Promoting Music Sampling by Semantic Web-enhanced DRM tools

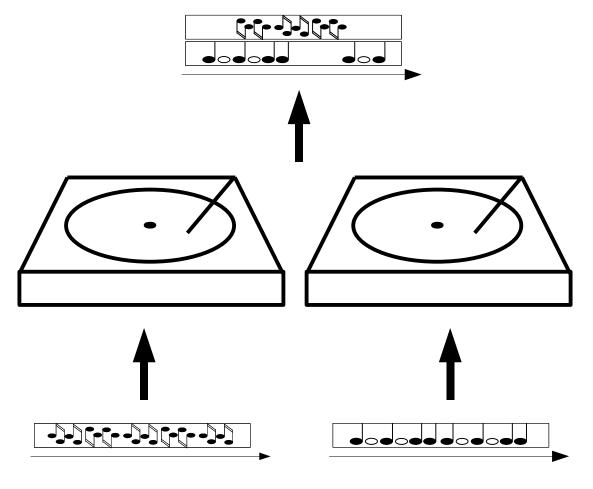
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> October 12, 2007 Koblenz, Germany

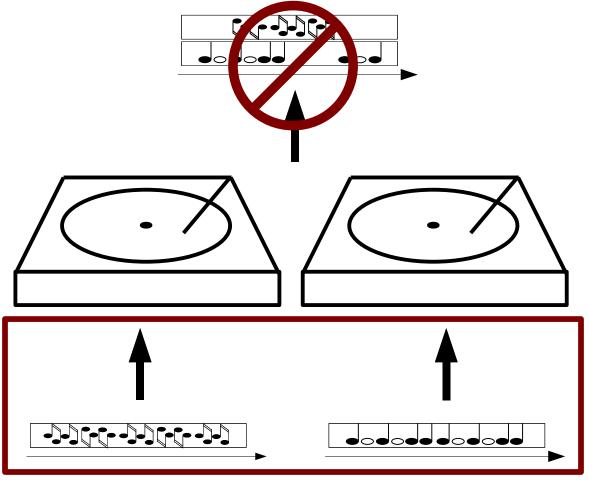


Music Sampling



- One Remix
 - new
 - Original Work?
 - Derivative Work?
 - Adaptation?
- Process
 - exploratory
 - creative
 - Copy
 - Adapt
 - Merge
- Different Samples

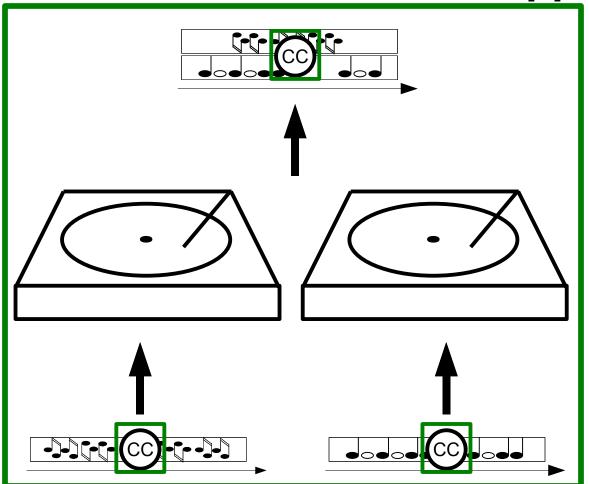
Music Sampling menaced by DRM



- No Remix
- Process
 - Copy
 - Adapt
 - Merge
- No Samples
- Legal
 - for private Use
 - Rights clearance for samples only necessary for public Use

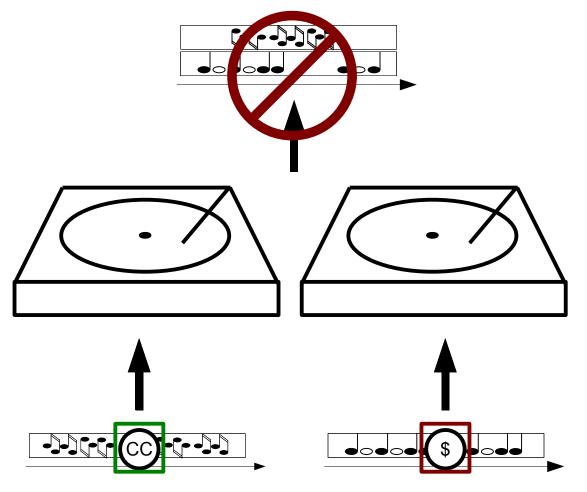
Music Sampling

supported by CC



- Creative Commons
 - predefined licenses support sampling
- Legal
 - Rights clearance for samples not required
 - Non-commercial Use only
 - ccMixter
 - Commercial use?

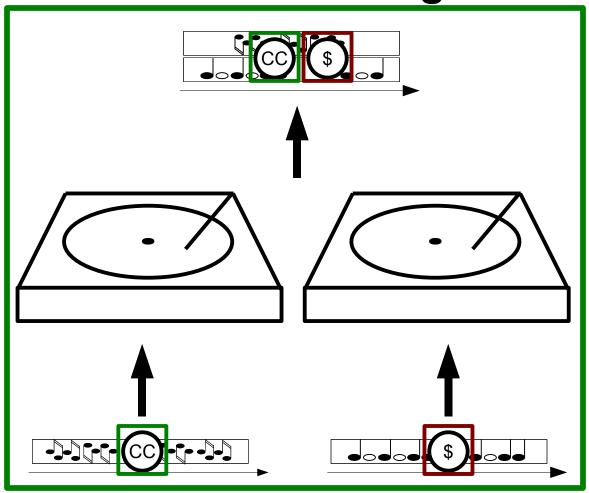
Music Sampling either commercial or not?



- No Remix
 - incompatible licenses
- Process
 - exploratory?
 - creative?
- Legal
 - for commercial
 Use Rights
 clearance for
 samples required
 - no management system to assist

Table of Contents Introduction **Objectives** Conceptualisation **Implementation** Conclusions Promoting Music Sampling by Semantic Web-enhanced DR

Objective **Promoting Music Sampling...**

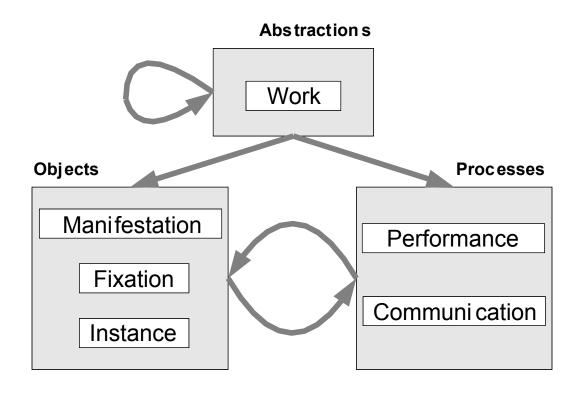


Remix

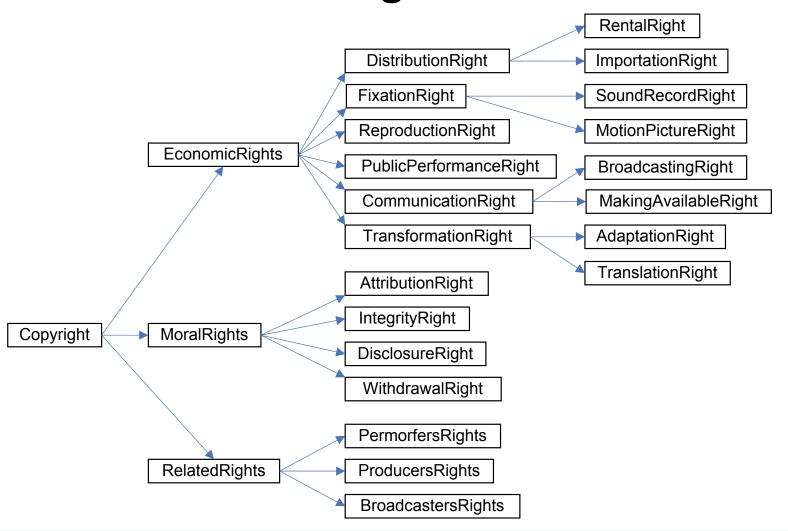
- independent of the Licenses of the Samples
- independent of the License of the resulting Work (e.g. commercial, non-commercial)
- assisted by a
 DRM system to
 pay royalties to
 authors of original
 Works if
 necessary

Table of Contents

- Introduction
- Objectives
- Conceptualisation
 - Creation, Rights and Action Model
- Implementation
- Conclusions



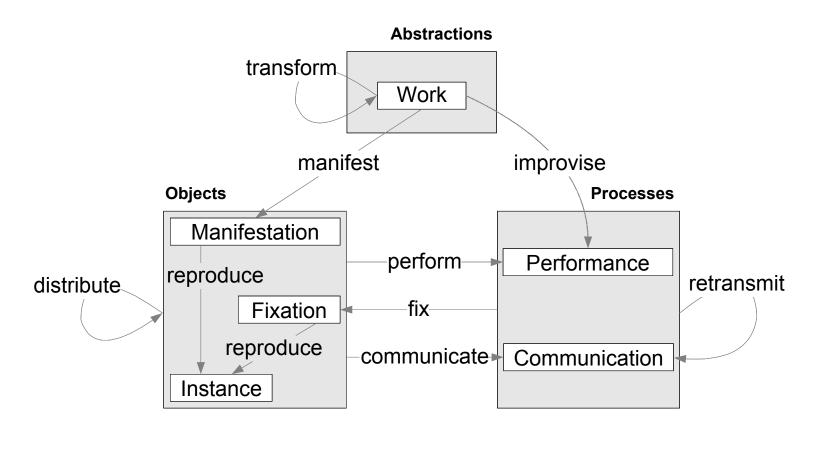




Conceptualisation Rights Model

- End-users do not hold rights
 - Usage licenses
 - Special permissions:
 - Quotation
 - Education
 - Information
 - Official Act
 - Private Copy
 - Parody
 - Temporary Reproduction

Actions, the building blocks



- Actions governed by Economic Rights:
 - Reproduction Right: copy
 - Distribution Right:
 distribute; sell, rent, lend
 - Public Performance Right: perform
 - Fixation Right: record
 - Communication Right:
 communicate; retransmit, broadcast, make available
 - Transformation Right: transform; adapt, translate

 End-user actions, to use a...

manifestation: buy

– instance: buy

nerformance: att

– performance: attend

communication: access

broadcast: tune

something made available: access

picture, sculpture

book, CD, DVD

projection, recital, exhibition

TV channel, radio station

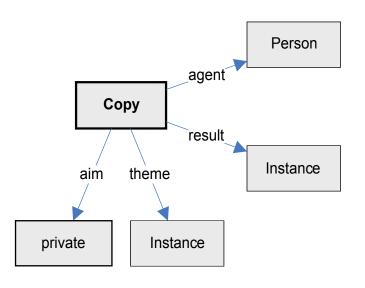
web page, stream

- Actions for users' special permissions:
 - Private Copy Right:
 copy producing a reproduction for private consumption
 - Quotation Right:
 quote, limited extent copy, usually requiring an attribute action
 - ...

 Case roles (linguistics): relate actions to their participants

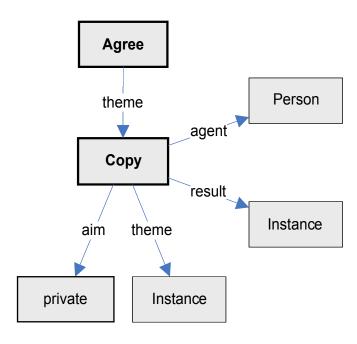
	initiator	resource	goal	essence
Action	agent, effector	instrument	result, recipient	patient, theme
Process	agent, origin	matter	result, recipient	patient, theme
Transfer	agent, origin	instrument, medium	experiencer, recipient	theme
Spatial	origin	path	destination	location
Temporal	start	duration	completion	pointInTime
Ambient	reason	manner	aim, consequence	condition

- License building primitives:
 - Event Patterns:
 to state what is obliged, permitted or prohibited
 - Built from actions and case roles



All copy events performed by any person who copies any instance getting a copy instance and whose aim is private

- License building primitives:
 - Agree: model permissions
 - theme points to the permitted event pattern



Conceptualisation **Private Copy Model**

- Music Sampling scenario:
 - Model Private Copy

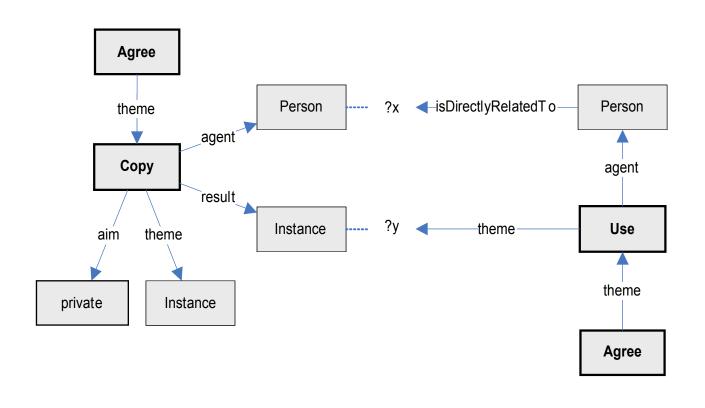


Table of Contents

- Introduction
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Implementation

- OWL-DL: deal with licenses using Description Logic reasoners
- Rights and License Patterns implemented as Classes
 - Copyright, Reproduction Right,
 Copy, CopyPattern,...
- Uses implemented as Instances
 - u
- if u ∈ Copy Pattern then license pattern authorises u

