

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;
<	<	&#60;
>	>	>
'	'	'
"	"	"

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 *** ]]>
```