Interactive User Profiling in Semantically Annotated Museum Collections

The CHIP Demo
- Recommending museum artworks (and topics)
- ... From user ratings of artworks (and topics)
- Uniform browsing of artworks and topics

Semantics-enhanced recommendations:
- Content-based recommendation techniques
- Explicit and inferred properties
- Rated concepts affect recommendation of neighbors
- User model is repository overlay of user ratings or system estimation of ratings

Main Interface

Demo “How To”
1. System presents artworks to rate
2. User rates presented artworks
3. System recommends artworks and topics
4. “Why?” links explain recommendations
5. Labels and images link to semantic browser displays
6. Rating widget throughout speed up profile building
7. Profile shows rated artworks and topics, allowing correction

Main Points
Provide personalized access to the Rijksmuseum collections:
- Improve user’s experience on Rijksmuseum Web site
- Interactive & unobtrusive user/context modeling
- Novice user finds interests without prior knowledge
- Cycle of impressions and education
- Educational topics not as quickly rated as images
- Start user with quickly rateable objects (artefact images)
- Common properties are recommended educational topics

Converting Data:
- RDF annotations using common vocabularies
- Knowledge structure better reflects “interest structure”
- Richer taxonomical structure improves recommendations
- Enables access and recommendation across museums
- Vocabulary RDF from and for multiple project and systems

Example RDF

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