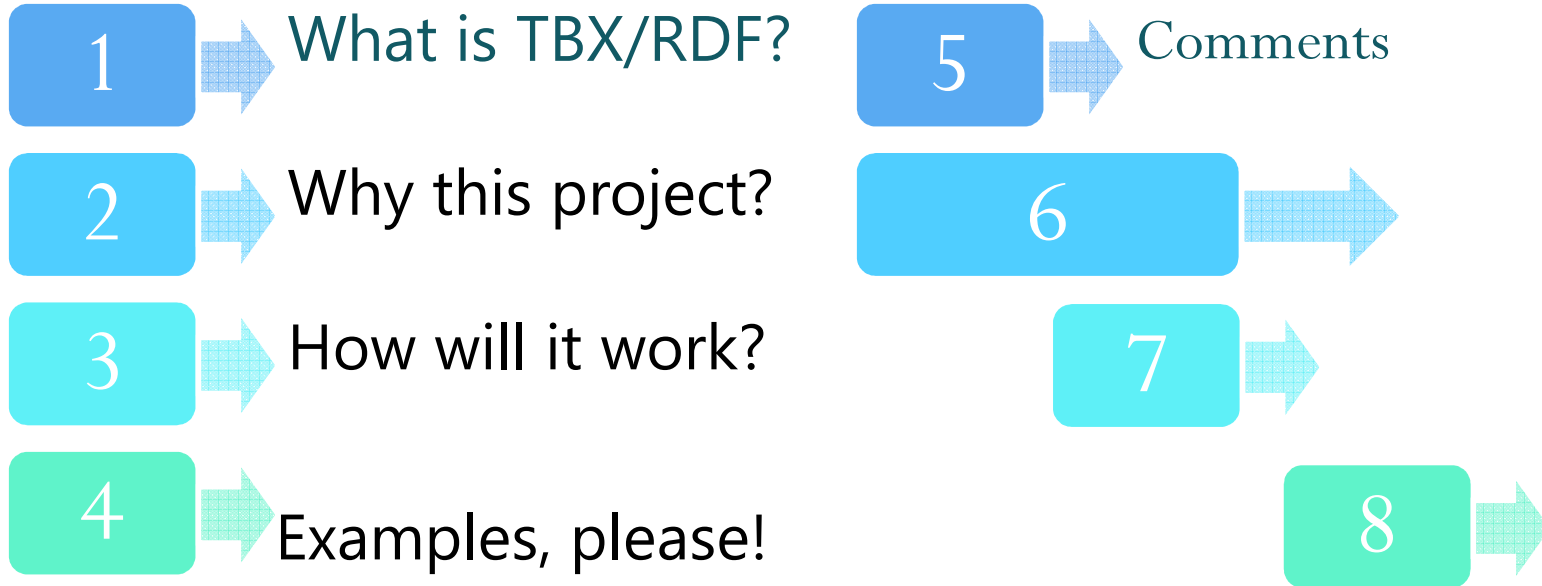


Terminology (the flower) meets the Multilingual world: TBX/RDF

Alan Melby and Nathan Rasmussen



Outline of RDF-TBX presentation



1: What is TBX/RDF?

First, what is TBX?

- An acronym for TermBase eXchange
- An industry and ISO standard
- A family of XML markup languages
 - Each family member is called a dialect
 - All dialects use the same core structure
 - Each has its subset of data categories

TBX is concept-oriented

A word or phrase linked to a TBX entry is less ambiguous.



TBX/RDF

TBX/RDF is an application of RDF that is isomorphic to traditional TBX.

It should allow bi-directional lossless conversions.



2. Why this project?

FOR TERMINOLOGISTS

There is a huge amount of knowledge in termbases that can be represented in TBX; this knowledge needs to be part of Linked Data.

FOR LINKED-DATA PEOPLE

- Disambiguation of instances of a term in data through link to termbase entry
- Access to a well-established knowledge engineering community
- Concept-based Information for translation (terms in various languages).



3. How will it work?

TBX ITEM IN A CONCEPT ENTRY

Each TBX item consists of a data category, and value for the data category (which is technically another data category), and a position in the structure of a concept entry. Part of Speech:

- entry item (e.g. on term)
- data category (e.g. PoS)
- Value (e.g. noun)

RDF TRIPLE FOR TBX ITEM

A TBX item can be mapped to the three components of an RDF triple. URIs must be used for at least the Subject and Predicate. Data category URIs are found in the www.isocat.org database.

- Subject
- Predicate
- object



4. Example

TBX:

```
<tig id="C001en1">  
  <term>  
    federated  
    database</term>  
</tig>
```

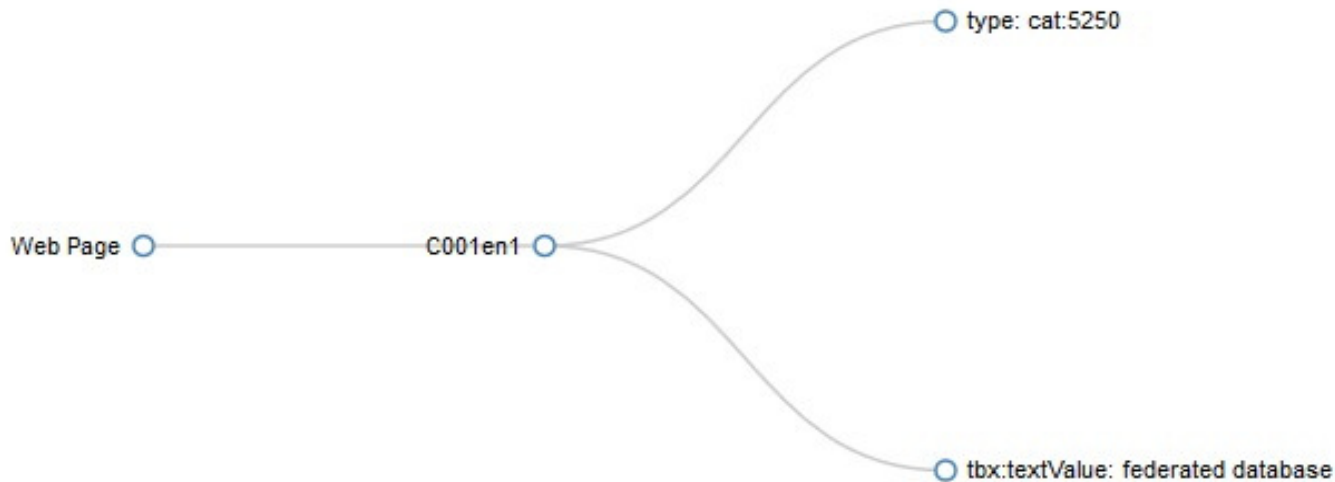
TBX/RDF (XML+RDFa 1.1):

```
<tig resource="C001en1"  
  typeof="cat:5250">  
  <term  
    property="tbx:textValue">  
    federated  
    database</term>  
</tig>
```



Diagram of a tig using <http://rdfa.info/play/>

For [ex:C001en1 a cat:DC-5250;
tbx:textValue "federated database".]



5. Comments?

Questions? Alan K. Melby <akmtrg@byu.edu>

