Transforming XML

- Benefit of XML
 - Structured, standard
 - > Readable, understandable (see iTunes example)
- We don't always know the format we need for our application
 - > Adapter pattern, fit with XML?
 - > If the data is cumbersome, make it agile
 - http://www.w3.org/Style/XSL

What is XSL (*) ?

- Extensible Stylesheet Language *Family*
- XLST adds Transformations
 - > Transform XML into ... (HTML, RDF, XML,...)
 - Complete programming language
- XPATH
 - Language for expressing/addressing parts of an XML document, see also XML Linking (http://www.w3.org/TR/xlink)
- XSL-FO
 - Vocabulary for specification of formatting semantics (don't ask me)

What is XSLT?

- Rule-based language
 - Match elements
 - Select elements
 - Find value of elements
- Need minimal understanding of XPATH to understand rules/templates in XLST
 - Rule/query in XLST has a *context*, the node in the XML source being transformed
 - Specify tree-like path from some root to a node

Simple View of XPATH

• The root is /

> This is global, beginning of transformed XML

• foo/bar

Path from foo to bar (direct parent-child)

> To be global use /foo/bar

- //foo and foo//bar
 - Like foo->*bar, e.g., any number of ancestors/decscendants between labelled nodes