TURTLE SYNTAX

NAMESPACES AND PREFIXES

[@prefix dbpedia: <http://dbpedia.org/resource/> .
  @prefix : <http://dbpedia.org/ontology/> .

Default namespace

Qualified name,
Prefixed namespace

'rdf:' is a shorthand for:
http://xmlns.com/foaf/0.1/

'a' is shorthand for 'rdf:type:'

dbpedia:Amsterdam a :Place .

Non-abbreviated
version:

<http://dbpedia.org/resource/Amsterdam> rdf:type <http://dbpedia.org/ontology/Place> .

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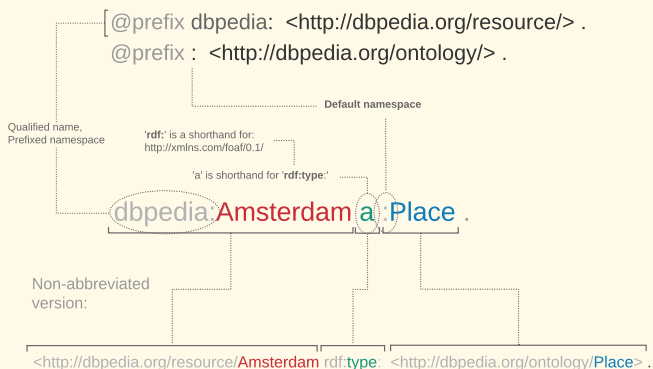
COMMON PREFIXES

Prefix	Stands for
rdf:	http://www.w3.org/1999/02/22-rdf-syntax-ns#
rdfs:	http://www.w3.org/2000/01/rdf-schema#
owl:	http://www.w3.org/2002/07/owl#
xsd:	http://www.w3.org/2001/XMLSchema#
foaf:	http://xmlns.com/foaf/0.1/
dc:	http://purl.org/dc/elements/1.1/

For more common prefixes:
http://prefix.cc

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LITERALS

dbpedia:Amsterdam :officialName "Amsterdam" . ⟶ String

dbpedia:Amsterdam :areaTotal 219320000 ⟶ Number (integer or floats can be written this way)

dbpedia:Amsterdam :isCapital true . ⟶ Boolean

Formal way to write literals:

dbpedia:Amsterdam :areaTotal "219320000"^^xsd:integer .

Literals are written in quotes   Literal type specifier

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TAGS

dbpedia:Amsterdam rdfs:label "Amsterdam"@nl .

Specifies language

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SHORTHANDS

Default Abbreviations

dbpedia:Amsterdam rdf:type :Place .

Shorthand

dbpedia:Amsterdam a :Place .

Subject Sharing

dbpedia:Amsterdam :officialName "Amsterdam" .
dbpedia:Amsterdam :areaTotal 219320000 .
dbpedia:Amsterdam :isCapital true .

Subject abbreviation with ';'

dbpedia:Amsterdam :officialName "Amsterdam" ;
                  :areaTotal 219320000 ;
                  :isCapital true .

Subject and Object Sharing

dbpedia:Netherlands rdfs:label "Nederland"@nl .
dbpedia:Netherlands rdfs:label "The Netherlands"@en .
dbpedia:Netherlands rdfs:label "Pays-Bas"@fr .

Subject and predicate abbreviation with ','

dbpedia:Netherlands rdfs:label "Nederland"@nl ,
                               "The Netherlands"@en ,
                               "Pays-Bas"@fr .

Subject Sharing and Subject & Object Sharing Combined

dbpedia:Netherlands rdfs:label "Nederland"@nl ,
                               "The Netherlands"@en ,
                               "Pays-Bas"@fr ;
                    :capital   dbpedia:Amsterdam .

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BLANK NODES

Blank Node: An object that has no URI, and is used in a similar fashion to the connector element of UML schemas. It serves as a terminal or intermediary between two or more elements.

Normal Syntax

dbpedia:VU :address

Think of it as passing this property directly to the next ones. As a property jumping point.

[
    :place dbpedia:Amsterdam ;
    :street "De Boelelaan" ;
    :number "1081" ;
    :postcode "1081 HV"
] .

Formal Syntax

This name is a unique name *only* within the RDF file it is currently in; this is not a universally recognized blank node.

dbpedia:VU :address _:blankAddressNode@nl .

'_' denotes blank node
':' denotes default namespace, which was previously set to
<http://dbpedia.org/ontology/> .

_:blankAddressNode :place dbpedia:Amsterdam ;
                   :street "De Boelelaan" ;
                   :number "1081" ;
                   :postcode "1081 HV" .

Collections

:subject :predicate (:a :b :c) .

This is a blank node that houses a *collection*.

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