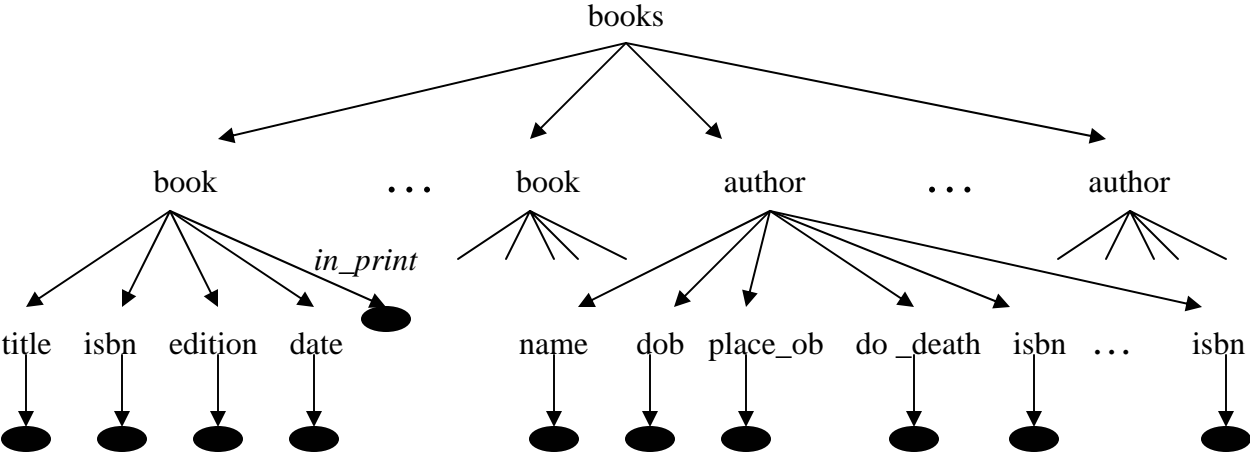


COS 425: Database and Information Management Systems - Fall 06  
Summary of XML Schema example 10/18/06

```
< xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="books" type="ListBooksType"/>
  <xs:element name="book" type="BookType"/>
  <xs:element name="author" type="AuthorType"/>
  <xs:complexType name="BookType">
    <xs:attribute name="in_print"/>
    <xs:sequence>
      <xs:element name="title" type="xs:string"/>
      <xs:element name="isbn" type="xs:string"/>
      <xs:element name="edition" type="xs:string"/>
      <xs:element name="date" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="AuthorType">
    <xs:sequence>
      <xs:element name="name" type="xs:string"/>
      <xs:element name="dob" type="xs:string"/>
      <xs:element name="place_ob" type="xs:string"/>
      <xs:element name="do_death" type="xs:string"/>
      <xs:element name="isbn" type="xs:string" minOccurs="0" maxOccurs=
        "unbounded"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ListBooksType">
    <xs:sequence>
      <xs:element ref="book" minOccurs="1" maxOccurs="unbounded"/>
      <xs:element ref="author" minOccurs="1" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
  <xs:key name="bookKey" >
    <xs:selector xpath="/books/book"/>
    <xs:field xpath="isbn"/>
  </xs:key>
  <xs:keyref name="authorBookFkey" refer="bookKey" >
    <xs:selector xpath="/books/author"/>
    <xs:field xpath="isbn"/>
  </xs:keyref>
</xs:schema>
```

Gives schema for tree model:



● Indicates content of type “xs:string”