Turtle Syntax

STEP 2 : redigir le turtle sur le site :https://www.easyrdf.org/converter

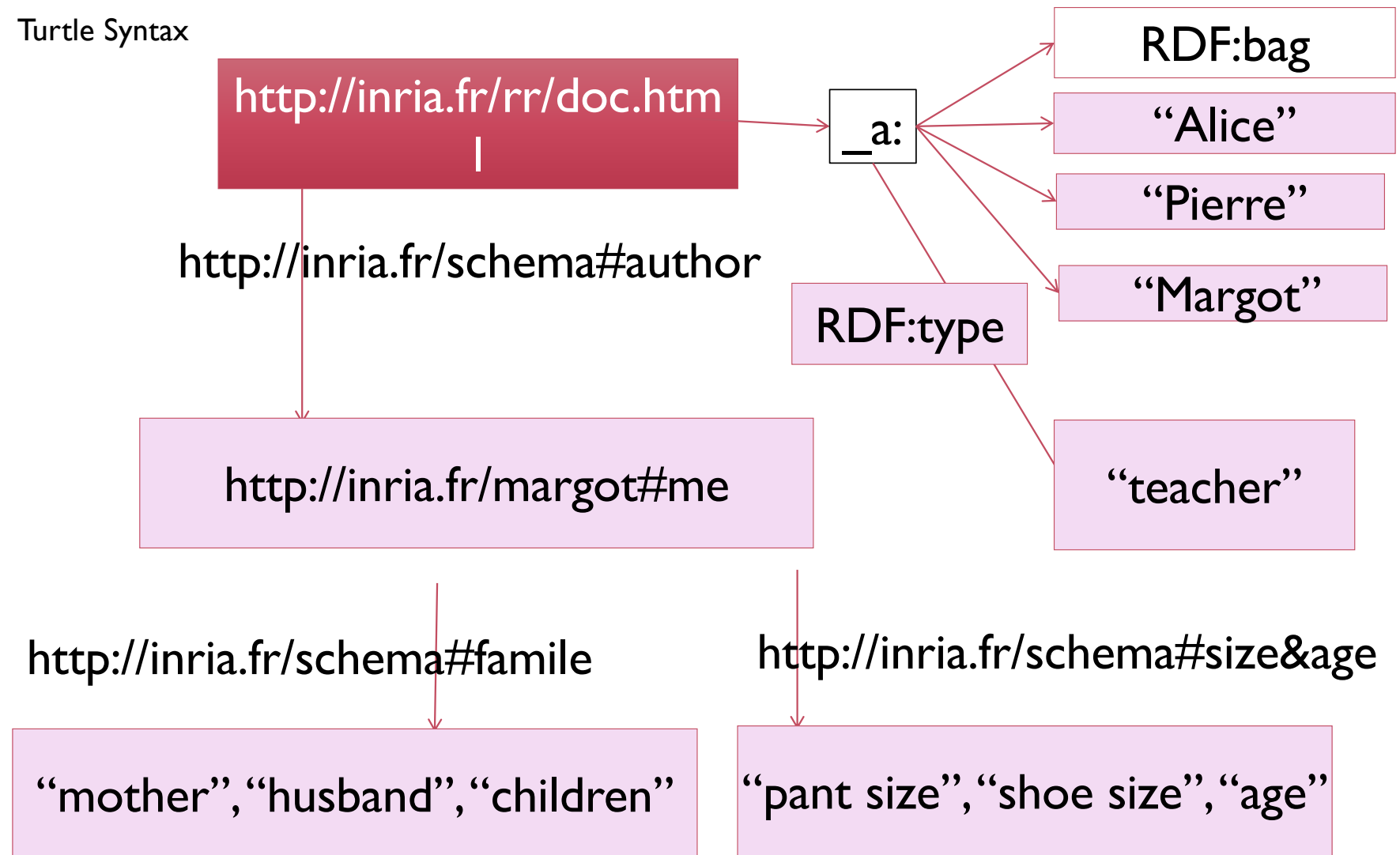@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>.

@prefix inria: <http://inria.fr/schema#>.

<http://inria.fr/rr/doc.html>

inria:author <http://ns.inria.fr/margot#me>;
inria:mother "Simone";
inria:husband "Auther";
inria:children "Simon","Marte";
inria:pantsize "40";
inria:shosize "38";
inria:age "30".

<http://inria.fr/rr/doc.html> inria:author [a rdf:bag ; rdf:li "margot", "alice", "pierre"] .

<http://ns.inria.fr/margot#me>
  a inria:Wonman, inria:Teacher.

```xml
<?xml version="1.0" encoding="utf-8" ?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
      xmlns:ns0="http://inria.fr/schema#">

 <rdf:Description rdf:about="http://inria.fr/rr/doc.html">
   <ns0:author>
    <ns0:Wonman rdf:about="http://ns.inria.fr/margot#me">
     <rdf:type rdf:resource="http://inria.fr/schema#Teacher"/>
    </ns0:Wonman>
   </ns0:author>

   <ns0:author>
    <rdf:bag>
      <rdf:li>margot</rdf:li>
      <rdf:li>alice</rdf:li>
      <rdf:li>pierre</rdf:li>
    </rdf:bag>
   </ns0:author>

   <ns0:mother>Simone</ns0:mother>
   <ns0:husband>Auther</ns0:husband>
   <ns0:children>Simon</ns0:children>
   <ns0:children>Marte</ns0:children>
   <ns0:pantsize>40</ns0:pantsize>
   <ns0:shosize>38</ns0:shosize>
   <ns0:age>30</ns0:age>
 </rdf:Description>

</rdf:RDF>
```
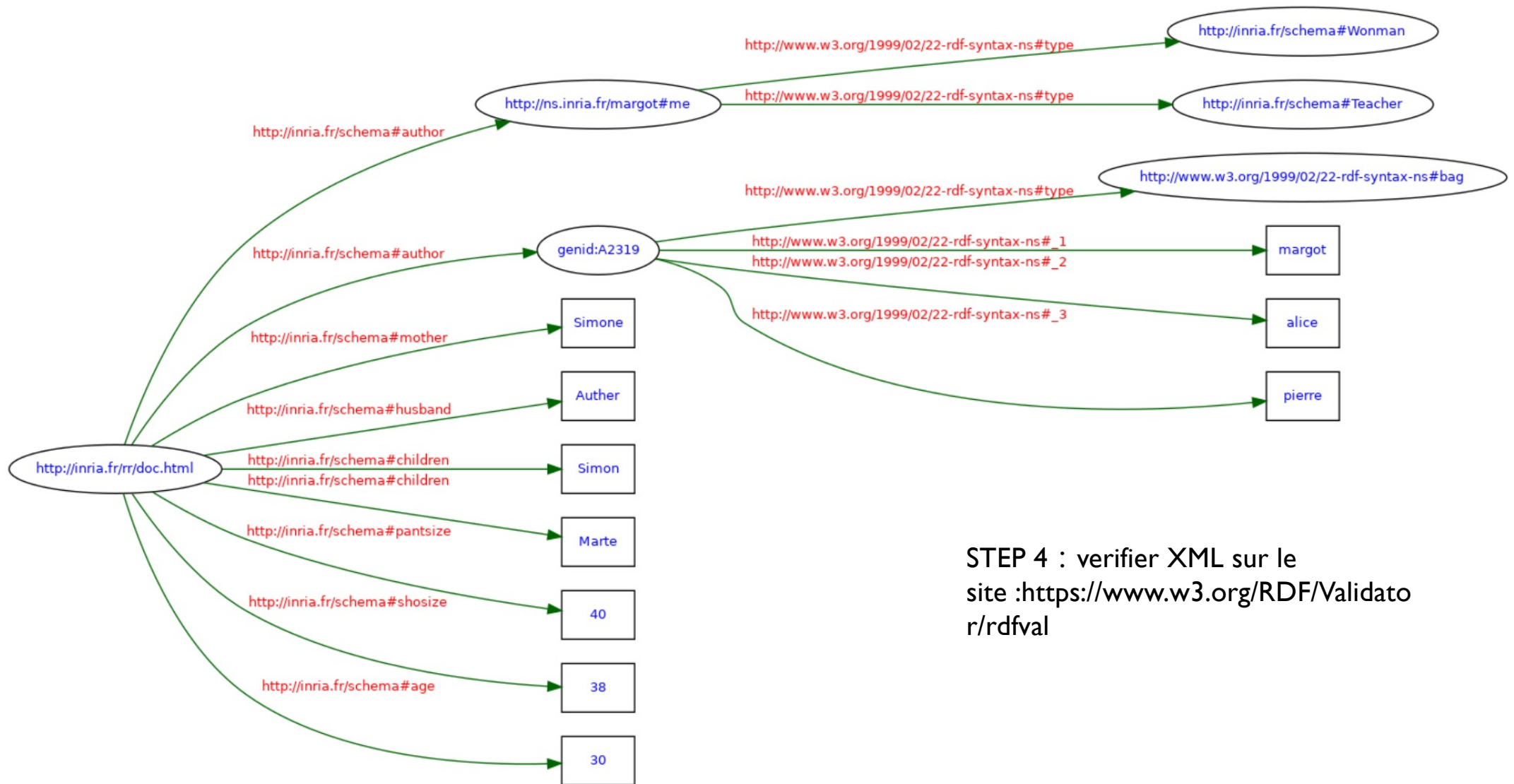
STEP 3 : transform turtle syntax à XML sur le
site :https://www.easyrdf.org/converter

STEP 4 : verifier XML sur le site :https://www.w3.org/RDF/Validator/rdfval

1.Download the RDF file at http://wimmics.inria.fr/doc/tutorial/human_2013.rdf and examine it.

– What is the namespace used for the instances/resources created in this file? Which mechanism enables to associate the instances and the namespace ?

The namespace used in this file is http://www.inria.fr/2007/09/11/humans.rdfs,

The namespace used in this file is humans and it is located in the line <!ENTITY humans "http://www.inria.fr/2007/09/11/humans.rdfs">. The mechanism used to associate the instances and the namespace is Entity Declaration.

– What is the namespace of the RDF schema used in this file and how is it associated to the XML elements?

The RDF schema namespace is http://www.w3.org/1999/02/22-rdf-syntax-ns#, which is associated with the xmlns:rdf element. The xmlns:rdfs and elements are also used to associate specific namespaces with the XML elements. xmlns:xsd

– Explain `xmlns ="&humans;#"`.

The value of xmlns ="&humans;#" is setting the namespace for the document and any elements within it. It is equivalent to an entity reference ,so it is taking the value from the entity of the same name. This namespace reference enables the system to map XML elements to their associated namespace so they can be correctly identified and understood.

– Find all the information available on John in this file.

For the information available on John, it includes that he has a mother named Sophie, has a wife named Jannifer, has a son named Mark, age 37, shoesize of 14, shirtsize 12 and trouserssize 44. He has a friend named Alice.