Cheatography

DTDs for XML Cheat Sheet by Gruenauge via cheatography.com/207914/cs/44447/

What is XML?

XML	A flexible text format used to store and
(eXtensible	transport data, designed to be both
Markup	human-readable and machine-readable
Language)	
Key features	Platform-independent
	Designed for information exchange
	Hierarchical structure with custom tags

1. DTD Declaration

External DTD file:

<!D OCTYPE root_e lement SYSTEM " fil e.d td">

```
Internal DTD file:
```

<!D OCTYPE root e lement [

<!-- DTD declar ations go here -->

] >

SYSTEM: Points to an external DTD file.

Root Element & Hierarchy

Every XML document has one root element that holds the entire structure.

<!E LEMENT candy_ store (categ ory _ch oco late, ca tego ry_ gum my?)>

Entities	
0	

&	Č.	
<	<	
>	>	
'	1	
"	11	

<!E NTITY copy " Cop yright SweetWorld 2023">

Called in the XML document with ${\tt acopy}$; .

Parameter Entities

Reusable definitions within a DTD.

Allows complex content to be reused in multiple elements.

<!E NTITY % product " (price, manufa ctu rer?, imag es?,

```
descri ption?, nutrit ion al_ inf o?) ">
```

<!E LEMENT chocol ate_bar %produ ct;>

Element Occurrence

| What is a DTD? | |
|---------------------|--|
| DTD
(Document | Defines the structure and rules for an XML document. |
| Type
Definition) | It ensures that the XML follows a specific schema. |
| Key features | Elements |
| | Attributes |
| | Entities |

2. Element Declarations

```
<!ELEMENT element_name (content)>
<!E LEMENT elemen t_name EMPTY>
Example with sub-el ements:
<!E LEMENT candy_ types (choco late, gummy,
hard_c and y)>
Example with text content:
<!E LEMENT descri ption (#PCDA TA)>
```

EMPTY: If the element has no content

PCDATA: Parsed Character Data is text that will be parsed by the XML parser. Tags inside are treated as markup and entities will be expanded.

CDATA: (Unparsed) Character data is text which is not parsed further in an XML document.

Tags inside are not treated as markup and entities will not be expanded.

Attributes

<!A TTLIST elemen t_name attrib ute _name type sta tus>

Status:

| #REQUIRED | must be present |
|-----------|----------------------------------|
| #IMPLIED | optional |
| #FIXED | fixed value |
| Types: | CDATA (any character string) |
| | Enumerations (predefined values) |

Example:

<!A TTLIST candy chocol ate _flavor CDATA #REQUIRE D sugar_content CDATA #REQUI RED>

Attributes: chocolate_flavor, sugar_content Element: candy

- ? Optional, zero or one occurrence
- * Optional, zero, one, or more occurrences
- + At least one occurrence
- , Elements must appear in the given order
- | Either one element or the other

<!E LEMENT nutrit ion al_info (calor ies?, fat_cont

ent?,

sugar_ con ten t?)>

Calories, fat_content, and sugar_content are optional.



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