

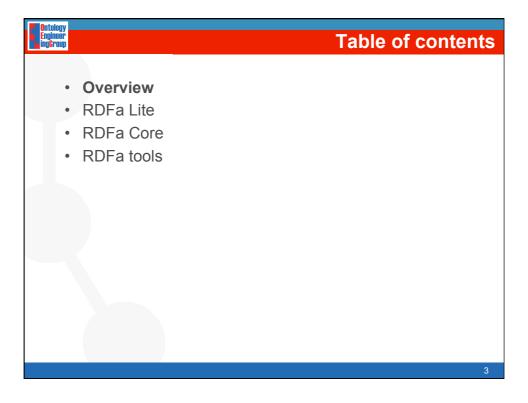


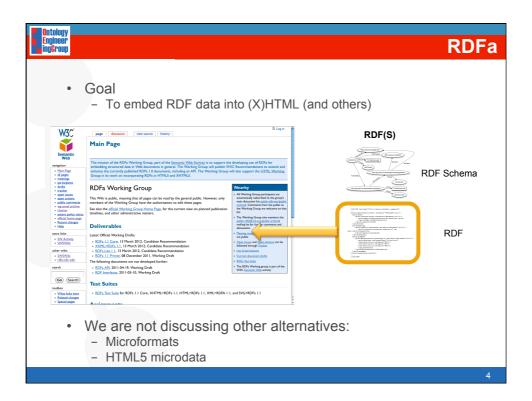
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RDFa documents

- RDFa 1.1 Working Group
 - http://www.w3.org/2010/02/rdfa/
- Relevant documents
 - RDFa Core 1.1, W3C Recommendation, 22/08/2013
 - RDFa Lite 1.1, W3C Recommendation, 07/06/2012
 - XHTML+RDFa 1.1, W3C Recommendation, August 22, 2013
 - RDFa 1.1 Primer, W3C Working Group Note, June 7, 2012

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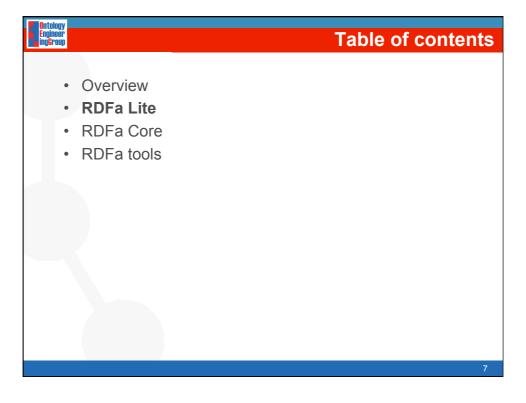
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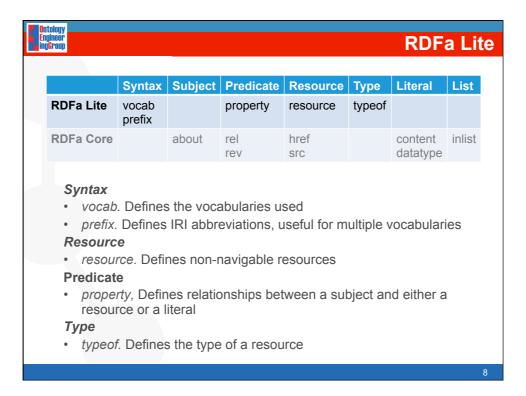
RDFa context

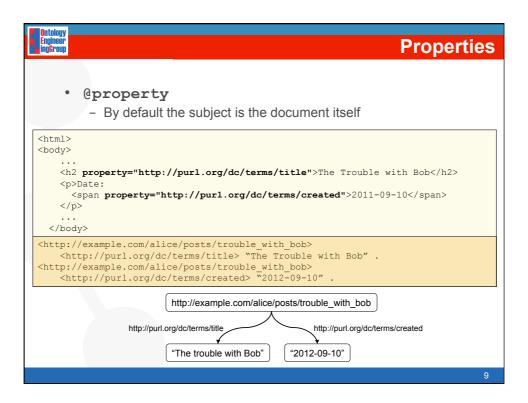
- RDF Syntax for embedding metadata into documents
- Specified for XHTML, HTML5 and other XML-based languages (e.g., SVG)
- Allows using generic metadata, instead of ad-hoc metadata
- RDFa-specific metadata does not have effect on visualization

	Syntax	Subject	Predicate	Resource	Туре	Literal	List
RDFa Lite	vocab prefix		property	resource	typeof		
RDFa Core		about	rel rev	href src		content datatype	inlist

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Defining vocabularies

- @vocab
 - Can appear anywhere in the file, only affecting elements below

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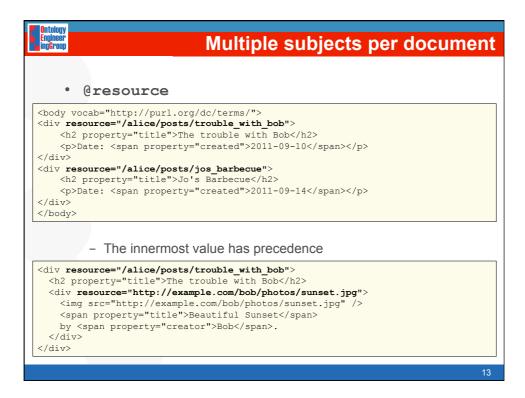
IRI abbreviations + Multiple vocabularies

- @prefix
 - Can appear anywhere in the file, only affecting elements below
 - Can be mixed with @vocab

RDFa pre-defines a number of useful and popular prefixes

- Good practice: always define your prefixes

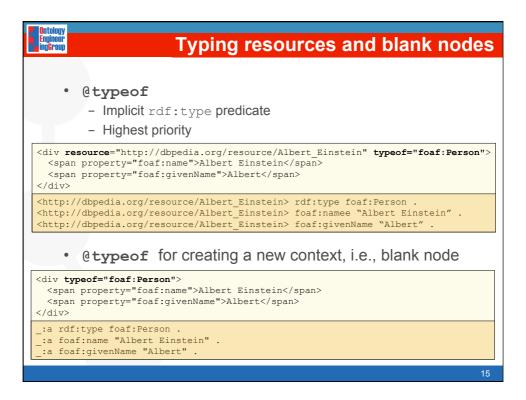
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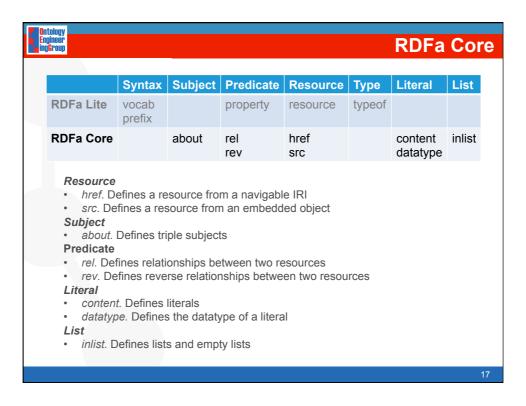
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Resources as objects

- @resource
 - Highest priority



Overview RDFa Lite RDFa tools



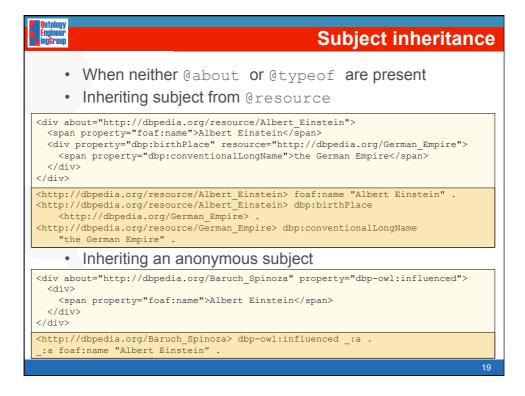
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Changing the current subject

- By default the subject is the document itself
- <base> may change the subject in (X)HTML
- @resource may define multiple subjects
- @about
 - Unlike @resource, @about is only used to set the subject

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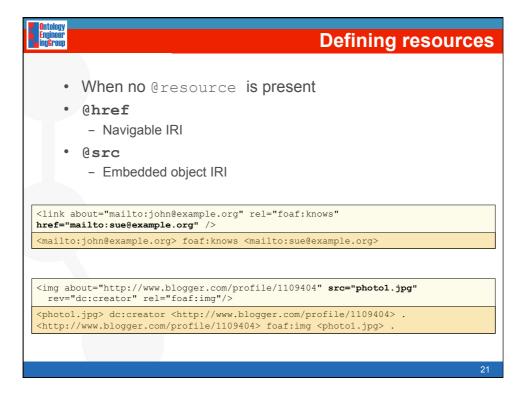
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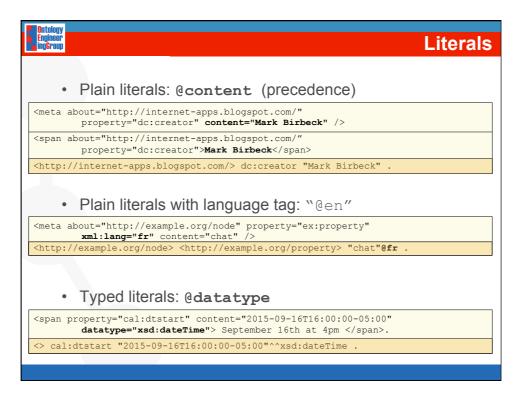
Relationships between resources

- @property
- @rel
 - Establishes a relationship between the current subject as subject and the current object as object
- @rev
 - Establishes a relationship between the current object as subject and the current subject as object

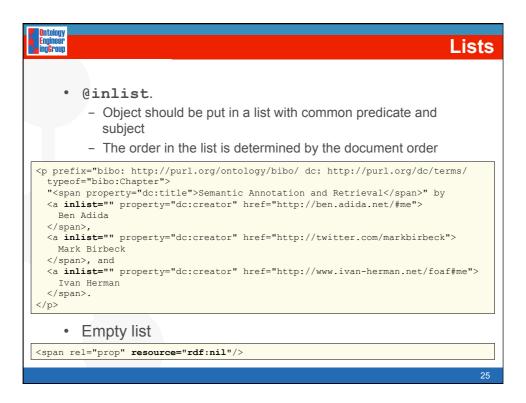
```
<div vocab="http://xmlns.com/foaf/0.1/" about="#me">
   My name is <span property="name">John Doe</span> and my blog is called
   <a rel="homepage" href="http://example.org/blog/">Understanding Semantics</a>.
   </div>
   @prefix foaf: <http://xmlns.com/foaf/0.1/> .
   <#me> foaf:name "John Doe";
        foaf:homepage <http://example.org/blog/> .
```

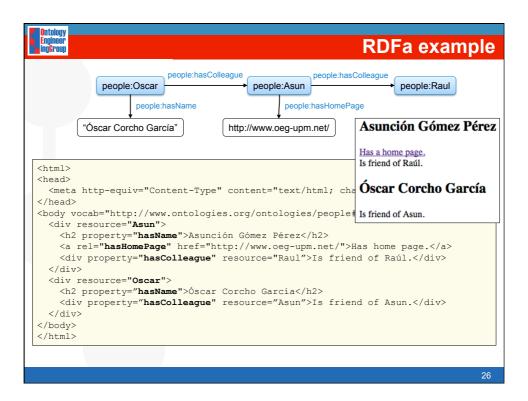
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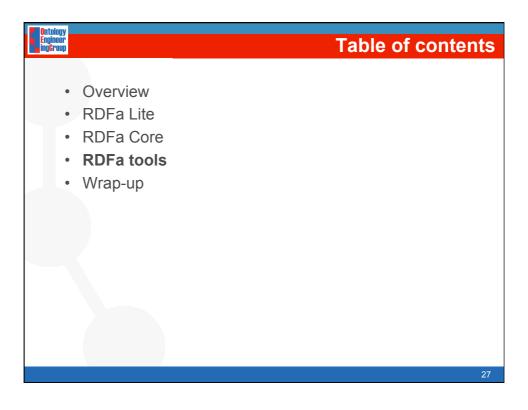


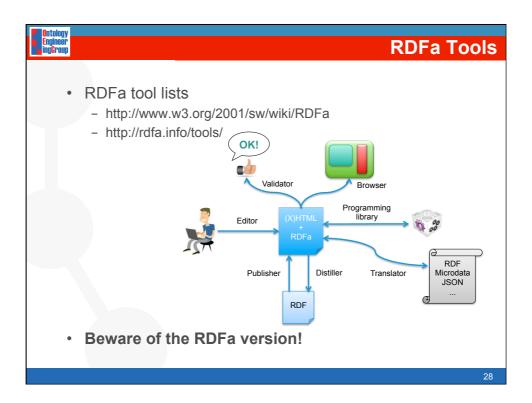












RDFa editors and browsers Editors Online - RDFaCE http://aksw.org/Projects/RDFaCE Standalone - TopBraid Composer http://www.topquadrant.com/products/TB_Composer.html **Browsers** Online - RDFa / Play http://rdfa.info/play/ Structured Data Linter http://linter.structured-data.org/ - RDF Distiller http://rdf.greggkellogg.net/distiller Firefox extension - RDFa Developer https://bitbucket.org/fundacionctic/rdfadev/wiki/Home https://addons.mozilla.org/en-US/firefox/addon/rdfa-developer/





RDFa publishers and distillers

RDFa publishers (RDF→RDFa)

- Online
 - RDF2HTML+RDFa (XSL style sheet)
 - http://rhizomik.net/html/redefer/
 - http://rhizomik.net/redefer/rdf2html-form (demo)
 - RDF2RDFa Converter (XSLT transformation)
 - http://www.ebusiness-unibw.org/tools/rdf2rdfa/

RDFa Distillers (RDFa→RDF)

- Online
 - RDFa 1.1 Distiller and Parser
 - http://www.w3.org/2012/pyRdfa/Overview.html
 - RDFa Distiller and Parser
 - http://www.w3.org/2007/08/pyRdfa/
- Standalone
 - Krextor
 - · http://trac.kwarc.info/krextor/

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RDFa translators and APIs

Translators

- Online
 - RDF Translator (multiformat)
 - http://rdf-translator.appspot.com/
 - RDF Distiller (multiformat)
 - http://rdf.kellogg-assoc.com/distiller

Programming libraries

- Perl
 - RDF-RDFa-Parser
 - http://search.cpan.org/dist/RDF-RDFa-Parser/
- Java
 - java-rdfa
 - https://github.com/shellac/java-rdfa#readme

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