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## XML Tutorial

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# XML Document Types

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An XML document with correct syntax is called "Well Formed".

A "Valid" XML document must also conform to a document type definition.

## Well Formed XML Documents

An XML document with correct syntax is "Well Formed".

The syntax rules were described in the previous chapters:

- XML documents must have a root element
- XML elements must have a closing tag
- XML tags are case sensitive
- XML elements must be properly nested

XML Examples

XML Quiz

XML Certificate

## XML DOM

DOM Intro

DOM Nodes

DOM XMLHttpRequest

DOM Accessing

DOM Node Info

DOM Node List

DOM Traversing

DOM Navigating

DOM Get Values

DOM Change Nodes

DOM Remove Nodes

DOM Replace Nodes

DOM Create Nodes

DOM Add Nodes

DOM Clone Nodes

DOM Examples

## DOM Reference

DOM Node Types

DOM Node

DOM NodeList

- XML attribute values must be quoted

```
<?xml version="1.0" encoding="UTF-8"?>
<note>
  <to>Tove</to>
  <from>Jani</from>
  <heading>Reminder</heading>
  <body>Don't forget me this weekend!</body>
</note>
```

## An XML Validator

To help you check the syntax of your XML files, we have created an [XML validator](#) to syntax-check your XML.

## Valid XML Documents

A "valid" XML document is not the same as a "well formed" XML document.

A "valid" XML document must be well formed. In addition it must conform to a document type definition.

Rules that defines the legal elements and attributes for XML documents are called Document Type Definitions (DTD) or XML Schemas.

There are two different document type definitions that can be used with XML:

DOM NamedNodeMap

DOM Document

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

- DTD - The original Document Type Definition
  - XML Schema - An XML-based alternative to DTD
- 

## When to Use a DTD/Schema?

With a DTD, independent groups of people can agree to use a standard DTD for interchanging data.

Your application can use a standard DTD to verify that the data you receive from the outside world is valid.

You can also use a DTD to verify your own data.

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## When to NOT to Use a DTD/Schema?

XML does not require a DTD/Schema.

When you are experimenting with XML, or when you are working with small XML files, creating DTDs may be a waste of time.

If you develop applications, wait until the specification is stable before you add a document definition. Otherwise, your software might stop working because of validation errors.

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# XSD Schema

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



W3SCHOOLS EXAMS

XSD Date

XSD Numeric

XSD Misc

## XSD References

XSD Reference


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