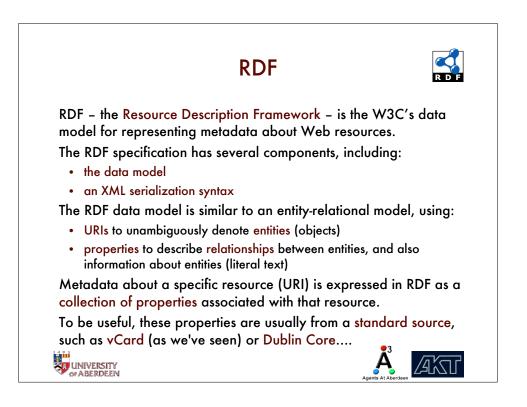
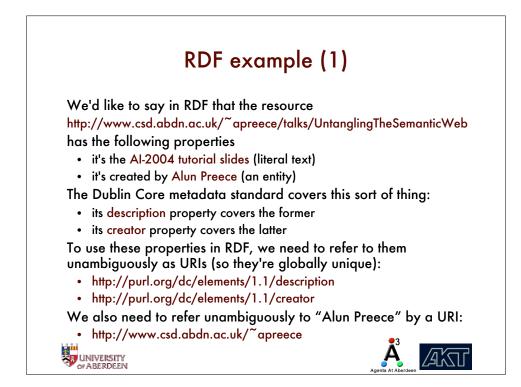
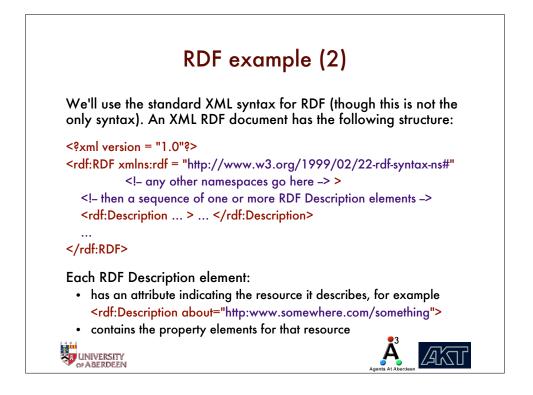
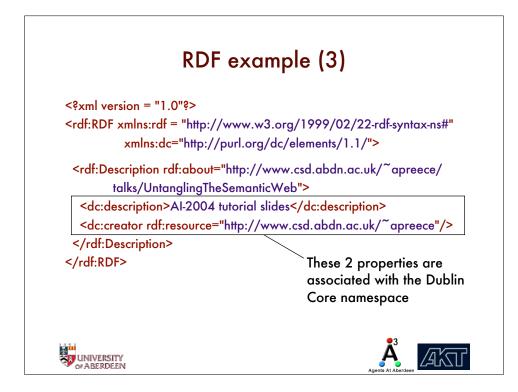


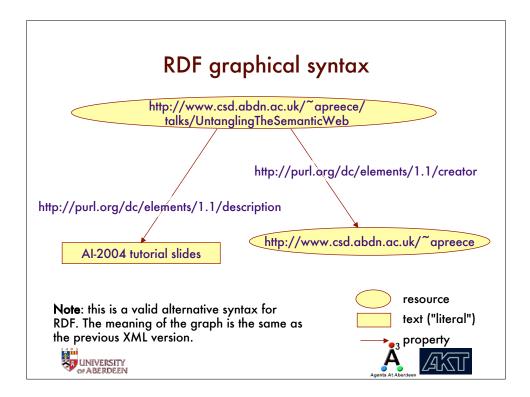
Metad	ata example: Dublin Core  🎇
community, intend	Metadata Initiative originated with the library ded to cover the properties of information ary (including digital libraries).
The DC element s card":	et spans the contents of an electronic "library
title	date
creator	type
subject	format
description	language
publisher	etc
	ation resources have these common properties, e element set has wide applicability to Web
UNIVERSITY	Agents At Aberdeen

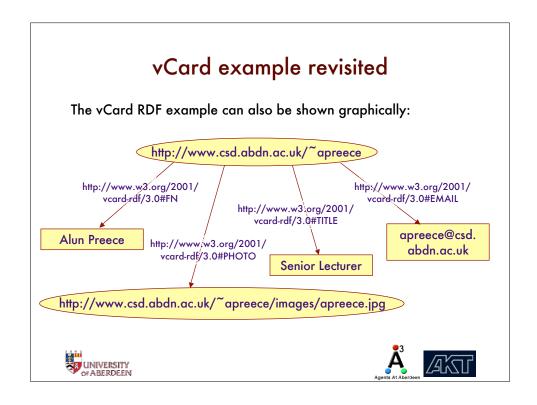


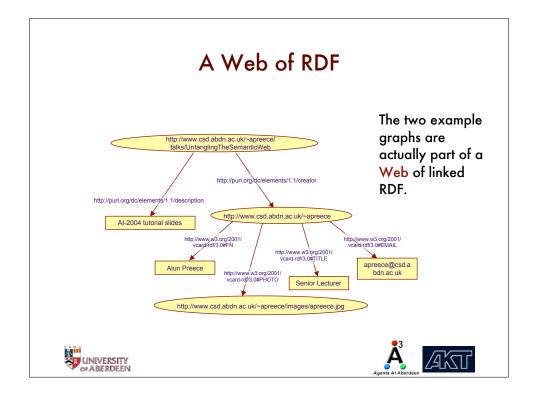


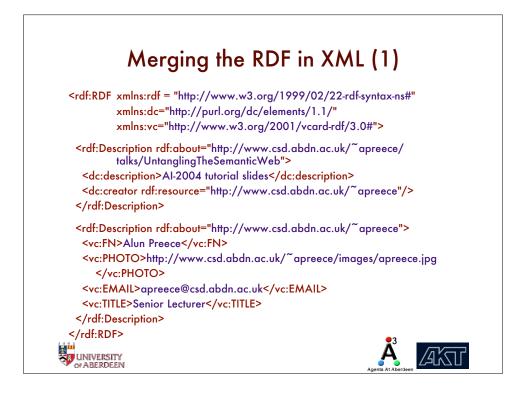


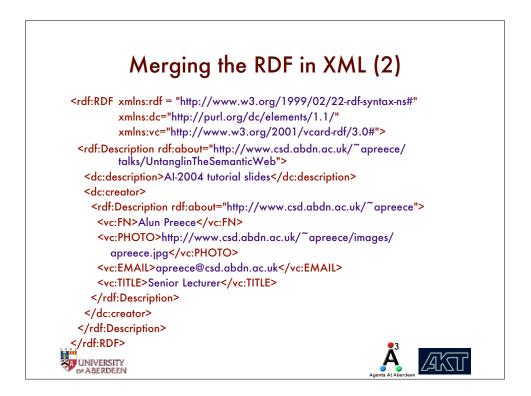


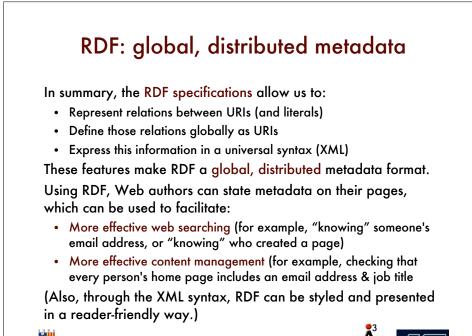




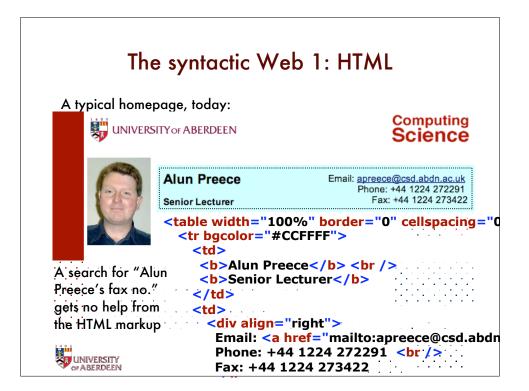




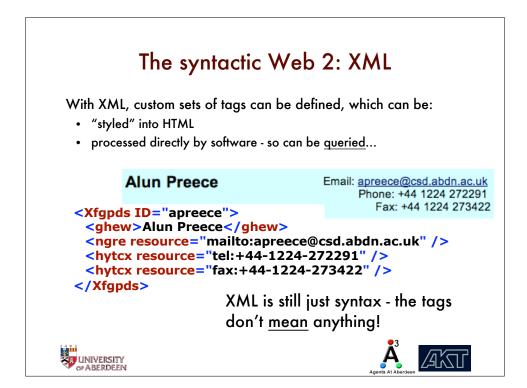


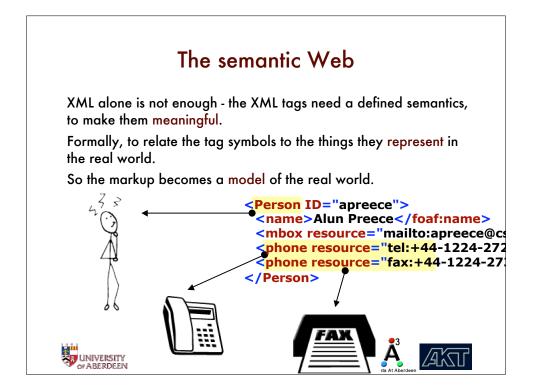


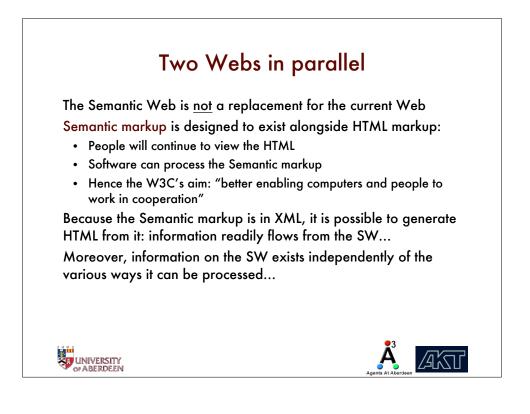


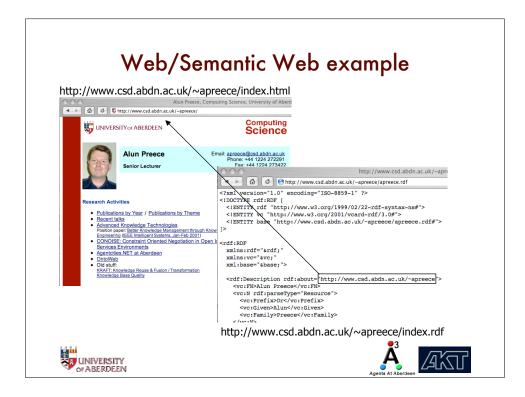


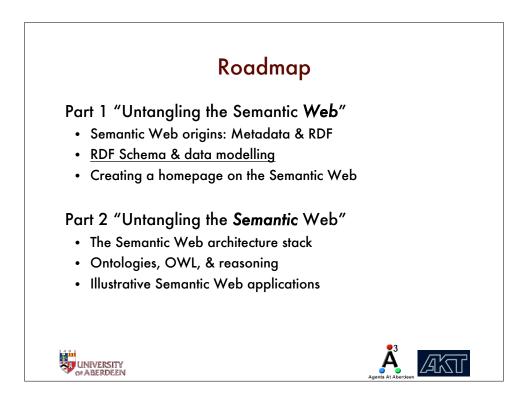
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Web Images Groups Directory News
Searched the web for Alun Preece fax number.
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## RDF recap

As we've seen, RDF distinguishes several kinds of thing:

- resources, denoted by URIs
- properties, a kind of resource, also denoted by URIs
- literals strings of plain text

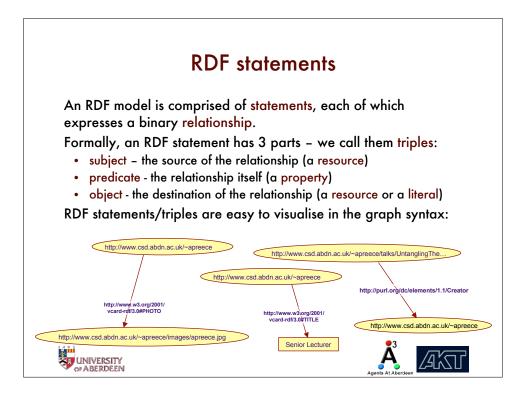
We saw that an RDF description consists of:

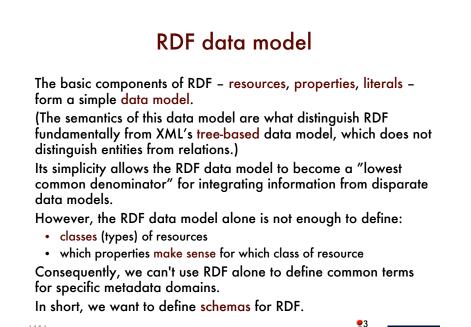
- a resource being described
- a collection of properties of that resource
- a value for each of the properties either a literal or another resource

We refer to a collection of RDF descriptions as an RDF model. We also saw that we can express RDF descriptions in several syntaxes, including XML and graphics.

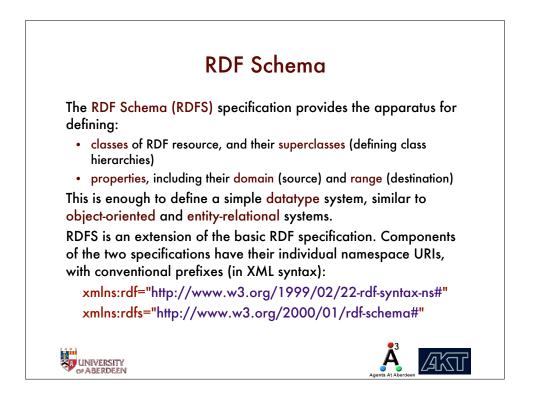
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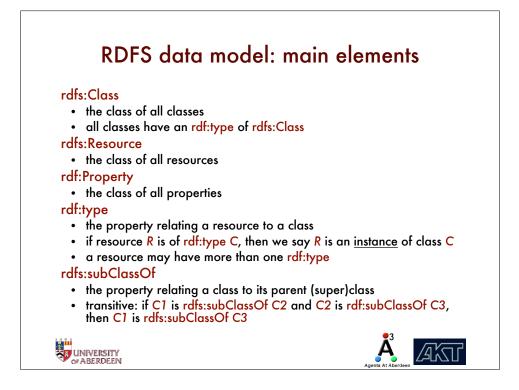




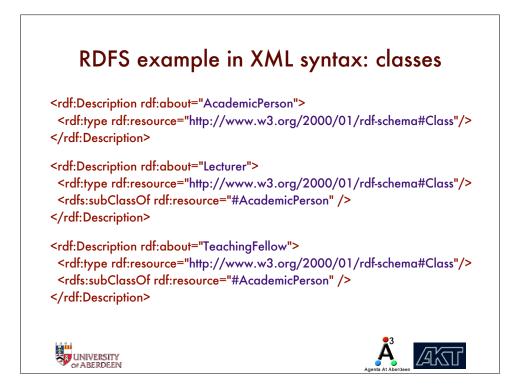




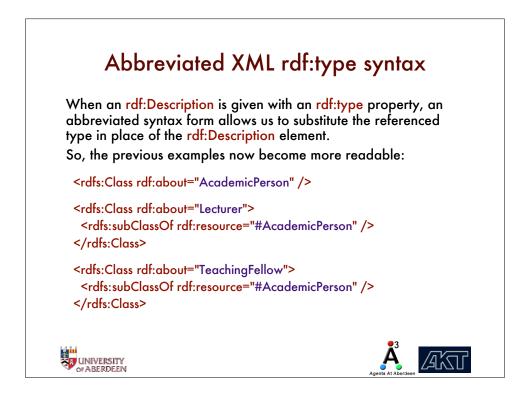


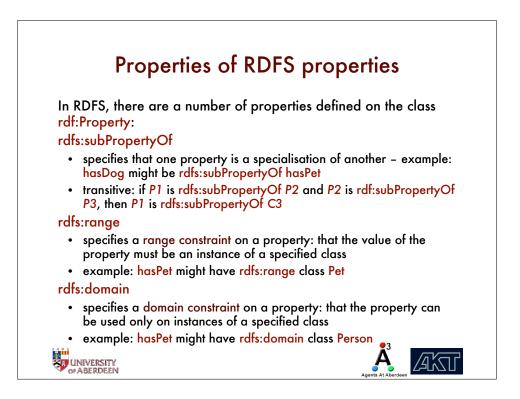


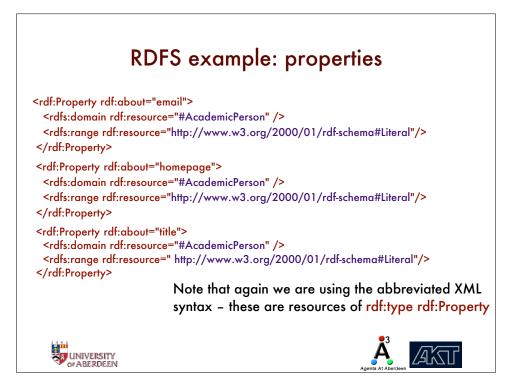
RDFS statements RDFS statements are expressed in RDF triple form (subject, predicate, object). As an example, we'll define a simple schema for University staff, starting with some classes:				
Subject	Predicate	Object		
Subject AcademicPerson	Predicate rdf:type	Object rdfs:Class		
•				
AcademicPerson	rdf:type	rdfs:Class		
AcademicPerson Lecturer	rdf:type rdf:type	rdfs:Class rdfs:Class		

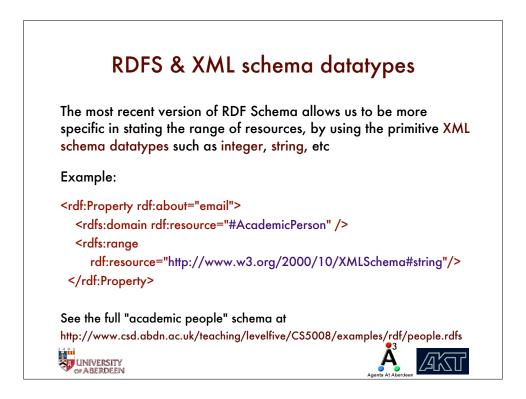


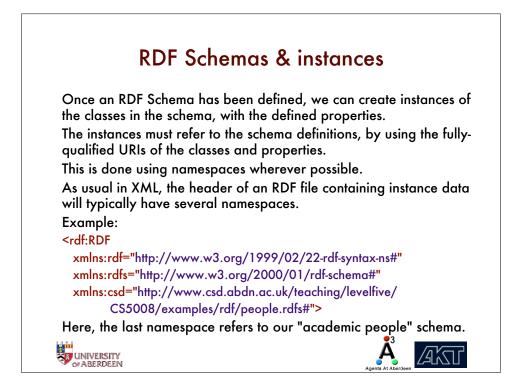


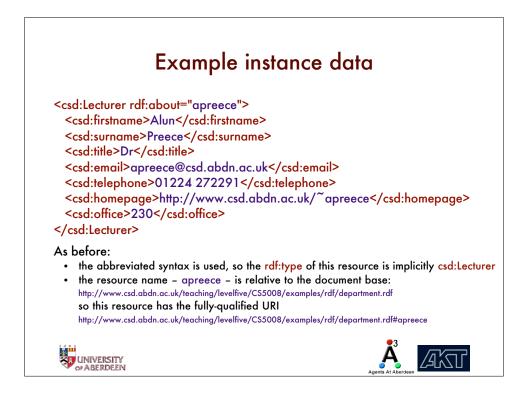


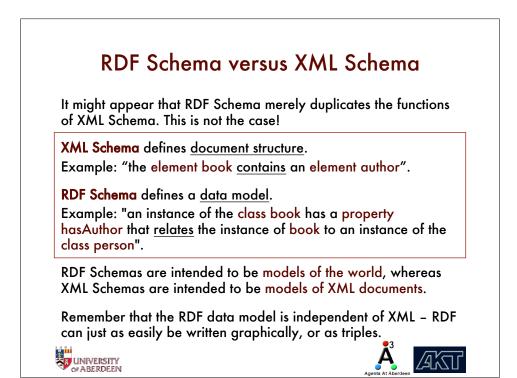


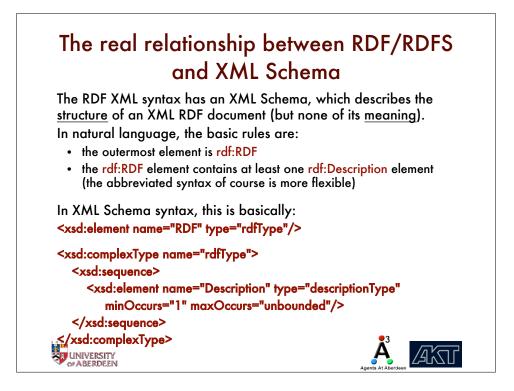




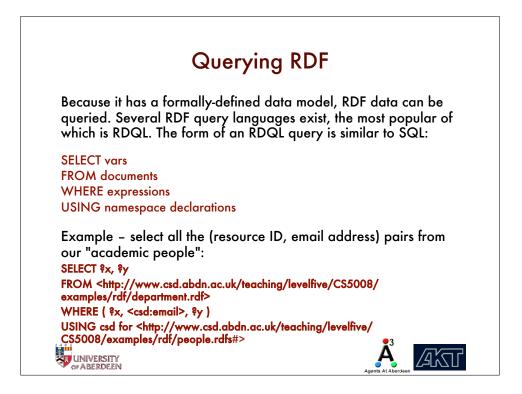


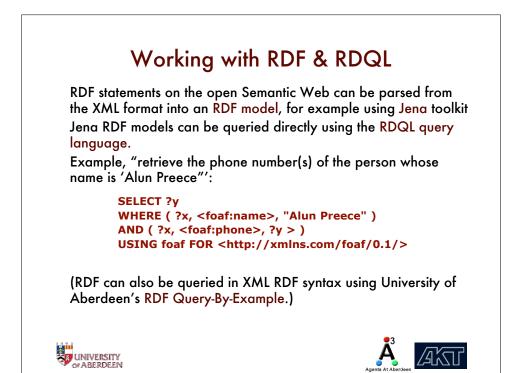


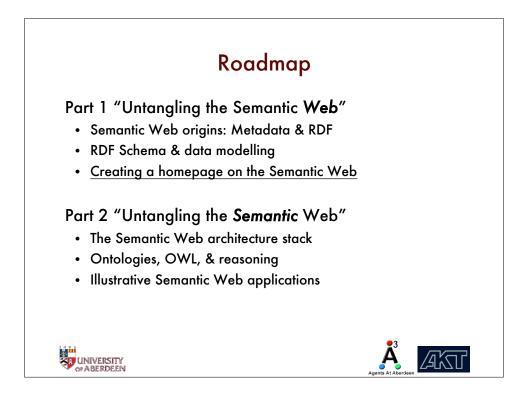


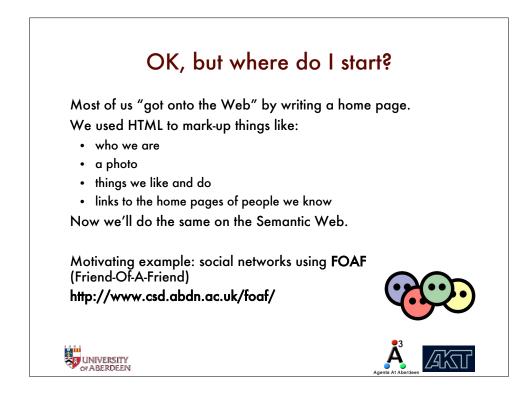


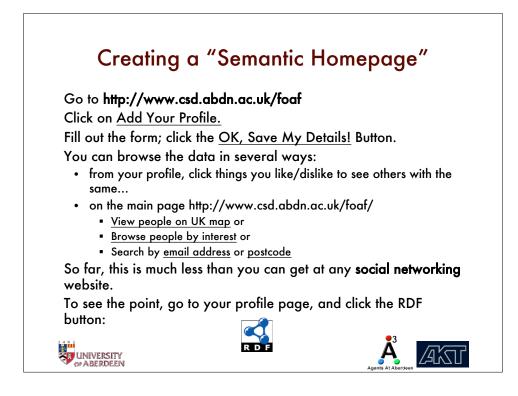
## <text><text><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item>





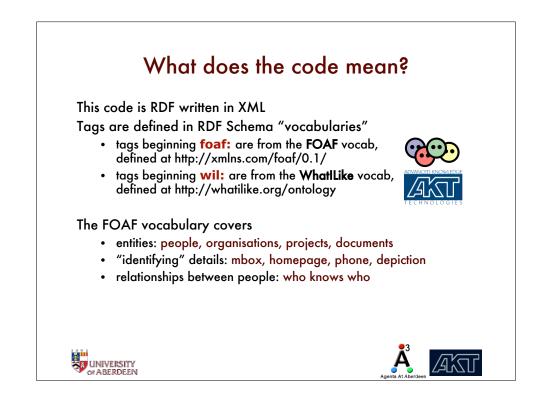


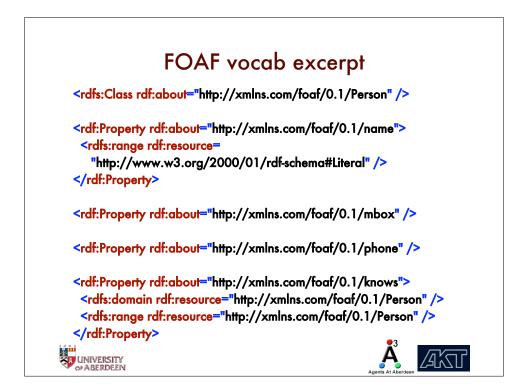


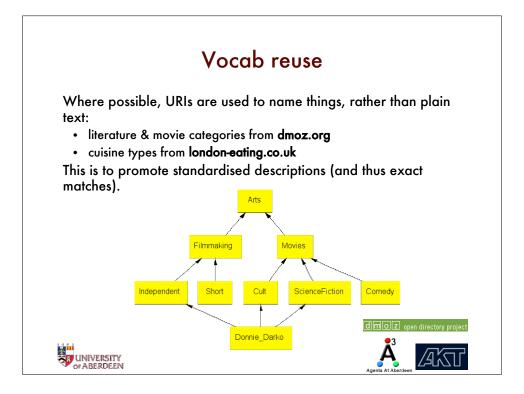


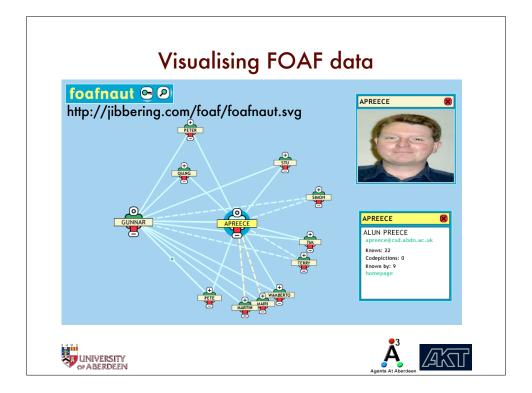


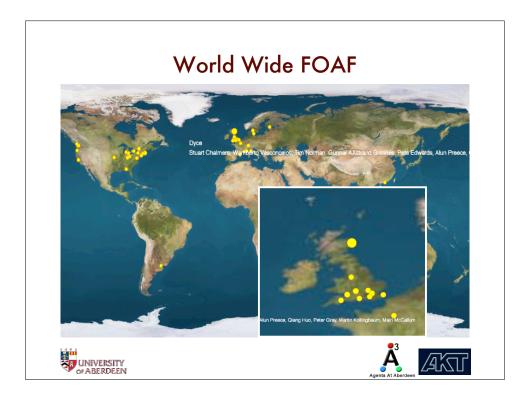


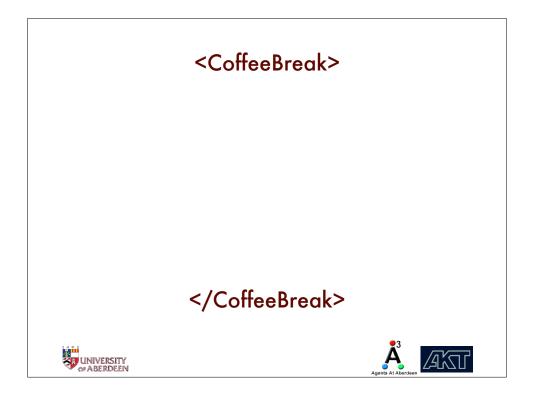


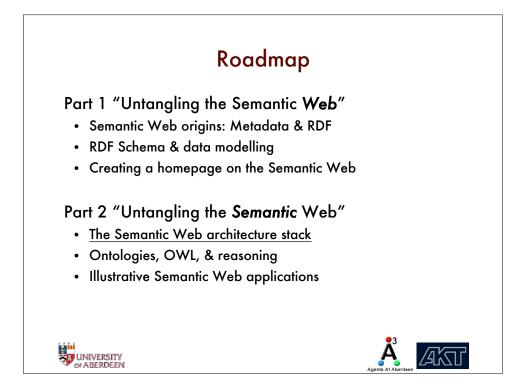


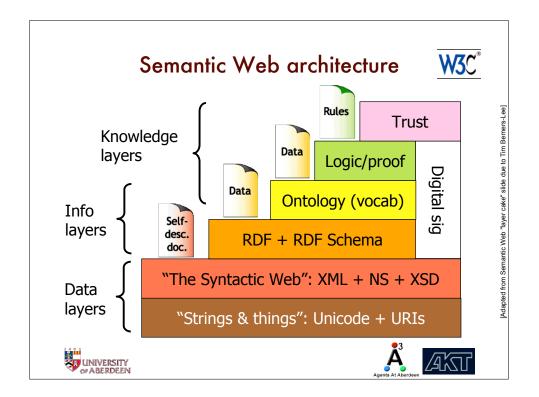


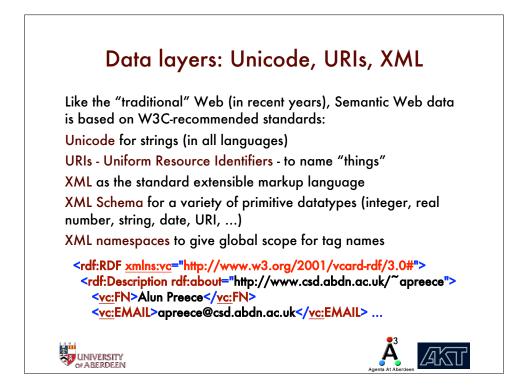


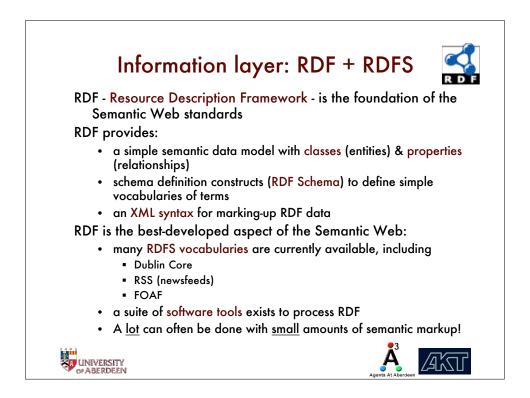


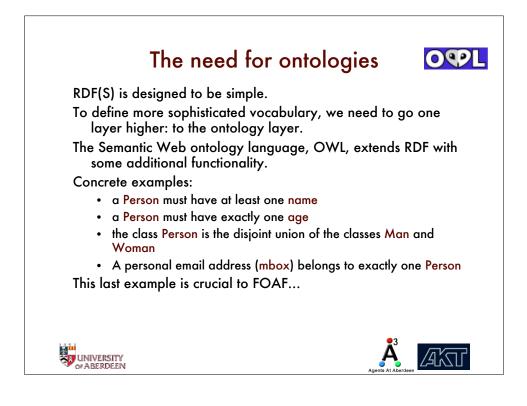


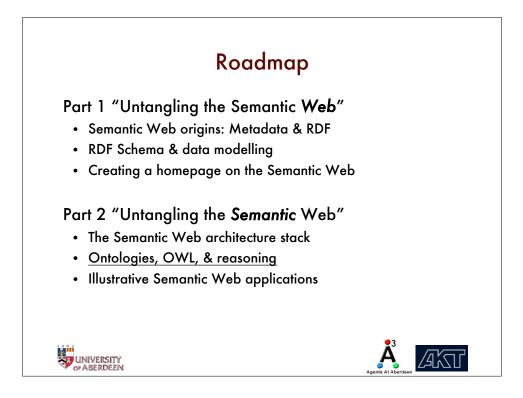


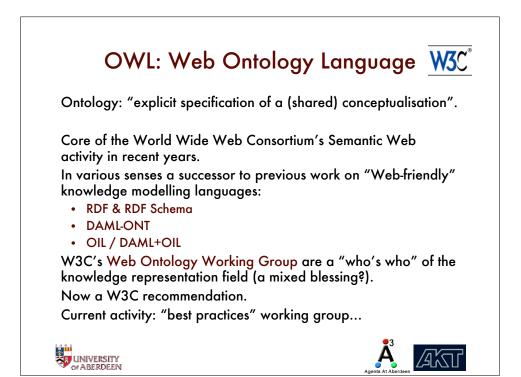






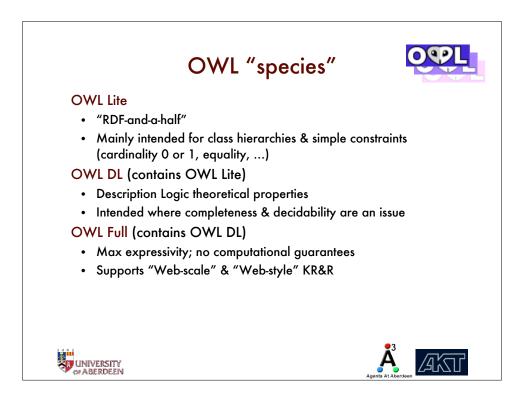


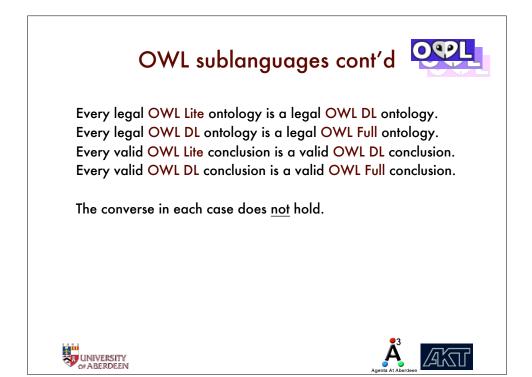






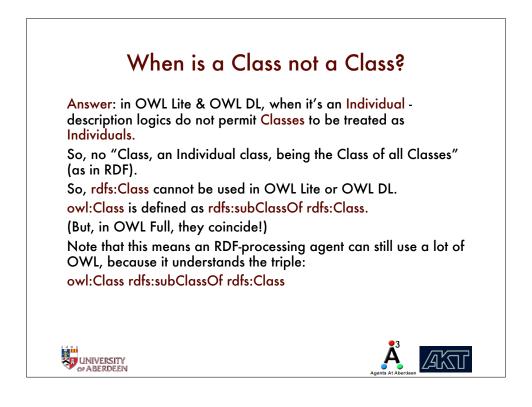


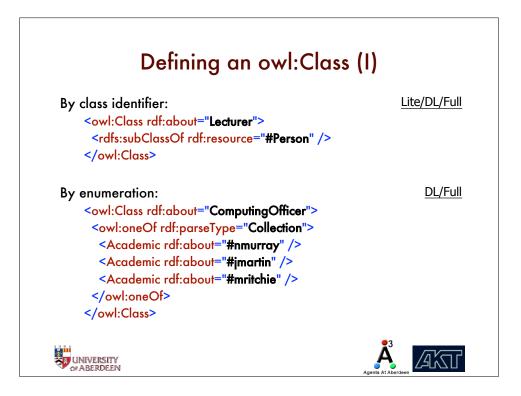


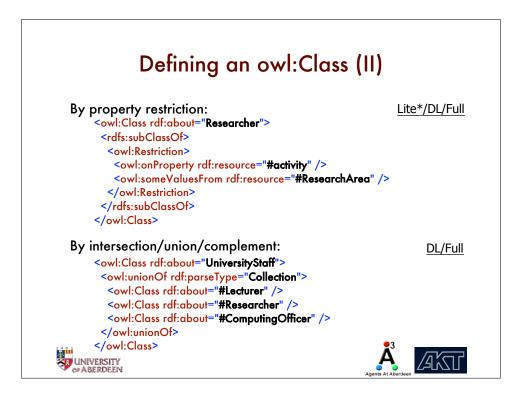


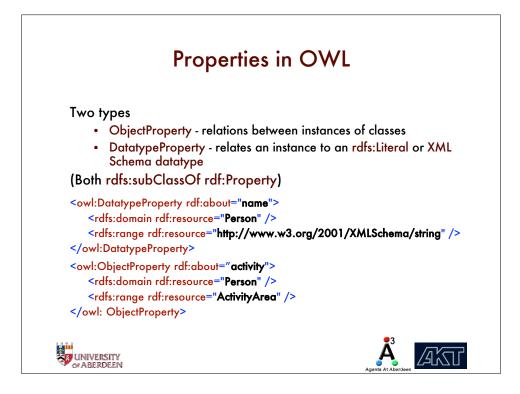
OWL Lite: essentials				
Schema constructs	Equality constructs	Headers		
Class (i.e. owl:Class)	equivalentClass	imports		
rdf:Property	equivalentProperty	priorVersion		
rdfs:subClassOf	sameIndividualAs	backwardCompat		
rdfs:subPropertyOf	differentFrom	ibleWith		
rdfs:domain	allDifferent	incompatibleWith		
rdfs:range	Cardinality	Property type		
Individual	minCardinality (0 or 1)	restrictions		
Property characteristics	maxCardinality (0 or 1)	allValuesFrom		
inverseOf	Cardinality (0 or 1)	someValuesFrom		
TransitiveProperty FunctionalProperty InverseFunctionalProperty	Class intersection intersectionOf	RDF datatyping		

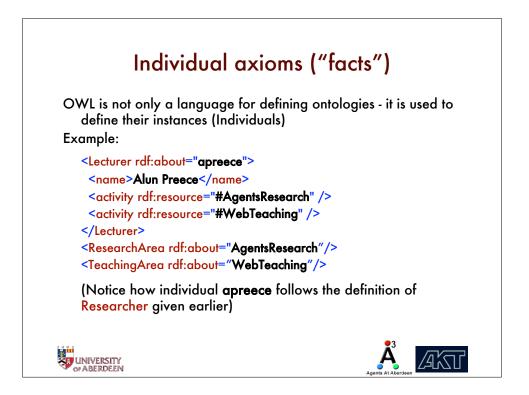




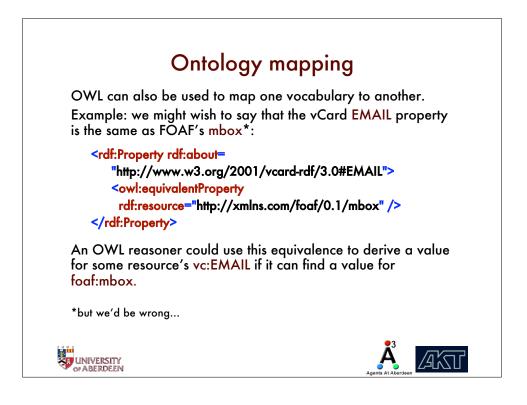


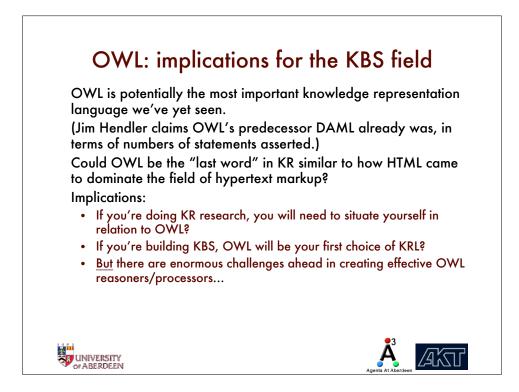


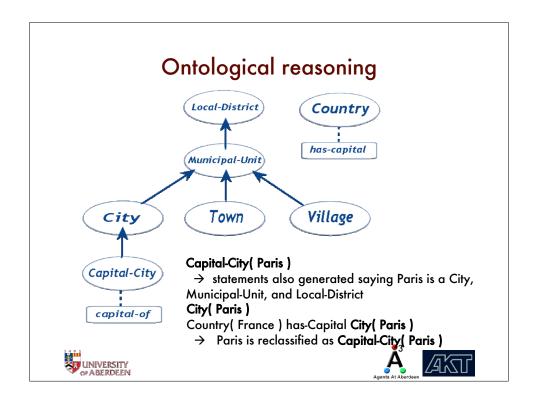


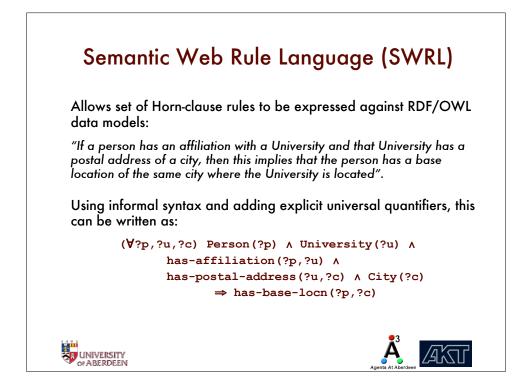


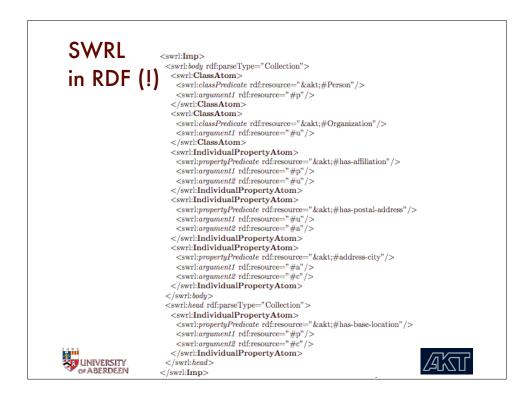
<rdf:property rdf:about="http://xmlns.com/foaf/0.1/mbox"> <rdf:type rdf:resource="&lt;br">"http://www.w3.org/2002/07/owl#</rdf:type></rdf:property>	
InverseFunctionalProperty" /> 	
This definition means: "mbox is a personal mailbox, i.e. on nternet mailbox associated with exactly one owner". This means, in database terms, the value of mbox acts as primary key for Persons in the FOAF world - a unique ID.	a

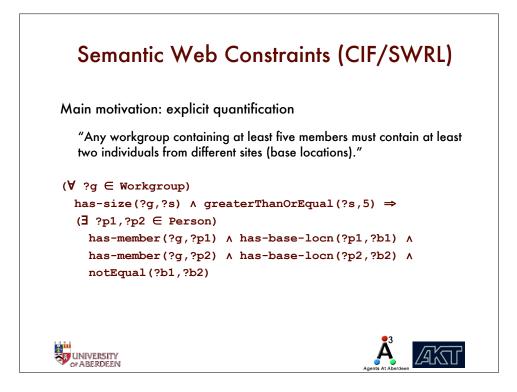


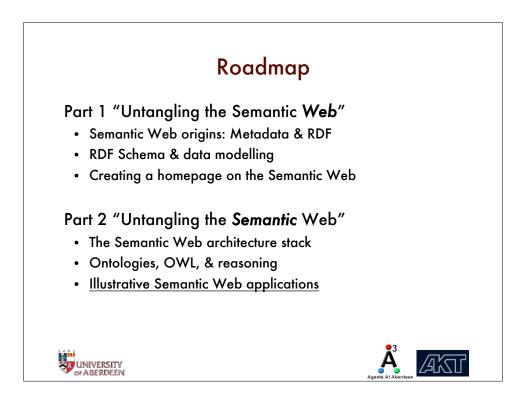


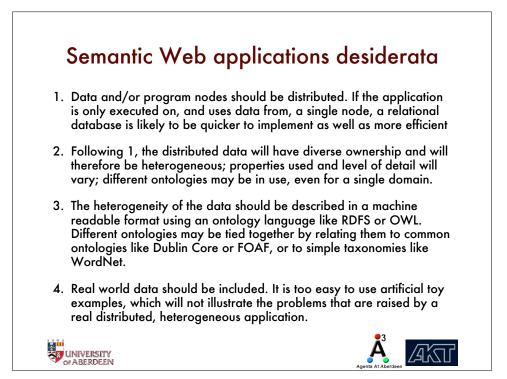




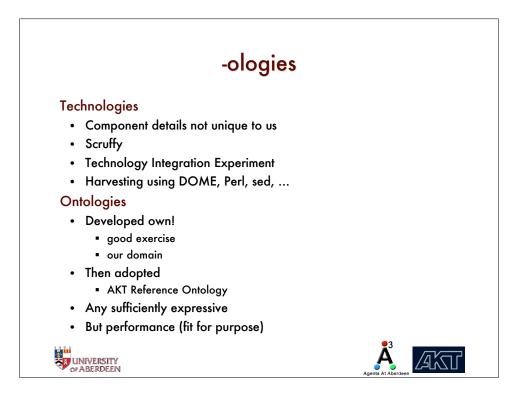


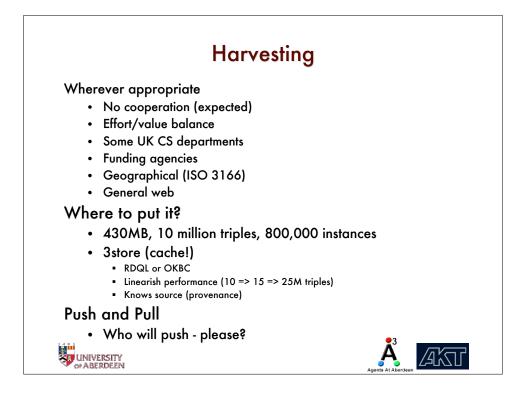


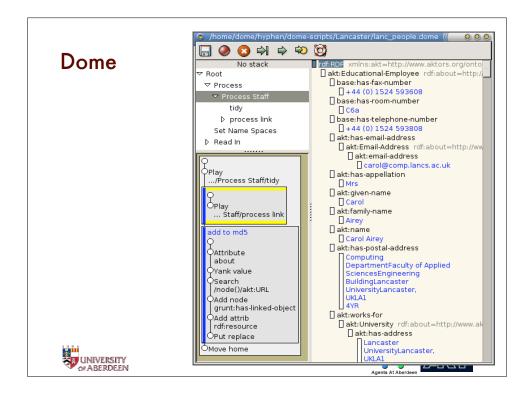


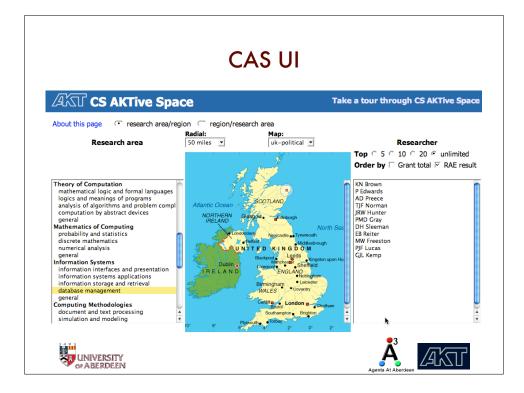




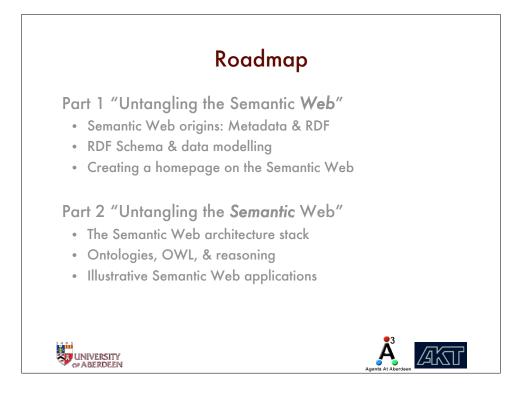












## Wrap-up (1)

At its foundations, the Semantic Web provides for the creation of standard, open information schemas - founded on a formal semantics.

New schemas can extend existing ones, freely but in a prncipled way.

Semantic Web resources can refer to each other, and to "traditional" Web resources.

Information and applications are kept separate - deployers of information on the SW can't (and don't need to) anticipate how the info will be used.

RDF processing software is widely available; OWL is catching-up. Compelling applications are already there...



