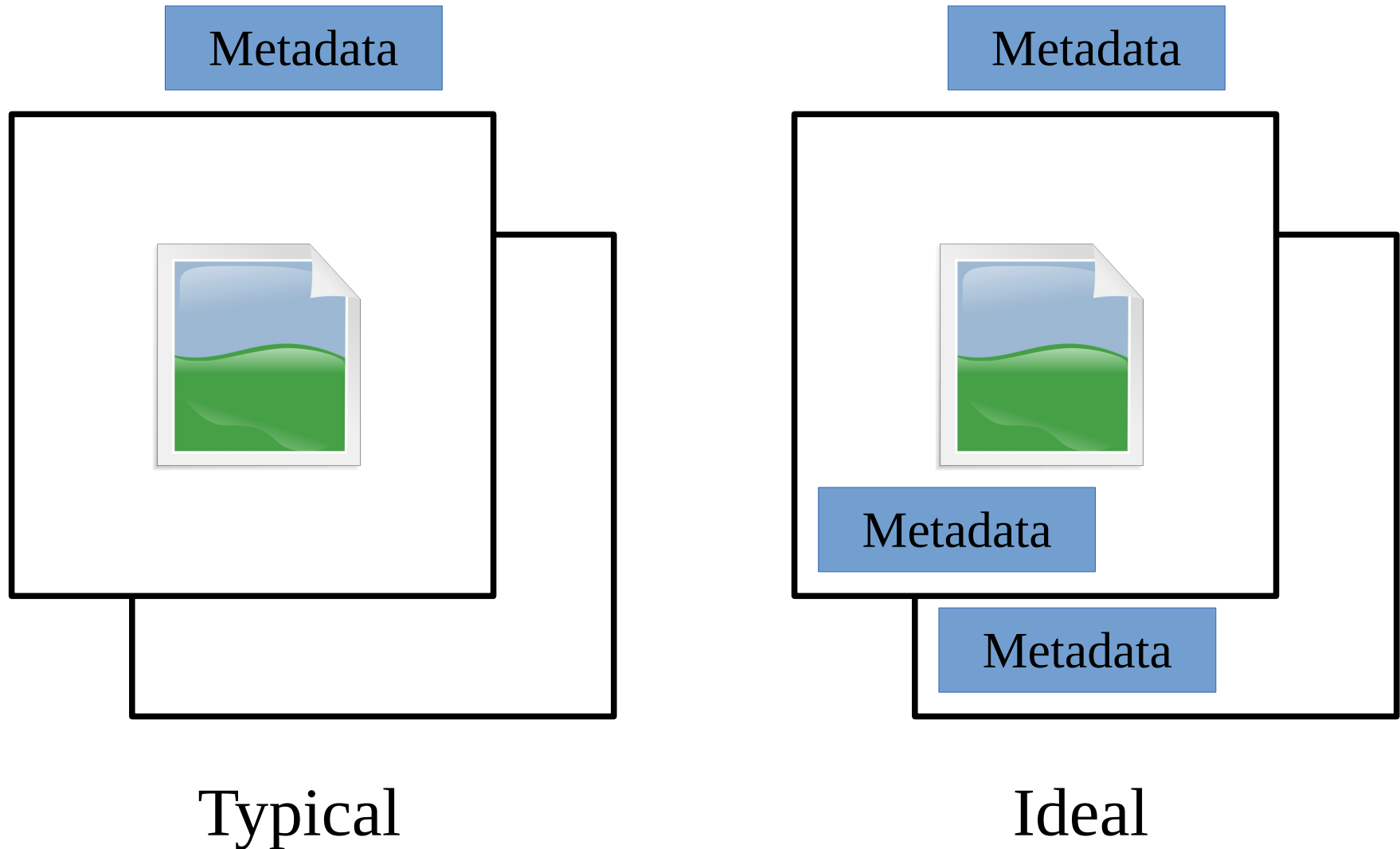


Keeping metadata in remixed works

Artem Popov

Developer at Commons Machinery

Metadata in artistic projects



Quick intro to RDF

RDF: Triples

Subject

Predicate

Object

RDF: Triples

Subject

Predicate

Object

URI

URI

URI or value

RDF: Triples

Subject

Predicate

Object

URI

URI

URI or value

Work

Property

Property value

RDF: Example

<https://flic.kr/p/357>

<http://purl.org/dc/elements/1.1/title>

"My Photo"

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

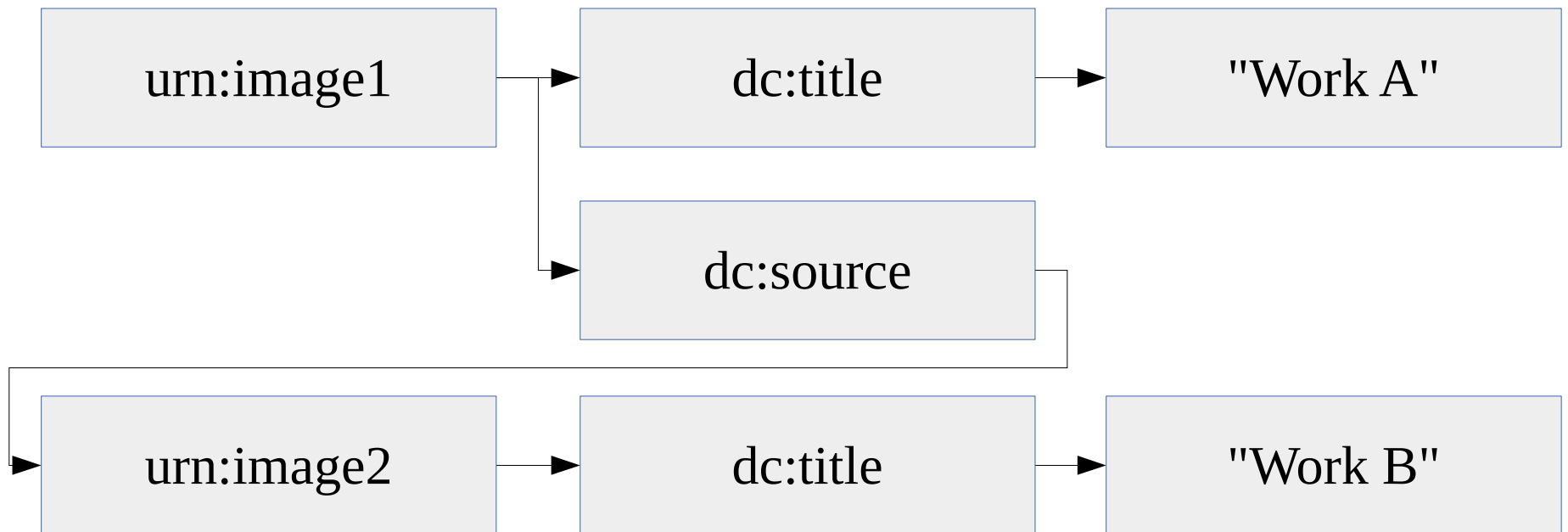
urn:image2

urn:image2

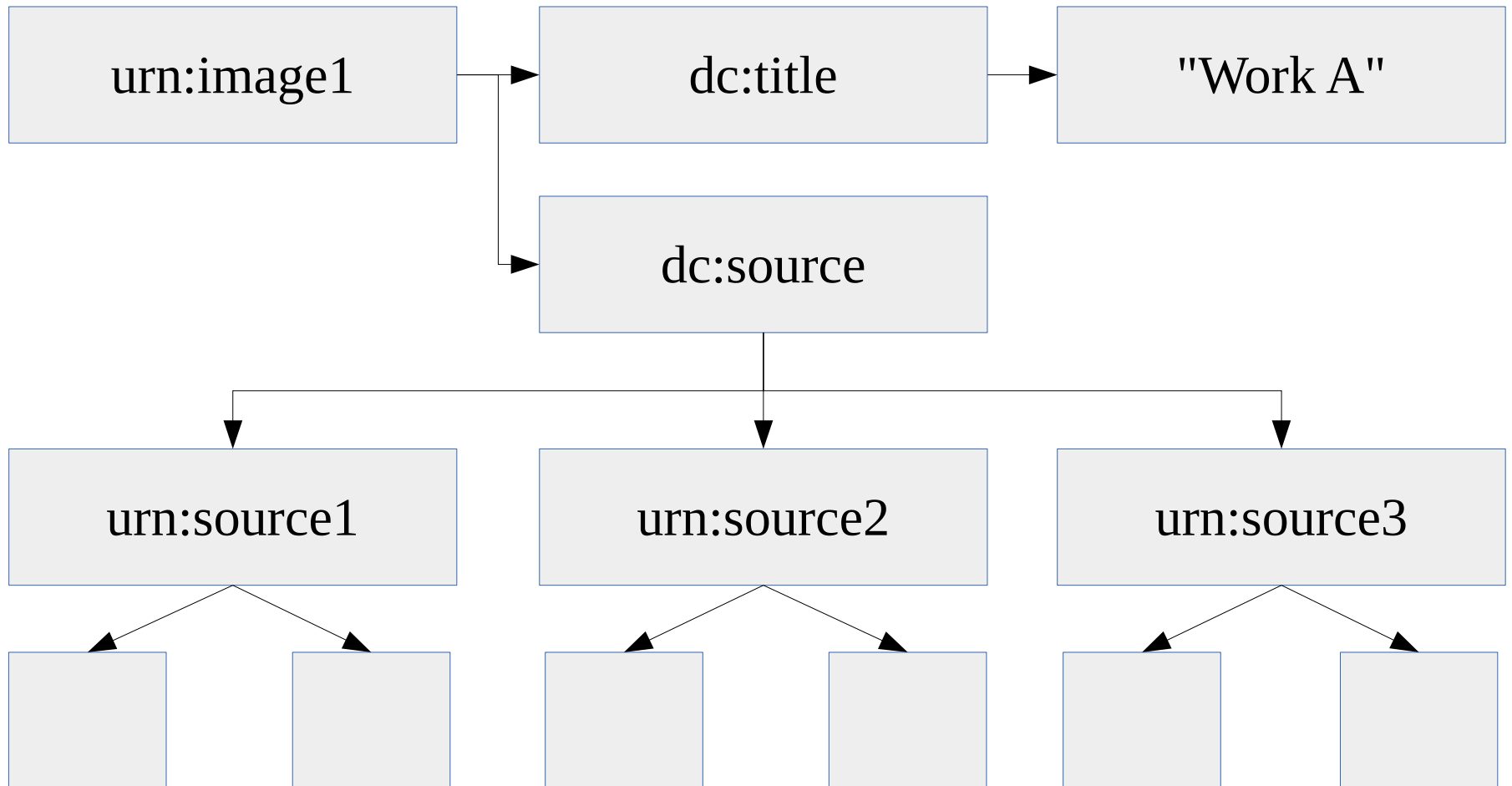
dc:title

"Work B"

RDF: Linked data



RDF: Linked data



RDF: Formats

XML, XMP

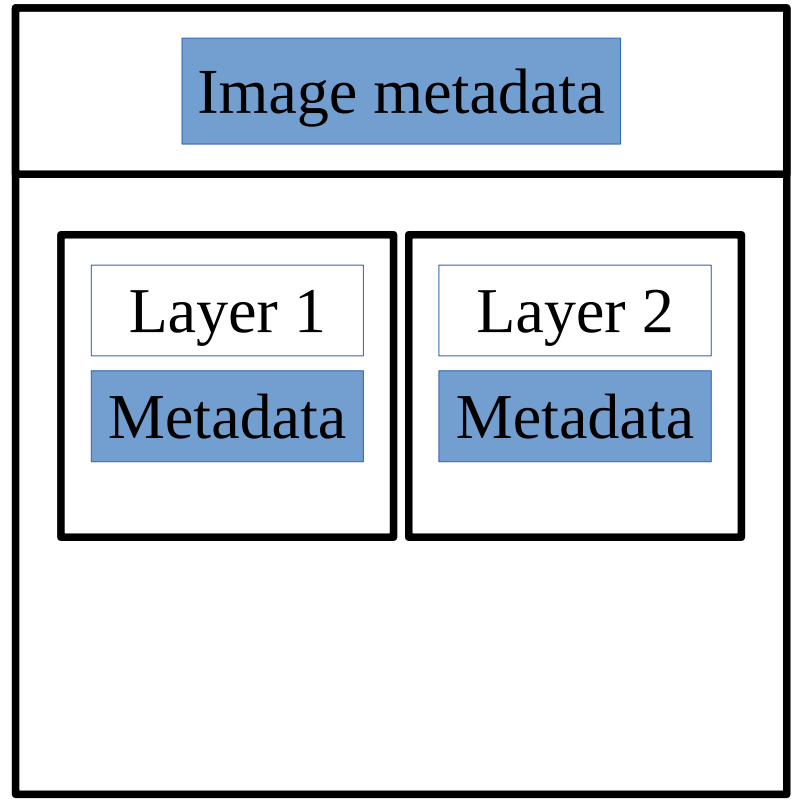
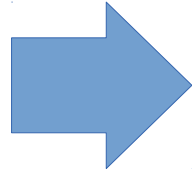
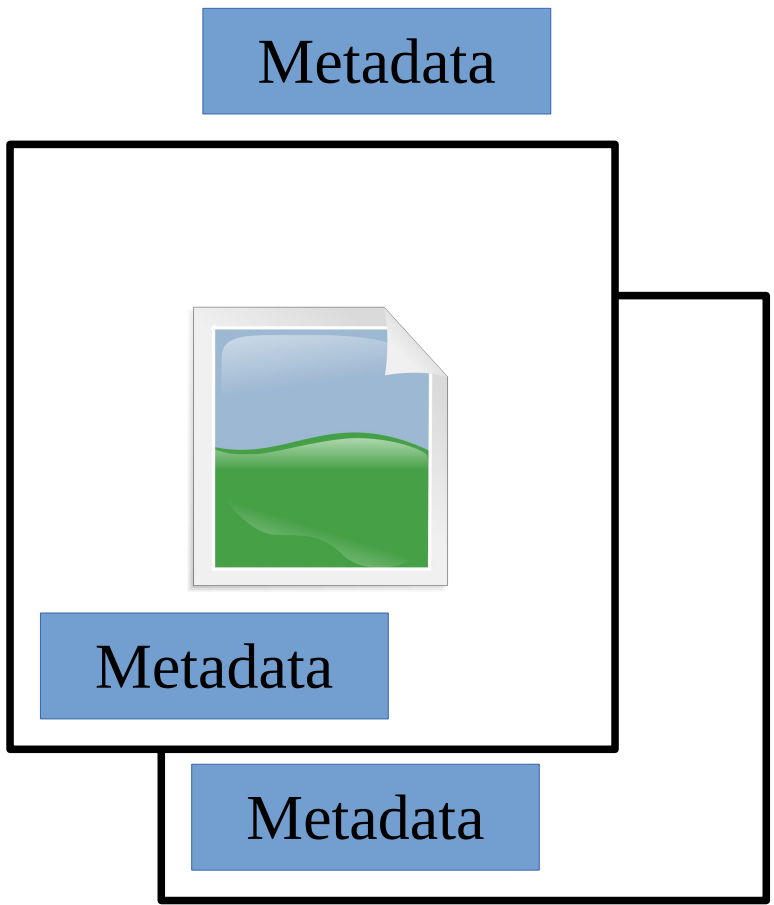
```
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:dc="http://purl.org/dc/elements/1.1/">
  <rdf:Description rdf:about="urn:image1">
    <dc:title>Example Title</dc:title>
    <dc:creator>Bob</dc:creator>
  </rdf:Description>
</rdf:RDF>
```

N3/Turtle

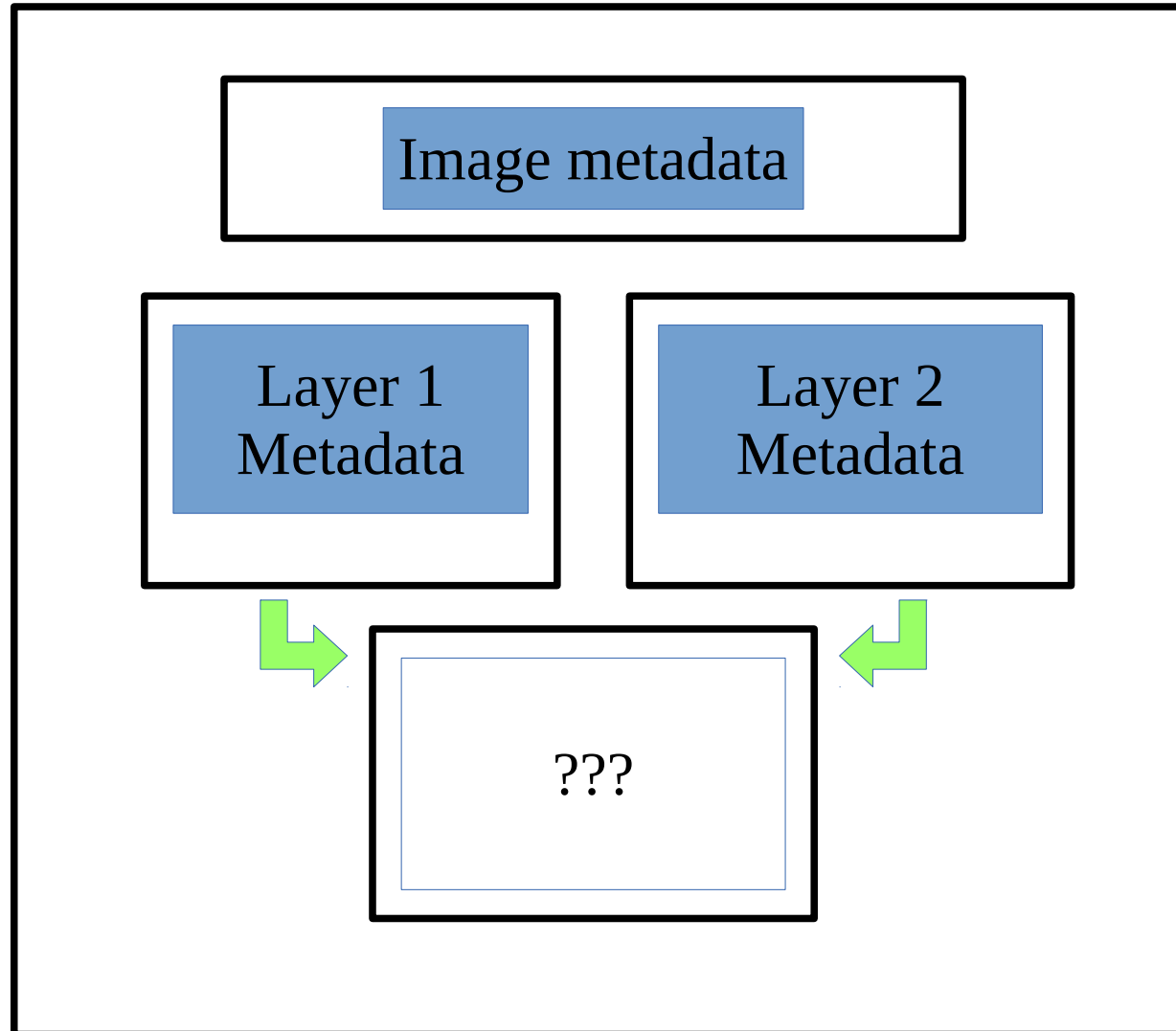
```
@prefix dc: <http://purl.org/dc/elements/1.1/> .

<urn:image1>
  dc:title "Example Title" ;
  dc:creator "Bob" .
```

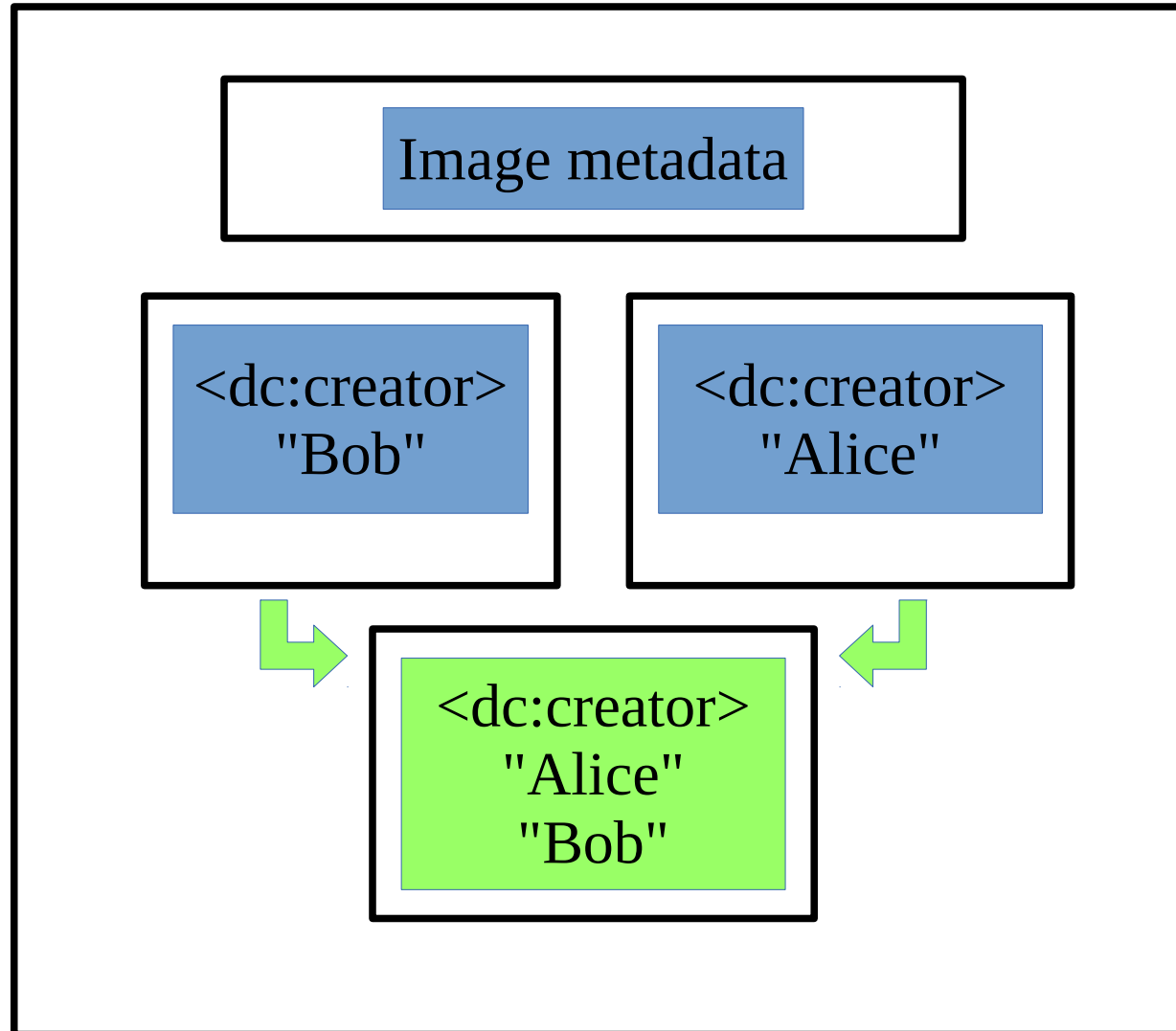
Handling metadata in remix cases



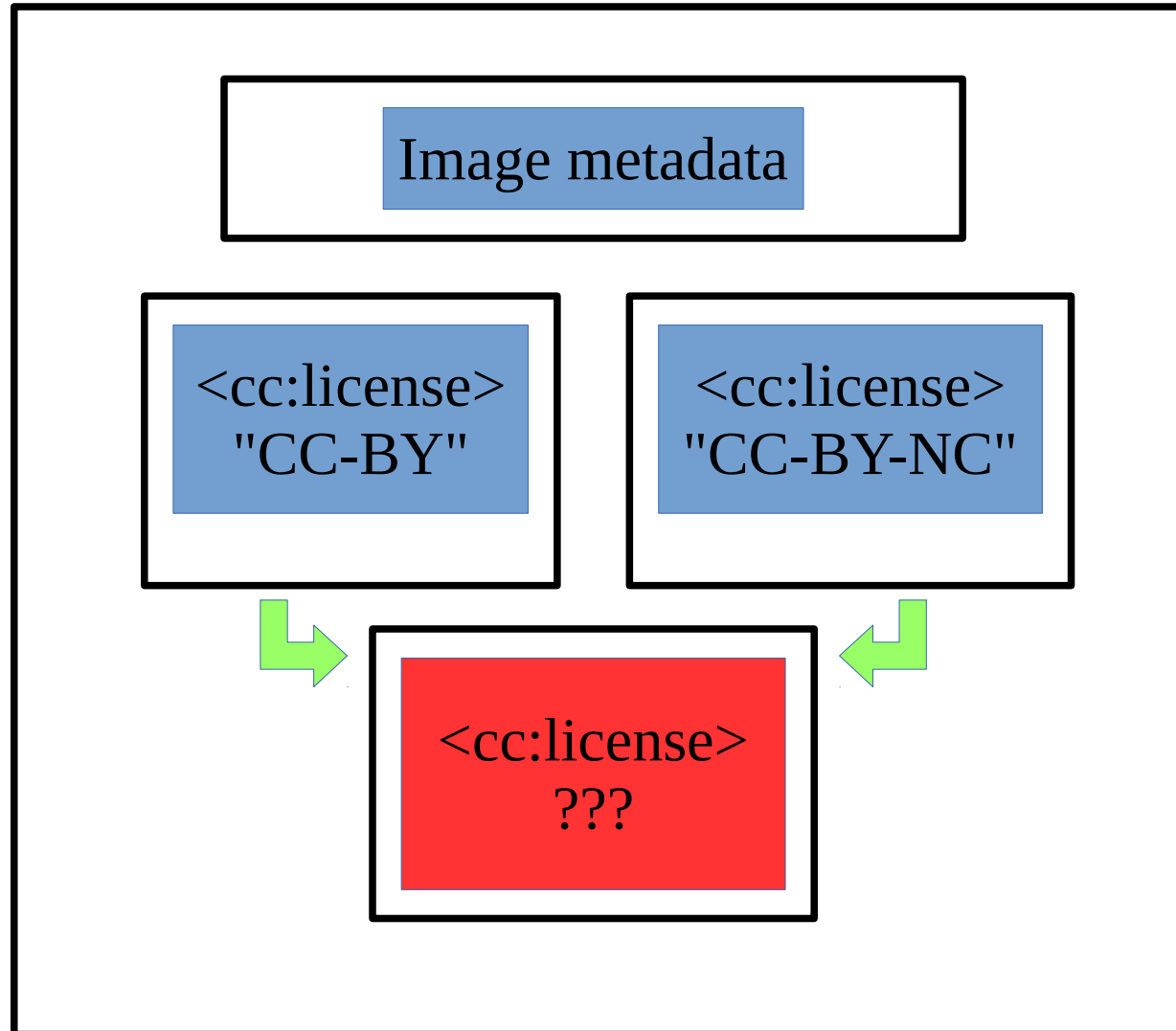
Remixing: merging



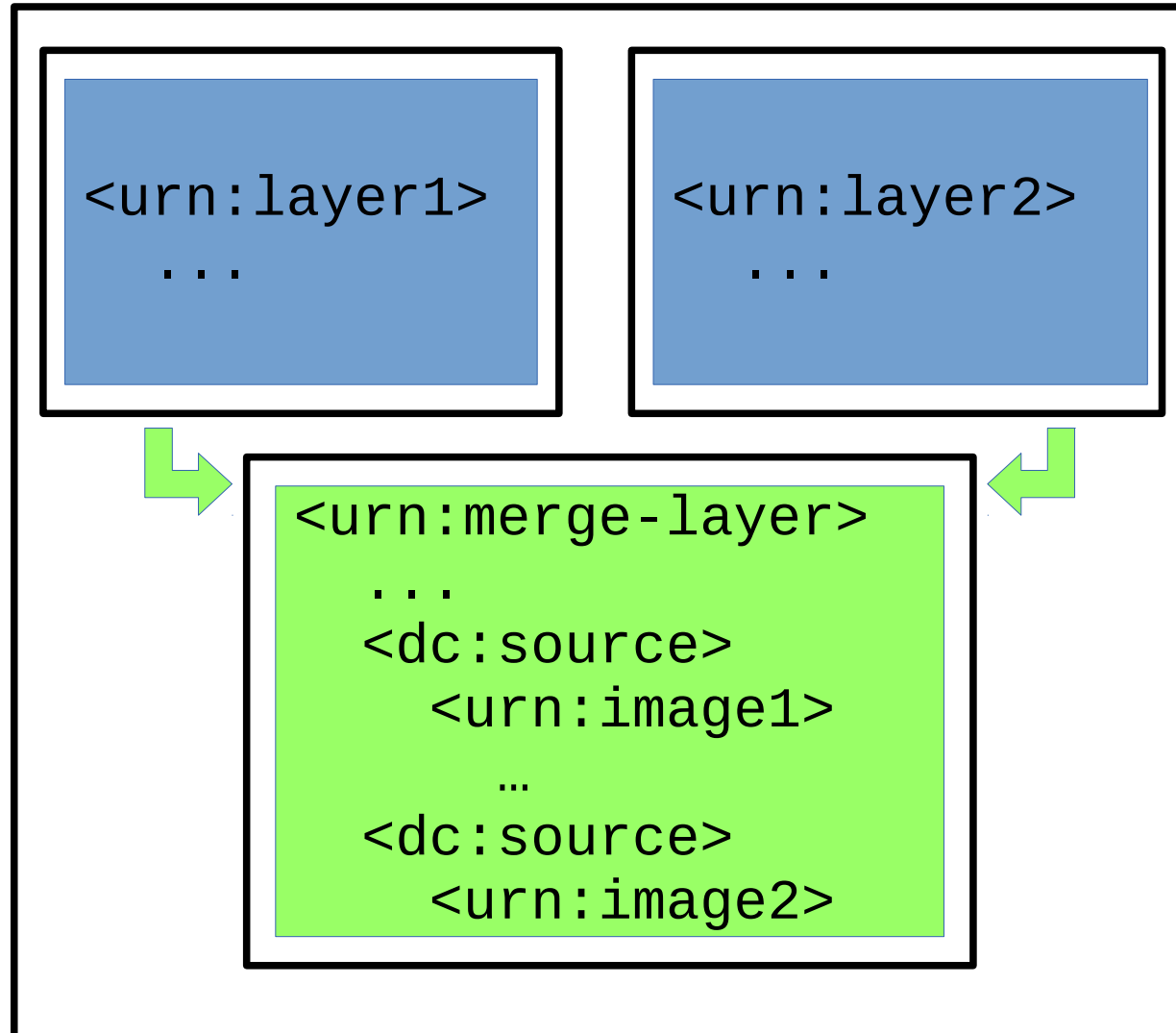
Remixing: merging



Remixing: merging



Remixing: merging

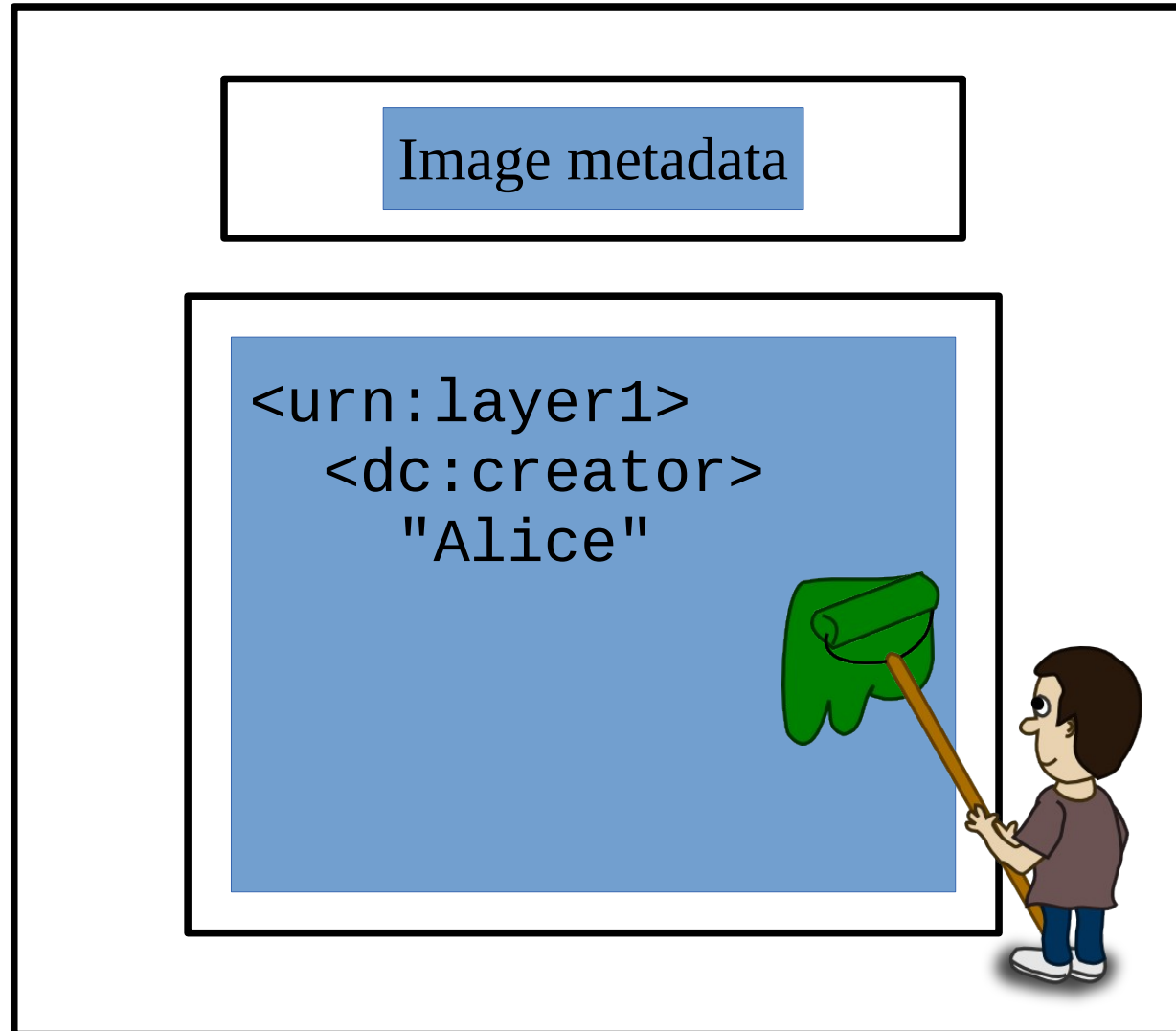


Remixing: editing

Image metadata

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

Remixing: editing



Remixing: editing

Image metadata

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



Remixing: editing

Image metadata


```
<urn:layer1>  
  <dc:creator>  
    "Alice"  
    "Bob"
```



Remixing: editing

Image metadata


```
<urn:layer2>  
  <dc:creator>  
    "Bob"  
  <dc:source>  
    <urn:layer1  
      <dc:creator>  
        "Alice"
```



Remixing: editing

Image metadata


```
<urn:layer2>  
  <dc:creator>  
    "Bob"  
  <dc:source>  
    <urn:layer1>  
      <dc:creator>  
        "Alice"
```



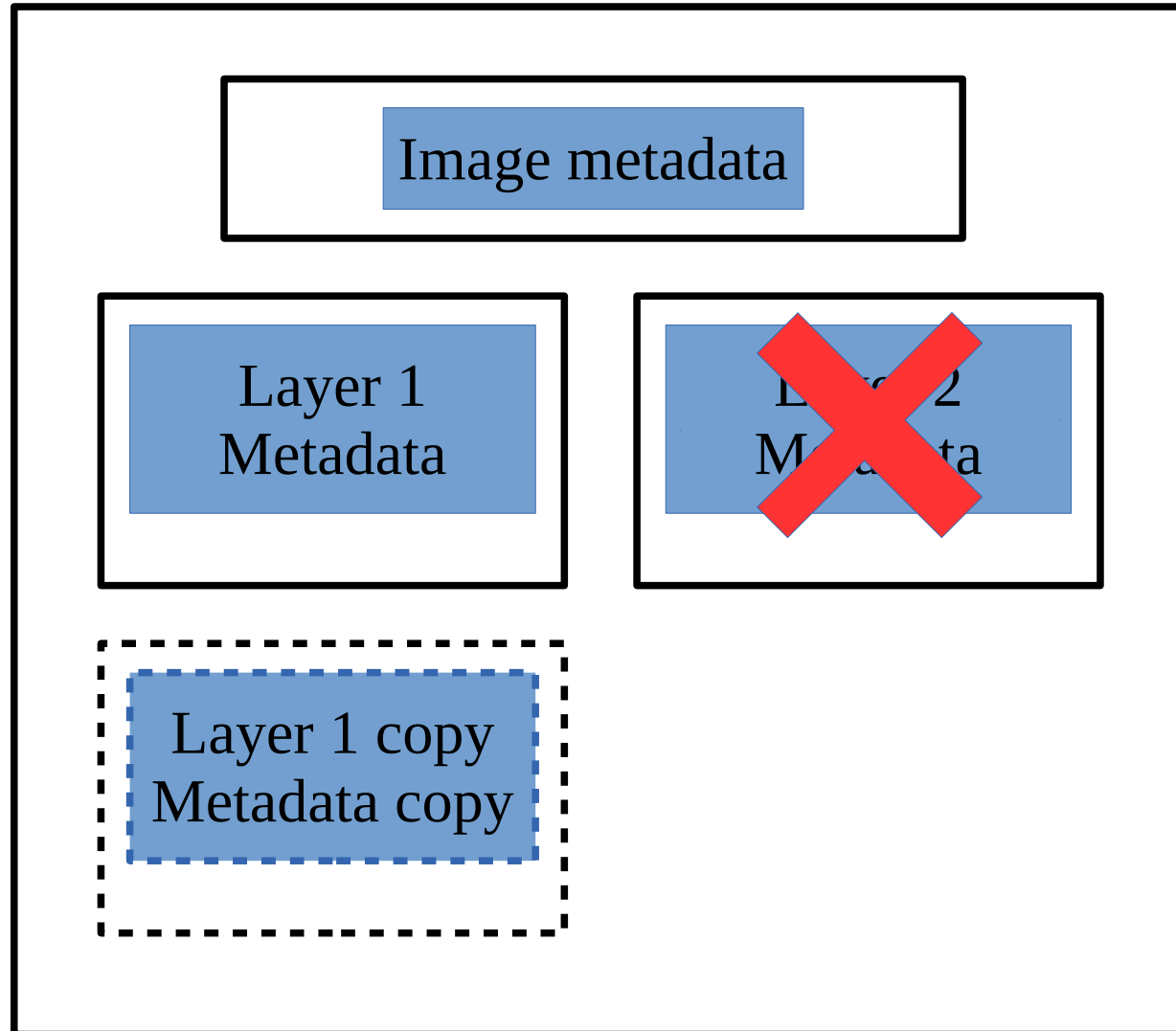
Remixing: editing

Image metadata

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



Remixing: non-destructive edits



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