oceanic and Atmospheric Administration):

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

```
<credit>NOAA's National Weather Service</credit>
<credit URL>http://weather.gov/</credit URL>
<image>
 <url>http://weather.gov/images/xml logo.gif</url>
 <title>NOAA's National Weather Service</title>
 <link>http://weather.gov</link>
</image>
<location>New York/John F. Kennedy Intl Airport, NY</location>
<station id>KJFK</station id>
<latitude>40.66</latitude>
<longitude>-73.78</longitude>
<observation time rfc822>Mon, 11 Feb 2008 06:51:00 -0500 EST
</observation_time_rfc822>
<weather>A Few Clouds</weather>
<temp f>11</temp f>
<temp c>-12</temp c>
<relative humidity>36</relative humidity>
<wind dir>West</wind dir>
<wind degrees>280</wind degrees>
<wind mph>18.4</wind mph>
<wind gust mph>29</wind gust mph>
sure mb>1023.6</pressure mb>
sure in>30.23</pressure in>
<dewpoint f>-11</dewpoint f>
<dewpoint c>-24</dewpoint c>
<windchill f>-7</windchill f>
<windchill_c>-22</windchill_c>
```

```
<visibility_mi>10.00</visibility_mi>

<icon_url_base>http://weather.gov/weather/images/fcicons/</icon_url_bas
e>
    <icon_url_name>nfew.jpg</icon_url_name>
    <disclaimer_url>http://weather.gov/disclaimer.html<//disclaimer_url>
    <copyright_url>http://weather.gov/disclaimer.html</copyright_url>
    </current_observation>
```

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COLOR PICKER



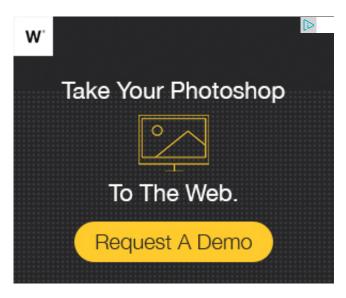
SHARE THIS PAGE

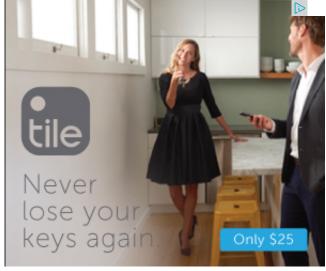












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