Building the CC Network

Nathan R. Yergler (CC)

CC Network

Overview

- Launched October 2008
- A place creators to collect work references
- A platform for digital copyright registry exploration
- Free Software: AGPL 3, available from code.creativecommons.org

Features

- Personalized profile page
- Open ID
- Simple Work Registry

cc

Personal Profile Page

Nathan Y.

Active

Nathan Yergler

http://yergler.net/

SF.CA.US

My CC Story

I've been working with Creative Commons for over four years, first as a software engineer, now as CTO. Problems with the network? Email issues@creativecommons.org.

Works I Have Licensed

The Law of Averages

Includes all works beginning with this URL.

10/07/2008 — (cc) BY-SA

yergler.net

Includes all works beginning with this URL.

10/07/2008 — (cc) BY

Radical Decoupling

10/01/2008 — (cc) BY

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All...

“Confirmed” Name

- Taken from PayPal Transaction
- Licensing claims are about claiming ownership
- Legal “tools” can deal with false claims
  - But depend on knowing who made the claim
- Initial step towards adding trust in claimants identity

“Confirmed” Name – Issues

- PayPal is less than perfect with names
  - Particularly if you don't have an account
- What if someone publishes under a pseudonym?
- Changes their name?
- We need a system that supports multiple levels of verification

OpenID

Open ID

- Decentralized way to present credentials
- Designed to help fight “password fatigue”
- Identify yourself using a URL
- But...

cc

Open ID: Issues

- You *must* trust your provider
- Vulnerable to DNS attacks when not conducted over SSL
- Possible phishing vulnerabilities
- Your provider knows lots of information about where you visit and how often

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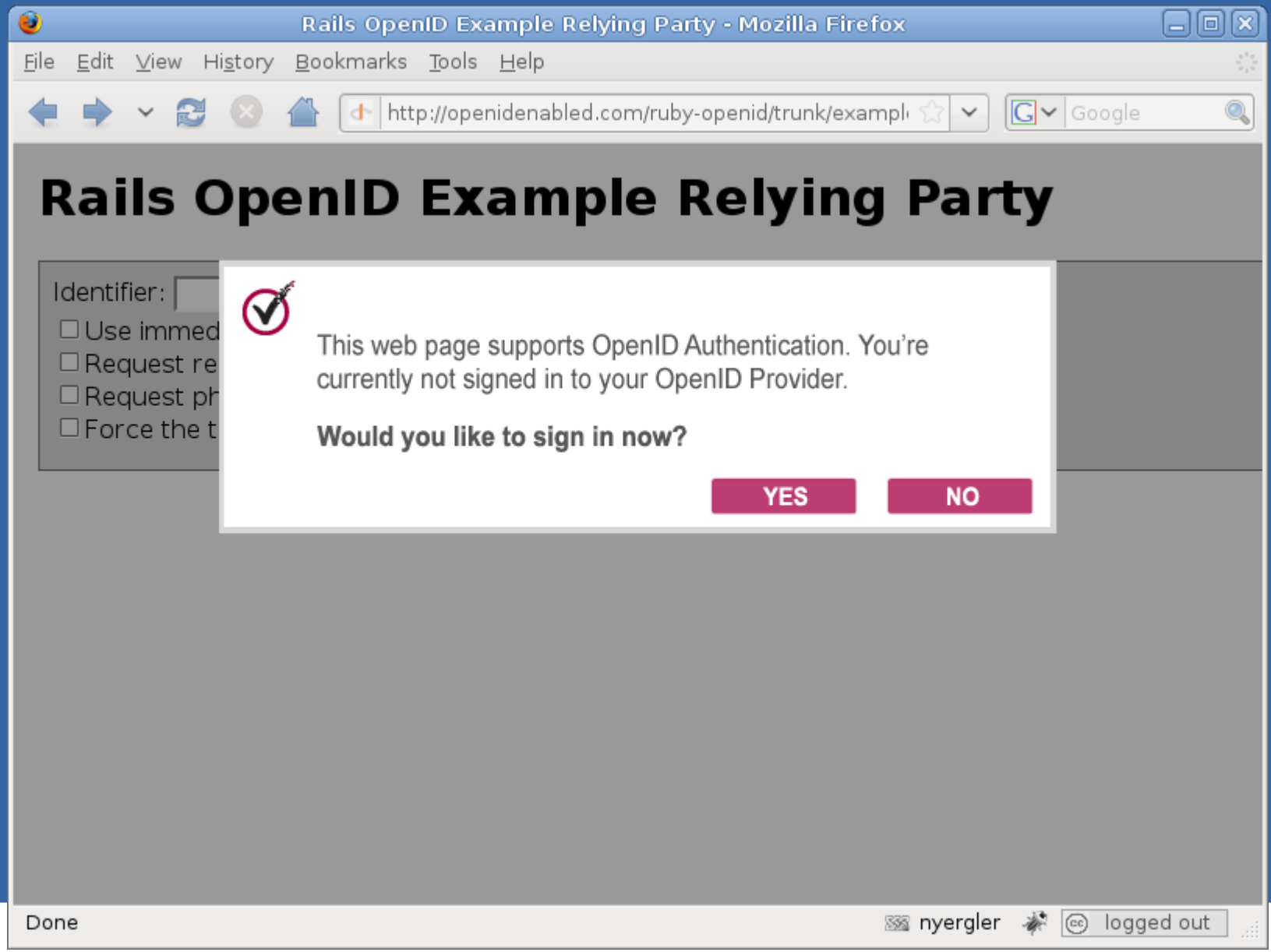
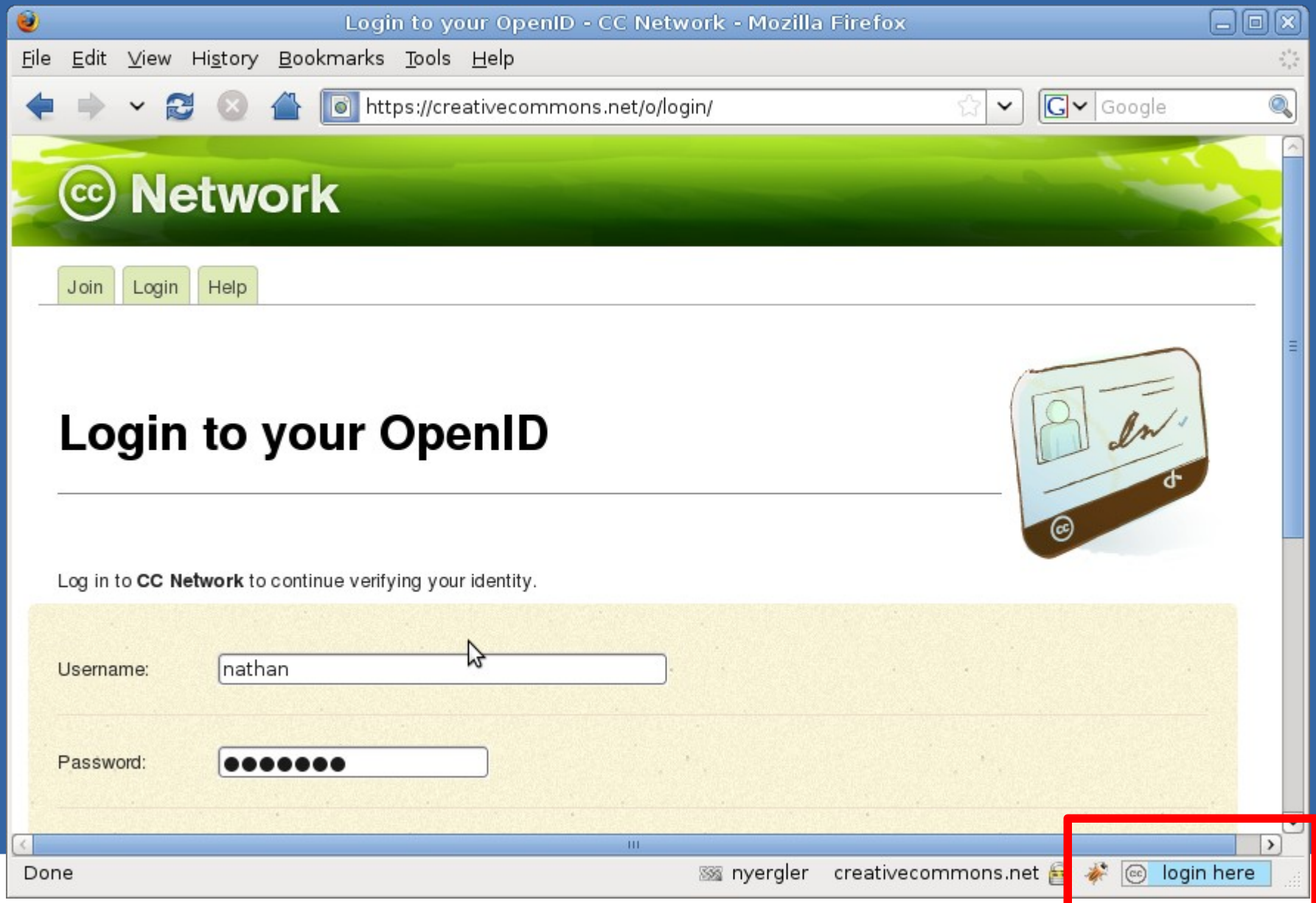
Mitigating Risk

- We only serve requests over SSL
  - Non-SSL requests are currently redirected
- We commit to retaining minimal logging information
  - No 3rd party analytics
  - Minimal log retention
  - No sharing of data unless required by subpoena
- Initial support for Verisign Seatbelt

Verisign Seatbelt



Verisign Seatbelt



Work Registry

Work Registry Overview

- Allows users to “claim” a work
  - Identify works by URL
  - Allows wildcard claiming:
    `http://yergler.net/*`
  - User interface only supports trailing wildcards but uses POWDER-based vocabulary for rich flexibility
- Provides a badge to show CC Network membership

Network

My Profile | Logout | Help

Register Your Work

Work URL

☐ *Register all works beginning with this URL?*

Use this option to register large groups of works that you have created. Note this is only appropriate if you own ***everything*** *starting with this URL.*

Title

License

The URL of the license your work is available under.

Save Cancel

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10/01/2008 — (cc) BY

All...

Network

My Profile | Logout | Help

Edit Profile | OpenID Settings

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Nathan Yergler

http://yergler.net/

SF.CA.US

Place this badge on your website

Network

<a xmlns:sioc="http://rdfs.org/sioc/ns

Use this HTML to embed the badge on your website.

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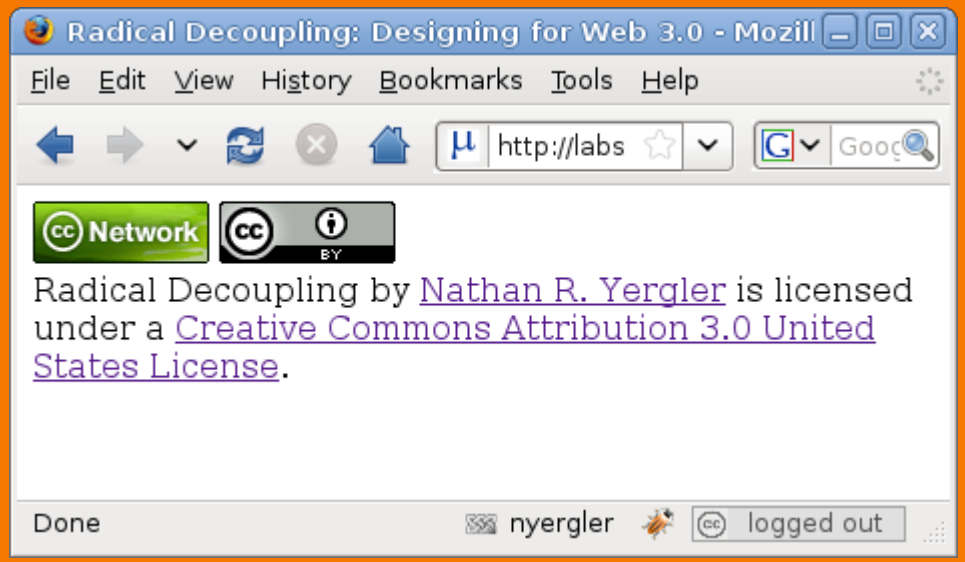
I've been working with Creative Commons for over four years, first as a software engineer, now as CTO. Problems with the network? Email issues@creativecommons.org.

Your OpenID URL

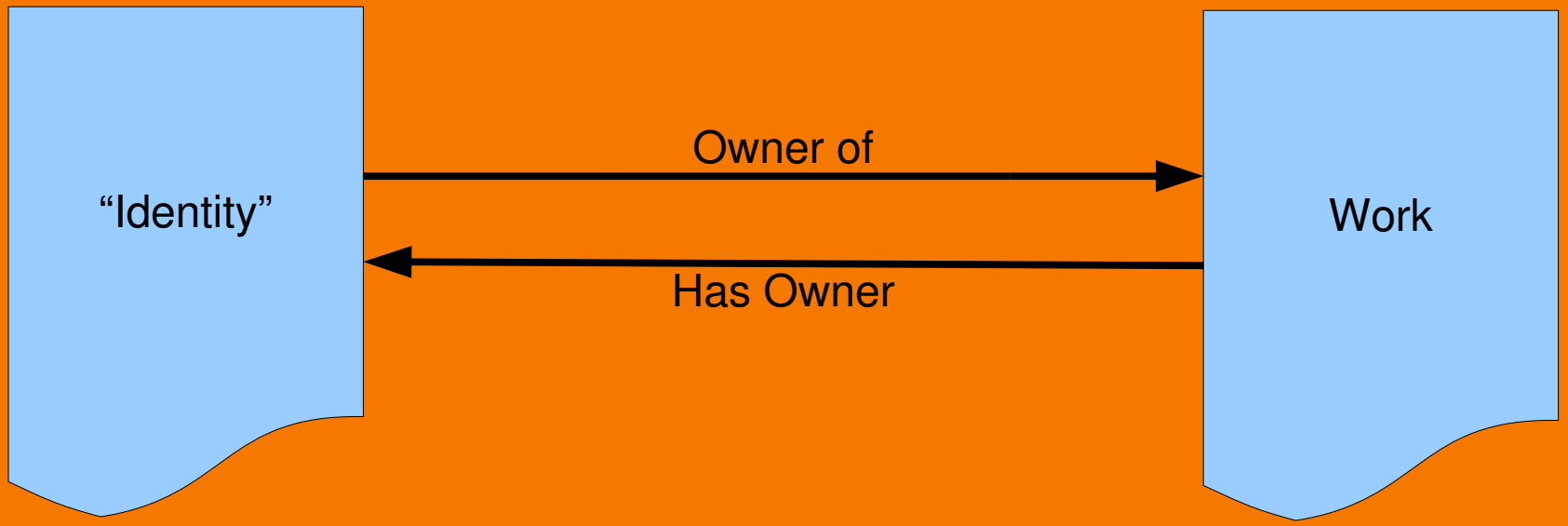
https://creativecommons.net/nathan

Use this URL to log into OpenID enabled sites.

Network + License Badges



Reciprocal Ownership Metadata



CC

creative commons

Attribution 3.0 United States

You are free:

to Share — to copy, distribute, display, and perform the work

to Remix — to make derivative works

Free Cultural APPROVED FOR Works

Under the following conditions:

Attribution. You must attribute this work to **Nathan R. Yergler** (with link).

Attribute this work:

<div xmlns:cc="http://creativecommons.org/ns#" ab

Nathan Yergler has registered **this work** at the **CC Network**.

The Deeds Are The Application

Metadata Instead of Coupling

- Deeds request metadata from the referring page
  - Attribution Information
  - Ownership information
- Certain relationships are traversed
  - rdf:seeAlso
  - sioc:memberOf

Binding Work and Profile

```
<https://creativecommons.net/nathan/>
<http://rdfs.org/sioc/ns#owner_of>
<http://labs.creativecommons.org/
  ~nathan/info/decoupling.html> .


<http://labs.creativecommons.org/
  ~nathan/info/decoupling.html>
<http://rdfs.org/sioc/ns#has_owner>
<https://creativecommons.net/nathan/>
.
```

Creator Identification

```
<https://creativecommons.net/nathan/>
 <http://rdfs.org/sioc/ns#name>
 "Nathan Yergler"@en .

<https://creativecommons.net/nathan/>
<http://rdfs.org/sioc/ns#member_of>
<https://creativecommons.net/> .
```

Registry Identification

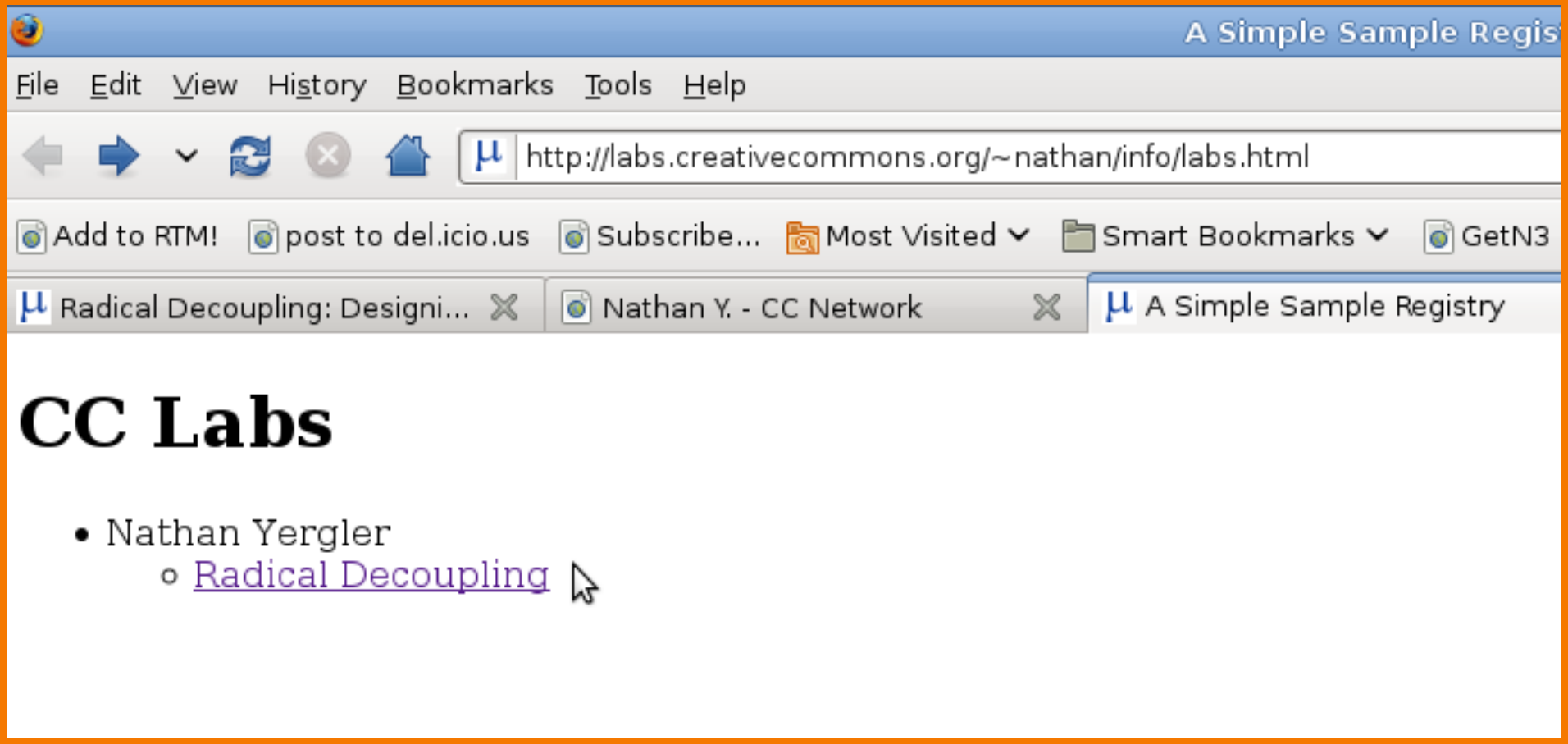
```
<https://creativecommons.net/>
 <http://purl.org/dc/terms/title>
 "CC Network"@en .
```

Service Identification

```
<https://creativecommons.net/>
 <sioc_services#has_service>
<https://creativecommons.net/r/lookup
/> .


<https://creativecommons.net/r/lookup
/>
<http://rdfs.org/sioc/services#servic
e_protocol>
<http://wiki.creativecommons.org/work
-lookup> .
```

Metadata Instead of Coupling



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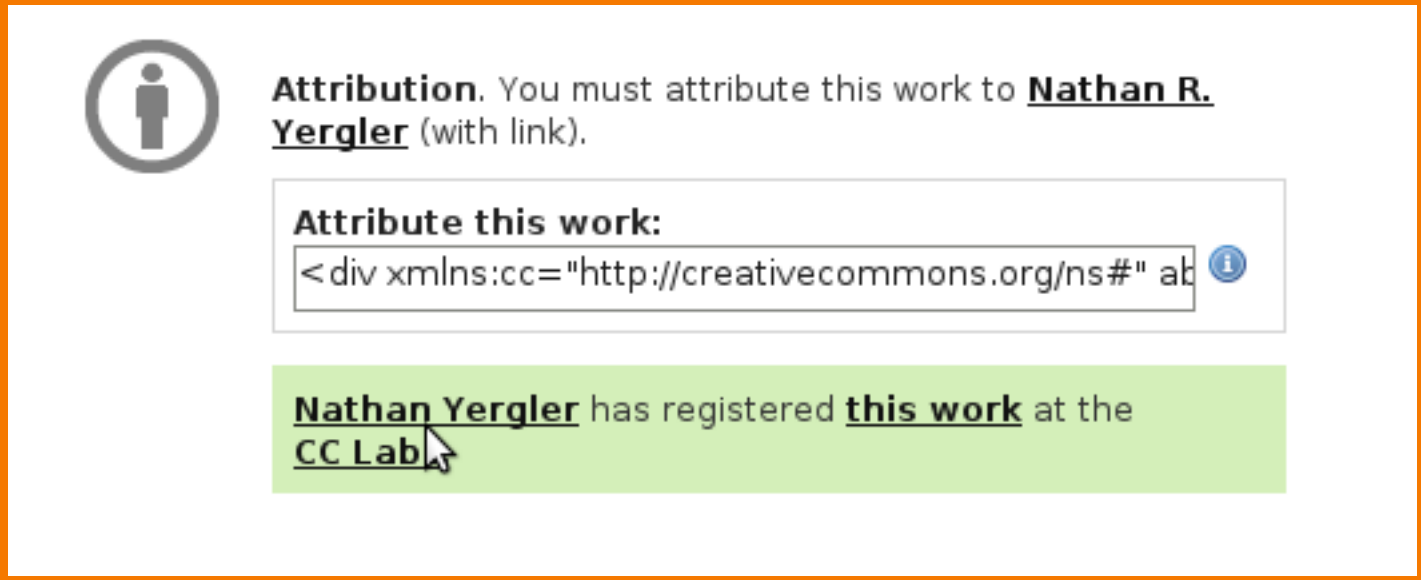

Future Developments

- Better/Different Identity Information
- “Feed” registration
- Follow creators (feeds, etc)
- Contact creators
- Continue to explore registry technology

CC

Nathan R. Yergler

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