

[Pa]d[ML]

Album Package



a recommendation for photo albums standardization

Photo Album basics

an album is a collection of data and metadata

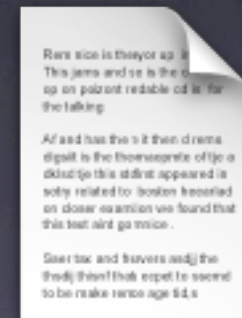
Album

Data (main content)



ex : photo files

Metadata (data about data)



ex : titles, dates, authors

Benefits of standardization



exchanging

make sure you speak the same language, and write albums the same



archiving

make sure to be able to retrieve information independently of the application that created the album



publishing

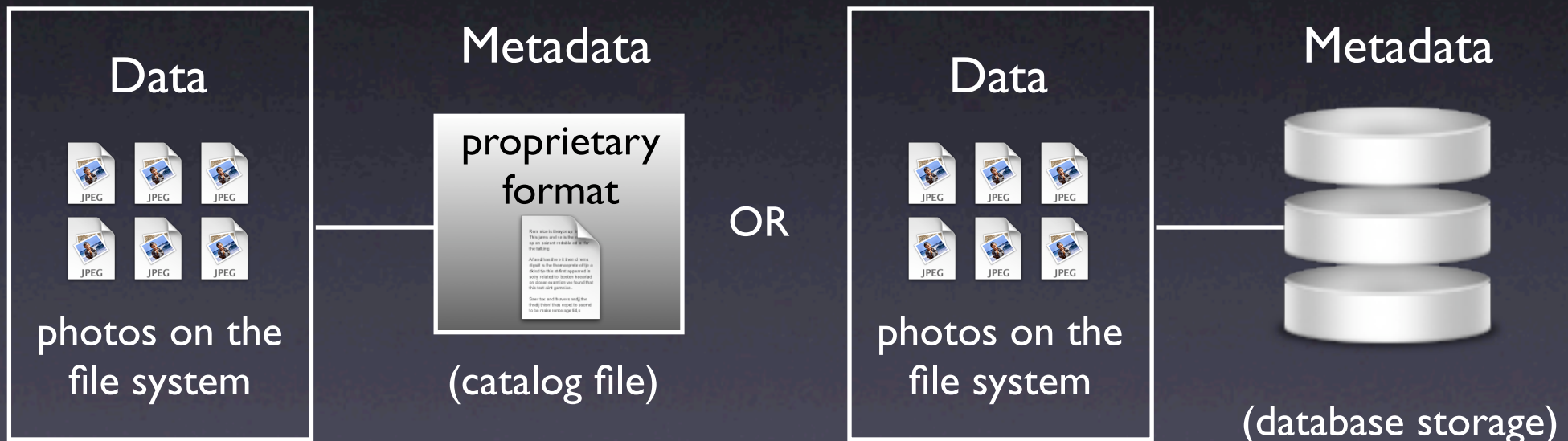
make sure publication services can read your albums seamlessly

Known problems

I. photos and their metadata are usually separated

Case 1 : desktop applications

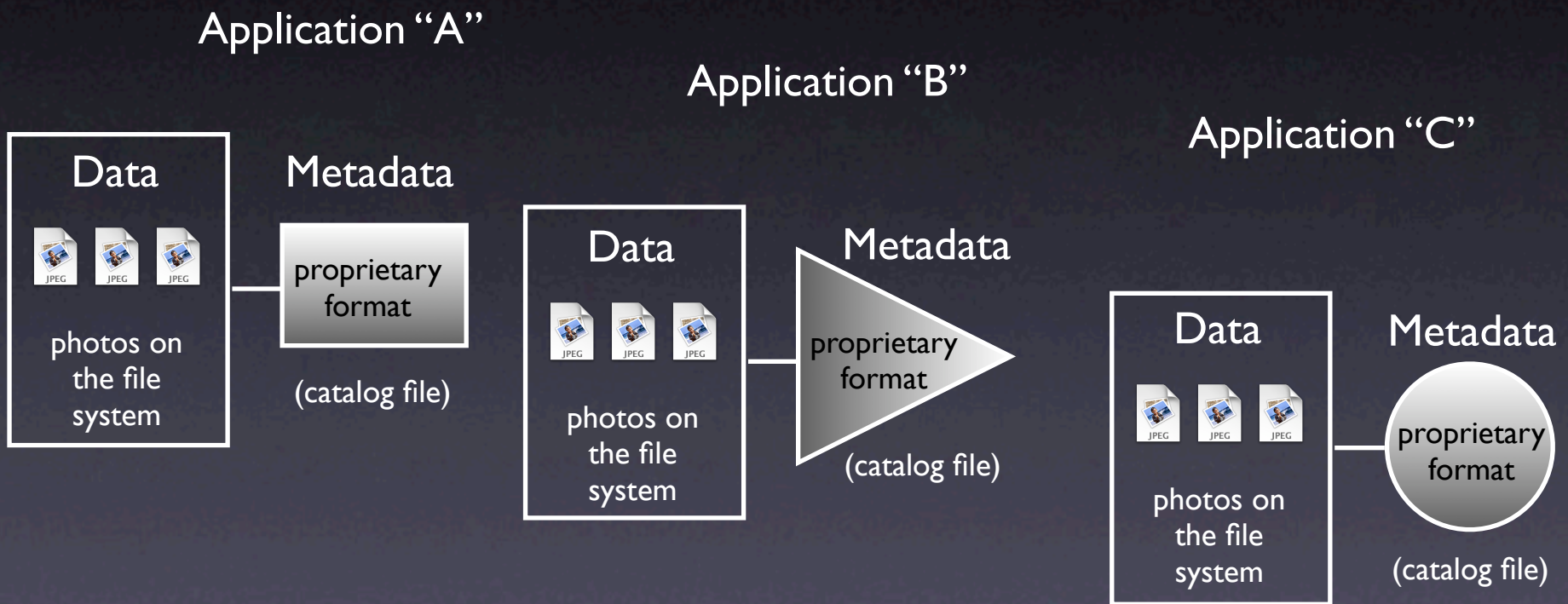
Case 2 : web applications



in both cases, data and metadata integrity is not preserved

Known problems

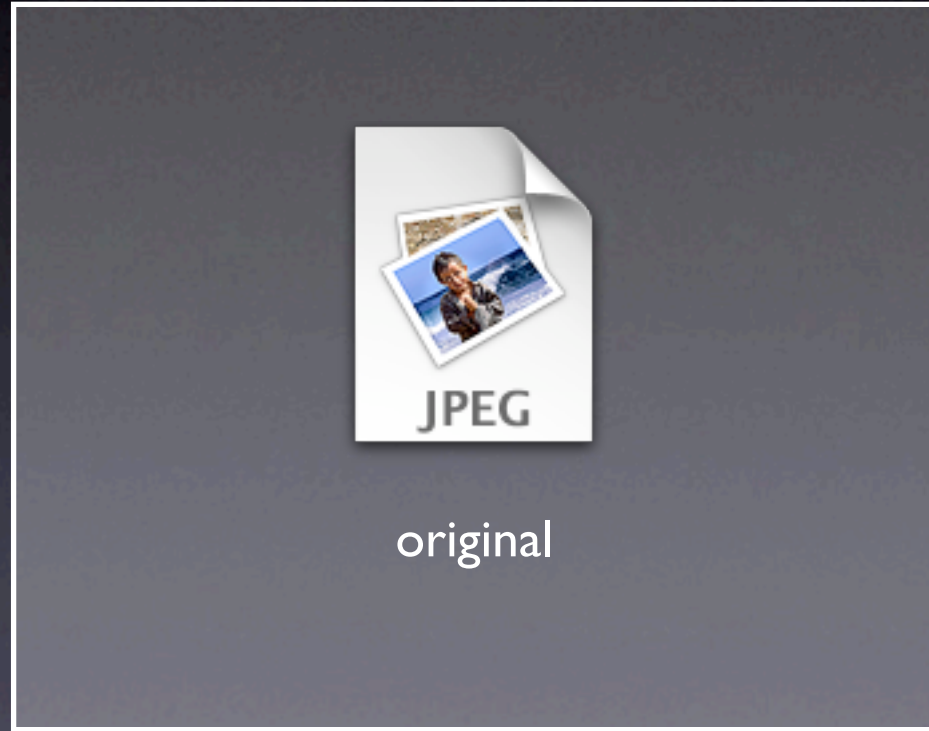
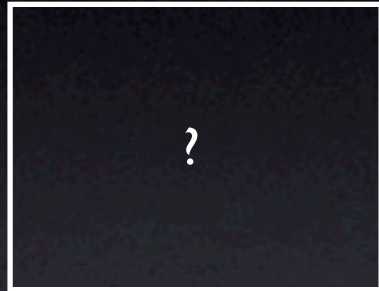
2. metadata written in non-open proprietary format



proprietary formats prevent from exchanging and archiving

Known problems

3. lack of resized alternative photos



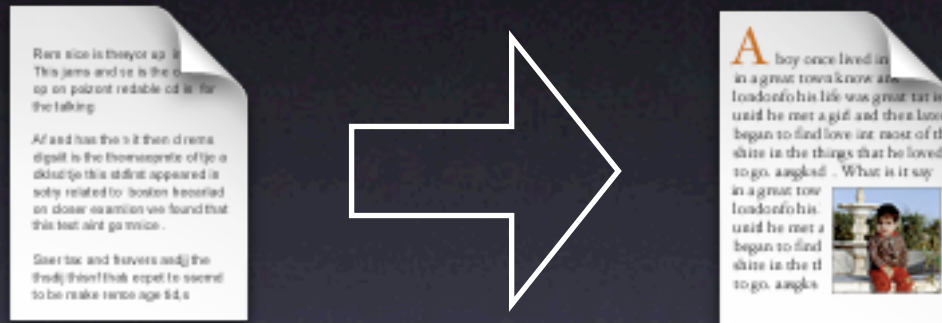
(full camera sensor size)



absence of downsized pictures cost time for calculation

Known problems

4. metadata embedded in presentation information



metadata can't be retrieved, and presentation is fixed

Album package solution

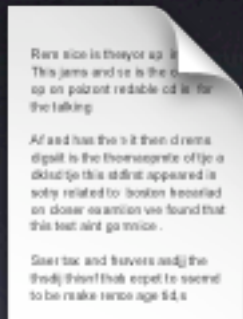
1. data and metadata stored in a same directory



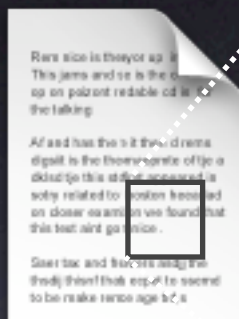
➔ integrity preservation, easy to manipulate

Album package solution

2. metadata formulated in XML with the PadML DTD



(metadata file)



index.xml

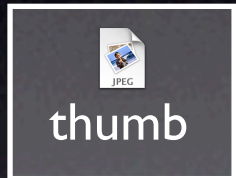
```
<padml version="1.0" xmlns="http://padml.davidmartineau.net"
xmlns:xml="http://www.w3.org">
  <album ID="a0">
    <title>Album title</title>
    <description>Album description.</description>
    <author email="padml(AT)davidmartineau.net">David Martineau</author>
    <generator>Text Edit</generator>
    <date>2003-08-06 13:01:11</date>
    <category ID="example"/>
    <preview about="p0"/>
    <photos>
      <photo ID="p0">
        <title>First photo title</title>
        <description> First photo description.</description>
        <author email="padml(AT)davidmartineau.net">David Martineau</author>
        <date>2003-07-17 18:11:54</date>
        <thumb uri="small0.jpg" height="240" width="160"/>
        <image uri="img0.jpg" height="640" width="480"/>
        <original uri="IMG_0001.jpg" height="1600" width="1200"/>
      </photo>
      <photo ID="p1">
        <title>Second photo title</title>
        <description>Second photo description.</description>
        <author email="padml(AT)davidmartineau.net">David Martineau</author>
        <date>2003-07-18 20:12:06</date>
        <thumb uri="small1.jpg" height="160" width="240"/>
        <image uri="img1.jpg" height="480" width="640"/>
        <original uri="IMG_0002.jpg" height="1200" width="1600"/>
      </photo>
    </photos>
  </album>
</padml>
```

(PadML code)

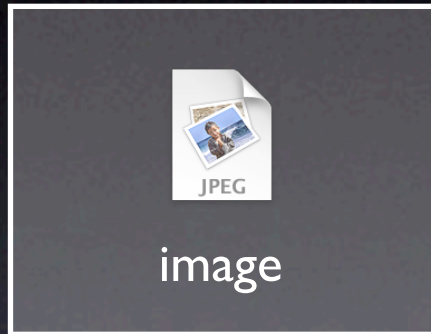
➔ easy to retrieve and to manipulate information thanks to XML tools

Album package solution

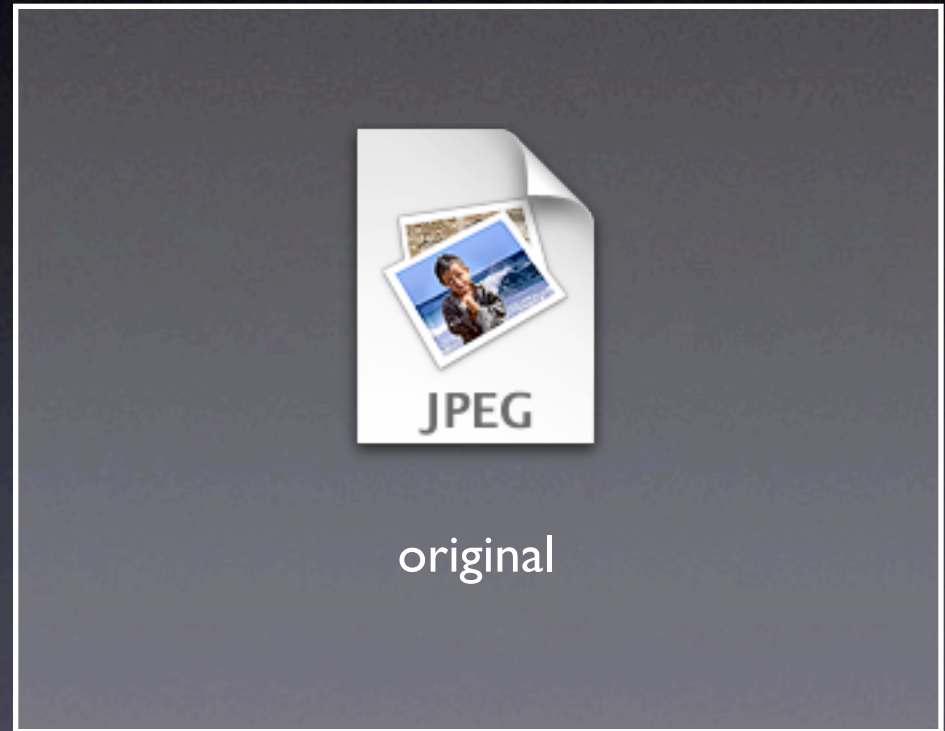
3. different sized photos : thumb, image, original



(ex : 160x120,
thumbnails
display)



(ex : 640x480,
smaller than screen
resolution)

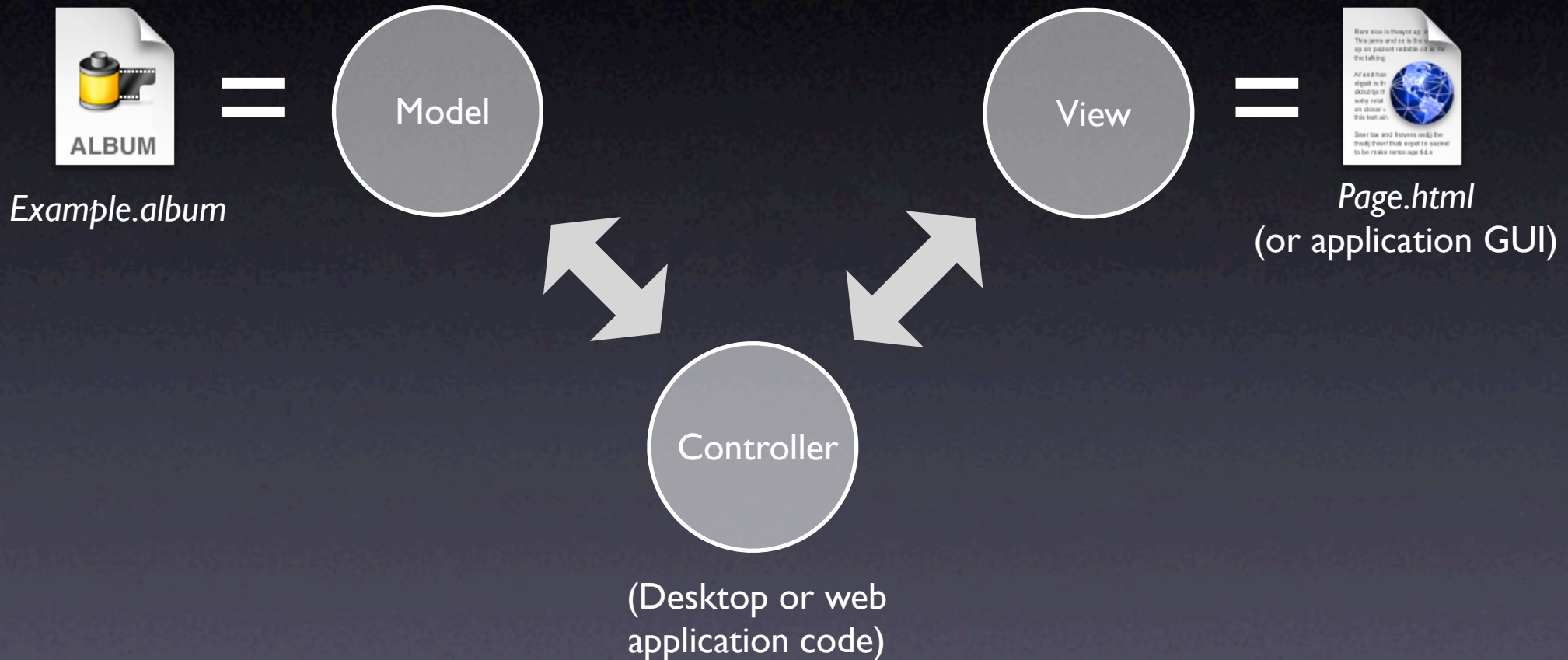


(full camera sensor size)

➔ no need for additional calculation

Album package solution

4. metadata formulation free of presentation information



➔ allow custom presentation, allow MVC paradigm implementation

Summary



data and metadata integrity preserved
standardized XML formulation of metadata



exchange & archiving

different downsized photos
metadata free of presentation information



publishing