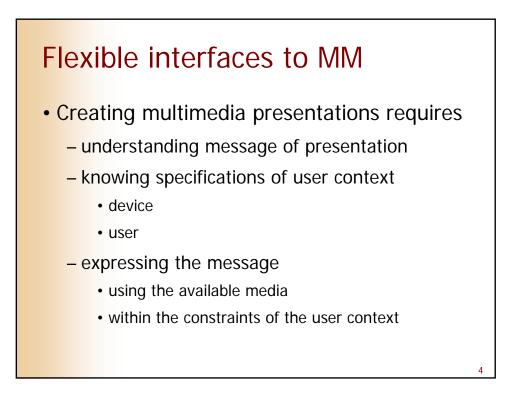


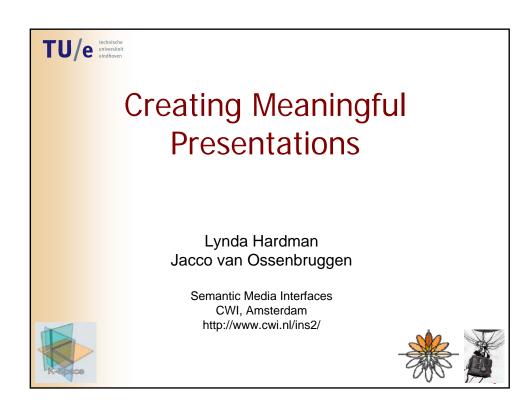
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| . 4. John Baptist Jackson, Descent from the Cross, after Rembrandt . hiaroscuro | Research Rembrandt at the world's largest online library. www.questia.com |







- Incorporating discourse in MM interfaces
- Vox Populi: creating argumentation structure using video fragments
- Canonical processes of media production
- Semantics for improving interaction
- Example applications: E-Culture and News

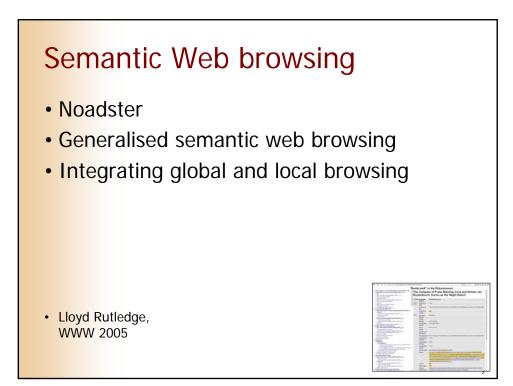




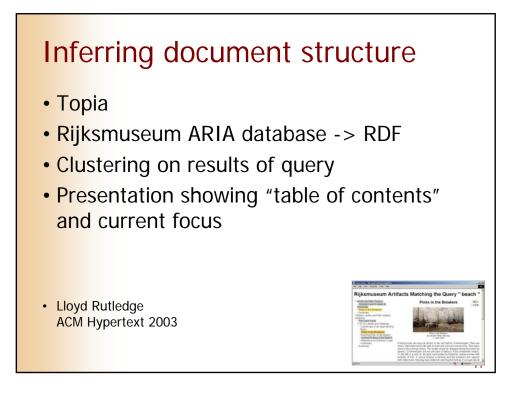
- Creating meaningful presentations from query results
- The role that *explicit discourse* information plays in the *personalized generation process*
- The difference between:
 - a *list* of retrieval results ordered *most relevant first* and
 - a presentation that has structure interpretable by the end user, giving the collection sense of belonging to same presentation

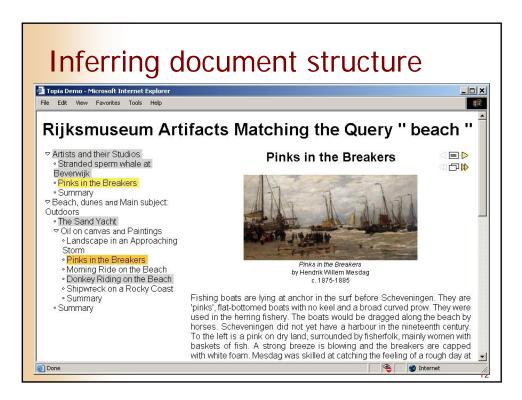
Existing approaches in presenting query results

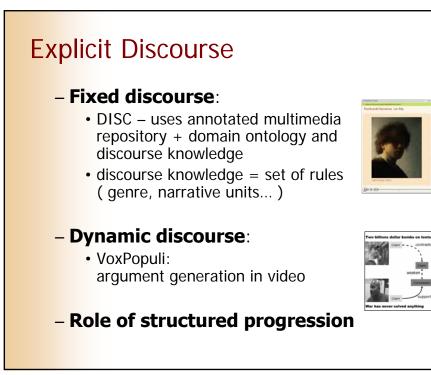
- No explicit discourse (only domain semantics):
 - Noadster clusters from domain semanitcs
 - Topia preselecting concepts in domain semantics
 - Museo Suomi selection based on domain semantics
- Deriving some aspects of discourse:
 - Giving meaning to clustering process
 - Assigning different weights to clusters => ordering
 - Influence the way people perceive information

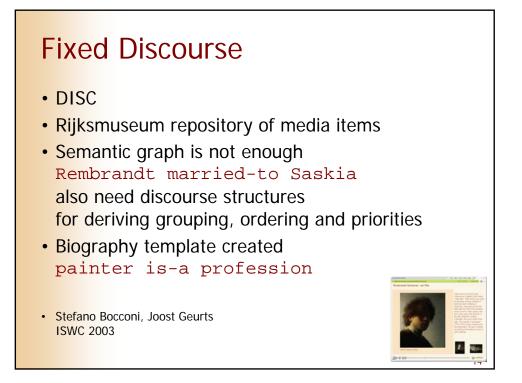


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|--|---------------|--------------------|---|---|
| "F | Remb | randt" i | in the Rijksmuseum | |
| The Company of Frans Banning Cocq and Willem van | 1 | | | |
| Ruytenburch, known as the 'Night Watch' [10] | | | ny of Frans Banning Cocq and Willem van | |
| Rijn http://www.telin.nl/rdf/topia#Frame583_1_1 | Ruv | tenhurc | h, known as the 'Night Watch' | |
| Here come the guards | ituy | teribure | n, known as the Might Water | |
| Original location | Demain | Predicate/ | Related Resource | |
| http://www.telin.nl/rdl/topia#Frame583_2_2 | Domain | Subject | Related Resource | |
| Who is in the Night Watch? Symbols | Dubin | Dublin Core | > 1642 | |
| Utterly new: a moment in time! | Core | Dubin Core Date | > 1042 | |
| Rendering of texture | 199356 | | | |
| Troublesome foreshortening | | | > The Company of Frans Banning Cocq and Willem van Ruytenburch, known as the 'Night Watch' | |
| The Sampling Officials [7] | | Title | | |
| http://www.rijksmuseum.nl/images/aria/SK/Org/SK-C- 6.org [3] | | | > Rin | |
| http://www.telin.nl/rdf/topra#Frame587_1_1 | | Creator | | |
| Background facts | ARIA | Exposition | > RM-M224- | |
| Movement | | Place of | | |
| http://www.telin.nl/rdfitopia#Page587_4 [2] Preparatory drawings | | Artefact | | |
| Preparatory crawings http://www.telin.nl/rdf/topia#Frame587_4_2 | | Material | > Oil on canvas | |
| Signature | | COMPACTOR | > The Night Watch | |
| http://www.telin.nl/rdf/topia#Frame587_5_2 | | Artefact | - Ine regic Watch | |
| Self Portrait at an Early Age [7] | | | > 363 x 437 cm | |
| http://www.telin.nl/rdfitopia#Page380_6 [2] Rembrandt and Lievens | | | > 303 X 437 CM | |
| http://www.tekn.nl/rdf/topia#Frame380_6_2 | | Artefact | | |
| http://www.telin.nl/rdf/topia#Frame380_1_1 | | Style Periode | > | |
| Light and shade | | of Artefact | | |
| Points of light and scratches Famous Dutchman | | Title of Artefact | > The Company of Frans Banning Cocq and Willem van Ruytenburch, known as the 'Night Watch' | |
| Rembrandt in Leiden | | Year Artefact | > 1642 | |
| People [6] | | Created | | |
| Reliefs [4] | | Year Artefact | > 1642 | |
| Paintings [3] | | Finished | | |
| Old Woman Reading a Lectionary (So-called Portrait | | Year Artefact | > 1642 | |
| of Rembrandt's Mother) • The Prophetess Anna (known as 'Rembrandt's Mother') | | Started | - 1046 | |
| Rembrandt as Shepherd with Staff and Flute | | | | |
| Rembrandt drawing at a window | | | > http://www.telin.nl/td/topia#Atlas157849 | |
| Study for a statue of Rembrandt | | | Aspect | Composition Here come the guards Light and shade Moved and battered Original location |
| Portrait of Rembrandt van Rijn Isaac Blessing Jacob [6] | | | Rendering of texture Rijksmuseum Symbols Troublesome foreshortening True to tradition Utlerly | |
| http://www.telin.nl/rdf/topia#Page158_4 [2] | | | new, a moment in time! Who is in the Night Watch? http://www.telin.nikd/topia#Erame583_2_2 | |
| Other versions | | | http://www.telin.nl/rdf/topia#Frame583_11_2.http://www.telin.nl/rdf/topia#Frame583_13_2.http:// | |
| http://www.telin.nl/rdf/topia#Frame158_4_2 | | | www.telin.nl/rdthopia#Frame583_1_1 http://www.telin.nl/rdthopia#Frame583_3_2 http:// | |
| • Frame [3] | | | www.telin.nl/rdt/topia#Frame583_10_2 | |
| http://www.tein.ni/rdf/topia#Frame158_1_1 School of Rembrandt | | Creator | < Rin | |
| http://www.telin.nl/rdf/topia#Frame158_2_2 | | Main Creator | > Rin | |
| Rembrandt's circle | | Related | > Arguebusiers Arguebusiers hall Brush technique Composition Light source Militias Patrons | |
| Self Portrait as the Apostle St Paul [6] | | Encyclopedia | Portraiture Rendering of texture Rijksmuseum collection Symbolism | |

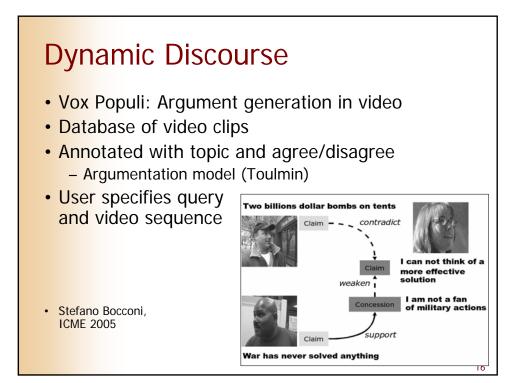


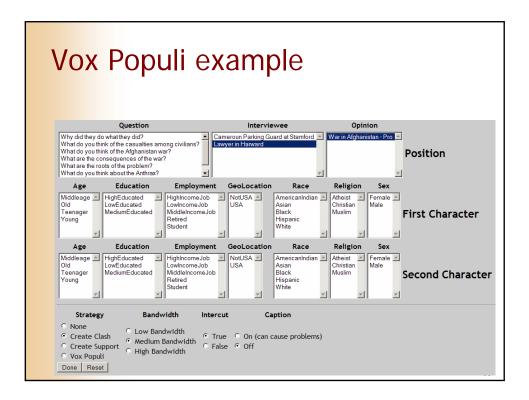


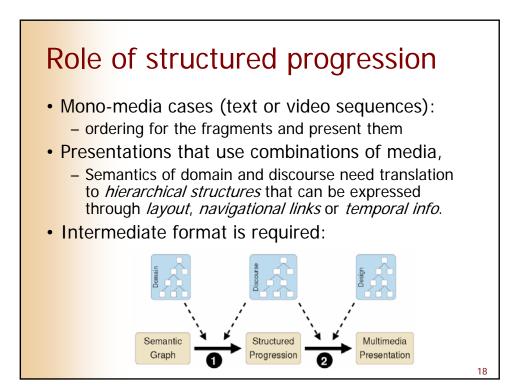












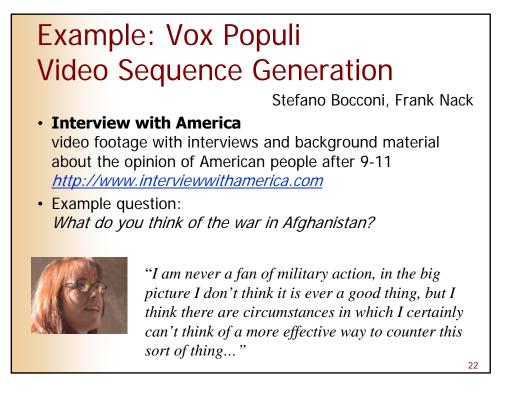
Conclusions

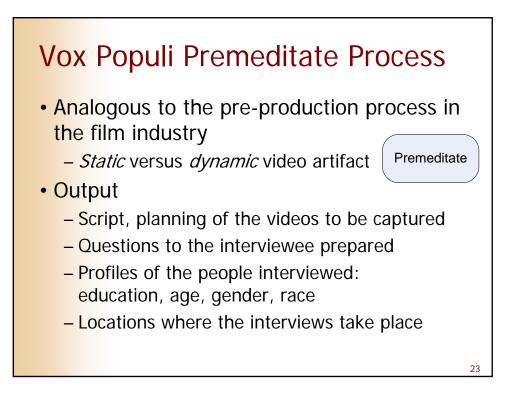
- From projects described we have learned:
 - distinguish stages in process
 - separate discourse knowledge
 - Fixed and Dynamic discourse
 - mappings between domain & discourse knowledge
- Scientific challenges remain:
 - Making (MM) discourse and design knowledge explicit
 - Expressing re-usable semantics of media assets
 - Architectures for multimedia presentation generation

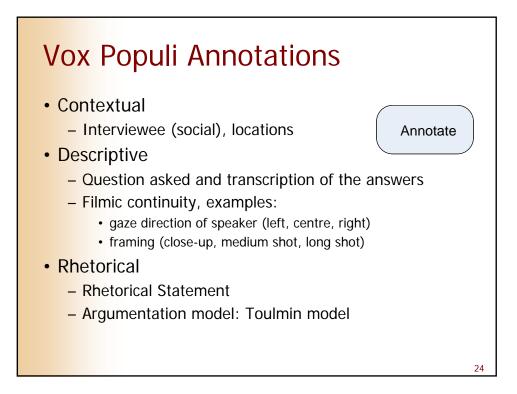


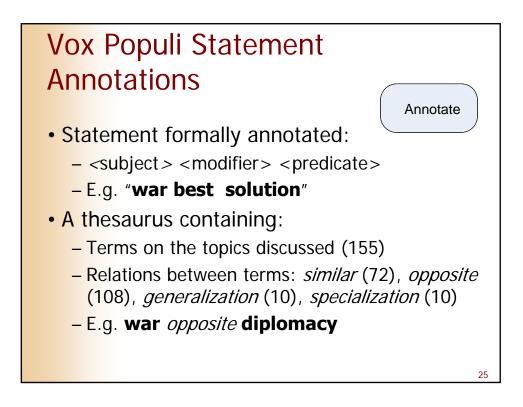


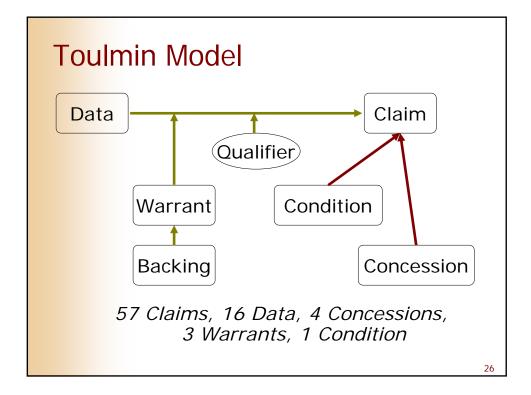


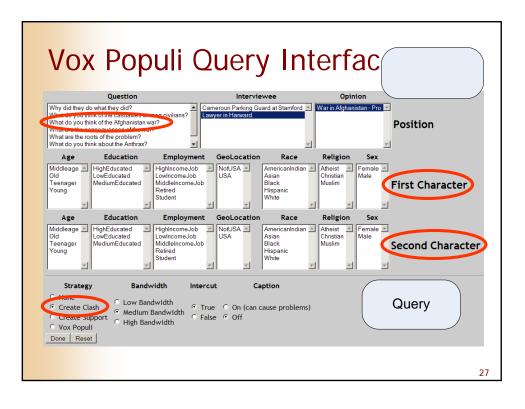


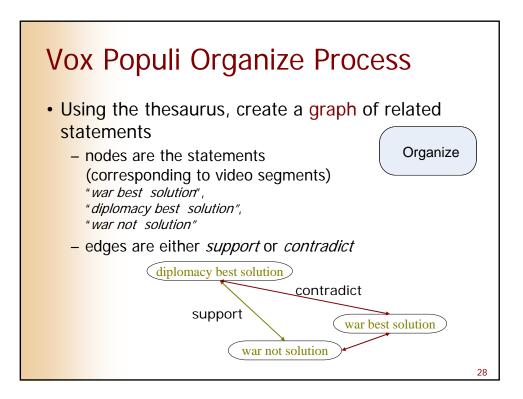


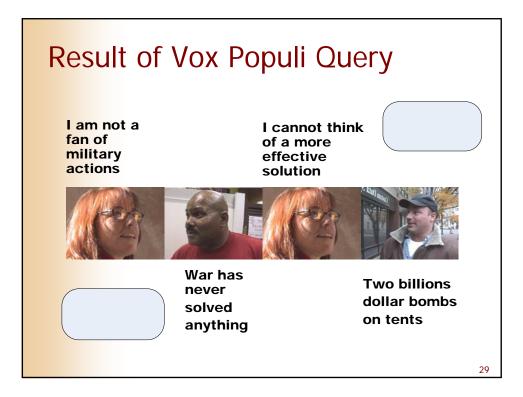










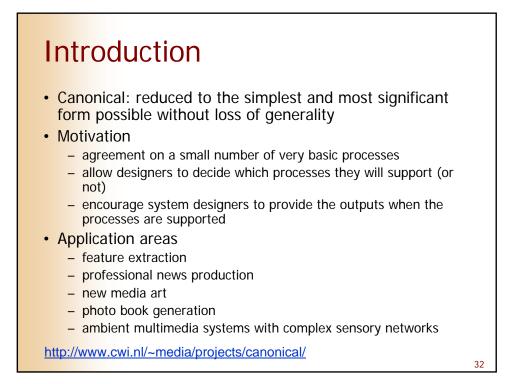


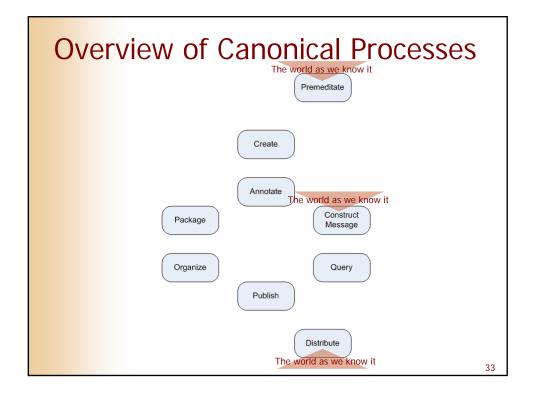


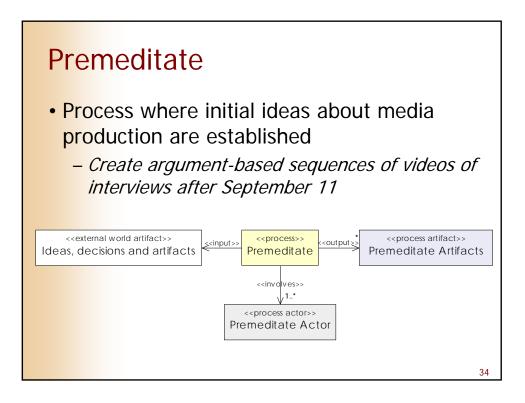
Canonical Processes of Annotated Media Production

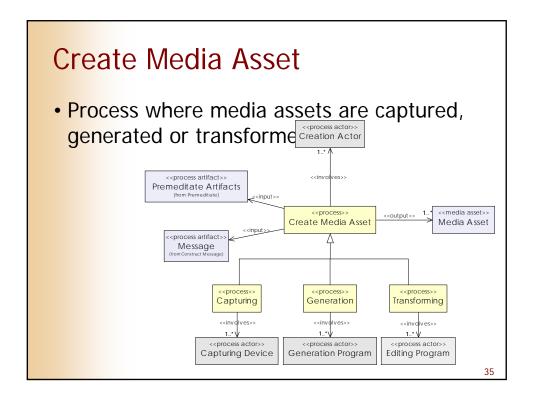
Lynda Hardman Frank Nack Željko Obrenović

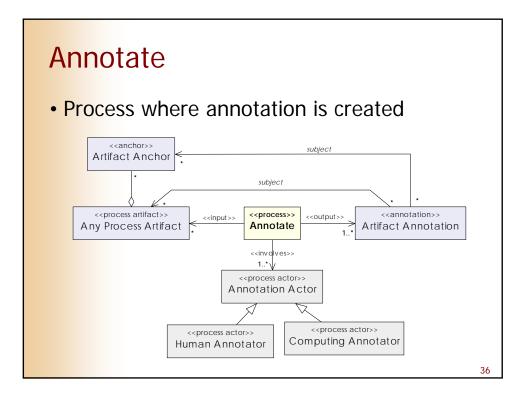
http://www.cwi.nl/~lynda

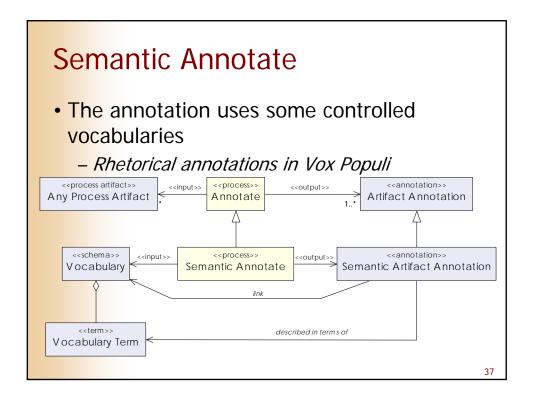


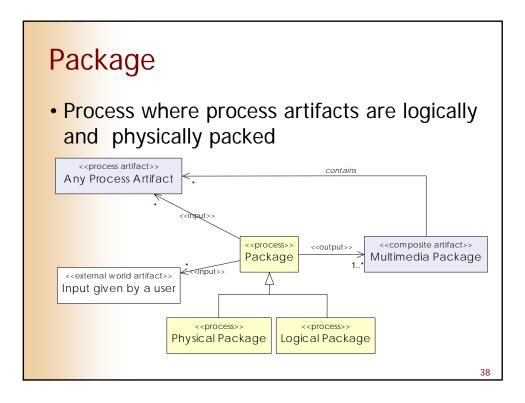


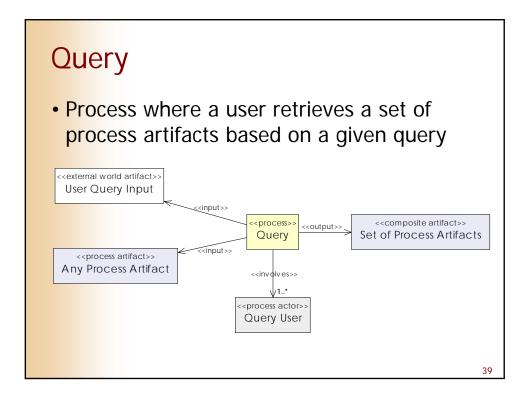


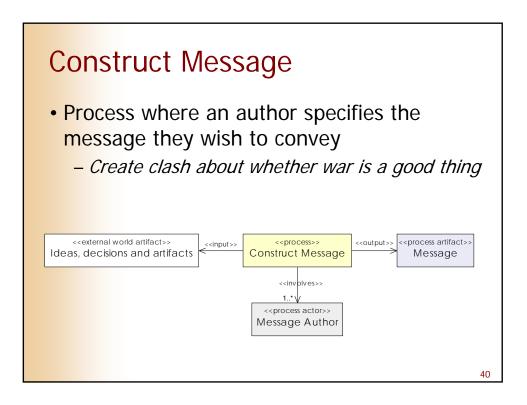


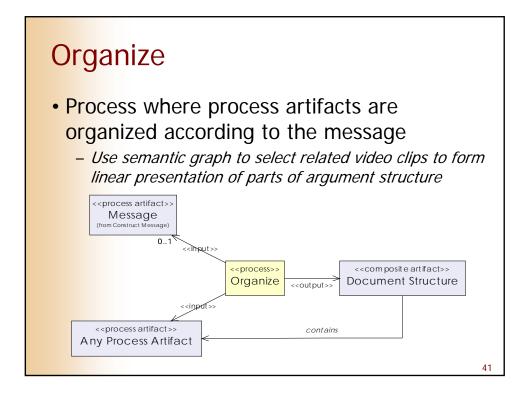


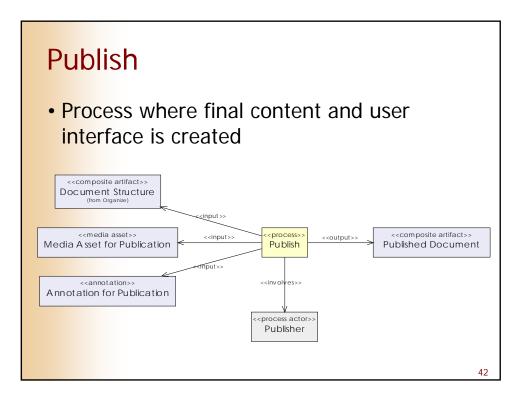


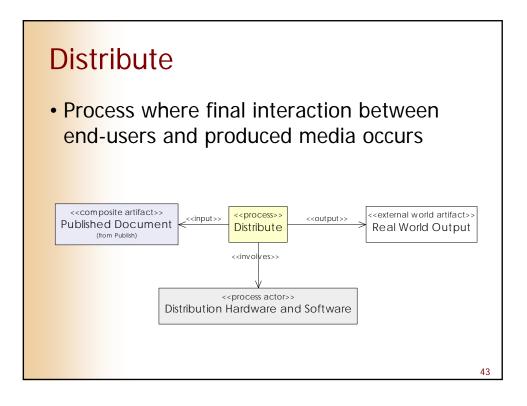


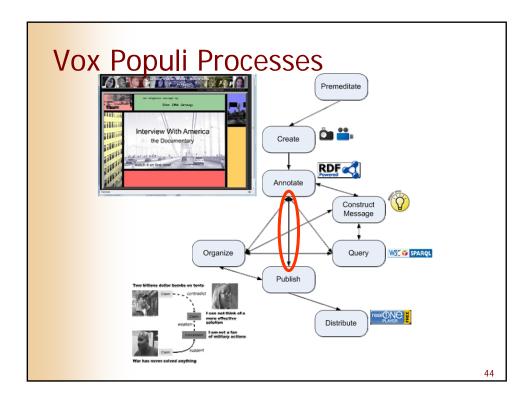


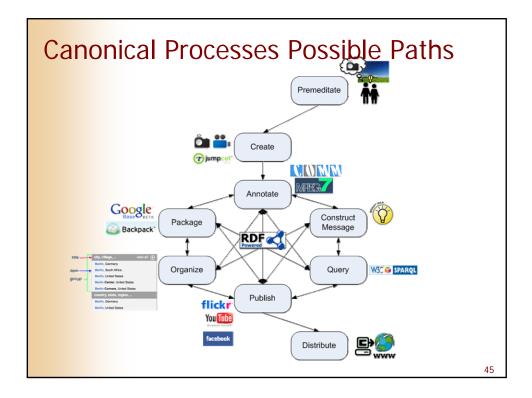


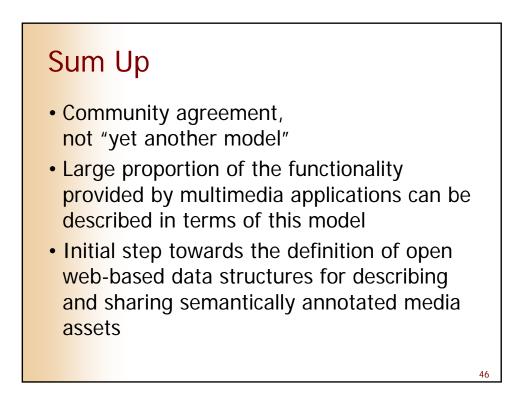


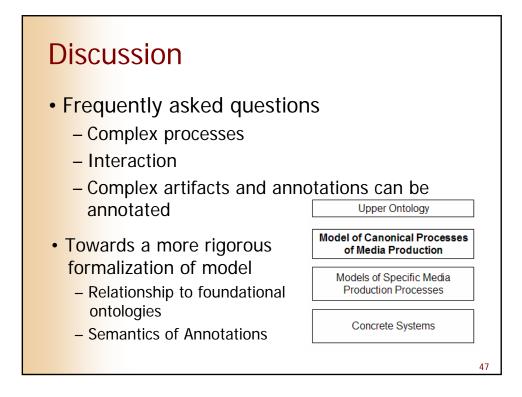


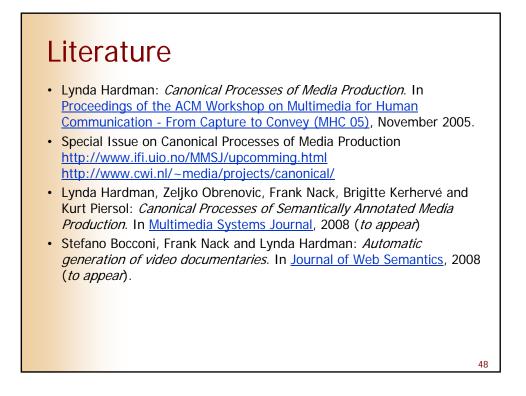




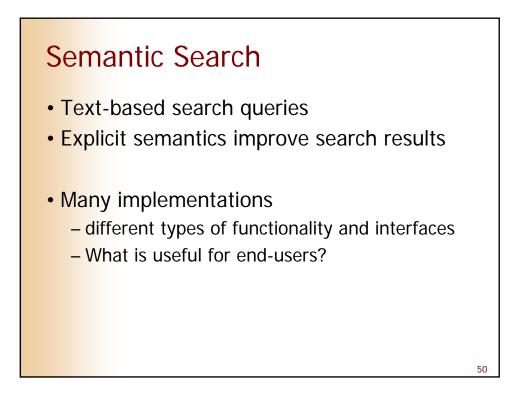


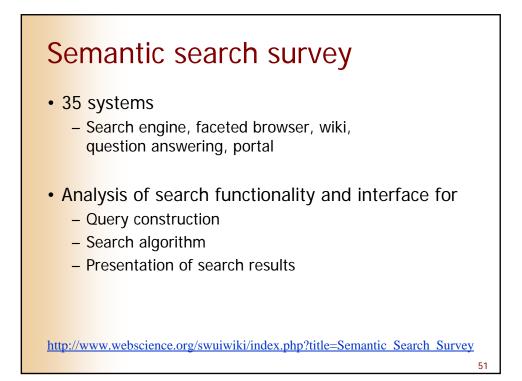












| Free text input | Keyword, | Single text-entry, |
|------------------|--|-------------------------|
| | natural language | Property specific field |
| Operators | Syntactic disambiguation, Semantic constraints | |
| Controlled terms | Disambiguate input, | Value lists, |
| | Restrict output, | Faceted browser, |
| | Predefined queries | Graph |
| User feedback | Pre-query disambiguation | Autocompletion |

Search algorithm

- Syntactic matching
 - Exact, prefix or substring match
 - Minimal edit distance
 - Stemming
- Semantic matching
 - Graph traversal
 - Query expansion
 - RDFS/OWL reasoning

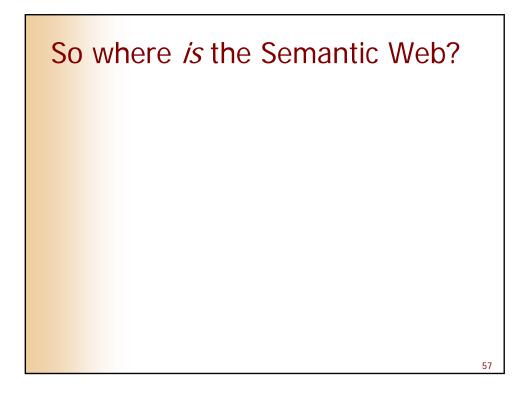
Result Presentation

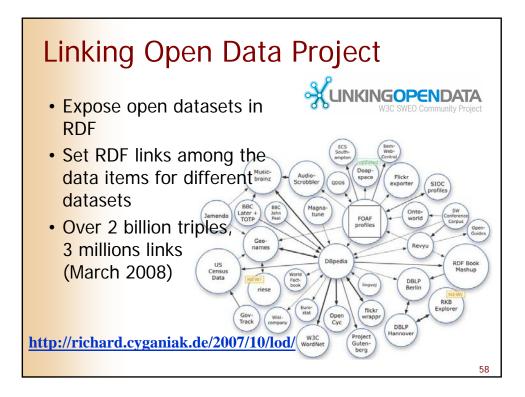
| Data selection | Selected values, Template, Display vocabularies | Visualized by text, graph, tagcloud, map, timeline, calendar |
|----------------|--|---|
| Ordering | Content / link structure based ranking | Ordered list |
| Organization | Clustering by property, by result path or dynamic | Tree, nested box structure, clustermap |
| User feedback | Post-query disambiguation, Recommendation | Facets, tagcloud, value list |

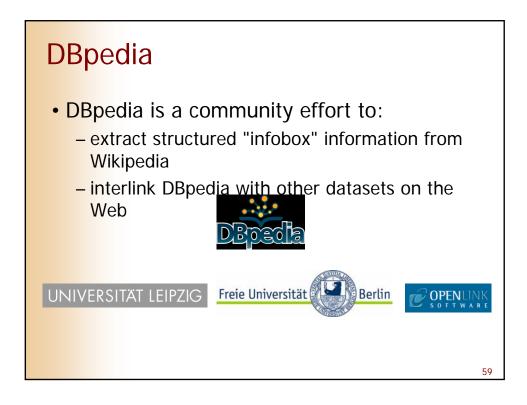
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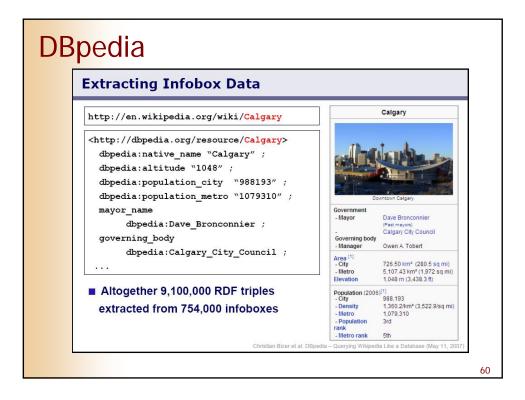


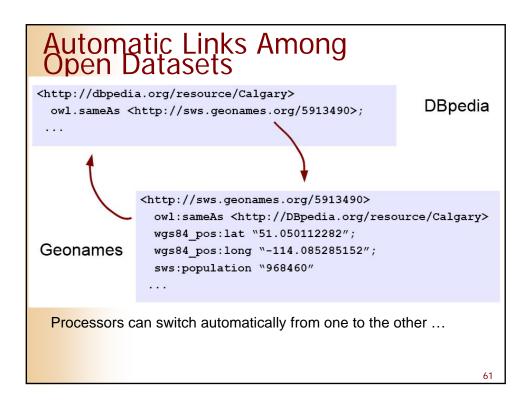
















- News stories: Jun/Jul 2006 (en/fr) newsfeed, AFP ± 90,000 items
- Photos: 2006 football world cup, AFP
- ± 2,500 items
- Video: Jun/Jul 2006 TV News (fr), INA
- ± 30 items

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