

#### Note.dtd:

```
<!DOCTYPE note
<!ELEMENT note (to,from,heading,body)>
<!ELEMENT to (#PCDATA)>
<!ELEMENT from (#PCDATA)>
<!ELEMENT heading (#PCDATA)>
<!ELEMENT body (#PCDATA)>
```

The DTD above is interpreted like this:

- !DOCTYPE note Defines that the root element of the document is note
- !ELEMENT note Defines that the note element must contain the elements: "to, from, heading, body"
- . !ELEMENT to Defines the to element to be of type "#PCDATA"
- !ELEMENT from Defines the from element to be of type "#PCDATA"
- !ELEMENT heading Defines the heading element to be of type "#PCDATA"
- !ELEMENT body Defines the body element to be of type "#PCDATA"

Tip: #PCDATA means parseable character data.

# Using DTD for Entity Declaration

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XML Read More > A DOCTYPE declaration can also be used to define special characters or strings, used in the document:

# 

**Tip:** An entity has three parts: it starts with an ampersand (&), then comes the entity name, and it ends with a semicolon (;).

### When to Use a DTD?

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

With a DTD, you can verify that the data you receive from the outside world is valid.

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

If you want to study DTD, please read our DTD Tutorial.

### When NOT to Use a DTD?

XML does not require a DTD.

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 DTD. Otherwise, your software might stop working because of validation errors.



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