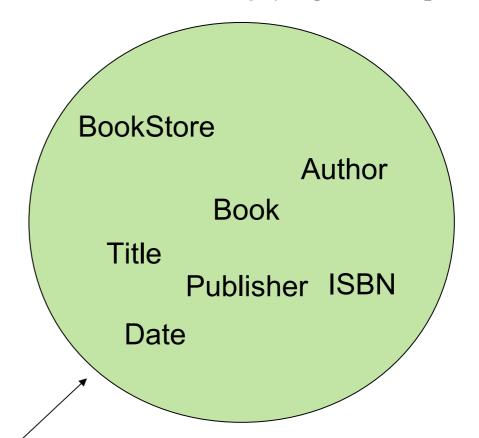
Espaces de noms

Reda Bendraou

http://www.w3.org/2001/XMLSchema

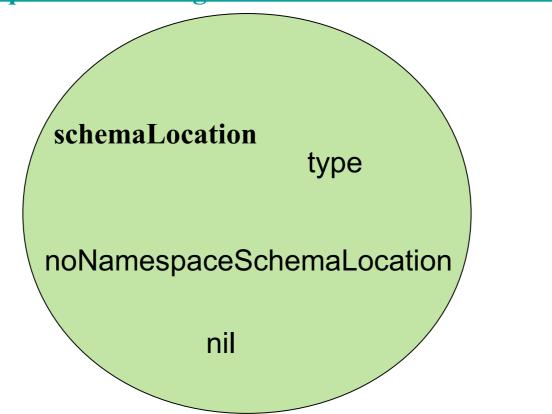
complexType
element
sequence
schema
string
boolean
integer

http://www.books.org (targetNamespace)



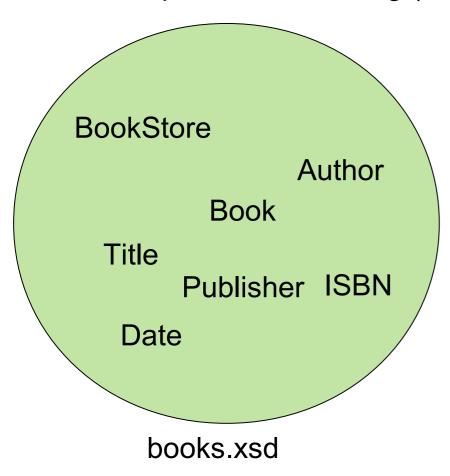
XMLSchema-instance Namespace

http://www.w3.org/2001/XMLSchema-instance



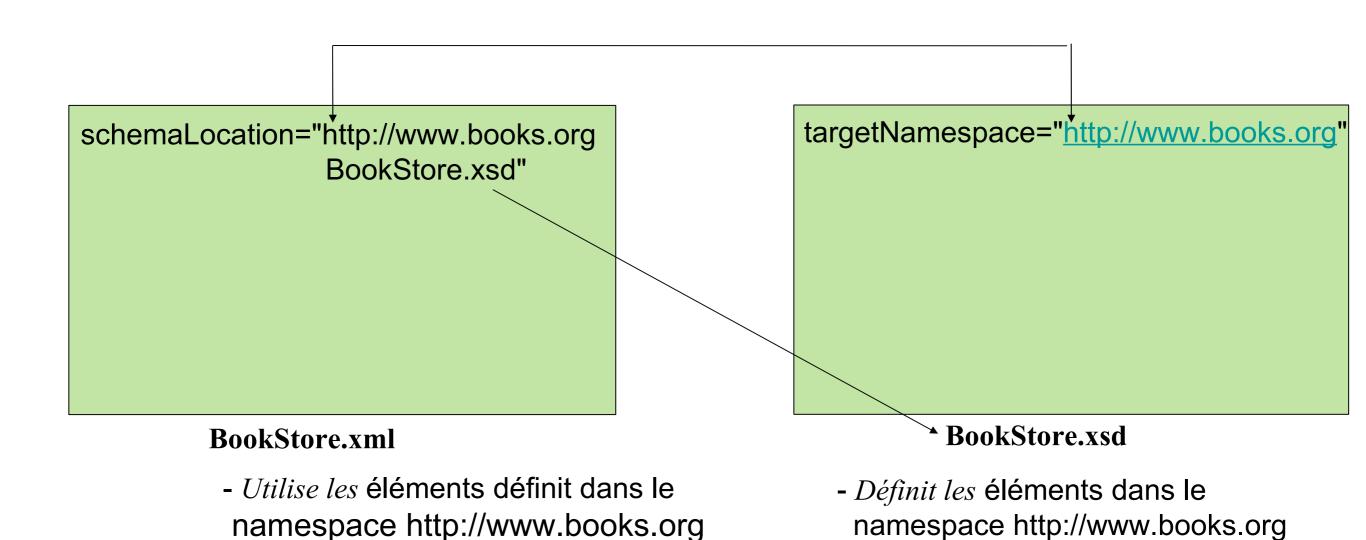
Les documents xml utilisent un autre namespace http://www.w3.org/2001/XMLSchema-instance pour les données

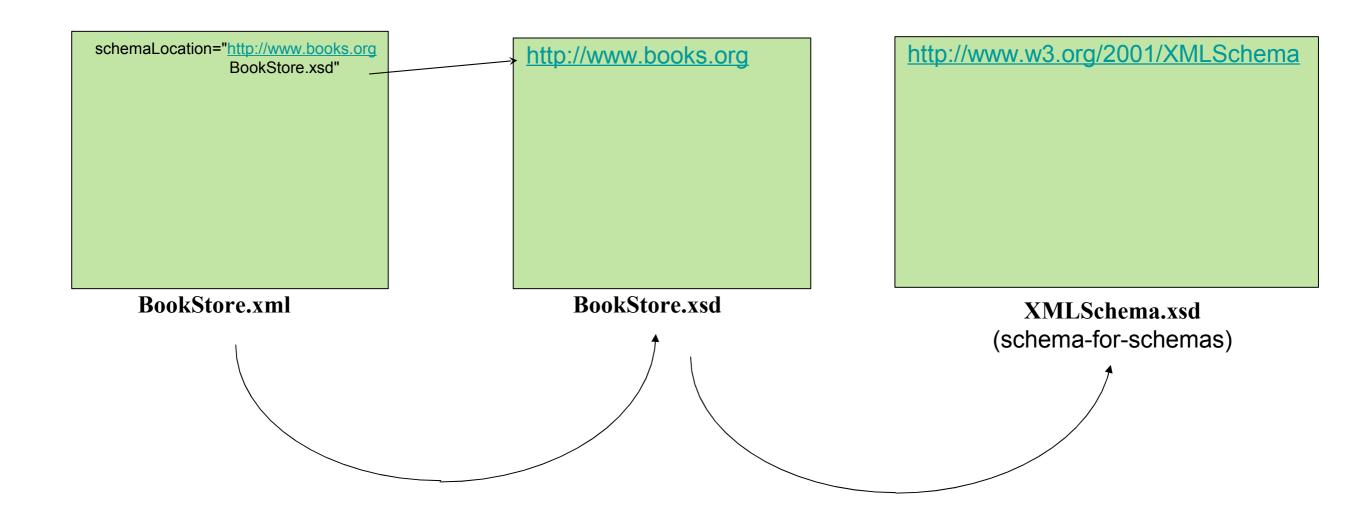
http://www.books.org (targetNamespace)



books.xml

Le schéma définit un nouveau vocabulaire. Les documents xml instances du schéma *utilisent* le nouveau vocabulaire.

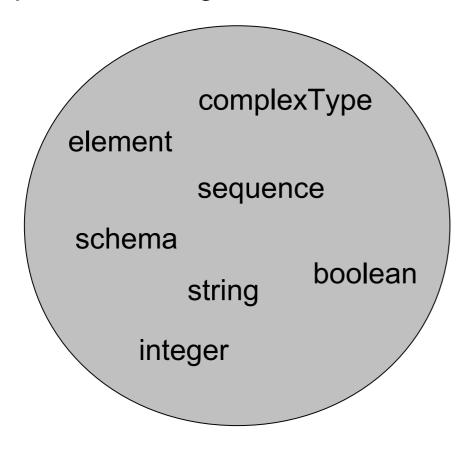




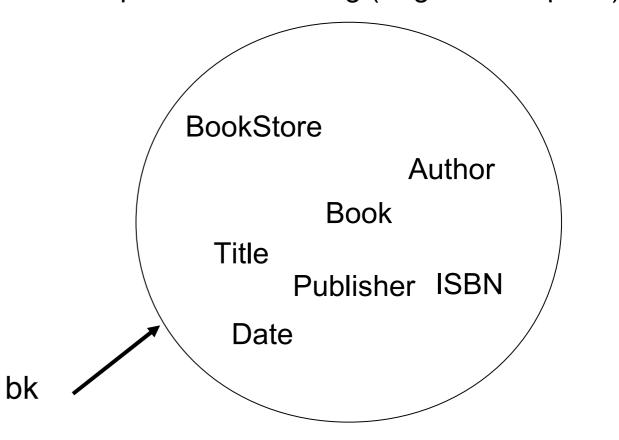
```
<?xml version="1.0"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
        targetNamespace="http://www.books.org"
        xmlns:bk="http://www.books.org"
        elementFormDefault="qualified">
  <element name="BookStore">
    <complexType>
      <sequence>
         <element ref="bk:Book" minOccurs="1" maxOccurs="unbounded"/>
      </sequence>
    </complexType>
  </element>
  <element name="Book">
    <complexType>
      <sequence>
         <element ref="bk:Title"/>
         <element ref="bk:Author"/>
         <element ref="bk:Date"/>
         <element ref="bk:ISBN"/>
         <element ref="bk:Publisher"/>
      </sequence>
    </complexType>
  </element>
  <element name="Title" type="string"/>
  <element name="Author" type="string"/>
  <element name="Date" type="string"/>
  <element name="ISBN" type="string"/>
  <element name="Publisher" type="string"/>
</schema>
```

Les éléments sont définis dans l'espace de nom bk: http://www.books.org

http://www.w3.org/2001/XMLSchema



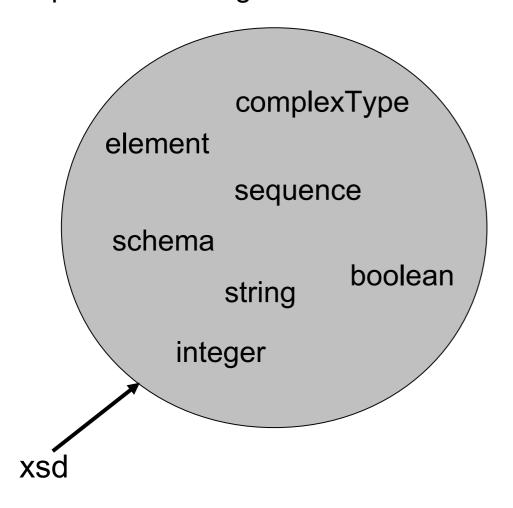
http://www.books.org (targetNamespace)



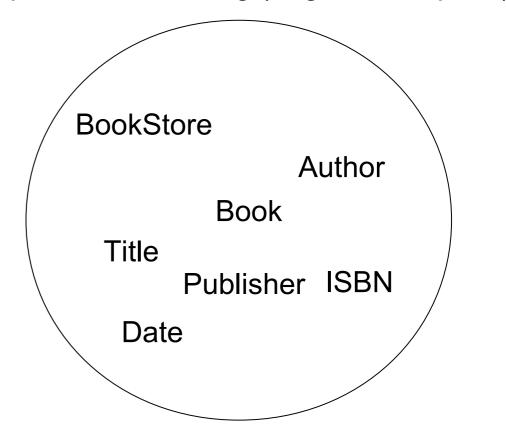
```
<?xml version="1.0"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
        targetNamespace="http://www.books.org"
        xmlns="http://www.books.org"
        elementFormDefault="qualified">
  <xsd:element name="BookStore">
    <xsd:complexType>
       <xsd:sequence>
         <xsd:element ref="Book" minOccurs="1" maxOccurs="unbounded"/>
       </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="Book">
    <xsd:complexType>
       <xsd:sequence>
         <xsd:element ref="Title"/>
         <xsd:element ref="Author"/>
         <xsd:element ref="Date"/>
         <xsd:element ref="bk:ISBN"/>
         <xsd:element ref="bk:Publisher"/>
       </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="Title" type="xsd:string"/>
  <xsd:element name="Author" type="xsd:string"/>
  <xsd:element name="Date" type="xsd:string"/>
  <xsd:element name="ISBN" type="xsd:string"/>
  <xsd:element name="Publisher" type="xsd:string"/>
</xsd:schema>
```

Les éléments sont définis dans l'espace de nom par défaut http://www.books.org

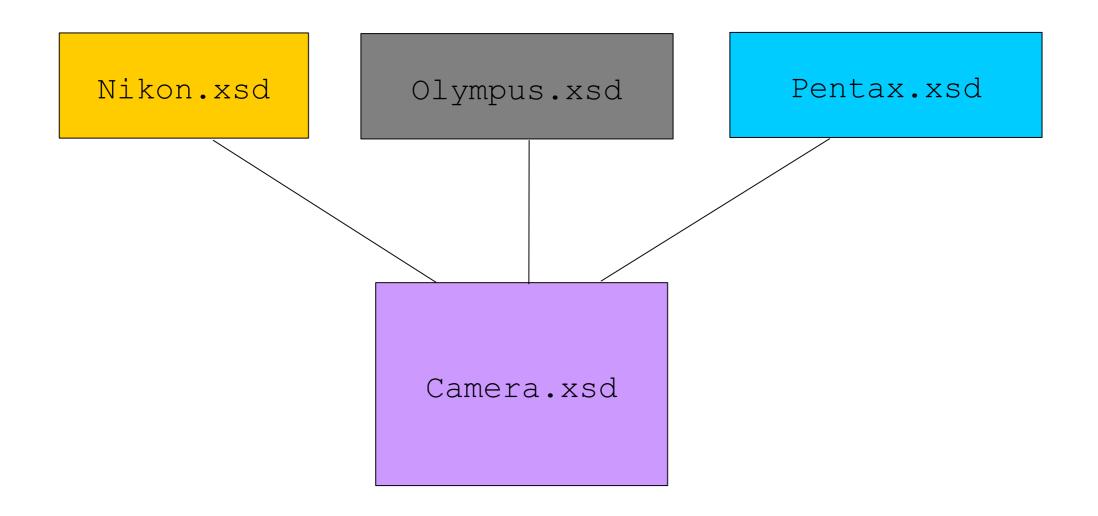
http://www.w3.org/2001/XMLSchema



http://www.books.org (targetNamespace)



Camera Schema



Nikon.xsd

Olympus.xsd

Pentax.xsd

```
<?xml version="1.0"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"</pre>
            targetNamespace="http://www.camera.org"
            xmlns:nikon="http://www.nikon.com"
            xmlns:olympus="http://www.olympus.com"
            xmlns:pentax="http://www.pentax.com"
            elementFormDefault="qualified">
  <xsd:import namespace="http://www.nikon.com"</pre>
              schemaLocation="Nikon.xsd"/>
  <xsd:import namespace="http://www.olympus.com"</pre>
              schemaLocation="Olympus.xsd"/>
  <xsd:import namespace="http://www.pentax.com"</pre>
              schemaLocation="Pentax.xsd"/>
  <xsd:element name="camera">
    <xsd:complexType>
       <xsd:sequence>
         <xsd:element name="body" type="nikon:body type"/>
         <xsd:element name="lens" type="olympus:lens type"/>
         <xsd:element name="manual adapter" type="pentax:manual adapter type"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
</xsd:schema>
```

XML instance:

```
<?xml version="1.0" encoding="UTF-8"?>
<camera xsi:schemaLocation="http://www.camera.org</pre>
camera.xsd" xmlns="http://www.camera.org" xmlns:nikon="http://
www.nikon.com" xmlns:olympus="http://www.olympus.com"
xmlns:pentax="http://www.pentax.com"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
      <body>
            <nikon:description/>
      </body>
      <lens>
            <olympus:zoom/>
            <olympus:f-stop/>
      </lens>
      <manual_adapter>
            <pentax:speed/>
      </manual_adapter>
</camera>
```

Exemple: Combien d'espaces de noms ?

A quel espace de noms appartiennent les éléments : document, html et h1

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform" xmlns:fo="http://www.w3.org/1999/XSL/Format">
<document xmlns="http://www.xpp.fr/exo">
    <html>ceci est un exercices</html>
</document>
<xsl:template match="machin">
    <a href="http://www.w3.org/1999/xhtml">html xmlns="http://www.w3.org/1999/xhtml"</a>
xmlns:wml="http://www.wapforum.org/2001/wml">
           <head xmlns:xpp="http://www.xpp.fr/exo">
                  <xpp:document>ce texte n'a pas de sens/xpp:document>
                  <title>Insert your title here</title>
           </head>
           <wml:card>
                  <h1>Insert your headline here</h1>
                  Insert your text here
           </wml:card>
    </html>
</xsl:template>
</xsl:stylesheet>
```

Exemple: Combien d'espaces de noms ?

- Il y a 5 espaces de noms :
- 1. http://www.w3.org/1999/XSL/Transform
- http://www.w3.org/1999/XSL/Format
- 3. http://www.xpp.fr/exo
- 4. http://www.w3.org/1999/xhtml
- 5. http://www.wapforum.org/2001/wml
- les deux occurrences de document appartiennent à l'espace de noms
 : http://www.xpp.fr/exo
- la première occurrence de html appartient à l'espace de noms : http://www.xpp.fr/exo
- la deuxième occurrence de html appartient à l'espace de noms :http://www.w3.org/1999/xhtml
- l'occurrence de h1 appartient à l'espace de noms :http://www.w3.org/1999/xhtml