

XML Syntax Quick Reference

Element Declaration

```
<!ELEMENT name (content-model) >
```

keyword ELEMENT name of the element type, its "tag" formal definition of the element's allowed content

Connectors

,	"Then"	Follow with (in sequence)
	"Or"	Select (only) one from the group
Only one connector type per group — no mixing!		

Occurrence Indicators

(no indicator)	<i>Required</i>	One and only one
?	<i>Optional</i>	None or one
*	<i>Optional, repeatable</i>	None, one, or more
+	<i>Required, repeatable</i>	One or more

Groupings

(Start content model or group
)	End content model or group

#PCDATA in Models (first, OR bars, asterisk)

```
(#PCDATA)
(#PCDATA | elem1 | elem2 )*
keyword #PCDATA      element name always include the *
```

keyword #PCDATA element name always include the *

ANY Element Keyword

```
<!ELEMENT name ANY >
```

keyword ELEMENT name of the element type, its "tag" keyword ANY

EMPTY Element Keyword

```
<!ELEMENT name EMPTY >
```

keyword ELEMENT name of the element type, its "tag" keyword EMPTY

Attribute Declaration

```
<!ATTLIST element name declvalue default >
```

keyword ATTLIST element name what kind of value or list of values keyword or default value
name of the associated element repeat for each attribute

Declared Value Keywords

CDATA	Data character string (default if well-formed)
NMTOKEN	Name token
NMTOKENS	One or more name tokens (spaces between)
ID	Unique identifier for element
IDREF	Reference to ID on another element
IDREFS	One or more IDREFs (spaces between)
ENTITY	Name of an entity (declared elsewhere)
ENTITIES	One or more names of entities

Enumerated Value Descriptions

(a b c)	List of attribute values (<i>Or</i> between)
NOTATION	Names of notations (Requires a list of values as well as the keyword. Values declared elsewhere with NOTATION.)
(x y)	

Attribute Defaults

"value"	If attribute is omitted, assume this value.
#REQUIRED	Required. Document is <i>not valid</i> if no value is provided.
#IMPLIED	Optional. Not constrained; no default can be inferred; an application is free to handle as appropriate.
#FIXED "value"	Fixed value. (Requires a value as well as the keyword.) If the attribute appears with a different value, that's an error.

Reserved Attributes

xml:space	Preserve whitespace or use default
xml:lang	Indicate language of element and that element's attributes and children

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DOCTYPE Declaration

```
<!DOCTYPE name External-ID [ declarations ]>
```

name of the document type
pointer to another file
the internal subset of the DTD (optional)
keyword DOCTYPE
DSO Declaration Subset Open
DSC Declaration Subset Close

Internal Subset

```
<?xml version="1.0"?>
<!DOCTYPE whatnot
[ ]>
```

DOCTYPE declaration includes other declarations in an internal subset

External Subset

```
<?xml version="1.0"?>
<!DOCTYPE whatnot
SYSTEM "whatnot.dtd" >
```

DOCTYPE declaration refers to a DTD in an external subset.
a file named: whatnot.dtd

Internal and External Subsets

```
<?xml version="1.0"?>
<!DOCTYPE whatnot
SYSTEM "whatnot.dtd" >
```

DOCTYPE declaration refers to an external subset and includes an internal subset.
DTD is sum of the parts.
a file named: whatnot.dtd

Conditional Section (DTD only)

```
<![IGNORE[ declarations ]]>
<![INCLUDE[ declarations ]]>
```

External-ID

OR SYSTEM "URI"
PUBLIC "Public ID" "URI"

Parameter Entity Declarations

Internal Parameter Entity

```
<!ENTITY % name "whatever text">
```

keyword ENTITY
percent sign "%" shows this is a parameter entity
name of the entity
entity value (any literal)
single or double quotes, "or", must match

External Parameter Entity

```
<!ENTITY % name External-ID >
```

keyword ENTITY
percent sign "%" shows this is a parameter entity
name of the entity
pointer to a file

General Entity Declarations

Internal Entity

```
<!ENTITY name "whatever text">
```

keyword ENTITY
name of the entity
entity value (any literal)
single or double quotes, "or", must match

External Unparsed Entity

```
<!ENTITY name External-ID NDATA name >
```

keyword ENTITY
name of the entity
SYSTEM or PUBLIC identifier
keyword NDATA followed by notation name

Predefined General Entities

Entity	Displays As	Character Value
& amp;	&	&#38;
& lt;	<	&#60;
& gt;	>	>
& apos;	'	'
& quot;	"	"

XML Declaration

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
```

Version of the XML specification
Standalone declaration:
no: parsing affected by external DTD subset
yes: parsing not affected by external DTD subset
Character encoding of the document, expressed in Latin characters, e.g. UTF-8, UTF-16, EUC-JP, ISO-10646-UCS2

Processing Instruction

```
<?target ***Some Stuff **** ?>
```

Notation Declaration

```
<!NOTATION name External-ID >
```

keyword NOTATION
name of the entity (FAX, JPG, CGS, etc.) must be unique in DTD
SYSTEM or PUBLIC identifier (PUBLIC does not require URI)

Comment

```
<!-- Whatever you want to say! -->
```

Comment may contain any characters except the string "--".

Start Tag with Attribute (in document)

```
<tag attributeName = "attribute-value" >
```

name of the element
name of the attribute
equals sign
one or more values
single or double quotes, "or", must match

EMPTY Element (in document)

```
<name/>
<name></name>
```

CDATA Section (in document)

```
<![CDATA[ *** Some Stuff *** ]]>
```