

# Sketch of XML Schema

- DTD:
  - ① structural description of documents
  - ② no ATOMIC datatypes
    - ↳ str, num, date, .....
    - ↳ everything is only text

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① structural descriptions

<ELEMENT bla ↓ regexp expr  
 (a, b?, (c\* | d\*), e+) >

everything can be XML-ized  
 [data, not XML Schema]

```

<element name="bla"
  content="mixed"
  <seq>
    <element type="a" minOccurs="1" maxOccurs="1" />
    <element type="b" minOccurs="0" maxOccurs="1" />
  </seq>
  <alt>
    <element type="c" minOccurs="0" maxOccurs="*" />
    <element type="d" minOccurs="0" maxOccurs="*" />
  </alt>
  <alt>
    <element type="e" minOccurs="1" maxOccurs="*" />
  </alt>
</seq>
</contentModel>
</element>
    
```

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2) atomic DTs

no structure  
just a simple  
value

DTD: (<!Element population (#PCDATA)>  
<!ATTLIST population year CDATA #IMPLIED

<element type name = 'population' >  
<simple content type = "numeric" />  
<attribute name = 'year' type = "integer" />  
</element >

⇒ define a set of atomic DTs  
(like in SQL)

↳ also used  
in RDF

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