XML Advanced

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XML Namespaces

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XML Namespaces provide a method to avoid element name conflicts.

Name Conflicts

In XML, element names are defined by the developer. This often results in a conflict when trying to mix XML documents from different XML applications.

This XML carries HTML table information:

```
    Apples
```

This XML carries information about a table (a piece of furniture):

```
<name>African Coffee Table</name>
<width>80</width>
<length>120</length>
```

If these XML fragments were added together, there would be a name conflict. Both contain a element, but the elements have different content and meaning.

A user or an XML application will not know how to handle these differences.

Solving the Name Conflict Using a Prefix

Name conflicts in XML can easily be avoided using a name prefix.

This XML carries information about an HTML table, and a piece of furniture:

```
<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>
```

In the example above, there will be no conflict because the two elements have different names.

XML Namespaces - The xmlns Attribute

When using prefixes in XML, a so-called **namespace** for the prefix must be defined.

The namespace is defined by the **xmlns attribute** in the start tag of an element.

The namespace declaration has the following syntax. xmlns:prefix="URI".

```
<root>
<h:table xmlns:h="http://www.w3.org/TR/html4/">
  <h:tr>
    <h:td>Apples</h:td>
    <h:td>Bananas</h:td>
    </h:tr>
```

```
</h:table>
<f:table xmlns:f="http://www.w3schools.com/furniture">
    <f:name>African Coffee Table</f:name>
    <f:width>80</f:width>
    <f:length>120</f:length>
</f:table>
</root>
```

In the example above, the xmlns attribute in the tag give the h: and f: prefixes a qualified namespace.

When a namespace is defined for an element, all child elements with the same prefix are associated with the same namespace.

Namespaces can be declared in the elements where they are used or in the XML root element:

```
<root xmlns:h="http://www.w3.org/TR/html4/"</pre>
  xmlns:f="http://www.w3schools.com/furniture">
  <h:table>
     <h:tr>
       <h:td>Apples</h:td>
       <h:td>Bananas</h:td>
     </h:tr>
  </h:table>
  น35chools.com
(<mark>h</mark>ttp://www.wa.mesacho.bisacoორ.pffee Table</f:name>
    (/default.asp) 80</fi>
(/default.asp) 4:length>120</filength>
                                                CSS (/css/default.asp)
</f:table>
JAVASCRIPT (/js/default.asp)
                                SQL (/sql/default.asp)
  </root>
PHP (/php/default.asp)
                         jQUERY (/jquery/default.asp)
```

Note: The namespace URI is not used by the parser to look up information. ANGULAR (/angular/default.asp) BOOTSTRAP (/bootstrap/default.asp)

The numbers is to give the namespace a unique name. However, often companies XML (/xml/default.asp) s 都好的配件等で webspace information.

Try to gesto http://www.w3.org/TR/html4/ (http://www.w3.org/TR/html4/).

Uniform Resource Identifier (URI)

A **Uniform Resource Identifier** (URI) is a string of characters which identifies an Internet Resource.

The most common URI is the **Uniform Resource Locator** (URL) which identifies an Internet domain address. Another, not so common type of URI is the **Universal Resource Name** (URN).

In our examples we will only use URLs.

Default Namespaces

Defining a default namespace for an element saves us from using prefixes in all the child elements. It has the following syntax:

```
xmlns="namespaceURI"
```

This XML carries HTML table information:

```
        Apples
        Apples
```

This XML carries information about a piece of furniture:

```
  <name>African Coffee Table</name>
  <width>80</width>
  <length>120</length>
```

Namespaces in Real Use

XSLT is an XML language that can be used to transform XML documents into other formats, like HTML.

In the XSLT document below, you can see that most of the tags are HTML tags.

The tags that are not HTML tags have the prefix xsl, identified by the namespace xmlns:xsl="http://www.w3.org/1999/XSL/Transform":

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

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

<xsl:template match="/">
<html>
<body>
    <h2>My CD Collection</h2>
```

1/22/2015 XML Namespaces

If you want to learn more about XSLT, please find our XSLT tutorial at our homepage (/default.asp).

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WEB BUILDING

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