

Syntax

```
<root>
  <child>
    <subchild>.....</subchild>
  </child>
</root>

<note>
  <to>Tove</to>
  <from>Jani</from>
  <heading>Reminder</heading>
  <body>Don't forget me this weekend!</body>
</note>
```

Commenting

```
<!-- This is a comment -->
```

Prolog

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

UTF-8 is the default character encoding for XML documents.

The XML prolog is optional.

Entity References

<	<
>	>
&	&
'	'
"	"

HttpRequest

The first line in the example above creates an XMLHttpRequest object:

```
var xhttp = new XMLHttpRequest();
```

The onreadystatechange property specifies a function to be executed every time the status of the XMLHttpRequest object changes:

```
xhttp.onreadystatechange = function()
```

When readyState property is 4 and the status property is 200, the response is ready:

```
if (this.readyState == 4 && this.status == 200)
```

The responseText property returns the server response as a text string. The text string can be used to update a web page:

```
document.getElementById("demo").innerHTML = xhttp.responseText;
```

```
var xhttp = new XMLHttpRequest();
xhttp.onreadystatechange = function() {

if (this.readyState == 4 && this.status == 200) {
```

Element Naming

Case-sensitive

Must start with a letter or underscore

Cannot start with the letters xml (or XML, or Xml, etc)

Can contain letters, digits, hyphens, underscores, and periods

Cannot contain spaces

Element

An element can contain:

- text
- attributes
- other elements
- or a mix of the above

Empty Element `<element/>`

Text Content `<title>`, `<author>`, `<year>`, `<price>` contain text

element contents `<bookstore>` and `<book>`

attribute `<book>` has an attribute (category="children").

Example:

```
<bookstore>
  <book category="children">
    <title>Harry Potter</title>
    <author>J K. Rowling</author>
    <year>2005</year>
    <price>29.99</price>
  </book>
  <book category="web">
    <title>Learning XML</title>
    <author>Erik T. Ray</author>
    <year>2003</year>
    <price>39.95</price>
  </book>
</bookstore>
```

Attributes

Must be quoted ' ' or " "

```
<person gender="female">
or
<person gender='female'>
```

If contains quotes

```
<gangster name='George "Shotgun" Ziegler">
or
<gangster name="George &quot;Shotgun&quot; Ziegler">
```

Attributes cannot contain:

- multiple values (elements can)
- tree structures (elements can)
- are not easily expandable (for future changes)

ID refernces `<note id="501">`
Can be used to idenfify xml elements

```
// Typical action to be performed when the  
  
document is ready:  
document.getElementById("demo").innerHTML = xhttp.responseText;  
  
}  
};  
xhttp.open("GET", "filename", true);  
xhttp.send();
```

Namespaces

Fix name conflict with prefix	<h:table> and <f:table>
Xmlns defenition	<h:table xmlns:h="http://www.w3.org/TR/html4/"> or <root xmlns:h="http://www.w3.org/TR/h- tml4/">



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