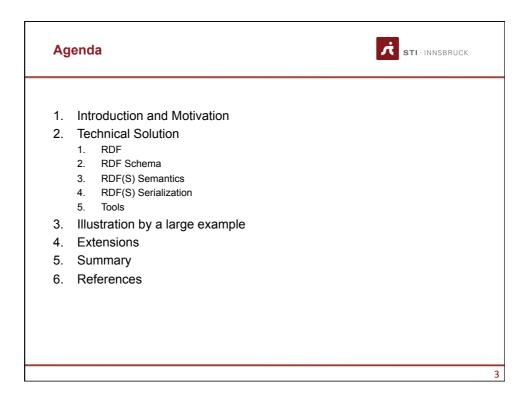
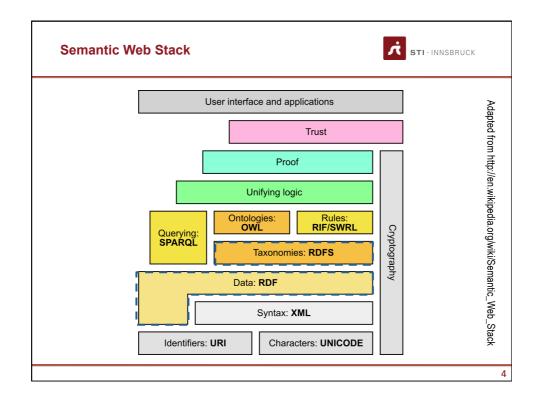
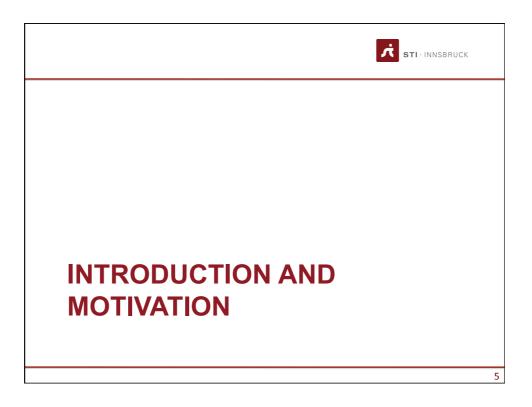
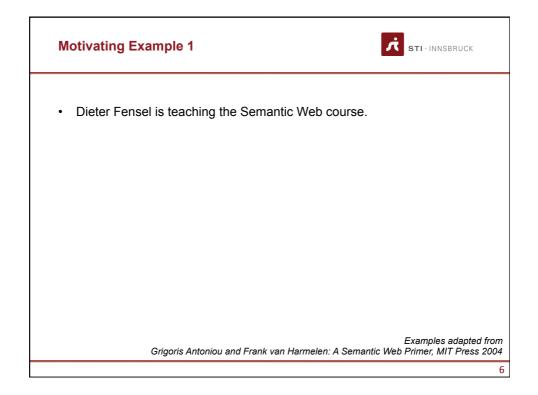


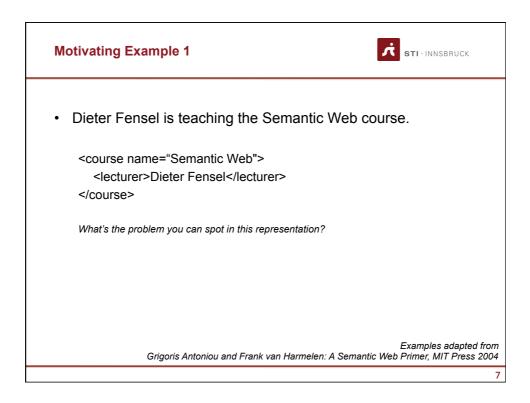
#	Title	
1	Introduction	
2	Semantic Web Architecture	
3	Resource Description Framework (RDF)	
4	Web of data	
5	Generating Semantic Annotations	
6	Storage and Querying	
7	Web Ontology Language (OWL)	
8	Rule Interchange Format (RIF)	
9	Reasoning on the Web	
10	Ontologies	
11	Social Semantic Web	
12	Semantic Web Services	
13	Tools	
14	Applications	

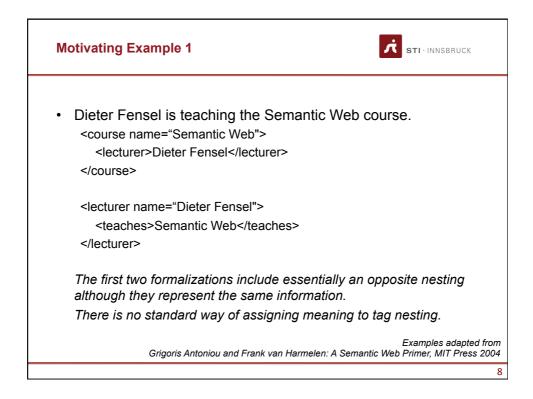


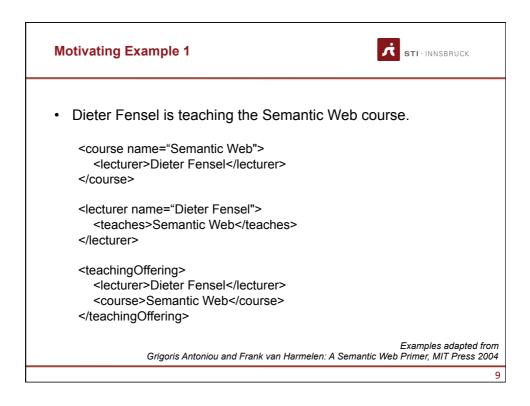


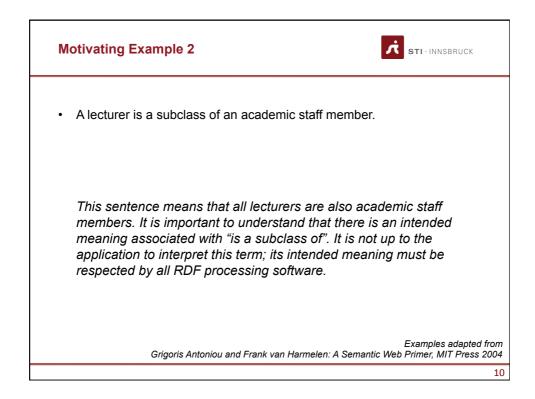


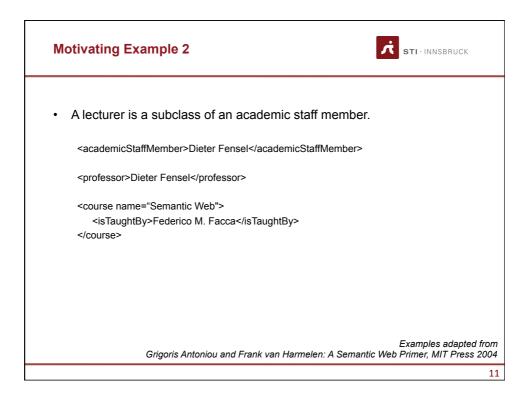


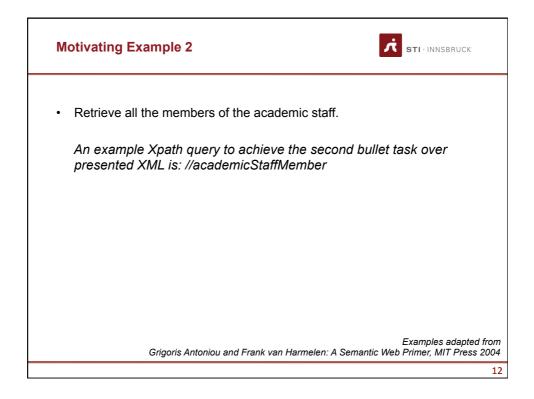


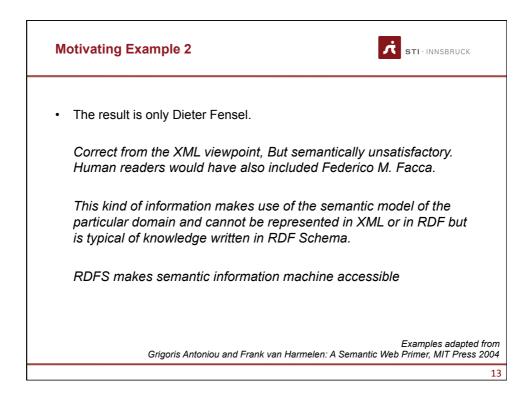


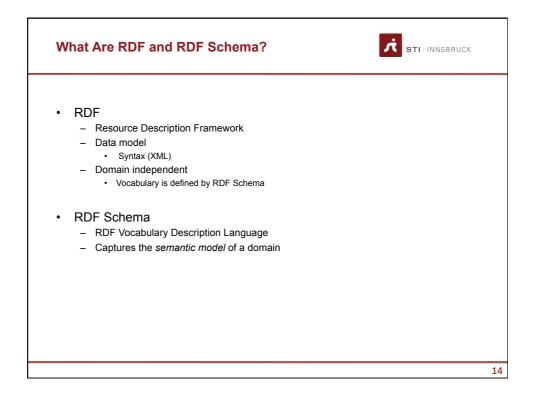




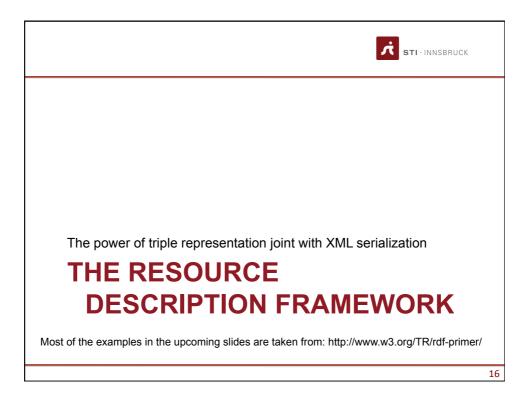


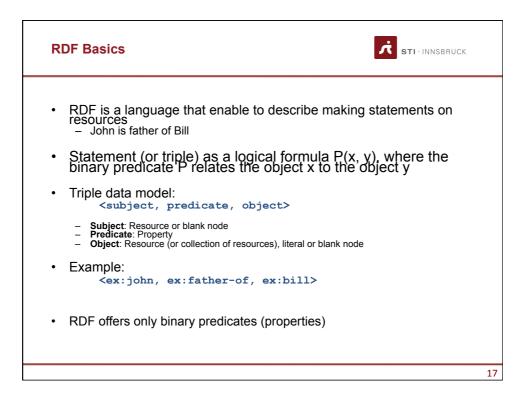


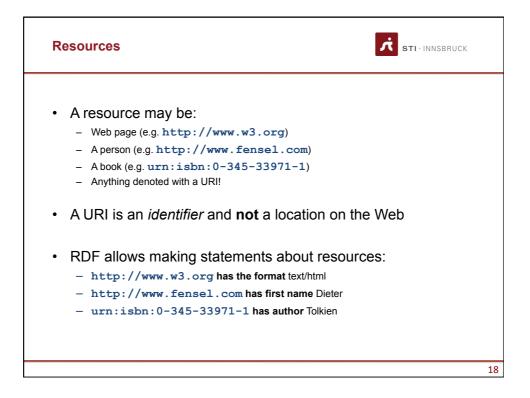




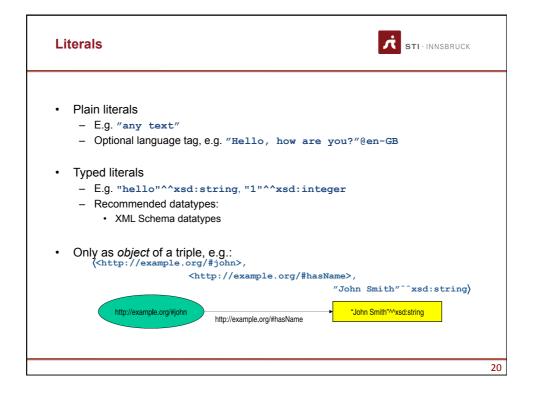


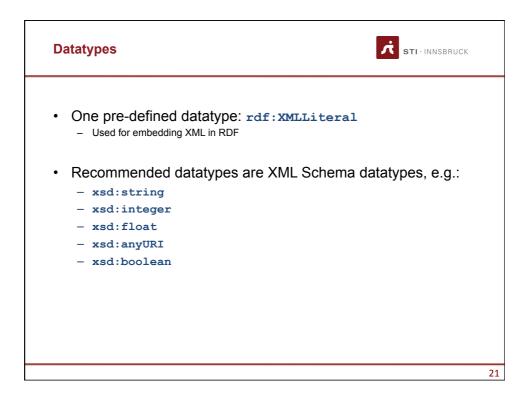


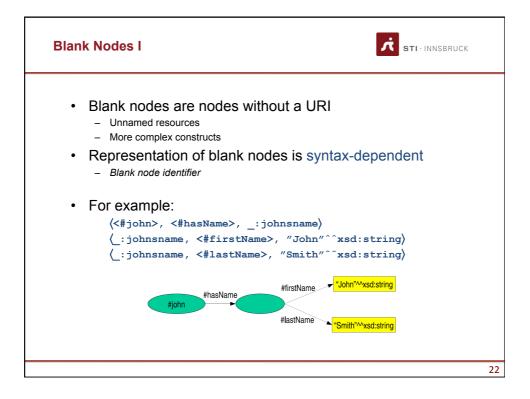


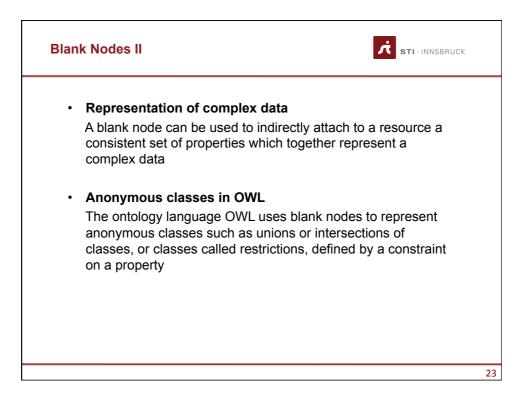


A Uniform Resource Identifier (URI) is a string of characters used to identify a name or a resource on the Internet	
A URI can be a URL or a URN	
A Uniform Resource Name (URN) defines an item's identity	
 the URN urn:isbn:0-395-36341-1 is a URI that specifies the identifier system, i.e. International Standard Book Number (ISBN), as well as the unique reference within that system and allows one to talk about a book, but doesn't suggest where and how to obtain an actual copy of it 	
A Uniform Resource Locator (URL) provides a method for finding it	
 the URL http://www.sti-innsbruck.at/ identifies a resource (STI's home page) and implies that a representation of that resource (such as the home page's current HTML code, as encoded characters) is obtainable via HTTP from a network host named www.sti-innsbruck.at 	
	19

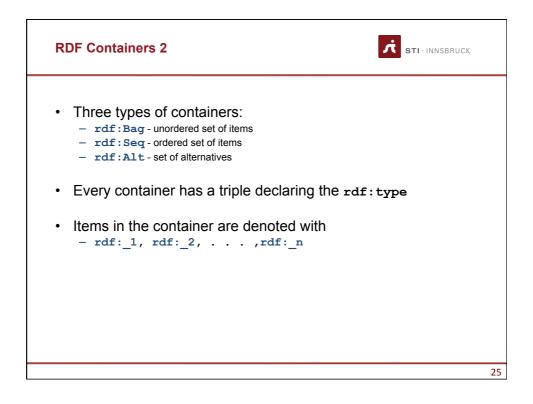


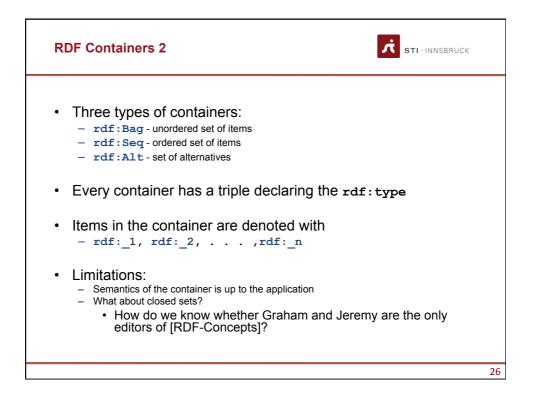


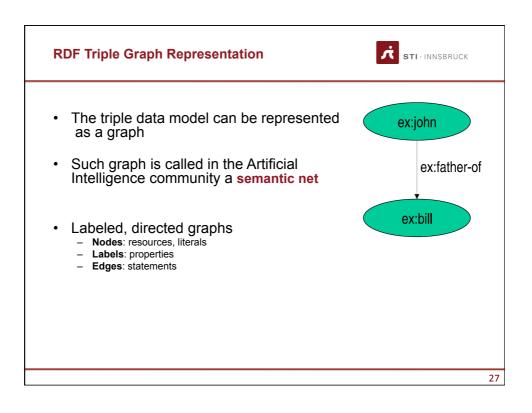


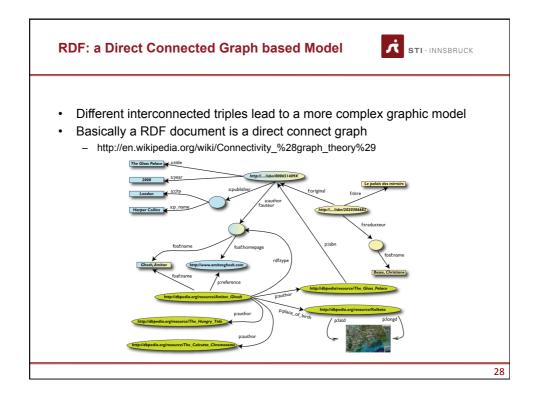


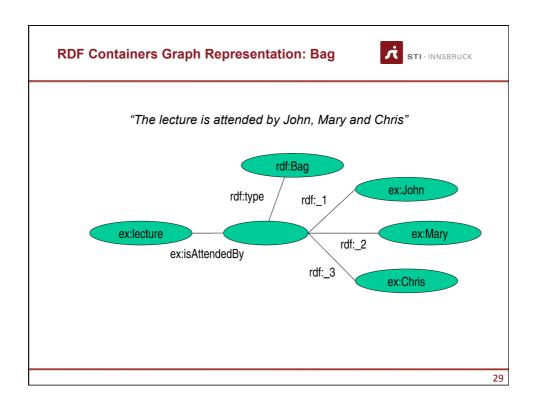
RDF Containers	STI ·INNSBRUCK
 Grouping property values: 	
"The lecture is attended by John, Mary and Chris"	Bag
<i>"[RDF-Concepts] is edited by Graham and Jeremy (in that order)"</i>	Seq
"The source code for the application may be found at ftp1.example.org, ftp2.example.org, ftp3.example.org"	Alt
	24

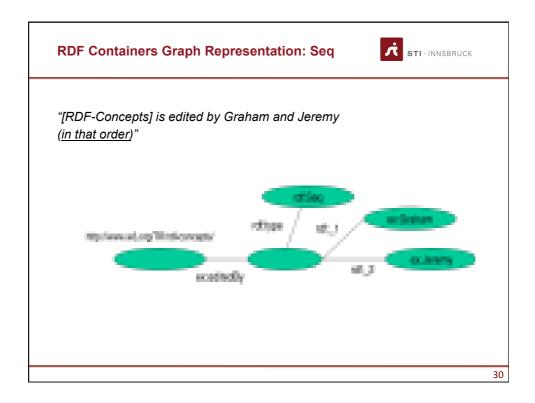


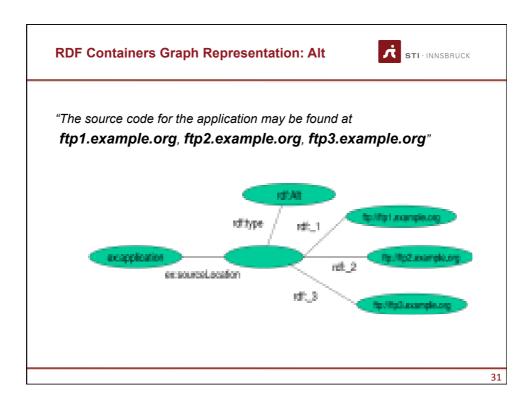


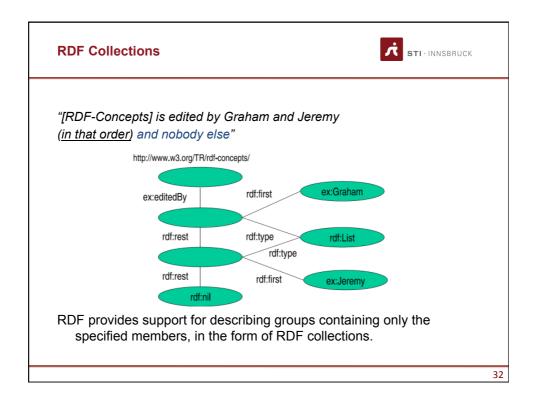






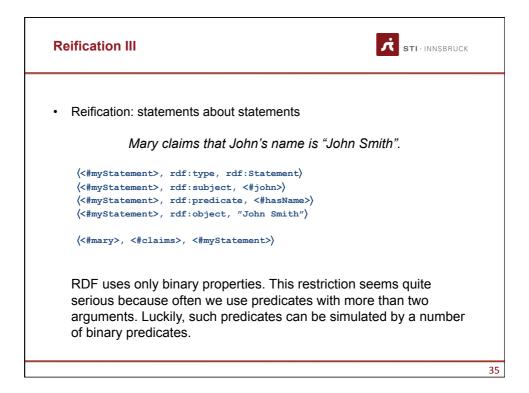


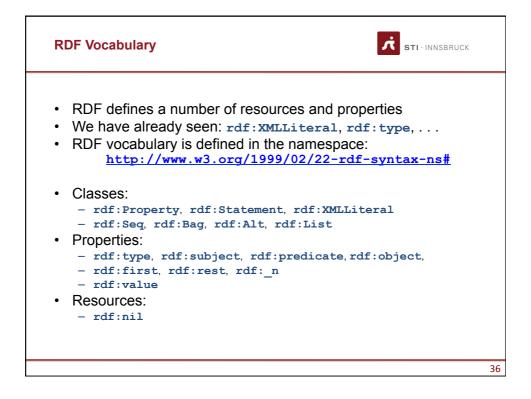


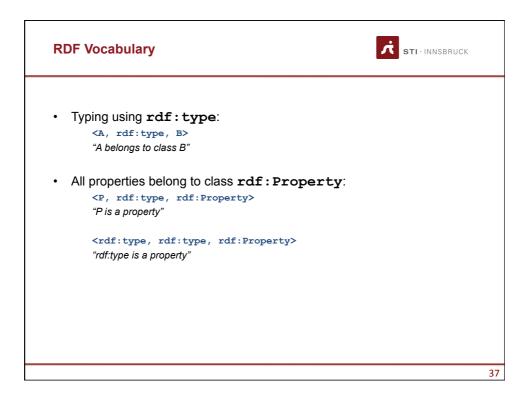


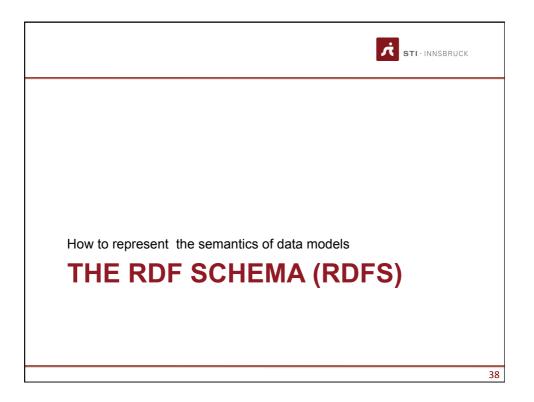
Reification I	
Reification: statements about statements	
Mary claims that John's name is "John Smith".	
<pre><<#myStatement>, rdf:type, rdf:Statement> <!--<#myStatement-->, rdf:subject, <#john>) <!--<#myStatement-->, rdf:predicate, <#hasName>) <!--<#myStatement-->, rdf:object, "John Smith"></pre>	
This kind of statement can be used to describe belief or trust in other statements, which is important in some kinds of applications	
Necessary because there are only triples in RDF: we cannot add an identifier directly to a triple (then it would be a quadruple)	
	33

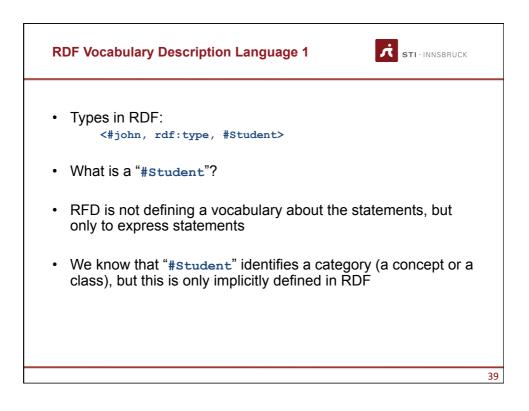
Reification II	STI ·INNSBRUCK
Reification: statements about statements	
Mary claims that John's name is "John Smith".	
<pre><!--#myStatement-->, rdf:type, rdf:Statement> <!--#myStatement-->, rdf:subject, <#john>> <!--#myStatement-->, rdf:predicate, <#hasName>> <!--*myStatement-->, rdf:object, "John Smith"> <!--*myStatement-->, rdf:object, "John Smith"> <!--*myStatement-->, rdf:object, "John Smith"</pre>	
<pre></pre>	
In such a way we attached a label to the statement.	
	34

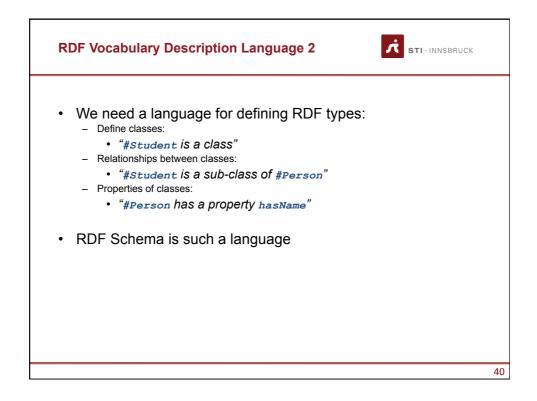


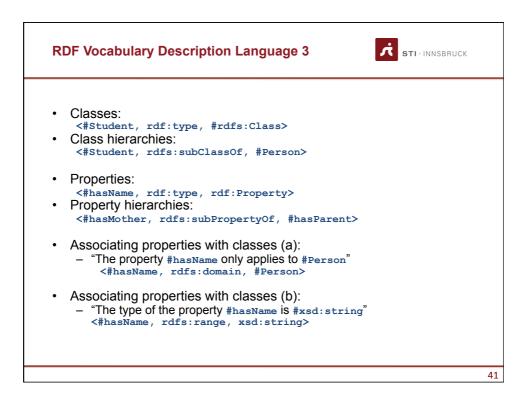


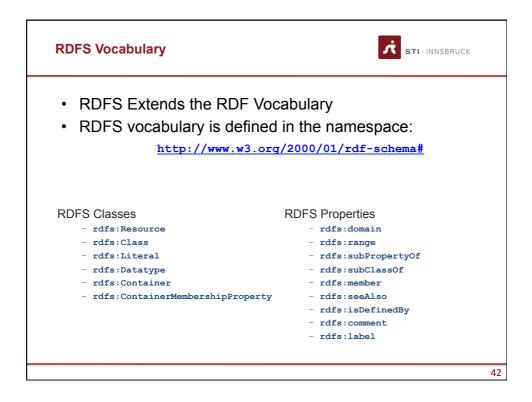


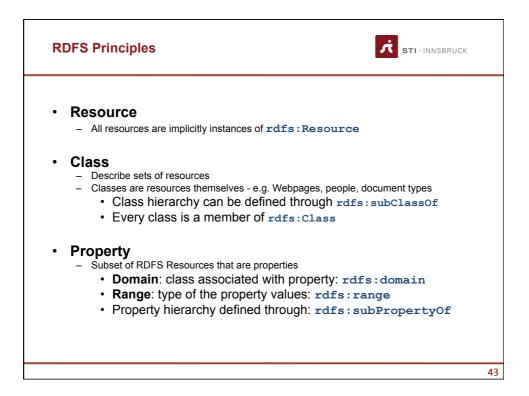


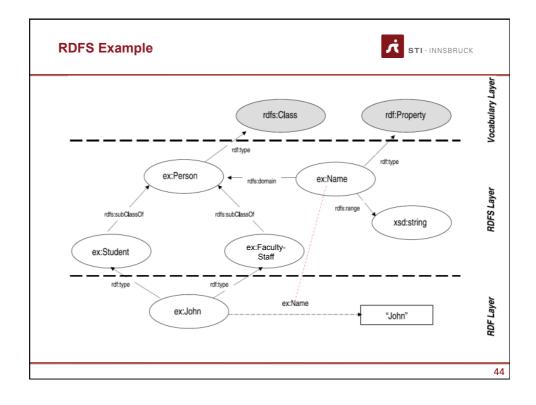


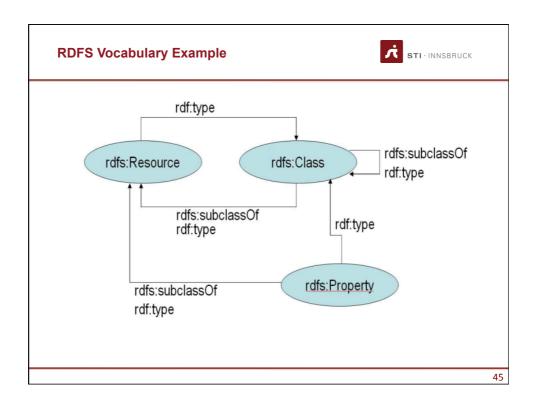


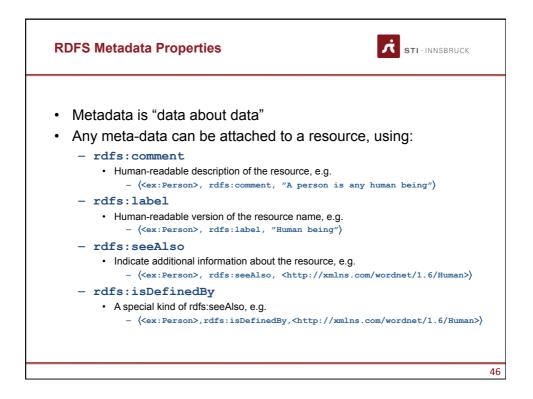


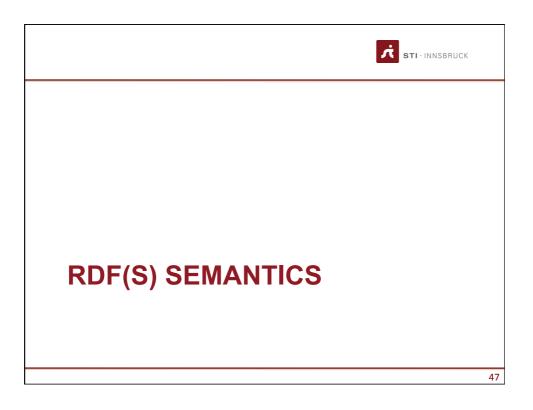


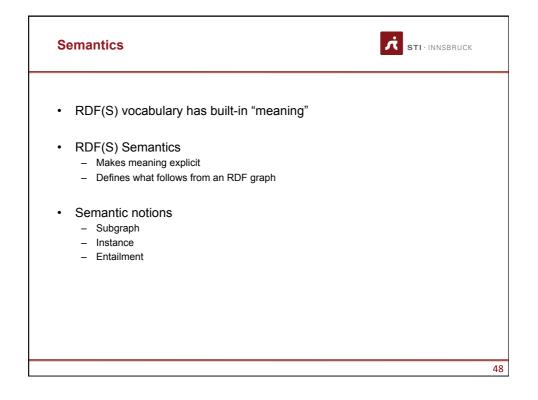


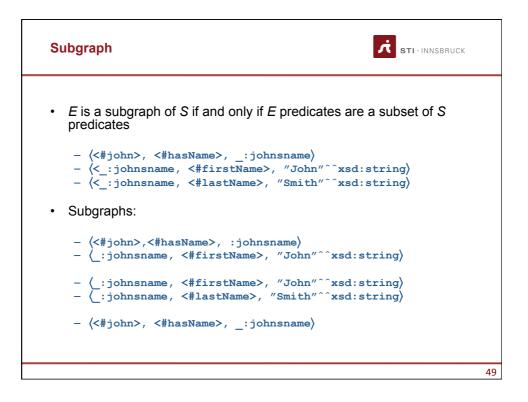




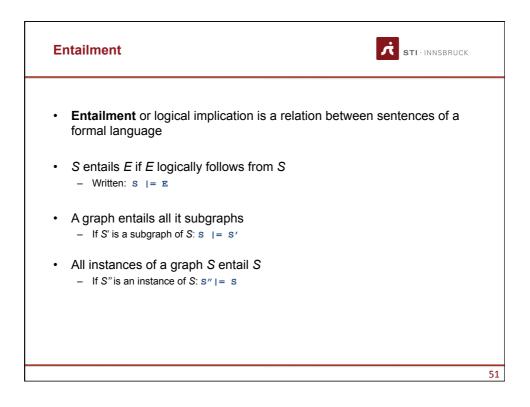


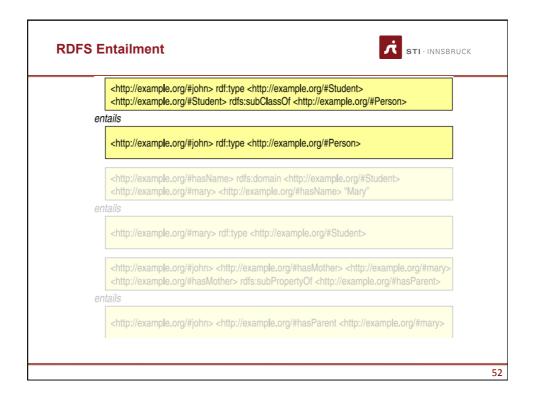


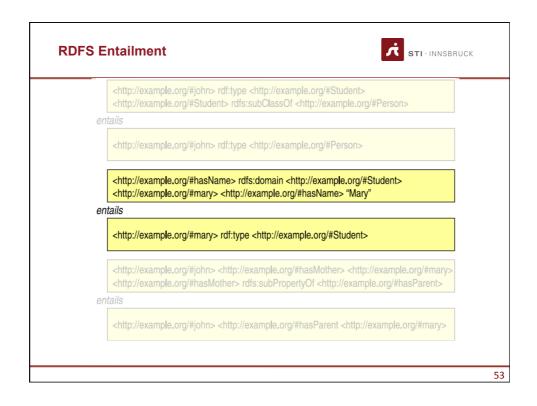


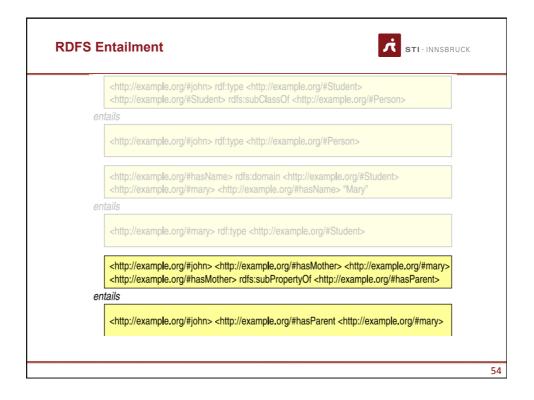


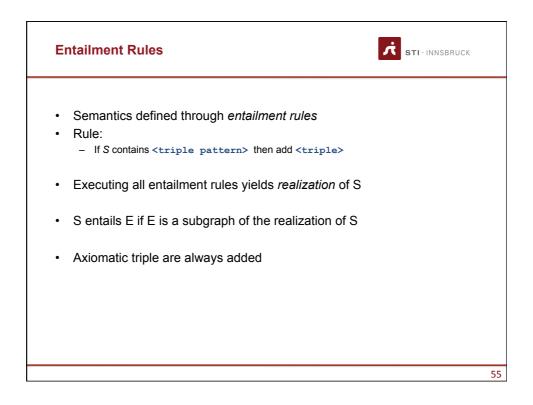
Instance	sti · innsbruck
 S' is an instance of S if and only if some blank nodes in S are repla literals or URIs (<#john>, <#hasName>, _:johnsname) (:johnsname, <#firstName>, "John"^^xsd:string) 	aced with blank nodes,
 - (_:johnsname, <#lastName>, "Smith"^^xsd:string> Instances: - (<#john>, <#hasName>, <#abc>) - (<#abc>, <#firstName>, "John"^^xsd:string) - (<#abc>, <#listName>, "Smith"^^xsd:string) 	
<pre>- <<#john>, <#hasName>, _:X> - <:x, <#firstName>, "John"^^xsd:string> - <:x, <#lastName>, "Smith"^^xsd:string> - <<#john>, <#hasName>, :johnsname)</pre>	
 - (:johnsname, <#firstName>, "John"^^xsd:string) - (:johnsname, <#lastName>, "Smith"^^xsd:string) • Every graph is an instance of itself! 	
	51

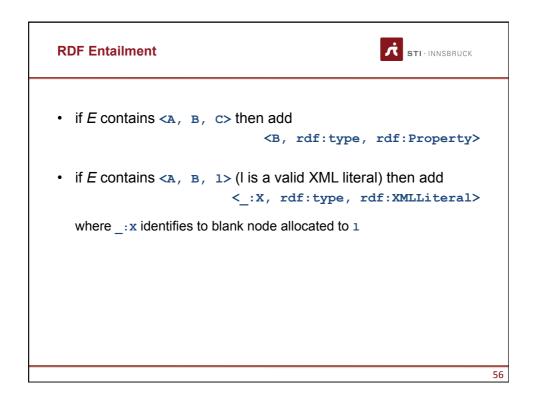


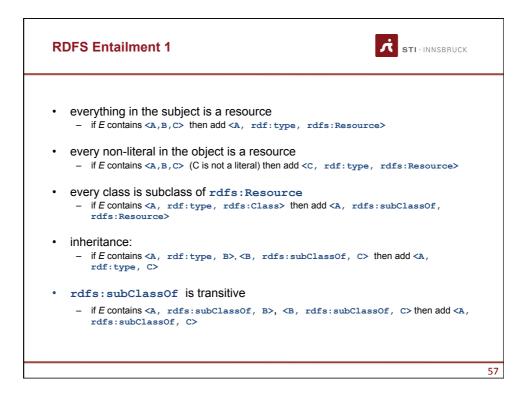


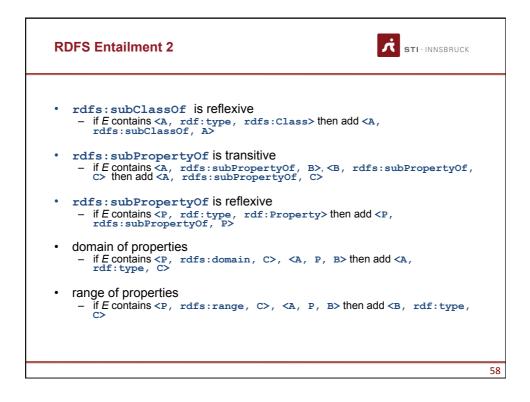






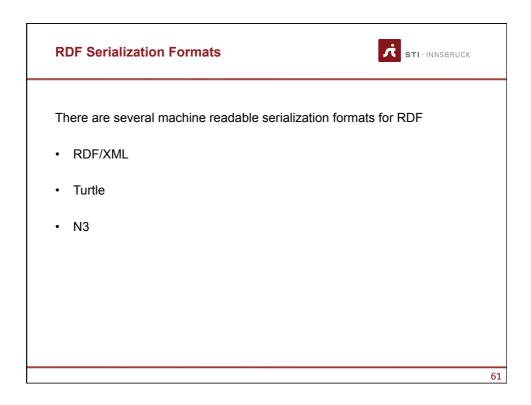


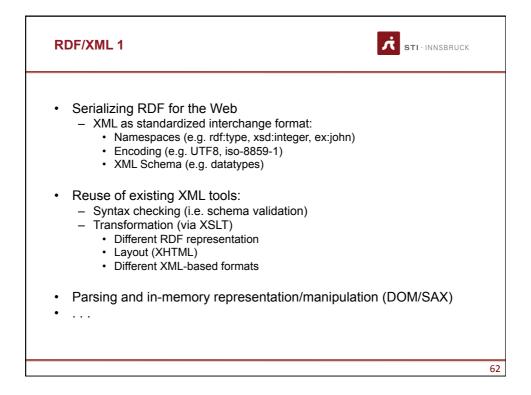


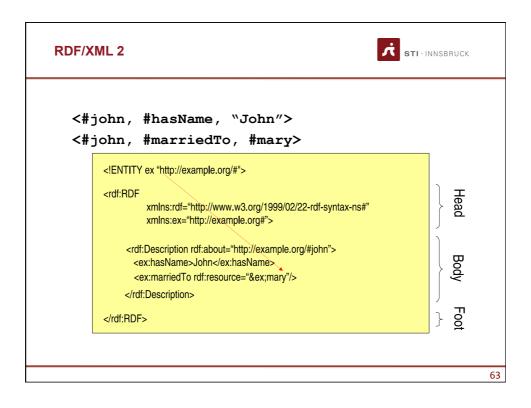


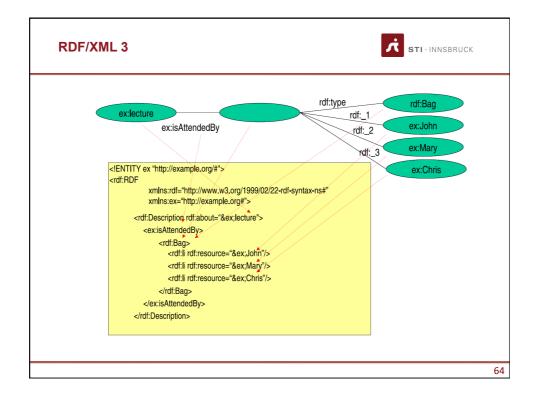


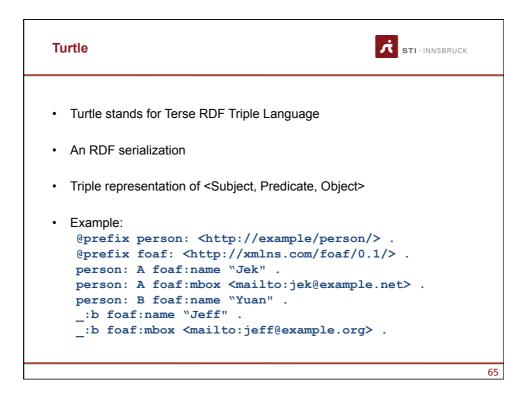


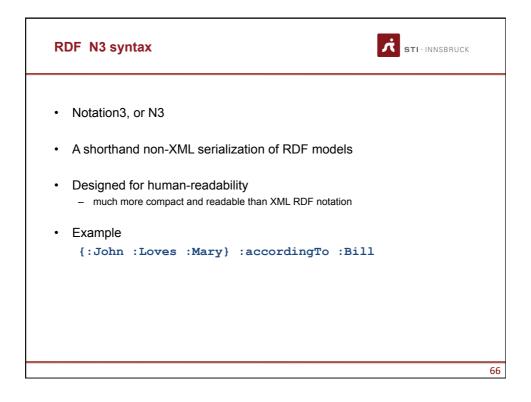


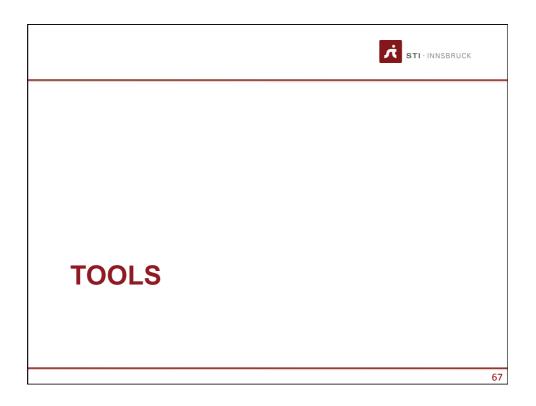


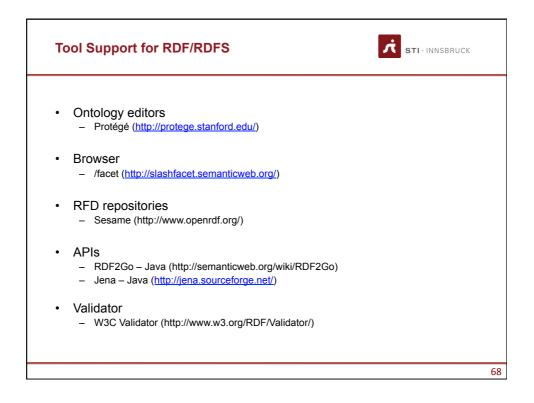


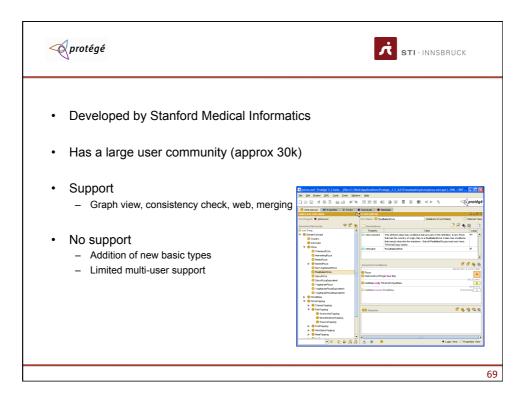




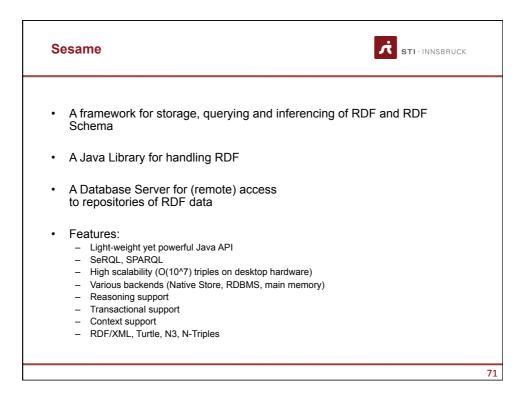






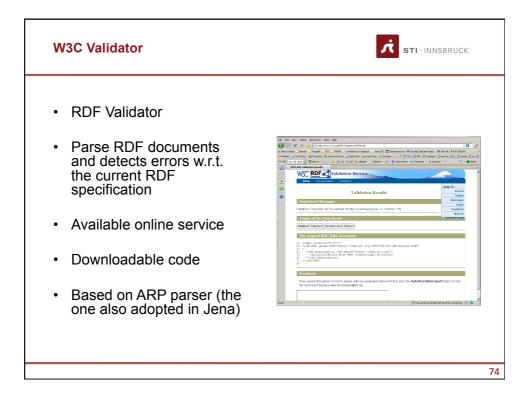


/facet	STI · INNSBRUCK
 /facet is a generic browser for heterogeneous semantic web repositories 	Second Material State Character State (Second State State Character State
 Works on any RDFS dataset without any additional configuration 	Articut Materiado Caterra En caterra da catera da catera da catera da catera da caterra da caterra da caterra d
 Select and navigate facets of resources of any type 	* Branch parallelity and charger * Fer Cr) Fer Structure (MAL) Fer Structure (MAL) Fer Structure (MAL)
 Make selections based on properties of other, semantically related, types 	Automatica Automatica Automatica Collis press const. Collis pre
 Allows the inclusion of facet- specific display options 	Tana - Marine Sala Sala Sala Sala Sala Sala Sala Sal

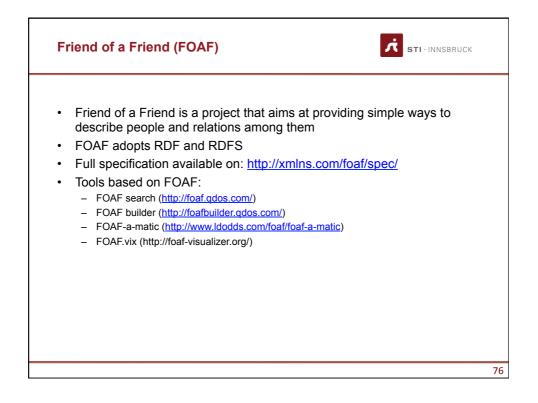


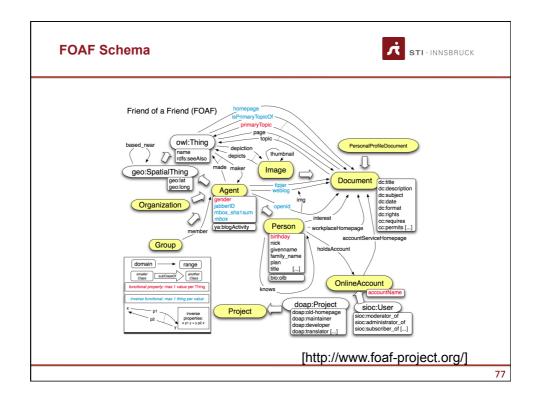
Jena	sti-innsbruck
 A Java framework for building Semantic Initiated by Hewlett Packard (HP) Labs 	
 Includes: A RDF API Reading and writing RDF in RDF/XML, N3 ar An OWL API In-memory and persistent storage SPARQL query engine 	nd N-Triples
	7.

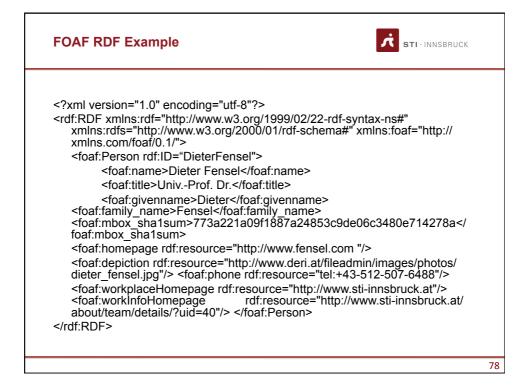
 RDF2Go is an abstraction over triple (and quad) stores. It allows developers to program against rdf2go interfaces and choose or change the implementation later easily It can be extended: you can create an adapter from any RDF Object Model to RDF2Go object model 	
 Directly supported implementations: Jena 2.4 Jena 2.6 Sesame 2 	
	73











ODOS		
BETA		
Friend of a Friend	What do you think?	
Simply enter an email address, or the URL of someone's homepage or blog in th box and click 'go'	ODOS Search for	another profile
We are currently unable to find any results for Dieter Fensel If you know of a FOAF file for this person, please submit it here	вета	Find
**********		Connections
What is FOAF? FOAF (Friend of a Friend) is a way of describing people, their activities, and their relationships to other people and objects. FOAF allows groups of people to truly o	Friend of a Friend	- choose a new relationship -
social networks without the need for a centralised database. The FOAF project (http://www.foaf-project.org) was started in 2000 by Libby Miller (Dieter Fensel	Known By 2 People
Dan Brickley, Today there are many millions of FOAF profiles published on the Vfc and it is growing daily. FOAF is a great way to build large scale, open social networ that are controlled by individual users and not by any one single company.	Homepage: fensel.com	Andreas Harth
One of the challenges with FOAF is to make it more accessible, and Garlik's contribution is to make available a new ODOB FOAF service that allows people to search and browse millions of FOAF files in a user friendryway. Our aim is to indu- and make visible the entire FOAF unkness and we will continue to extend, update publish this index for files, or enclowage wider use of FOAF for building social	🛱 Contact Details	Jürgen Umbrich
networks.		
Terma & Canditina – Privary – Fage – De		Edit this profile



