Reform(aliz)ing Copyright for the Internet Age Claremont Hotel, Berkeley – April 18-19, 2013

Technology of Registries

Paul Jessop Founder, County Analytics

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A FRAMEWORK FOR METADATA

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The Indecs Project

- Dates from 2000
- Interoperability of Data in E-Commerce Systems
- Funded by European Commission
- Partners and affiliates from Europe, Asia and US



Putting metadata to rights

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Indecs Model of Commerce

People make stuff People use stuff People make deals about stuff

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Machine Mediated Commerce

- Need to identify and describe in standard ways:
 - The stuff
 - The people
 - The deals

INDECS PRINCIPLES

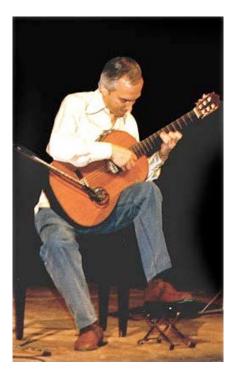
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Principle of Unique Identification

Every entity should be uniquely identified within an identified namespace.

Unique Identification

• Disambiguation



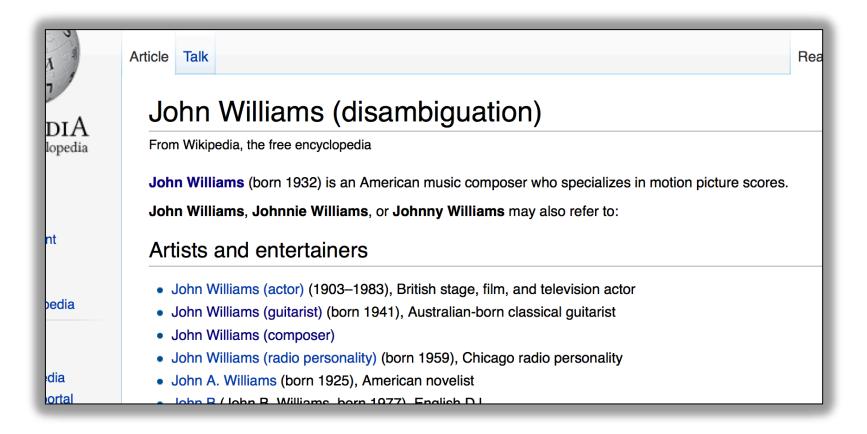
John Williams Guitarist Public Domain



John Williams Composer Courtesy: TashTish



Disambiguation

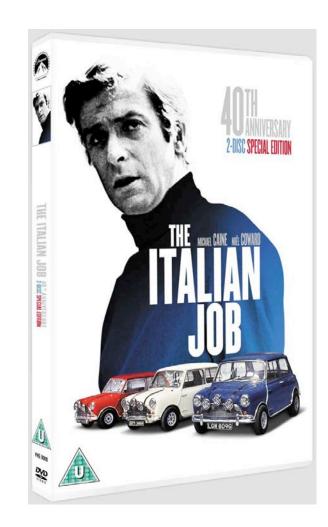


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Principle of Functional Granularity

It should be possible to identify an entity whenever it needs to be distinguished.

Functional Granularity



Mini Coopers

One identifier or three?

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Depends on the function

• Buying an engine part?

- Matching the paint for a respray?
- Defending a speeding ticket?



HE=XX81





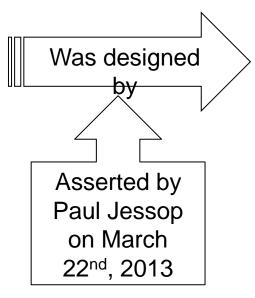
slide 12

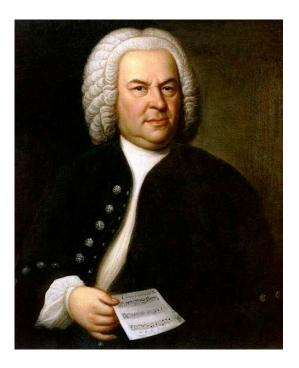
Principle of Designated Authority

The author of an item of metadata should be securely identified.

Architects







St Paul's Cathedral

J S Bach

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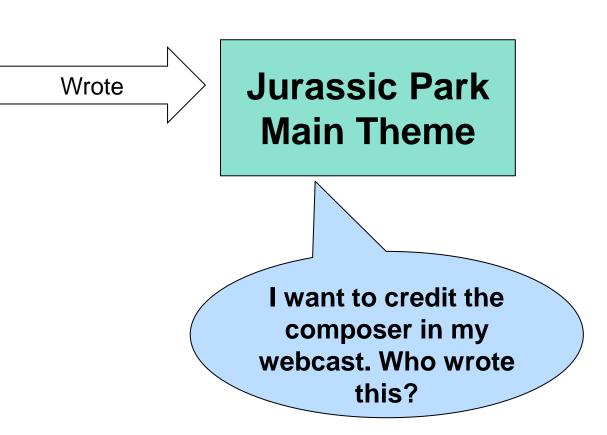
Principle of Appropriate Access

Everyone requires access to the metadata on which they depend, and privacy and confidentiality for their own metadata from those who are not dependent on it.

Crediting Creators

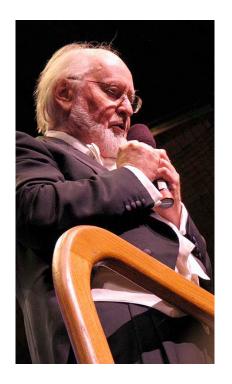


John Williams

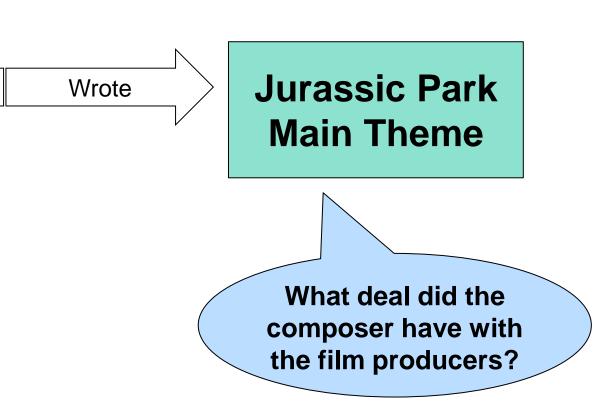


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Not Necessarily Free or Available



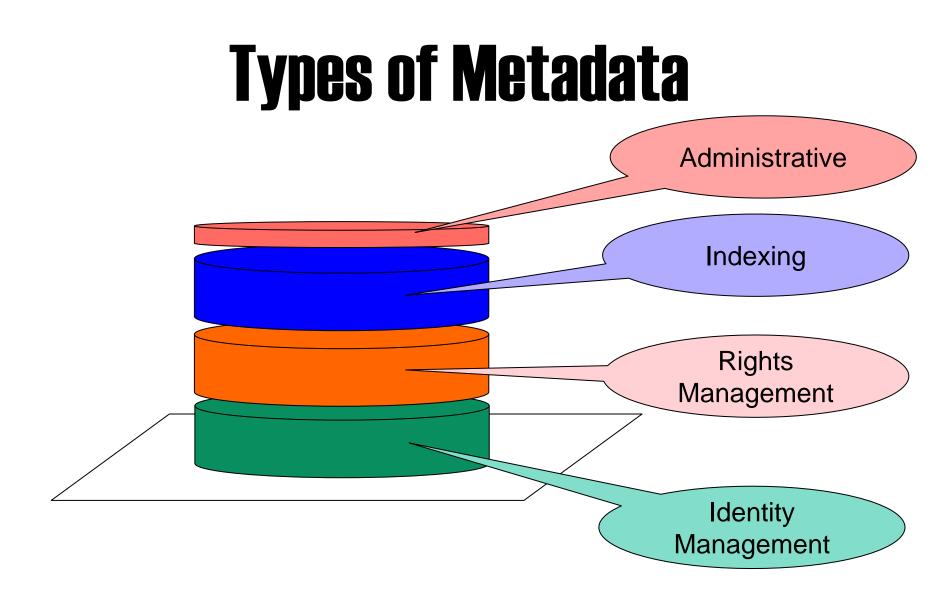
John Williams



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TYPES OF METADATA

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Identity Management

- Unique identifying codes
- Enough descriptive metadata to disambiguate
 - Minimum Metadata
 - Reference Metadata

Example – Sound Recording

- International Standard Recording Code – AU-XYZ-13-12345
- Track title
- Version title
- Featured Artist
- Recording Date
- Duration

Requirements – Identity Management

- Fundamental: Shared between bilateral users
- In practice: Shared within mesh of users
- Optimally: Public registry

Rights Management

- The information you need to make sure the right people get paid or recognized
- e.g.
 - Ownership of particular right in territory
 - Copyright expiration date
 - Backing musician identity

Indexing Metadata

- Everything else
- For resource discovery
 - "Find me"
 - "Try this"
- For rendering enhancement
 - "Did you know?"
 - "FYI"

REGISTRY REQUIREMENTS

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Identity Registry

- Trusted ISO?
- International
- Open/RAND
- Accountability
- Resolution service
- Query capability

Simple Rights Registry

- Single right
- Territorial
- Identify:
 - Rightsholders
 - Typically for distribution

Complex Rights Registry

- Multiple rights
- Multiple uses
- Multiple territory
- Licence creation
- Licence request processing
- Usage reporting

Codification of Uses

- Overlap with Rights Expression Languages
- See:
 - Copyright Clearance Center/Getty/others
 - Linked Content Coalition Rights Reference Model
 - Use Description Taxonomy (UDT)



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