

XML Document

When multiple (several) XML documents are of the same pattern, the structural patterns of these documents can be specified through

~~DTD~~ DTD (Document type definition) similar to C.S.S.

Regular Expression
↓
Extended Regular Expression

- $\text{patt}?$ \Rightarrow patt is optional
- $\text{patt}+$ \Rightarrow " occurs at least once.
- patt^* \Rightarrow patt occurs none, once, twice, ...

Element Attributes

e.g. ~~<TABLE>~~
<FORM method="POST" Action="-----">

Tag for the element value

</FORM>

<TABLE bgcolor="cyan">

<TR>-----</TR>

Element Tag

</TABLE>

XML: Extensible Markup Language

- Define custom tags

Apart from static tags of HTML, we can use our own tags.

- Text based (structure & data together)

Easier to interpret

Unstructured

Research manager	Franklin Wong
Admin	Jennifer Wallace
Headquarters	James Borg

structured

```
<DEPT>  
  <DNAME>  
    Research  
  </DNAME>  
  <Manager>  
    Franklin Wong  
  </Manager>  
</DEPT>
```

- XML document is a tree.

XML is widely used to transfer info between computer systems (server & heterogeneous clients)