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

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14.1

14.3

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

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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)

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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

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