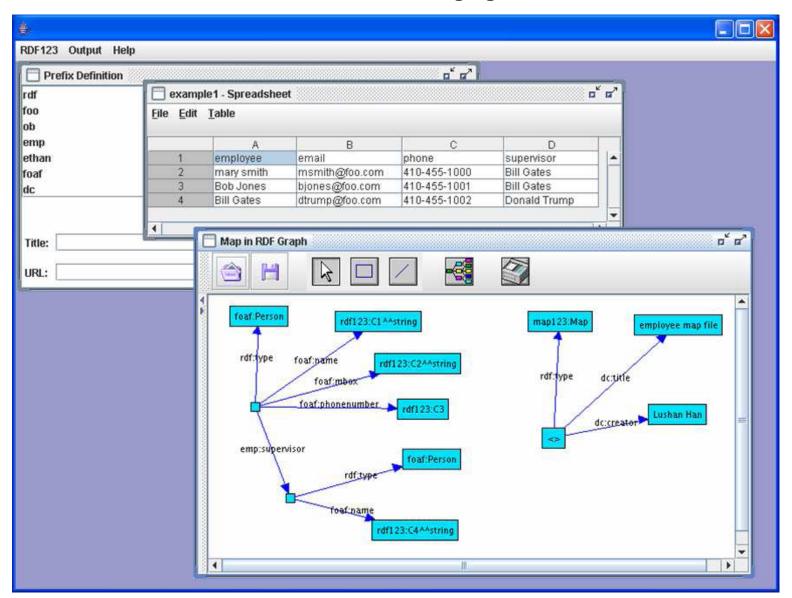
RDF123: Spreadsheets to RDF

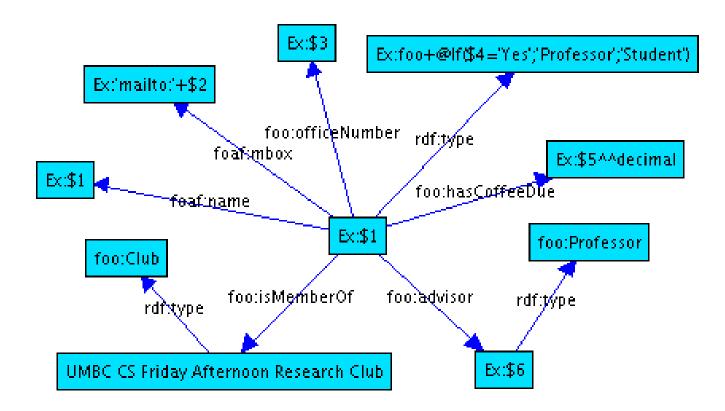
- In 2007 we developed the RDF123 Java app to translate spreadsheets into RDF graphs
- Translation is driven by a map that permits
 - a rich schema to apply to each row, rather than just creating a single instance of a RDF/OWL class.
 - Conditionals allow different rows to use different schemata
- See http://rdf123.umbc.edu/ for more info
- See <u>CSV on the Web: A Primer</u> for the W3C's work on developing a standard

RDF123 Java Application



RDF123 Example

Name	Email	Office	Faculty	Coffee Due	Advisor
Tim Finin	finin@umbc.edu	ITE329	Yes	\$10	
Lushan Han	lushan@umbc.edu	ITE377	No		Tim Finin
Wenjia Li	wenjia@umbc.edu	ITE377	No		Anupam Joshi



RDF123 graph serialized as RDF/XML

```
<rdf:RDF
    xmlns:foaf="http://xmlns.com/foaf/0.1/"
    xmlns:foo="http://www.foo.org/"
    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#">
  <foo:Club rdf:about="#UMBC CS Friday Afternoon Research Club"/>
  <rdf:Description rdf:about="Ex:$1">
    <rdf:type rdf:resource="Ex:foo+@If($4='Yes';'Professor';'Student')"/>
    <foaf:mbox>Ex:'mailto:'+$2</foaf:mbox>
    <foaf:name>Ex:$1</foaf:name>
    <foo:officeNumber>Ex:$3</foo:officeNumber>
    <foo:hasCoffeeDue>Ex:$5^^decimal</foo:hasCoffeeDue>
    <foo:advisor>
      <foo:Professor rdf:about="Ex:$6"/>
    </foo:advisor>
    <foo:isMemberOf rdf:resource="#UMBC CS Friday Afternoon Research Club"/>
  </rdf:Description>
</rdf:RDF>
```