
Markup Languages Course

PB138

Doctype definition external

```
<!DOCTYPE social_network SYSTEM  
"social_network.dtd">
```

Doctype definition internal

```
<!DOCTYPE people  
[  
  <!ELEMENT people ANY>  
  .... all elements and attributes in the doc  
>
```

Element types

<!ELEMENT social_network ANY>

- *ANY*
 - *EMPTY*
 - <!ELEMENT phone EMPTY>
 - *(#PCDATA)*
 - elements - (*phones*)
-

Amount of elements

- $(phone^*)$
 - $(phone)^*$
 - $(phone^+)$
 - $(phone, phone)^*$
 - $(street?)$
 - $(elementA | elementB)$
-

Defining Attributes

```
<!ATTLIST person  
  name CDATA #REQUIRED  
  id ID #REQUIRED>
```

- #REQUIRED vs #IMPLIED
 - CDATA, ID, IDREF
-