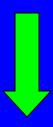
Taxonomy and Semantics



European Media Wrapper Round Table II

Madi Solomon

Madi Weland Solomon: the taxonomy

Professional Experience

Independent Consultant

Walt Disney Company, Corporate Nomenclature Taxonomist

Getty Research Institute Project Associate, Standards & Vocabularies

Broad Art Foundation, Curatorial Assistant

Professional Associations

Chair, AMIA Metadata Joint Subcommittee

LOC Moving Image Collections (MIC): Cataloging and Metadata Working Group & Speakers Bureau

SMPTE W25 Metadata and Wrappers working group

Contributor to ISAN
Best Practices for Audio
Visual Works

Personal info

Family

husband daughter dog

Interests

Visual Art
contemporary art
Playing Musical instruments
Piano
Guitar
Banjo
Drums
Literature

Reading

Writing

definitions

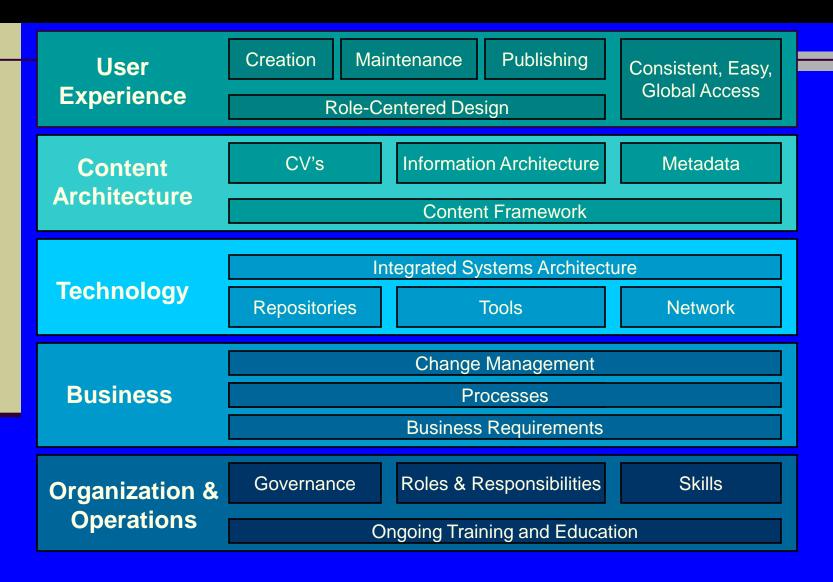
- A Taxonomy is a list of terms that enable classification of information
 - Typically expresses hierarchical relationships (parent/child)
 - Emphasizes context
- A Thesaurus is a specialized taxonomy
 - Emphasizing relationships (synonyms, related terms)
 - Preferred terms, variant terms, AKAs
- A Faceted Classification is a lateral taxonomy which allow for multiple classifications to an object
- An Ontology is a collection of taxonomies and thesauri
 - A body of knowledge is represented by multiple lists of categories
 - Categories of various types are conceptually related

Taxonomy and the Hype Cycle

source: Gartner 2006 Hype cycle



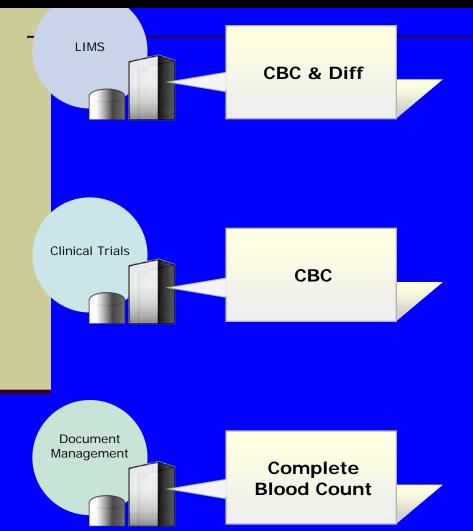
Taxonomy and Content Strategy



Keep in mind: Change is constant

The problem:

Same Term, Different Expressions...



Problems:

- Difficulty finding relevant information
- Federated search configuration is cumbersome
- Inability to view consolidated results
- Limited ability to control shared vocabularies
- Weak governance or demonstrated control
- Costly/cumbersome administrative overhead



MICKEY & FRIENDS CAST MEMBER

0.00

VALID ONLY

07/07/05

Please mark section below PINOCCHIO, CHIP'N DALE, DAISY MICKEY, GOOFY, DONALD, MINNIE

SECTION: A B C D E F G H J K AISLE: 1 2 3 4 5 6 7 8 9 10

PLEASE LOCK VEHICLE 256-2365/092216-17:16-07/07/05/045541 See Reverse Side

Chip 'n Dale Teehouse



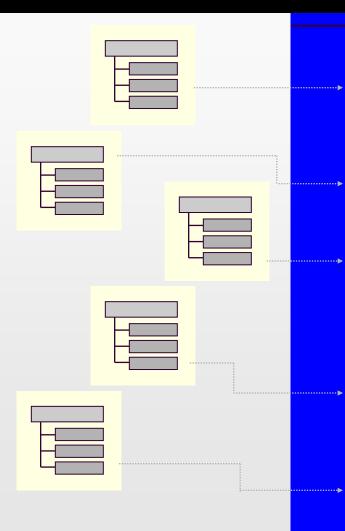


TIPS & FUN FACTS

Cape May Café is physically located at Disney's Beach Club Resort, just a short walk from Disney's Yacht Club Resort.

Goof it up at Goofy's Beach Club Breakfast Buffet bosted by Goofy, who is joined by Chip 'n' Dale and Minnie.

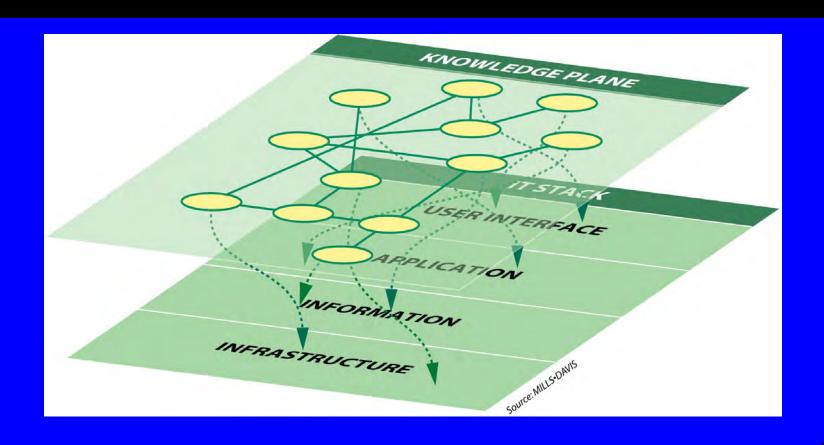
Typical Situation – Disconnected systems, inconsistent metadata



- Inconsistency, no standards
- Many integrations are pointto-point; brittle
- Lack of awareness of possible shared metadata

The "knowledge plane" connects resources in and across each layer of the stack. It can be queried, interpreted and reasoned over both by people and machines.

From Mills Davis: Semantic Wave 2006



Three elements of building a taxonomy

- 1. Metadata model or schema A set of data fields for describing content to enhance information access.
- 2. Controlled Vocabularies. An established list of terms from which an indexer or cataloguer may select when assigning descriptors to content.
- **3.** Application Profile. Formal representation of metadata & vocabularies.

WHY am I listening to this?



The semantics: adding value

(not the same as "information management")



Allegory of Fortune, Dosso Dossi

- Unique to rich media
 - interpreting
 - translating

prosperity in life is transitory and dependent on luck

Metadata

more than just data about the data:

a perspective

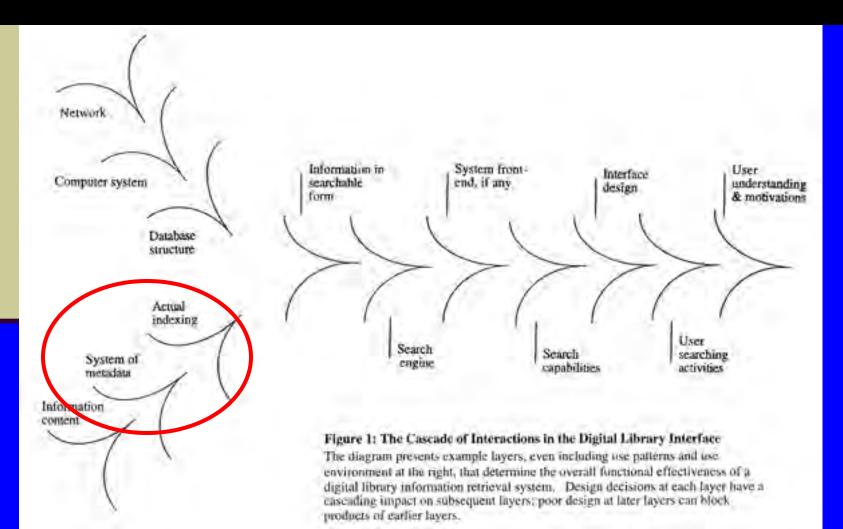
Types of metadata:

who, what, how, when

- Administrative: for managing and administering information resources. e.g. location information, version control, tracking. **Who** is responsible for this information/knowledge? **Where** is the repository?
- Descriptive: description or identification of information resources. e.g. specialized indexes, finding aids. What is the file? What kind of content is this?
- Technical: how a system functions or how the metadata behaves. e.g hardware & software documentation, technical specifications of the content. How is this file represented?
- Preservation: preservation of information management. e.g. document refreshing, migration history. What is the lifecycle of this content? When did this happen? What platform was it created on?
- Permissions and USE: for articulating usage rights and availability. Includes user tracking and usability studies. What can I do with it? What have others done with it? How can I obtain this?

"Design decisions at each layer have a cascading impact on subsequent layers..."

Source: Marcia Bates, Department of Information Studies, Grad. School of Education and Information Studies, UCLA



	Α	В	C	D E	F	G	Н	I	J	
	Α	В	С	D	Е	F	G	Н	I	
	Taxonomy Facet Name	Required Field	Recommended Field	Multi Yalue Field	Indezed	Controlled Yocabulary	Data Example	Description	Controlled Vocabulary Source	
	Audience_PTC		×	×	×	*	Project Managers	Internal audience(s) targeted by the document	Audience vocabulary	
	Discipline		н	×	×	*	Document Management	Describes a number of ways that consultants may think of customer challenges	Discipline vocabulary	
	Document_Type	×	×	×	×	×	AAR	Content genre	Document Type vocabulary	
	Engagement_Value		×		×	*	Small or <\$100,000.	Document describes project of specific size. It is likely that only SOWs can be identified this way.	Engagement value	
	Industry		×		×	*	Automotive	Industry associated with customer discussed in document	Industry vocabulary	
	PDS Stage		×	×	×	×	Change management	PDS project phase described by document	Phase vocabulary	
	Product		ж	×	×	×	ProEngineer	Documents associated with products developed and maintained by PTC for solution integration	Product vocabulary	
	Product Release		×		×	×	8.0	Release/Version number of the product described	Release vocabulary	
,	Service Package		×		×	×	QuickStart	Document associated with fixed price packages sold by PTC that incorporate product (s) and consulting services.	Service vocabulary	
	Project Lifecycle		н	×	×	×	Mobilization	Document associated with engagement process step(s)	Process vocabulary	
2										
5										
Ŀ	Intro 1. PTC Metadata Scheme 2. PTC_TaxonomyFacets 3. Audiences 4. Discipline 4.									

() (

- Micradata Element Name

top level hierarchies – the perspectives

Disney

- Asset Format Types
- Business Units
- ContentClassifications
- Subject Keywords
- Main Titles/Properties
- Characters
- Personal Names

Getty Art & Architecture

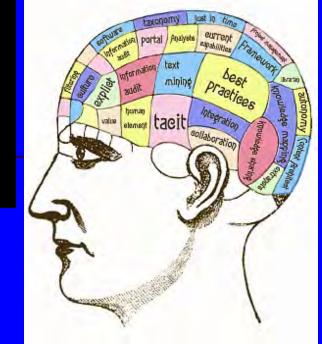
- Associated ConceptsFacet
- Physical Attributes Facet
- Styles and Periods Facet
- Agents Facet
- Activities Facet
- Materials Facet
- Objects Facet

NASA

- Access Security Requirements
- Audiences
- Business Purpose
- Competencies
- Content Types
- Industries
- Instruments
- Locations
- Missions and Projects
- Organizations
- Subject Categories

documentalist as *system* educator

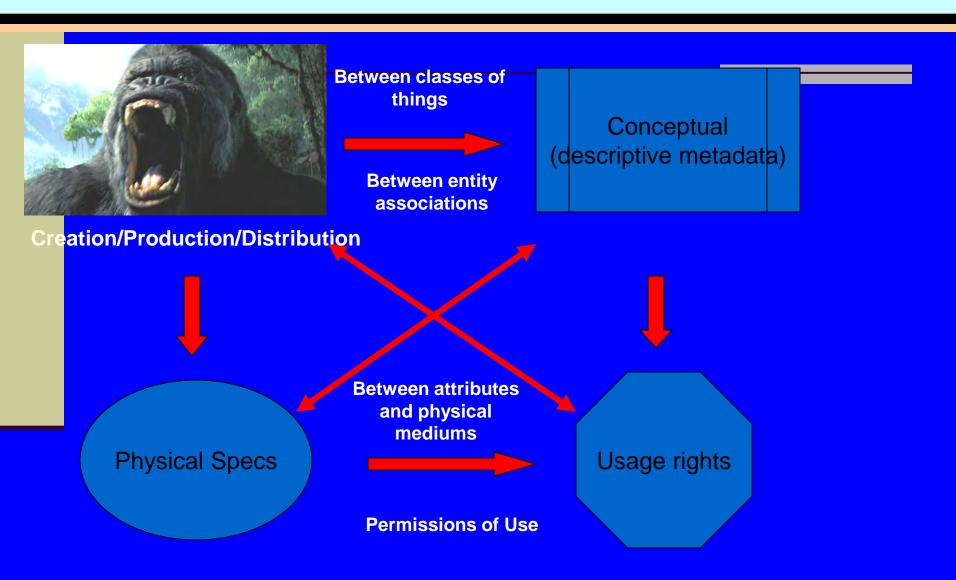
- Intelligent search and classification system
- Constantly 'feed' accurate information
- Provide syntax & entry conventions for precision



Search / Browse

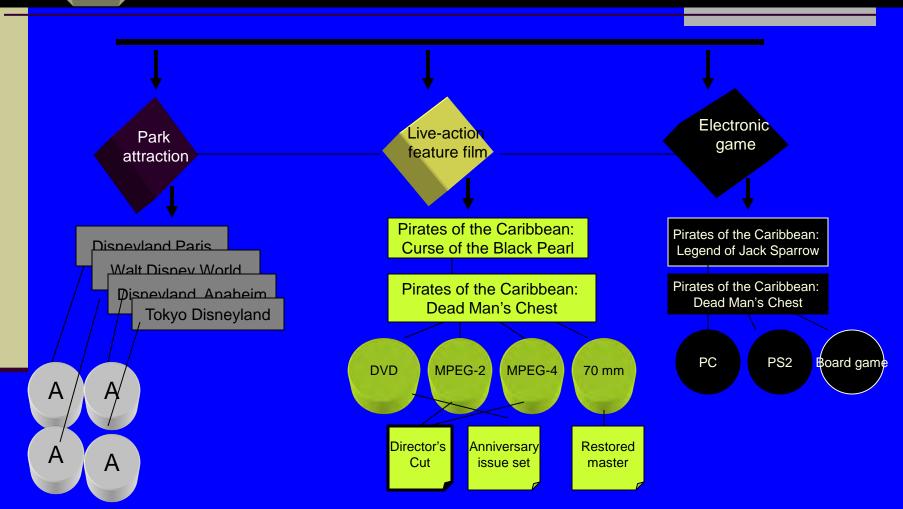
Identification / Authentication
Instantiation / Discovery
Rights Management

Entity Relationships





Pirates of the Caribbean



Adding intelligence to content

Metadata schema: A defined set of metadata elements

Taxonomy: A list of terms that enable classification of information

- Identification / Authentication
- Searching / Browsing / Finding /
- Instantiation
- Access and Usage

- Process intelligent searches through a classification system
- Relate language to information objects
- Provide inferred meaning through context

Term: knights

The Knights Templar Burned in the Presence of Philip the Fair and His Courtiers.

Boucicaut Master and Workshop, Paris about 1415

<Keywords>



<Agents>

<agents by state or condition> royalty

kings

→knights princes princesses queens



<Agents Facet>

<People>

<peeple by state or condition> landholders

lone aming pure deciming to this nap men demin arans myale a

ne te dinnée ad la que se mosampen f Ce les innéeres de lan qui difense fire

e, yet a luping conficu e and the factored monthly to term

d'o popul i bi-decentra de

ent que aniques reigi ent pobles ponumes fai sees or precipe on ar two states prove

matreme et ten etent abien ente ce teur dicunienc apres contego

→ knights landowners tenants



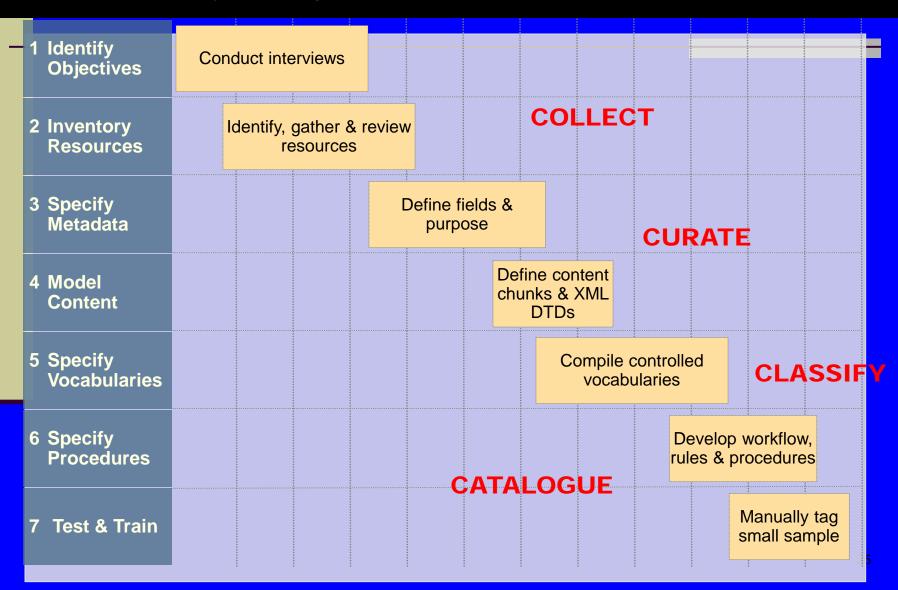
courtesy of Disney Consumer **Products**

Taxonomy derivation

- Capture: What are the current cultural practices? What are the users thought patterns?
- Curate: determine what is important in knowledge representation
- Classify: Represent knowledge in a structure that supports meaning
- Catalogue: validate, test functionality, identify processes

Seven phases of taxonomy development

Source: Taxonomy Strategies taxonomystrategies.com



Application framework

- What tools are available?
 - Search mechanisms, content management systems, portal framework, etc
- How do those tools utilize and apply metadata?
 - Document and content containers
 - Custom metadata applied to content
 - Thesaurus management
 - Term expansion
 - Mapped search (tuned search)
- How will metadata be passed from one system to another?
- How will updates to taxonomy terms be applied?

Taxonomy Maintenance

- Who owns the taxonomy? The consortium of stakeholders.
- Who maintains the taxonomy? The taxonomy team:

technical specialist taxonomy specialist content specialist domain experts – content custodians – asset managers

- How are candidate or proposed terms submitted? Through different editorial roles depending on your application.
- How are they approved or accepted? By user and literary warrant; through the application by the taxonomist.





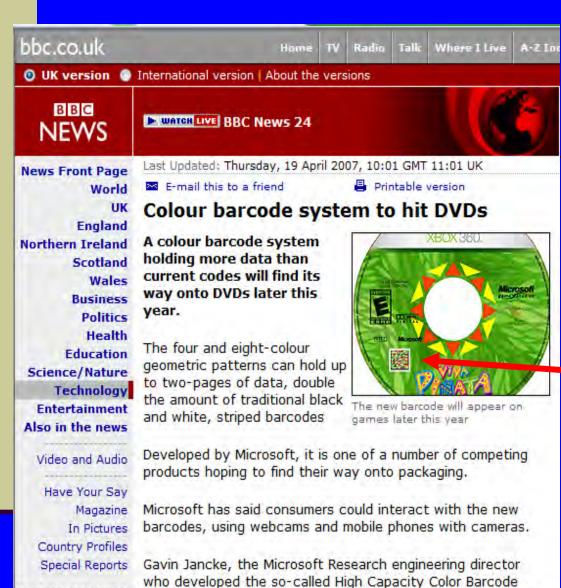


RELATED BBC SITES

SPORT

WEATHER

system, called UPC.



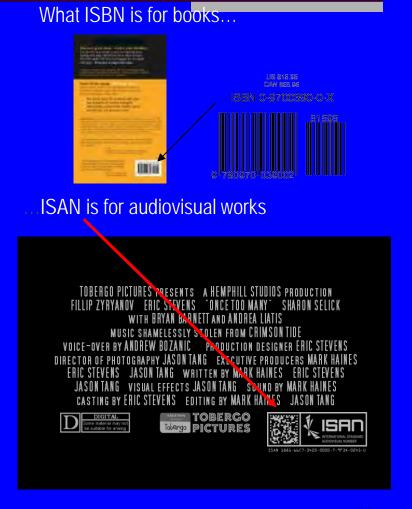
(HCCB), said the aim was not to replace the current barcode





What is ISAN?

The ISAN (International Standard Audiovisual Number) is a voluntary numbering system for the identification of audiovisual works, not publications or broadcasts



Approved Registration Agencies

- Agence Française ISAN (France)
- Aribsan (Spain & Latin America)
- ISAN Australasia (Australia and New Zealand)
- ISAN Berne (Switzerland and neighboring countries)
- ISAN NL (Netherlands)
- ISAN RA Deutschland (Germany)
- **Microsoft Studios (USA)**
- Secure Path (USA)
- Aribsan (Spain and Latin America)
- **ISAN NL (Netherlands)**
- **ISAN IFTA (IFTA Members)**
- ISAN UK
- ISAN Sverige
- **ISAN PL (Poland)**
- ABRISAN (Brazil)
- ISAN Iran



Home

Data Apps Discuss

Help

Please sign in or register to contri

Bob le flambeur

Discuss "Bob le flambeur" E Hide Empty Fields





- .= Types Film (Film)
- .≡ Also known as double-click to add "Also known as"
- .≡ Initial release date 1955
- .= Directed by Jean-Pierre Melville
- .≡ Produced by Jean-Pierre Melville , Serge Silberman
- .≡ Screenplay By Auguste Le Breton, Jean-Pierre Melville
- .≡ Story By double-click to add "Story By"
- .≡ Cinematography double-click to add "Cinematography"
- .≡ Edited by double-click to add 'Edited by'
- .≡ Costume Design By double-click to add "Costume Design By"
- .≡ Music by Eddie Barclay, Jo Boyer
- .= Genres Film noir, Crime
- .≡ Runtime In Minutes 98.0
- .≡ Languages French
- .= Country of origin France
- .≡ Estimated budget double-click to add 'Estimated budget"
- .≡ Rated double-click to add "Rated"
- .≡ IMDb profile page http://www.imdb.com/title/tt0047892
- .≡ Soundtrack double-click to add "Soundtrack"

Page History

Created by Metaweb Oct 23, 2006 11:22am

Last edited by mw_prop_bot Oct 5, 2007 11:31pm

■ Web Link(s)

double-click to add "Web Link(s)"

- Performances

Roger Duchesne Isabelle Corey Guy Decomble

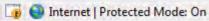
- Personal Appearances

double-click to add "Personal Appearances"

... Dubbing performances

double-click to add "Dubbing performances"

.≡ Featured Film Locations



In summary

Three elements to building a taxonomy:

- Metadata schema or model
- Controlled vocabularies
- 3. Application Profile

Taxonomy take away:

- Never build in a vacuum
- Be prepared to change with semantics
- Don't need much to do a lot
- Exploit what is abundant

Merci!

Questions?



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