3.0 > 2.0

Deploying the Semantic Web with ccREL and RDFa



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  rel="license">
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```



Why Machines?

Programs should be able to answer simple questions about licensed works.

- What is the work's license?
- Allows commercial use?
- Are derivative works allowed?
- How do we attribute the work?



Semantic Web



(down with silos!)

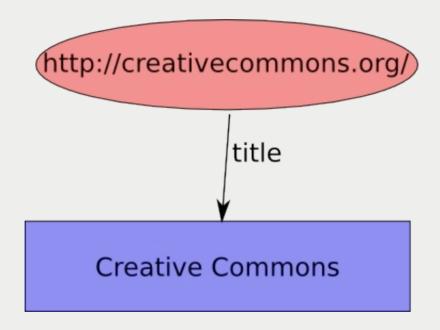


RDF



(subject, predicate, object)







RDF

- Subject and Predicate are URIs
- Object is a URI or Literal



Previous Recommendation



<!-metadata
-->



Pervasive Problems

- Opaque to parsers
- Opaque to humans
- Easy to screw up
- Overly verbose



CC Rights Expression Language



"Compared to the previous recommendation, ccREL is intended to be both easier for content creators and publishers to provide, and more convenient for user communities and tool builders to consume, extend, and redistribute."



Easier to Publish



Principles for HTML Encoding

- independence + extensibility
- Don't Repeat Yourself (DRY)
- Visual Locality
- Remix Friendliness



Microformats



rel="license"



75%?

- Adding Semantics good
- Extensibility
- Process requires existing practices
 - which we don't necessarily have



RDFa



RDFa

- Builds on [X]HTML
- Uses a few attributes (rel, rev, about, href, property, resource) to encode RDF triples in [X]HTML
- Extensible for emerging applications



rel="license"



Principles for Free-Floating Content

- Consistency
- Publisher Accountability
- Simplicity

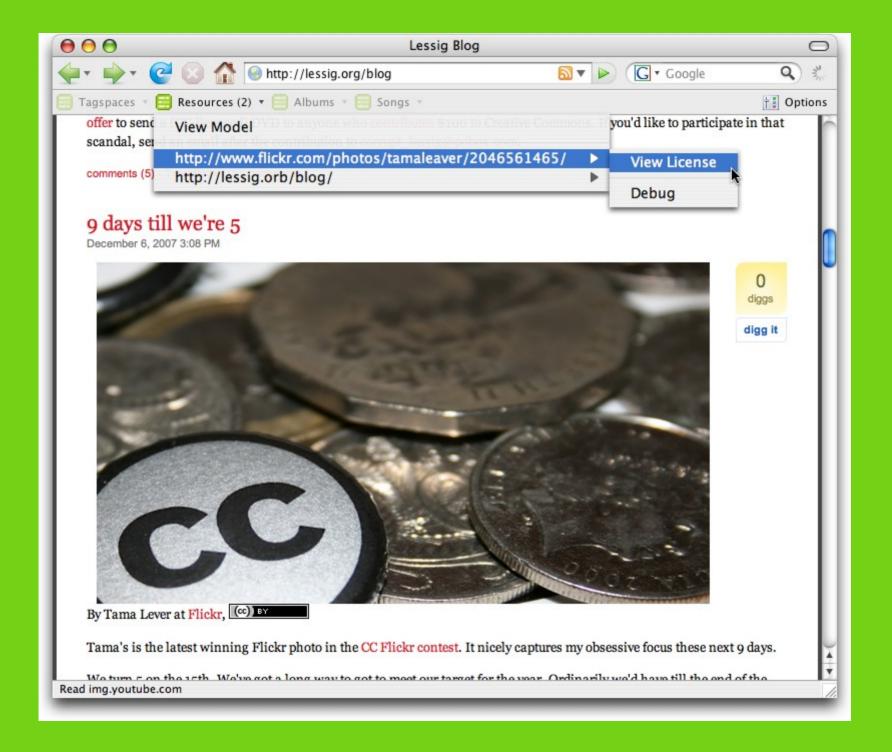


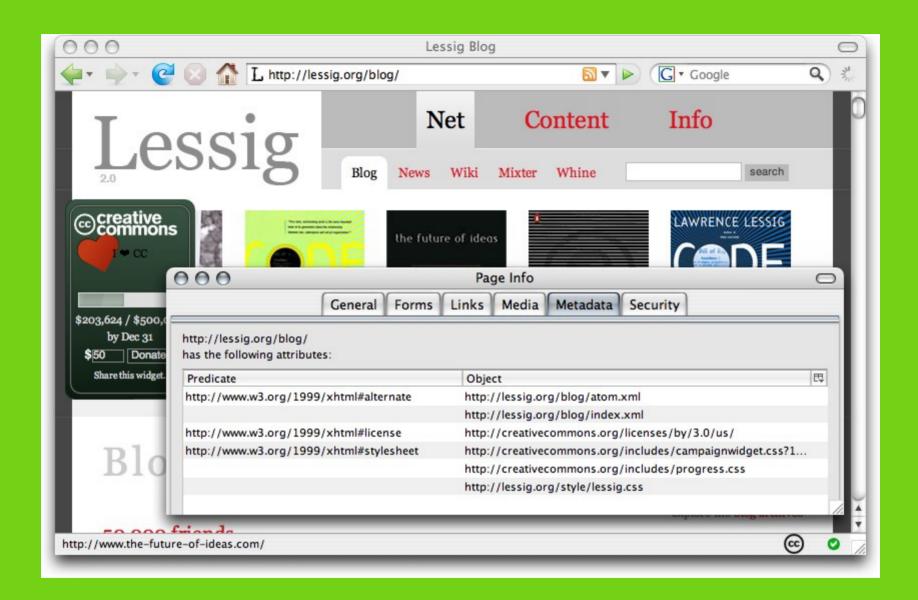
XMP



Easier to Consume and Extend







ccREL: The Vocabulary



License Properties

- permits
- requires
- prohibits
- jurisdiction
- deprecation date
- legal code URL



Work Properties

- title (Dublin Core)
- license
- attribution name and URL
- source work
- CC+ (more permissions)



Applications of ccREL

(and RDF, and the Semantic Web, and RDFa)



CC+

- Where do I go for more permissions?
- CC license + Another Agreement
- In production, with dynamic deeds at CC
- Capable of extension to support complex endpoints



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CC₀

- A "universal" Public Domain waiver
- Currently in community discussion
- To be followed by improved "assertion" tools
 - Communicate provenance information
 - Machine readable metadata to answer simple cases of "why is this in the Public Domain?"



Nathan R. Yergler

Chief Technology Officer
Creative Commons
nathan@creativecommons.org

http://wiki.creativecommons.org/OpenWeb_2008 *

* which utilizes Semantic MediaWiki, another way to build the Semantic Web without knowing it

