



# Querying XML

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## XPath

# Querying XML

Not nearly as mature as Querying Relational

- Newer
- No underlying algebra

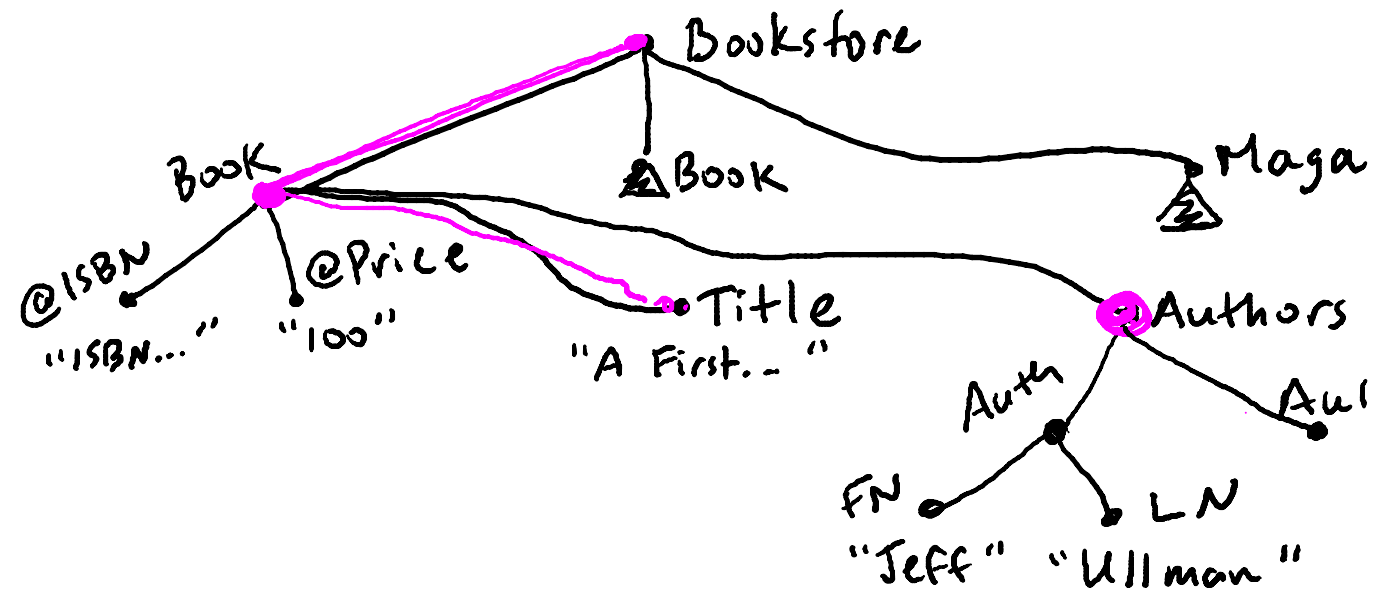
Sequence of development

- ① XPath — path expressions + conditions
- ③ 2. XSLT — XPath + transformations, output formatting 
- ② 3. XQuery — XPath + full-featured Q.L.

XLink, XPointer

**XPath = Path expressions + Conditions** 

Think of XML as a tree



Basic  
Constructs

[N]

[3]

# ***XPath = Path expressions + Conditions***

Built-in functions (lots of them)

*contains(s1, s2)*   
*name()* 

Navigation “axes” (13 of them)

*parent::*

*following-sibling::*

*descendants::*

*self::*



*//* 

## More Details

XPath queries operate on & return *sequence of elements*

- XML document
- XML stream

Sometimes result can be expressed as XML, not always

**Demo:** XPath examples  
over bookstore data