Keeping metadata in remixed works

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Metadata in artistic projects

Typical

Ideal
Quick intro to RDF
RDF: Triples

Subject

Predicate

Object
RDF: Triples

Subject: URI
Predicate: URI
Object: URI or value
RDF: Triples

- Subject
- Predicate
- Object
- URI
- URI or value
- Work
- Property
- Property value
RDF: Example

https://flic.kr/p/357

dc:title

"My Photo"

dc: http://purl.org/dc/elements/1.1/
RDF: Example

urn:image1

dc:title

"My Photo"

dc: http://purl.org/dc/elements/1.1/
RDF: Linked data

urn:image1 | dc:title | "Work A"
urn:image1 | dc:source | urn:image2
urn:image2 | dc:title | "Work B"
RDF: Linked data

```
urn:image1 -> dc:title -> "Work A"

urn:image2 -> dc:title -> "Work B"
```
RDF: Linked data

urn:image1 \( \rightarrow \) dc:title \( \rightarrow \) "Work A"

dc:source

urn:source1

urn:source2

urn:source3
RDF: Formats

XML, XMP

```xml
<rdf:RDF
   xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
   xmlns:dc="http://purl.org/dc/elements/1.1/">
   <rdf:Description rdf:about="urn:image1">
     <dc:title>Example Title</dc:title>
     <dc:creator>Bob</dc:creator>
   </rdf:Description>
</rdf:RDF>
```

N3/Turtle

```n3
@prefix dc: <http://purl.org/dc/elements/1.1/> .

<urn:image1>
   dc:title "Example Title" ;
   dc:creator "Bob" .
</urn:image1>
```
Handling metadata in remix cases
Remixing: merging

Image metadata

Layer 1 Metadata

Layer 2 Metadata

???
Remixing: merging

Image metadata

<dc:creator> "Bob"

<dc:creator> "Alice"

<dc:creator> "Alice"
"Bob"
Remixing: merging

- **Image metadata**
- `<cc:license>"CC-BY"</cc:license>`
- `<cc:license>"CC-BY-NC"</cc:license>`
- `<cc:license>???</cc:license>`
Remixing: merging

<urn:layer1>
...

<urn:layer2>
...

<urn:merge-layer>
...
<dc:source>
<urn:image1>
...
<dc:source>
<urn:image2>
Remixing: editing

<Image metadata>

<urn:layer1>
<dc:creator>
"Alice"
</dc:creator>
</urn:layer1>
Remixing: editing

<urn:layer1>
<dc:creator>
"Alice"
Remixing: editing

<urn:layer1>
<dc:creator>
"Alice"
???

Image metadata
Remixing: editing

Image metadata

<urn:layer1>
  <dc:creator>
    "Alice"
    "Bob"
  </dc:creator>
</urn:layer1>
Remixing: editing

Image metadata

<urn:layer2>
  <dc:creator>
    "Bob"
  </dc:creator>
  <dc:source>
    <urn:layer1>
      <dc:creator>
        "Alice"
      </dc:creator>
    </urn:layer1>
  </dc:source>
</urn:layer2>
Remixing: editing

Image metadata

<urn:layer2>
  <dc:creator>
    "Bob"
  </dc:creator>
  <dc:source>
    <urn:layer1>
      <dc:creator>
        "Alice"
      </dc:creator>
    </urn:layer1>
  </dc:source>
</urn:layer2>
Remixing: editing

<urn:layer2>
  <dc:creator>
    "Bob"
  </dc:creator>
  <provenance>
    <urn:layer1>
      <dc:creator>
        "Alice"
      </dc:creator>
    </urn:layer1>
  </provenance>
</urn:layer2>

Image metadata
Remixing: non-destructive edits

- Image metadata
- Layer 1 Metadata
- Layer 1 copy Metadata copy
- Layer 2 Metadata
This approach is suitable for many apps:

Audio editors, movie editors, etc.
librecontext

https://github.com/commonsmachinery

MIT License
Wraps the RDF parts
Exif, XMP support planned
THE END

See you at BOF: Future of Metadata
on Friday, 12:10

Image icon by Andrew Fitzsimon
Painter by nicubunu