



# Viewing FOAF Development of a Metadata Explorer

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DATESO, Desná - Černá Říčka, 26. - 28.4. 2006



# Outline



- Brief introduction into the RDF and its XML notation
- FOAF in the nutshell
- *Advanced FOAF Explorer* beta 1 – a small demo
- What's wrong with 1<sup>st</sup> beta version



# Brief introduction into the RDF and its XML notation

# Introduction into RDF



- Data are represented as a graph of triples
- Triples consist of subject, predicate and object
  - subject and predicate are URIs
  - object is an URI or a literal
- URI - an resource identifier (*Uniform Resource Name*)

# RDF/XML notation



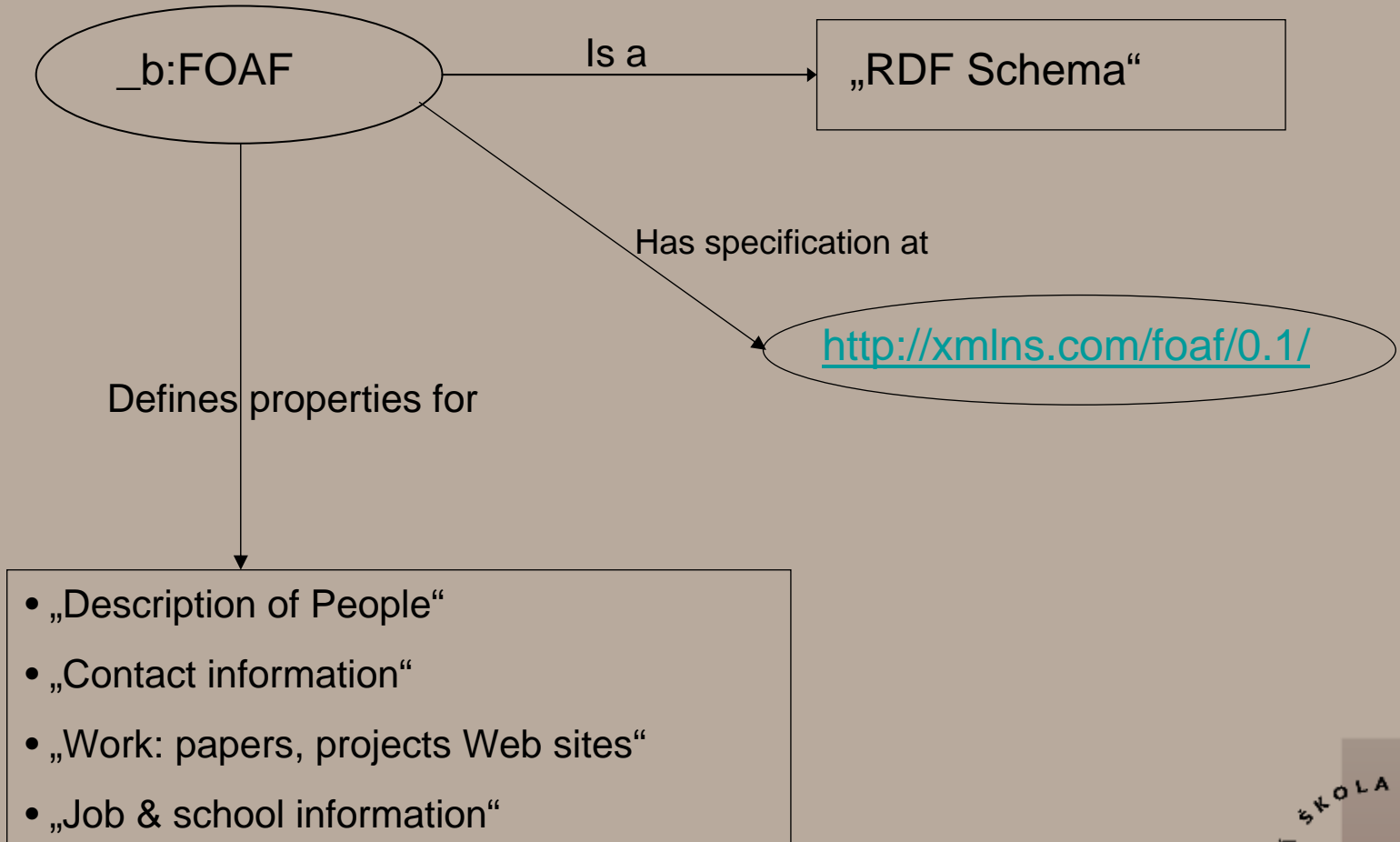
```
<rdf:RDF
  xmlns:ex=http://example.org/
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
>
  <rdf:Resource rdf:about="http://subject.uri.org/">
    <ex:Property>Value</ex:Property>
  </rdf:Resource>
</rdf:RDF>
```

- `http://subject.uri.org/` - subject of all statements
- `ex:Property` - predicate, according to the XML namespaces specification will be translated into URIref `http://example.org/Property`
- "Value" - object of the triple



# FOAF in the nutshell

# FOAF Basics (in RDF graph)



# FOAF Basics (human-readable form)



- Is a RDF Schema
- Has specification at <http://xmlns.com/foaf/0.1/>
- Defines properties for:
  - Description of person
  - Contact information
  - Work: papers, projects Web sites
  - Job & school information



# Advanced Features



- May describe organisations and interest groups
- Allows extending by “modules” - independent schemas
- Relation among people



*Advanced FOAF Explorer*  
beta 1  
A small demo

Load resource:

Process

### Digest for

http://sanka.zapisky.info/profile-foaf.rdf

**Jan Petrák**

**Nick(s):** Sanka Coffie

**Gender:** male

**E-mail addresses**

- [sanka.coffie@gmail.com](mailto:sanka.coffie@gmail.com)

**Jabber accounts**

- Sanka@njs.netlab.cz

**ICQ accounts**

- 212019059 ●

**User's account(s)**

**Chat Account**

- **Account name:** Sanka
- **Service:** <http://shadownet.cz/>

**Sibling of**

- [Josef Petrák](#)

**Josef Petrák**

**See also**

- <http://purl.org/jspetrak/profile-foaf> [Parse it!]

**Sibling of**

- [Jan Petrák](#)





# What's wrong with the 1<sup>st</sup> beta version

# Bad approaches



- No concept in system architecture
- No resistance against errors
- Non-full support of FOAF
- Almost no support of modules
- And output page would be more descriptive



The 2<sup>nd</sup> version will  
improve it.

# New features



- RDF graph transformed into objects representing classes (Person, Project, Document, etc.)
- MVC architecture
- History of viewed files
- Internationalisation



Any questions?





Thank you for your  
attention