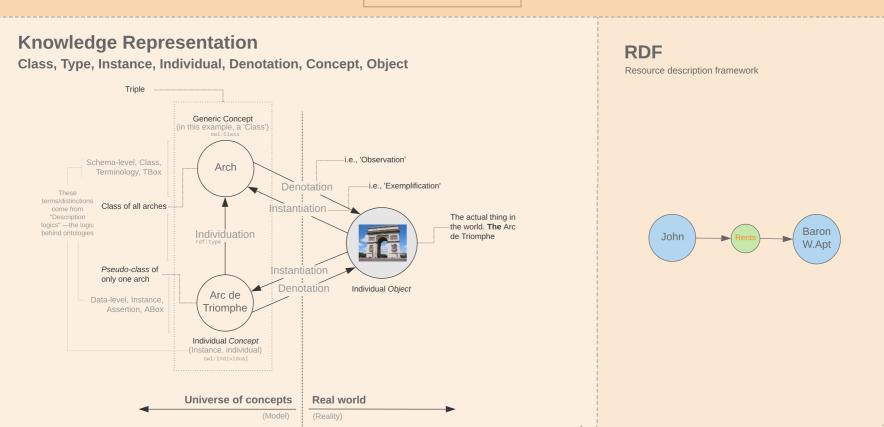
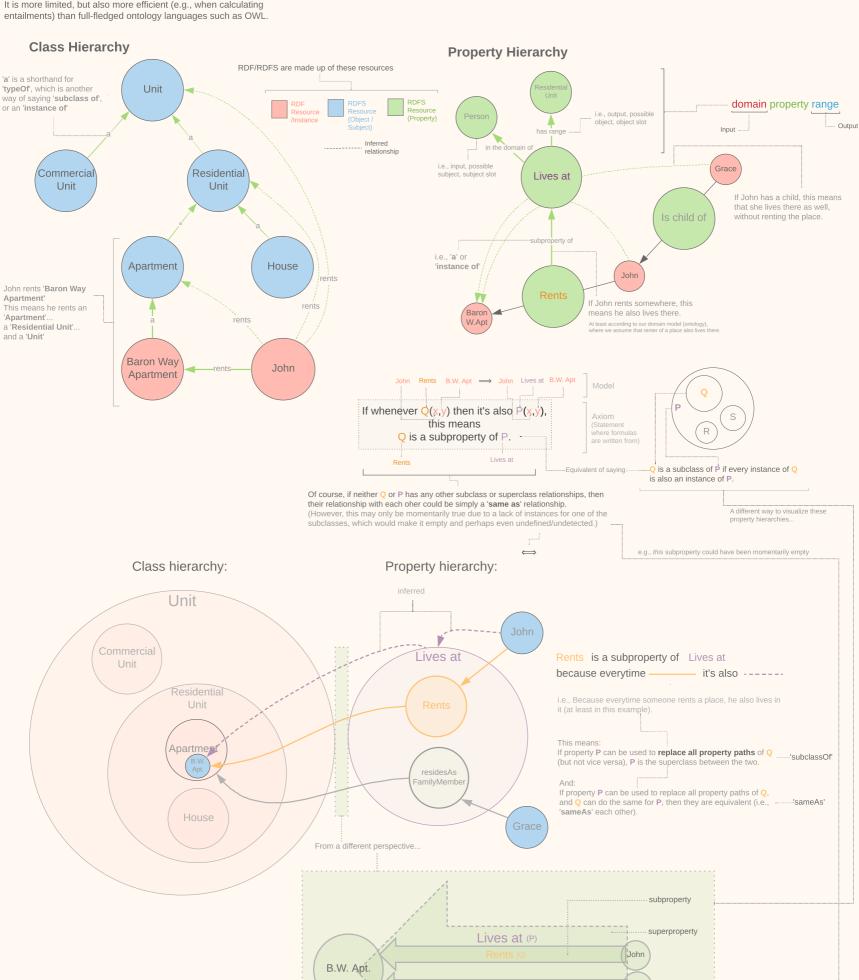
Schema, Semantics, Vocabulary, and Usage

SCHEMA



RDFS (RDF Schema) RDFS is a basic ontology for formally defining relationships in RDF.

It is more limited, but also more efficient (e.g., when calculating entailments) than full-fledged ontology languages such as OWL

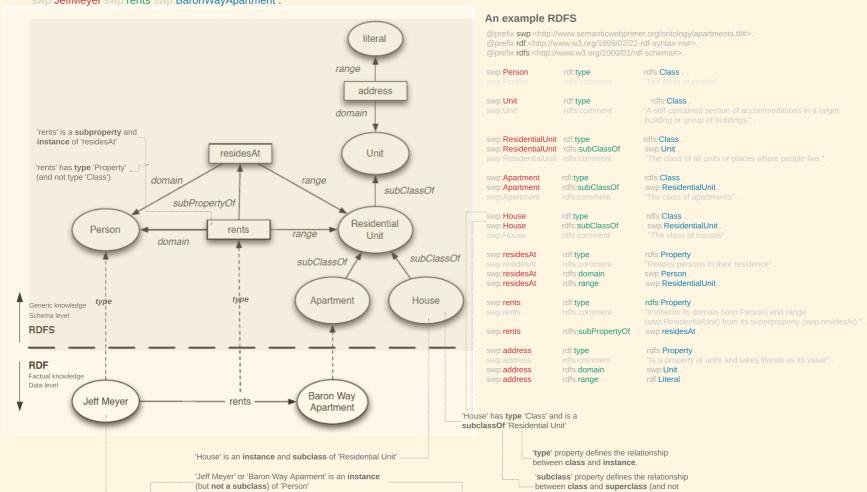


An example RDF statement @prefix swp:"> wp: http://www.semanticwebprimer.org/ontology/apartments.ttl#

RDFS Example

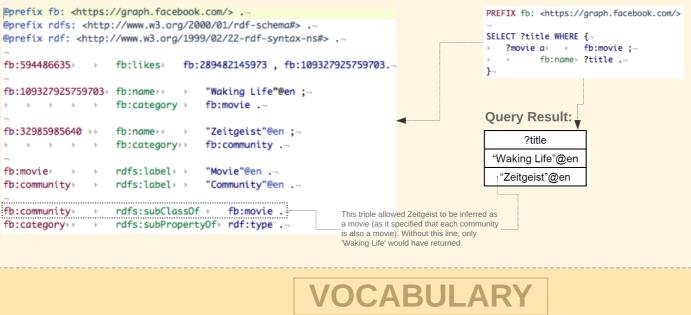
@prefix rdf:<http://www.w3.org/1999/02/22-rdf-syntax-ns#> @prefix rdfs:<http://www.w3.org/2000/01/rdf-schema#>

swp:JeffMeyer swp:rents swp:BaronWayApartment .



between class and instance).

Example in Action: Class-based (weak) Inference with RDFS



Utility

RDF, RDFS and Other Vocabularies

Reification

FOAF

Important Elements

foaf:Person

foaf:name

SPARQL Query:

Image Credits: Lion by Yu luck from the Noun Project. Animal by Alina Olevnik from the Noun Project. Animal footprints by Gagana from the Noun Project

foaf: <http://xmlns.com/foaf/0.1/2

orefix rdfs: http://www.w3.org/2000/01/rdf-schema# RDF/RDFS Classes **RDF/RDFS** Properties Restricting

Defining Relationships Container **Core Classes**

x rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#

Resource Description Framework Schema

http://prefix.cc

Turtle File:

rdfs:Resource	<i>rdf</i> :Bag		rdf:type	rdfs:don	nain	rdfs:s	eeAlso	rdf:subject
rdfs:Class	<i>rdf</i> :Seq		rdfs:subClassOf	rdfs:range		rdfs:isDefinedBy		rdf:predicate
rdfs:Literal	rdf:Alt		rdfs:subPropertyOf			rdfs:comment		rdf:object
rdfs:Property	rdfs:Container					rdfs	:label	
rdfs:Statement								
rdfs:Datatype			geo:Amsterdam geo:containedIn rdf:type	rdf:type a a	rdf:Resource . rdf:Property . rdf:Property .			
For cor	mmon prefixes	aı	nd their names	paces:				

Properties



DC/DCT

Dublin Core / Dublin Core Terms

Important Elements

dct:creator

dct:created

dct: <http://purl.org/dc/terms>

Social Side of Semantics Berners-Lee: Using shared vocabularies is the key to establishing consistent semantics.

Rule of Thumb: "Only create vocabularies/URIs in a namespace

URI's may not always be unique. They are not a global identification service, but simply strings.

Example in Action: Linking Vocabularies

@prefix fb: <https://graph.facebook.com/> @prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> . @prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .-



