

Creative Commons: Digital Rights Description

Dublin Core 2003 Tutorial

Mike Linksvayer



Creative Commons Metadata Example (1)

```
<rdf:RDF xmlns="http://web.resource.org/cc/"
  xmlns:dc="http://purl.org/dc/elements/1.1/"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#">

  <Work rdf:about="http://mirrors.creativecommons.org/dc2003/">
    <dc:title>Dublin Core 2003 Tutorial: Creative Commons Digital Rights Description</dc:title>
    <dc:date>2003-10-01</dc:date>
    <dc:description>Slides and audio recording from Creative Commons tutorial presented at Dublin Core
      2003.</dc:description>
    <dc:creator><Agent>
      <dc:title>Mike Linksvayer</dc:title>
    </Agent></dc:creator>
    <dc:type rdf:resource="http://purl.org/dc/dcmitype/Text" />
    <dc:type rdf:resource="http://purl.org/dc/dcmitype/Sound" />
    <license rdf:resource="http://creativecommons.org/licenses/by/1.0/" />
  </Work>

  <License rdf:about="http://creativecommons.org/licenses/by/1.0/">
    <permits rdf:resource="http://web.resource.org/cc/Reproduction" />
    <permits rdf:resource="http://web.resource.org/cc/Distribution" />
    <requires rdf:resource="http://web.resource.org/cc/Notice" />
    <requires rdf:resource="http://web.resource.org/cc/Attribution" />
    <permits rdf:resource="http://web.resource.org/cc/DerivativeWorks" />
  </License>
</rdf:RDF>
```

Creative Commons Metadata Example (2)

```
<rdf:RDF xmlns="http://web.resource.org/cc/"  
  xmlns:dc="http://purl.org/dc/elements/1.1/"  
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#">
```

```
<Work rdf:about="http://mirrors.creativecommons.org/dc2003/">
```

```
<dc:title>Dublin Core 2003 Tutorial: Creative Commons Digital Rights Description</dc:title>
```

```
<dc:date>2003-10-01</dc:date>
```

```
<dc:description>Slides and audio recording from Creative Commons tutorial presented at Dublin Core 2003.</dc:description>
```

```
<dc:creator><Agent>
```

```
<dc:title>Mike Linksvayer</dc:title>
```

```
</Agent></dc:creator>
```

```
<dc:type rdf:resource="http://purl.org/dc/dcmitype/Text" />
```

```
<dc:type rdf:resource="http://purl.org/dc/dcmitype/Sound" />
```

```
<license rdf:resource="http://creativecommons.org/licenses/by/1.0/" />
```

```
</Work>
```

```
<License rdf:about="http://creativecommons.org/licenses/by/1.0/">
```

```
<permits rdf:resource="http://web.resource.org/cc/Reproduction" />
```

```
<permits rdf:resource="http://web.resource.org/cc/Distribution" />
```

```
<requires rdf:resource="http://web.resource.org/cc/Notice" />
```

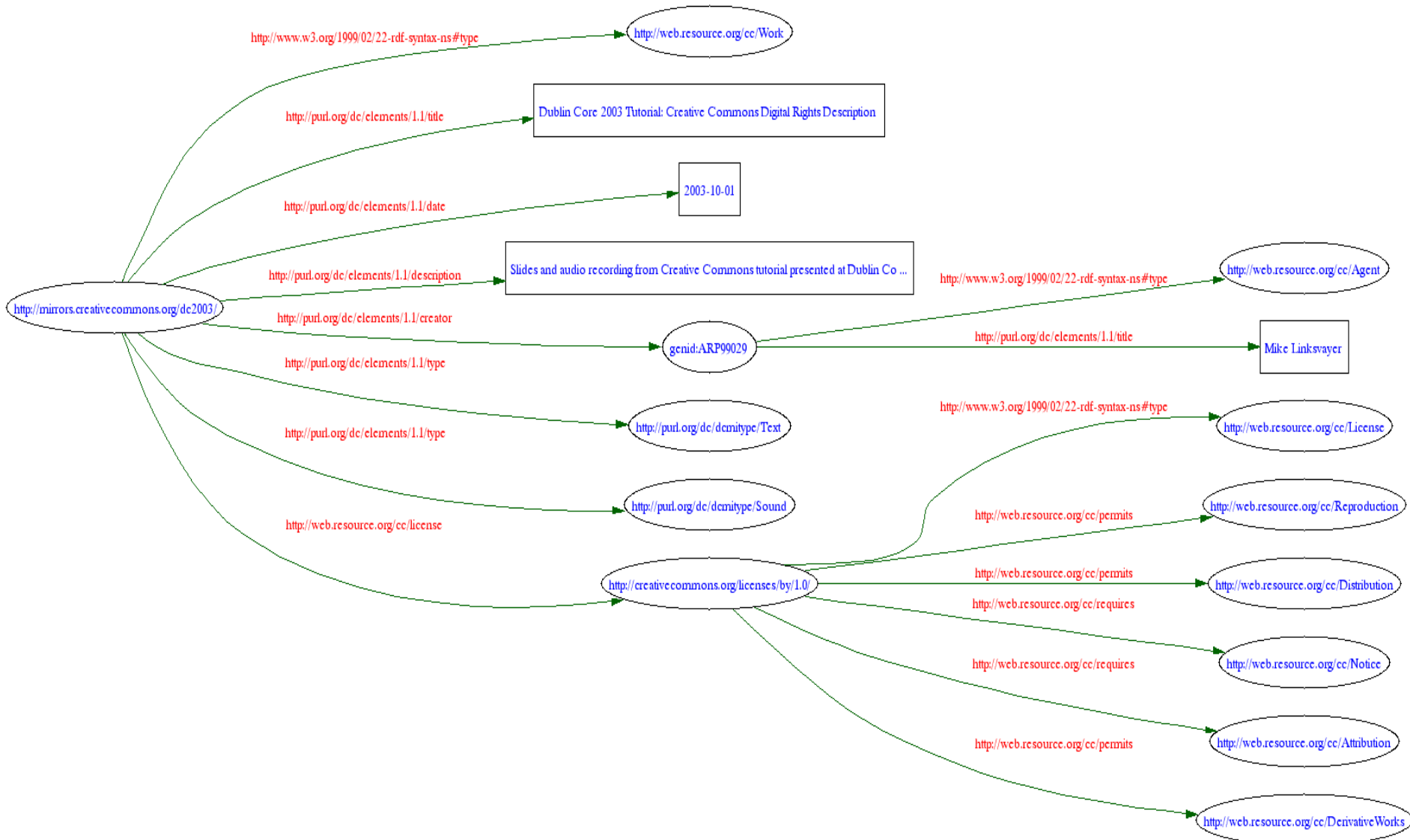
```
<requires rdf:resource="http://web.resource.org/cc/Attribution" />
```

```
<permits rdf:resource="http://web.resource.org/cc/DerivativeWorks" />
```

```
</License>
```

```
</rdf:RDF>
```

Creative Commons Metadata Example (3)



Building on the shoulders of giants ...

- *Dublin Core*
- *RDF*
- *Semantic Web*

... we hope

dc:title

A title or name for the resource.

dc:description

A text description of the resource.

dc:subject

Key words and phrases describing the topic of the resource.

dc:publisher

A cc:Agent responsible for making the resource available.

dc:creator

A cc:Agent who created the resource.

dc:contributor

A cc:Agent who contributed to the creation of the resource.

dc:rights

The cc:Agent who holds the copyright on the resource.

dc:date

A copyright date for the resource.

dc:format

*The Media Type of the resource. Examples:
“text/plain”, “audio/mpeg”.*

dc:type

The DCMI Type of the resource. Examples:

<http://purl.org/dc/dcmitype/Image>,

<http://purl.org/dc/dcmitype/Text>.

Eagerly awaiting MovingImage and StillImage!

dc:source, cc:derivativeWork

A Work that the resource was derived from.

cc:license

A copyright license for the resource, a structured cc:License. If there are two cc:licenses, then the licensee gets to pick which to use.

cc:Agent, cc:License

An agent is a person or thing that does stuff!

*Agents and Licenses may be also be described using
Dublin Core elements.*

cc:License

- *Permissions - rights granted by the license.*
- *Prohibitions - things prohibited by the license.*
- *Requirements - restriction imposed by the license.*

License Permissions

Reproduction

the work may be reproduced

Distribution

the work (and, if authorized, derivative works) may be distributed, publicly displayed, and publicly performed

Derivative Works

derivative works may be created and reproduced

License Prohibitions

CommercialUse

rights may not be exercised for commercial purposes

License Requirements

Notice

copyright and license notices must be kept intact

Attribution

credit must be given to copyright holder and/or author

ShareAlike

derivative works, if authorized, must be licensed under the same terms as the work

License Metadata Disclaimer

Note: these characteristics are advisory only. They are designed to describe the characteristics of a license; they are not themselves a license. For the specific implementation of each characteristic, as well as other details which may not be encoded in the RDF, you must consult the text of the actual license. A license should always be linked from these metadata terms.

Creative Commons Metadata Example (1)

<rdf:RDF xmlns="http://web.resource.org/cc/" (again)

xmlns:dc="http://purl.org/dc/elements/1.1/"

xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#">

<Work rdf:about="http://mirrors.creativecommons.org/dc2003/">

<dc:title>Dublin Core 2003 Tutorial: Creative Commons Digital Rights Description</dc:title>

<dc:date>2003-10-01</dc:date>

<dc:description>Slides and audio recording from Creative Commons tutorial presented at Dublin Core 2003.</dc:description>

<dc:creator><Agent>

<dc:title>Mike Linksvayer</dc:title>

</Agent></dc:creator>

<dc:type rdf:resource="http://purl.org/dc/dcmitype/Text" />

<dc:type rdf:resource="http://purl.org/dc/dcmitype/Sound" />

<license rdf:resource="http://creativecommons.org/licenses/by/1.0/" />

</Work>

<License rdf:about="http://creativecommons.org/licenses/by/1.0/">

<permits rdf:resource="http://web.resource.org/cc/Reproduction" />

<permits rdf:resource="http://web.resource.org/cc/Distribution" />

<requires rdf:resource="http://web.resource.org/cc/Notice" />

<requires rdf:resource="http://web.resource.org/cc/Attribution" />

<permits rdf:resource="http://web.resource.org/cc/DerivativeWorks" />

</License>

</rdf:RDF>

cc: “Controversy”

- *dc:rights*
- *cc:License metadata included*
- *RDF in HTML*

Creative Commons is not a metadata standards organization. We are committed to cooperating with DCMI and other communities. Our interest is in leveraging metadata to make our licenses more useful, not in leveraging our licenses to influence metadata standards.

dc:rights (Creative Commons)

The cc:Agent who holds the copyright on the resource.

```
<rdf:Description>  
  <dc:date>2002</dc:date>  
  <cc:license rdf:resource="http://flf.org/licenses/whiteHouseLawn" />  
  <dc:rights><Agent>  
    <dc:title>Gnomovision Records</dc:title>  
  </Agent></dc:rights>  
</rdf:Description>
```

dc:rights (DCMI Metadata Terms)

Information about rights held in and over the resource.

Typical use:

```
<rdf:Description>
```

```
  <dc:rights>(C) 2002 Gnomovision Records. All rights reserved.</dc:rights>
```

```
</rdf:Description>
```

Or a structured version thereof.

cc:License metadata included

```
<rdf:RDF xmlns="http://web.resource.org/cc/"
  xmlns:dc="http://purl.org/dc/elements/1.1/"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#">

  <Work rdf:about="http://mirrors.creativecommons.org/dc2003/">
    <dc:title>Dublin Core 2003 Tutorial: Creative Commons Digital Rights Description</dc:title>
    <dc:date>2003-10-01</dc:date>
    <dc:description>Slides and audio recording from Creative Commons tutorial presented at Dublin Core
      2003.</dc:description>
    <dc:creator><Agent>
      <dc:title>Mike Linksvayer</dc:title>
    </Agent></dc:creator>
    <dc:type rdf:resource="http://purl.org/dc/dcmitype/Text" />
    <dc:type rdf:resource="http://purl.org/dc/dcmitype/Sound" />
    <license rdf:resource="http://creativecommons.org/licenses/by/1.0/" />
  </Work>

  <License rdf:about="http://creativecommons.org/licenses/by/1.0/">
    <permits rdf:resource="http://web.resource.org/cc/Reproduction" />
    <permits rdf:resource="http://web.resource.org/cc/Distribution" />
    <requires rdf:resource="http://web.resource.org/cc/Notice" />
    <requires rdf:resource="http://web.resource.org/cc/Attribution" />
    <permits rdf:resource="http://web.resource.org/cc/DerivativeWorks" />
  </License>
</rdf:RDF>
```

RDF in HTML comments

```
<a href="http://creativecommons.org/licenses/by/1.0/"></a><br />
```

This work is licensed under a

```
<a href="http://creativecommons.org/licenses/by/1.0/">Creative Commons License</a>.
```

```
<!--
```

```
<rdf:RDF xmlns="http://web.resource.org/cc/"
  xmlns:dc="http://purl.org/dc/elements/1.1/"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#">
<Work rdf:about="">
  <license rdf:resource="http://creativecommons.org/licenses/by/1.0/" />
</Work>
```

```
<License rdf:about="http://creativecommons.org/licenses/by/1.0/">
  <permits rdf:resource="http://web.resource.org/cc/Reproduction" />
  <permits rdf:resource="http://web.resource.org/cc/Distribution" />
  <requires rdf:resource="http://web.resource.org/cc/Notice" />
  <requires rdf:resource="http://web.resource.org/cc/Attribution" />
  <permits rdf:resource="http://web.resource.org/cc/DerivativeWorks" />
</License>
```

```
</rdf:RDF>
```

```
-->
```

RDF in HTML comments (2)

- *Zero cost to user - copies metadata with HTML for license button*
- *RDF*
- *Validates (HTML ok)*

Versus


- *LINK*
- *META*
- *Syntactic Inclusion (Holy Grail)*

Metadata Adoption - Quantity and Quality

- *Get the user to create good metadata without knowing it, or feeling the pain - as a side effect of other tasks. Example: Creative Commons License Selection*
- *Let other users (“fans”) create good metadata. Examples: Amazon book reviews, Bitzi, IMDB, MusicBrainz, Open Directory Project*

Creative Commons License Selection Demo

<http://creativecommons.org/license/>

powered by Google

[home](#) [news](#) [faq](#) [learn more](#) [projects](#) [discuss](#) **[choose license](#)**


step 1
choose license


step 2
review choice

step 3
mark content

step 4
publicize

Or Choose:

 [Public Domain](#)

 [Founders' Copyright](#)

Choose License

With a Creative Commons license, people [can copy and distribute your work](#), but only on the conditions you specify here. Do you want to:

Require attribution? ([more info](#) ⓘ)

Yes

No

Allow commercial uses of your work? ([more info](#) ⓘ)

Yes

No

Allow modifications of your work? ([more info](#) ⓘ)

Yes

Yes, as long as others share alike ([more info](#) ⓘ)

No

Tell us the format of your work:

[Click to include more information about your work.](#)

Creative Commons Web Application Integration

Facilitate Creative Commons license selection at other sites, in other applications.

- *Almost no programming*
- *Branding with custom image, stylesheet*
- *Always get the freshest licenses*

Creative Commons Metadata-aware Search

Kludges:

- *AlltheWeb* - music link:<http://creativecommons.org/licenses>
- *Google* - music “creative commons”

We want:

A web scale search engine that allows license filtering of results, and displays license properties in results.

Substitute any useful metadata for “license” above!

Creative Commons Metadata & OAI

- *Project RoMEO (Rights Metadata for Open archiving) has done some initial work.*
- *Creative Commons participation on OAI-RIGHTS committee.*

Creative Commons Metadata & OAI (2)

Creative Commons RDF (Project RoMEO)

```
<header>
<identifier>oai:brill:1234567</identifier>
<timestamp>2003-06-09</timestamp>
</header>
<metadata>
<oai_cc:cc
  xmlns:cc="http://creativecommons.org/metadata/schema/"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemalocation="http://creativecommons.org/metadata/schema/
http://creativecommons.org/metadata/schema/cclicences.xsd">
  <cc:license rdf:about="http://creativecommons.org/licenses/by-nd-nc/1.0">
    <cc:permits rdf:resource="http://web.resource.org/cc/Reproduction" />
    <cc:permits rdf:resource="http://web.resource.org/cc/Distribution" />
    <cc:requires rdf:resource="http://web.resource.org/cc/Notice" />
    <cc:requires rdf:resource="http://web.resource.org/cc/Attribution" />
    <cc:prohibits rdf:resource="http://web.resource.org/cc/CommercialUse"
  />
  </cc:license>
</oai_cc:cc>
</metadata>
```

Creative Commons Metadata & OAI (3)

Creative Commons ODRL (Project RoMEO)

```
<about>
<o-ex:rights xmlns:o-ex="http://odrl.net/1.0/ODRL-EX"
  xmlns:o-dd="http://odrl.net/1.0/ODRL-DD"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://odrl.net/1.0/ODRL-EX
  http://odrl.net/1.0/ODRL-EX.xsd">
<o-ex:offer>
  <o-ex:context>
    <o-dd:uid>http://creativecommons.org/licenses/by/1.0/</o-dd:uid>
    <o-dd:uid>http://www.romeo.ac.uk/odrl-cc-licenses/by/1.0</o-dd:uid>
    <o-dd:name>Creative Commons Attribution Licence</o-dd:name>
    <o-dd:date><fixed>2002-10-10</fixed></ o-dd:date>
  <o-ex:/context>
  <o-ex:permission id="CCPlus">
    <o-dd:display/>
    <o-dd:print/>
    <o-dd:play/>
    <o-dd:excerpt/>
    <o-dd:aggregate/>
    <o-dd:give/>
    <o-dd:duplicate/>
    <o-dd:save/>
    <o-dd:modify/>
  <o-ex:requirement>
    <o-ex:attribution/>
    <o-ex:accept>
      <o-ex:context>
        <o-dd:remark> I agree to use this eprint under the terms
          and conditions stipulated in the Creative Commons licence
          found at http://creativecommons.org/licenses/by/1.0
        </o-dd:remark>
      </o-ex:context>
    </o-ex:accept>
  </o-ex:requirement>
</o-ex:permission>
</o-ex:constraint>
  <o-dd:transferPerm downstream="equal" idref="CCPlus"/>
</ o-ex:constraint>
</o-ex:offer>
</about>
```

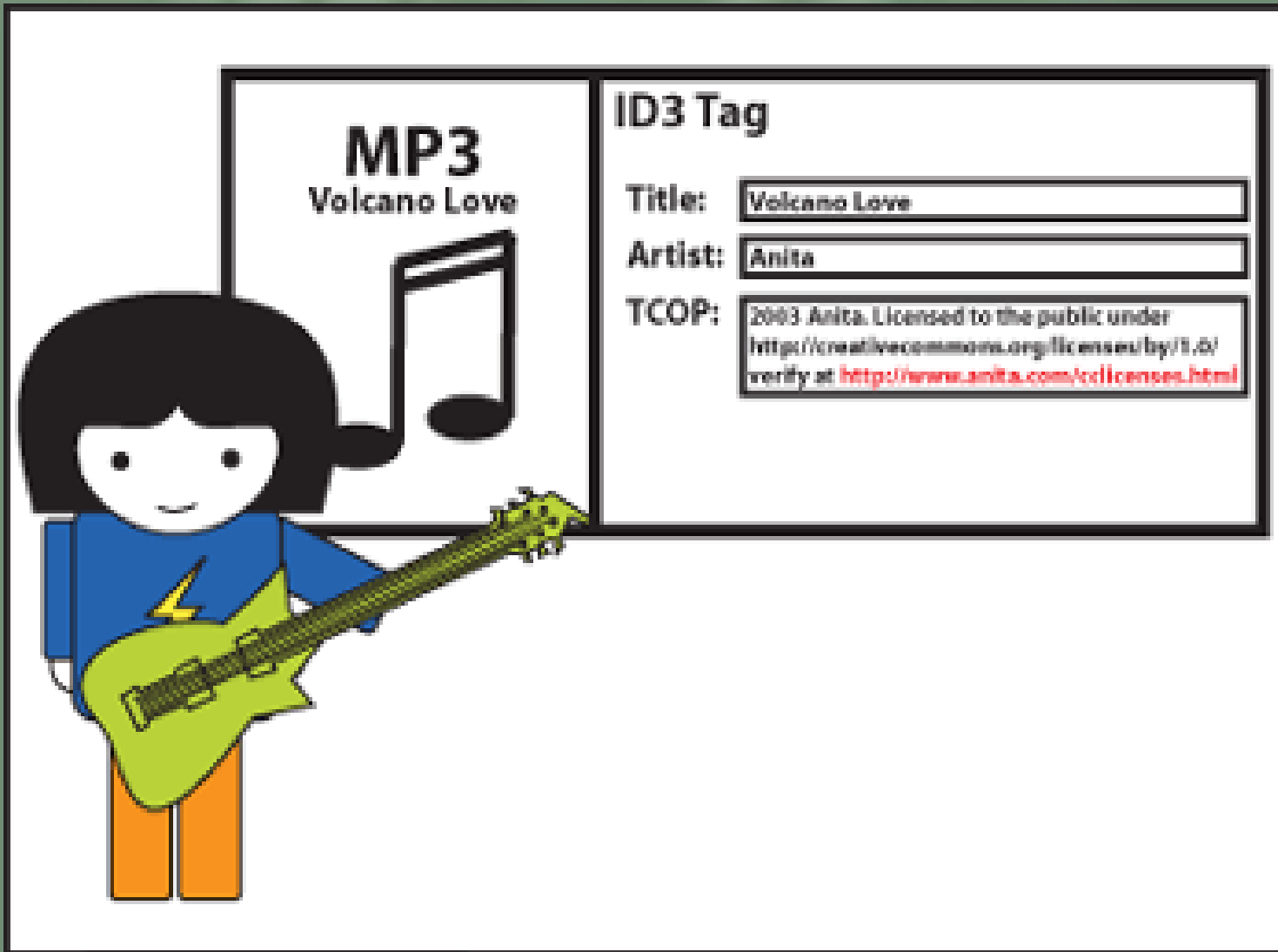
Creative Commons Metadata & P2P

- *Make license information available to P2P applications.*
- *Mechanism for removal of bogus license metadata.*
- *Simple, decentralized.*

Creative Commons Metadata & P2P (Comic 1)



Creative Commons Metadata & P2P (Comic 2)



Creative Commons Metadata & P2P (Comic 3)

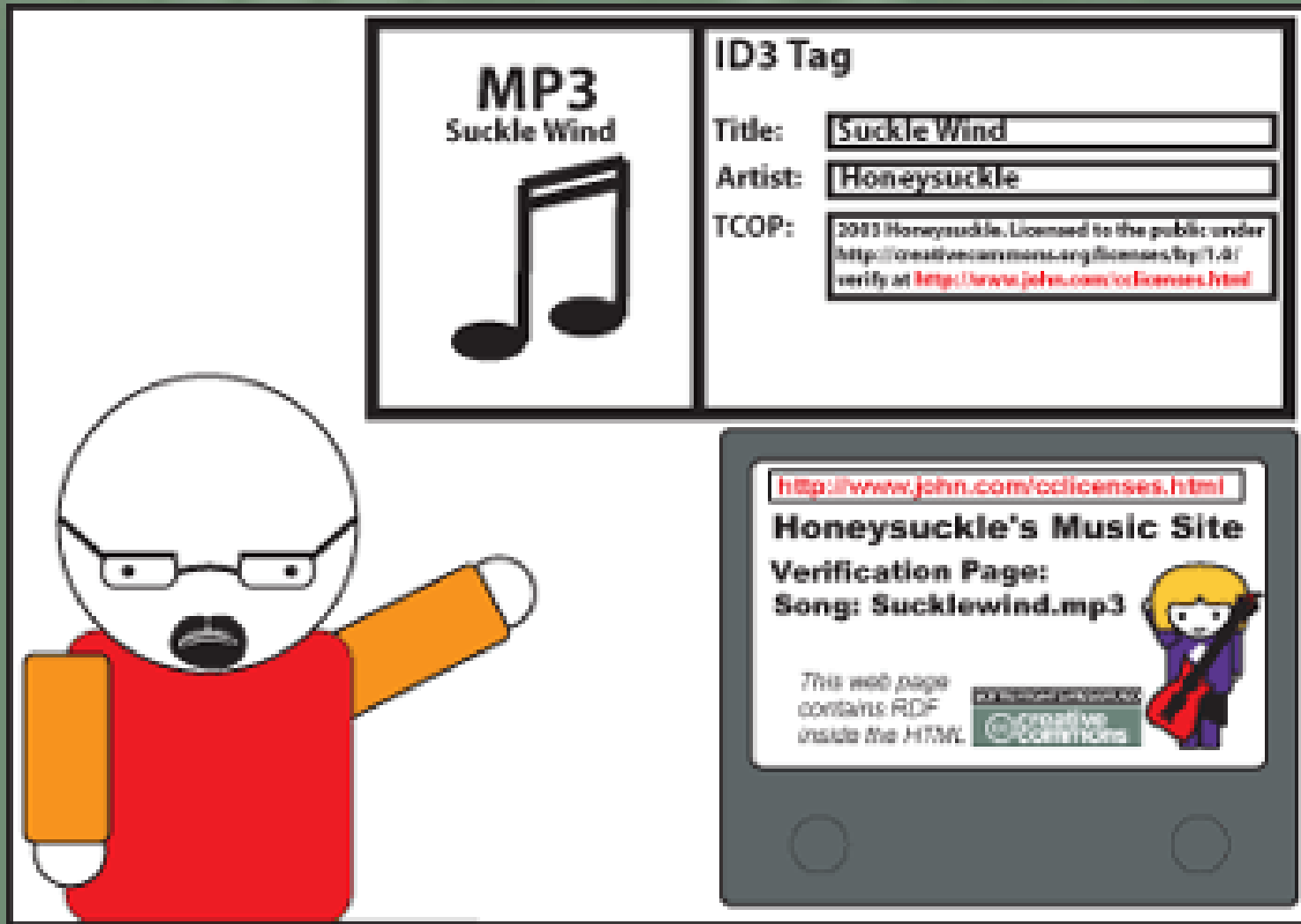


File-Sharing Application


Name	Size	Copyright
Volcano Red	5MB	© All Rights Reserved
Lady Volcano	6MB	© All Rights Reserved
Volcano Love	5MB	cc Some Rights Reserved
Raging Volcano	4MB	© All Rights Reserved
Volcano Blues	8MB	© All Rights Reserved

Search

Creative Commons Metadata & P2P (Takedown 1)



MP3
Suckle Wind



ID3 Tag

Title:


Artist:

TCOP:


<http://www.john.com/cclicenses.html>

Honeysuckle's Music Site

Verification Page:
Song: Sucklewind.mp3



This web page contains RDF inside the HTML.



Creative Commons Metadata & P2P (Takedown 2)



File-Sharing Application

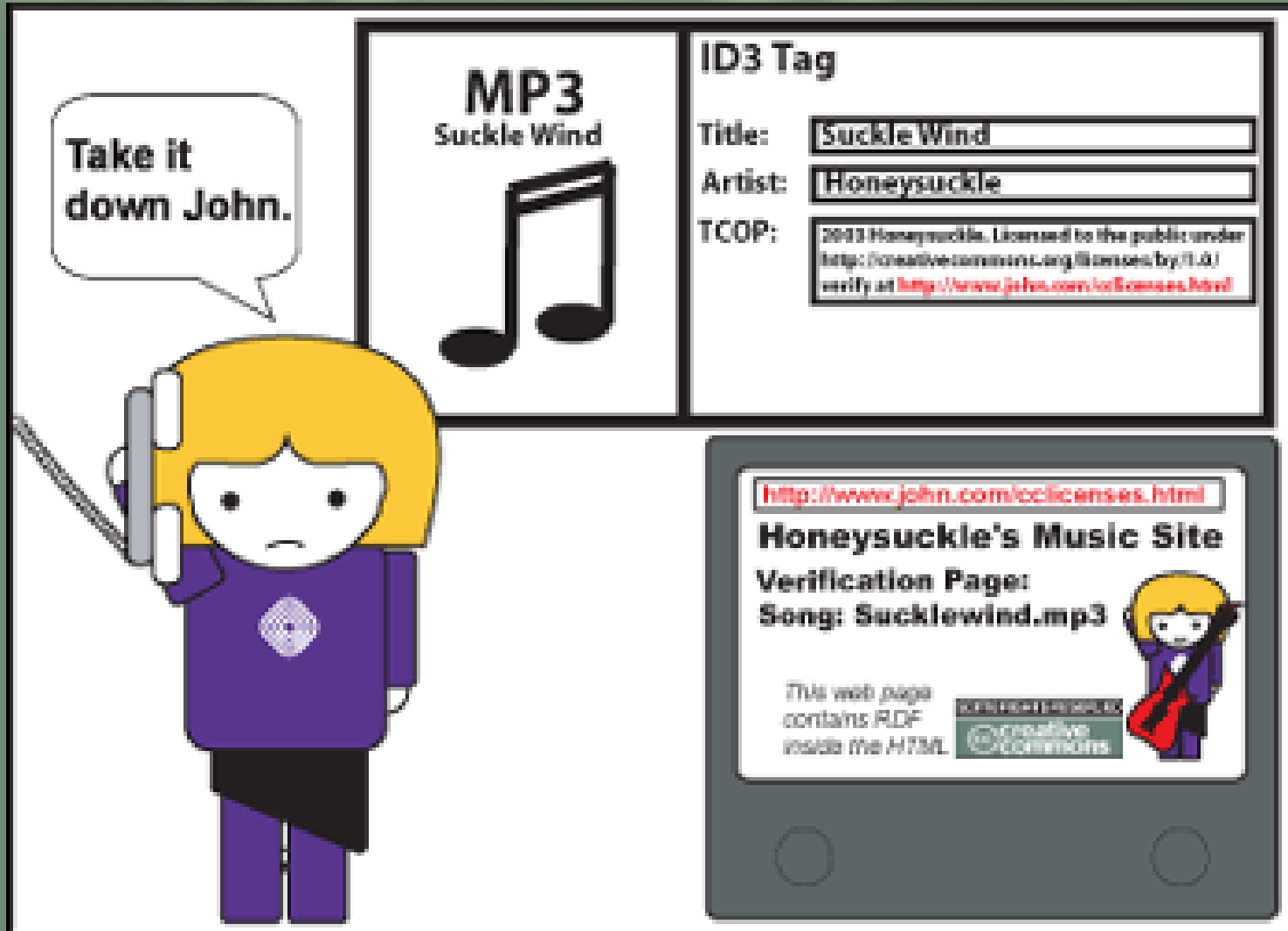
Name	Size	Copyright
No Suckle	5MB	© All Rights Reserved
Super Suckle	6MB	© All Rights Reserved
Suckle Wind	5MB	CC Some Rights Reserved
Bee Suckle	4MB	© All Rights Reserved
Suckle Sea	8MB	© All Rights Reserved



Search

Suckle

Creative Commons Metadata & P2P (Takedown 3)



Creative Commons Metadata & P2P (Takedown 4)



File-Sharing Application

Name	Size	Copyright
No Suckle	5MB	© All Rights Reserved
Super Suckle	6MB	© All Rights Reserved
Suckle Wind	5MB	© All Rights Reserved
Bee Suckle	4MB	© All Rights Reserved
Suckle Sea	8MB	© All Rights Reserved



Search

Creative Commons Metadata & P2P (final)

P2P metadata can be just as trustworthy and accountable as web metadata ... if it's on the web.

Help! (Code Wanted 1)

Developer Aids, Libraries, and Specifications

- *License metadata validation web application.*
- *License claim embedding specifications for more file types.*
- *APIs for Creative Commons license metadata.*

Help! (Code Wanted 2)

Content Creation Applications

- *GUI for embedding license claims in files and generating claim verification RDF.*
- *Build Creative Commons licensing into more content creation applications.*

Help! (Code Wanted 3)

Content Display, Player, and Sharing Applications

- *Browser toolbar or plugin that extracts and displays license metadata embedded in a page.*
- *Media player and file sharing applications that read, verify, and display license claims embedded in files.*

Help! (Code Wanted 4)

License-aware Search Applications

- *Add license search to a major commercial search engine.*
- *Write a custom Creative Commons license-aware search engine.*

Help! (DC2003 Special)

Can your metadata express “some rights reserved”?

Comments, Criticism, Requests for help, collaboration?

Mike Linksvayer

ml@creativecommons.org

cc-metadata

<http://lists.ibiblio.org/mailman/listinfo/cc-metadata>

<http://creativecommons.org>

SOME RIGHTS RESERVED



These slides are licensed under the Creative Commons Attribution license

<<http://creativecommons.org/licenses/by/1.0/>>.