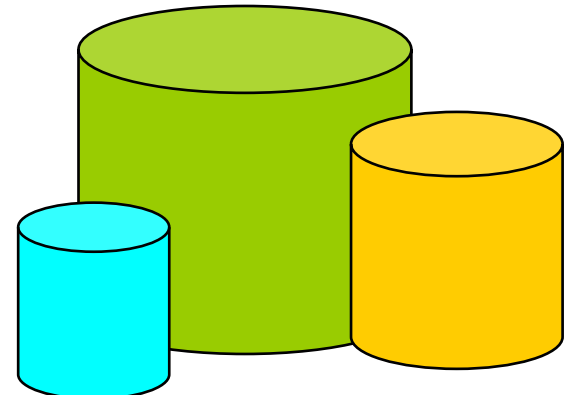
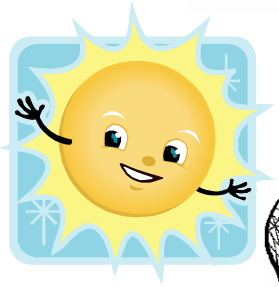
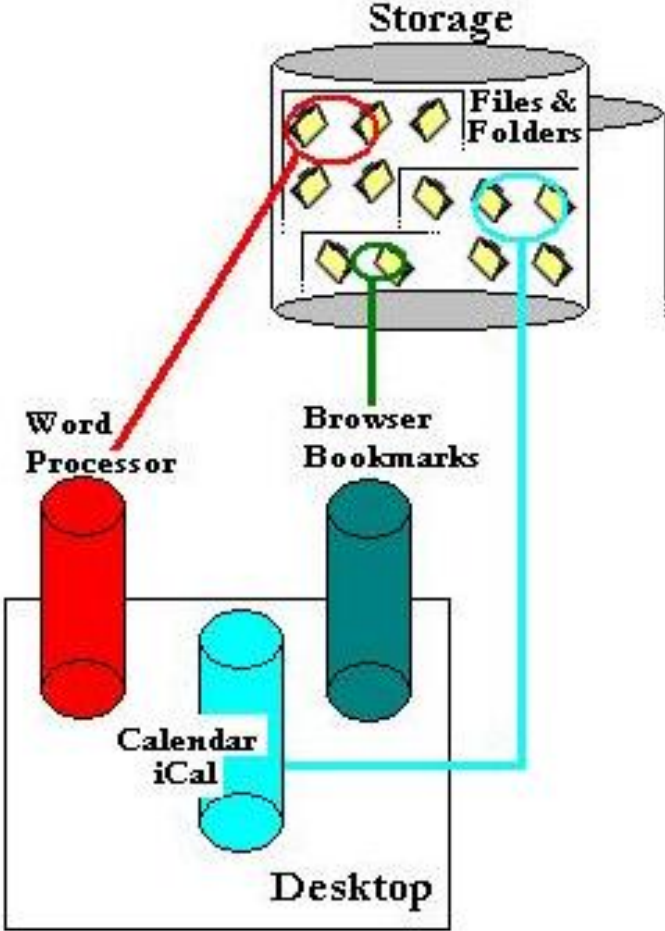
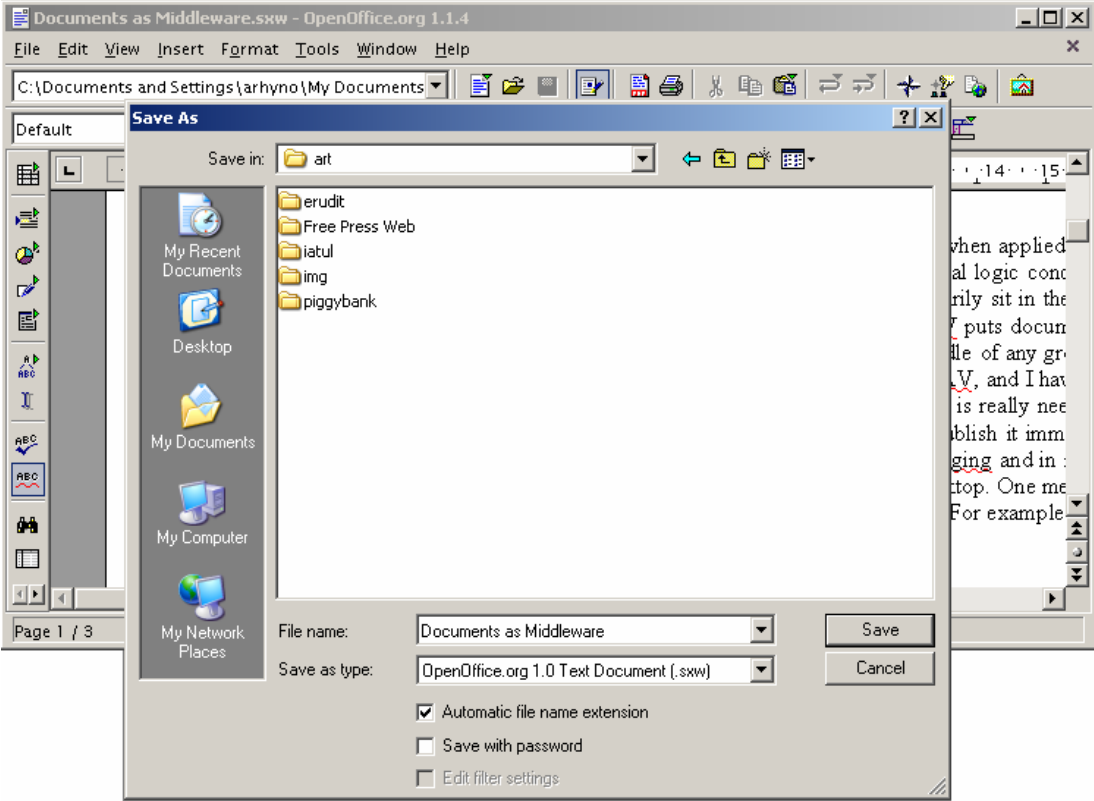


# institutional repositories and desktop silos



# where is a lot of content created now?



# WebDAV – Web Distributed Authoring and Versioning



**IETF RFC 2518 (February 1999)**

**<http://ietf.org/rfc/rfc2518.txt>**

**An extension to the HTTP protocol**

**New verbs (PROPFIND, MKCOL, LOCK...), headers and status  
codes**

**XML syntax for formatting information**

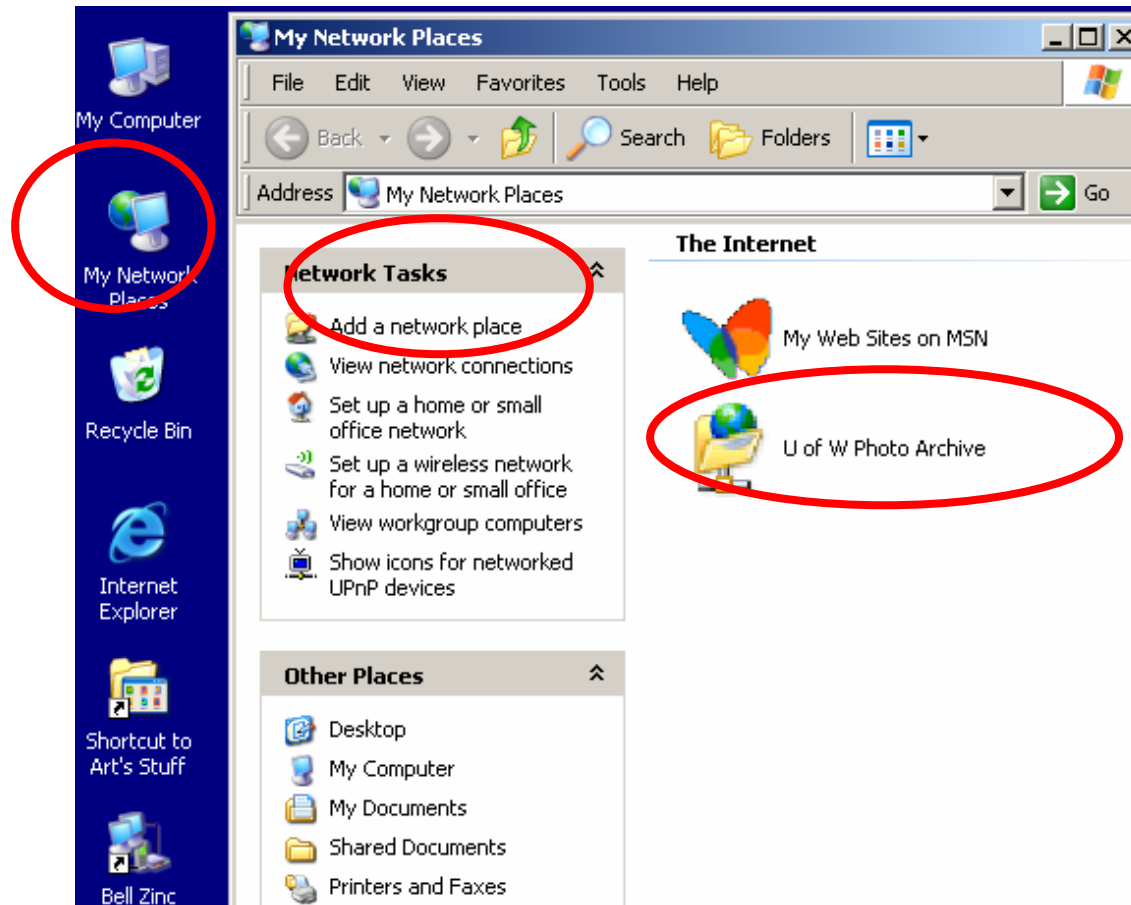
**Initially designed as a way to author web sites**

**Functions a low-end network filesystem over http**

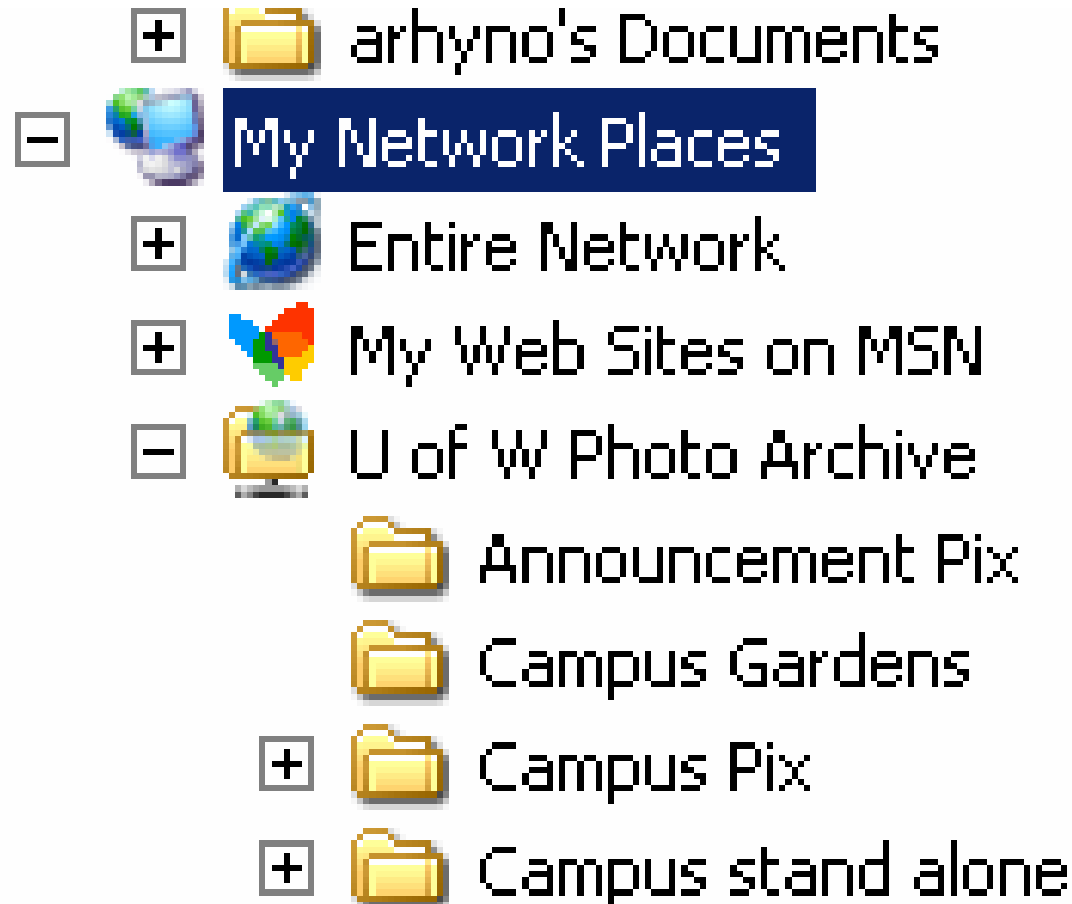
**WebDAV Home page**

**<http://www.webdav.org>**

# what WebDAV looks like on the desktop

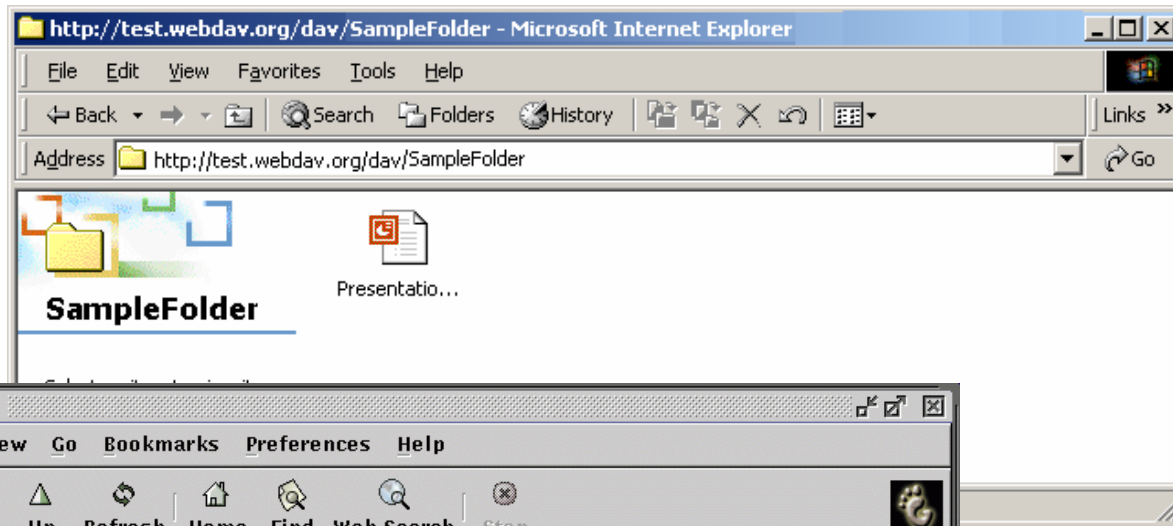


folders can have subfolders,  
of course...

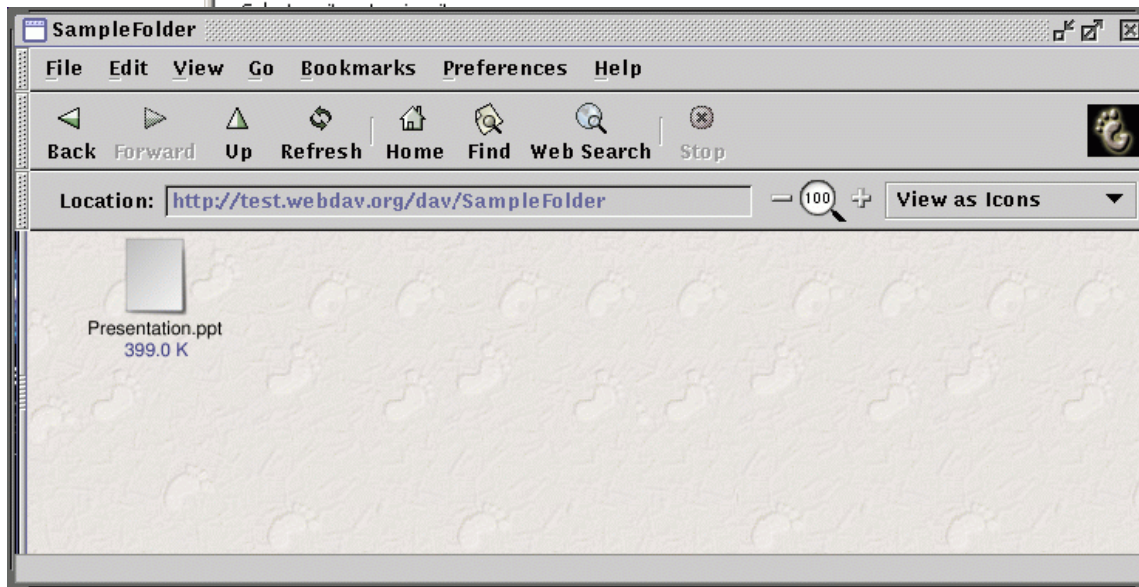


# and WebDAV folders can be almost anywhere...

On Windows

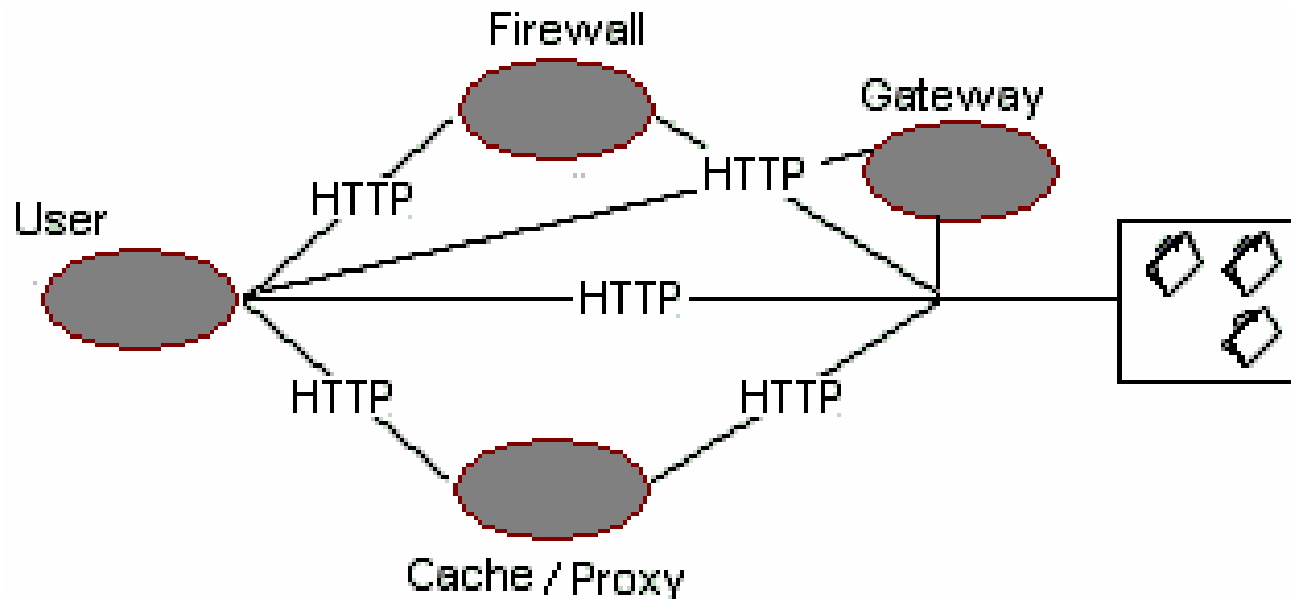


On Linux



all of this happens over HTTP  
(this is a good thing)

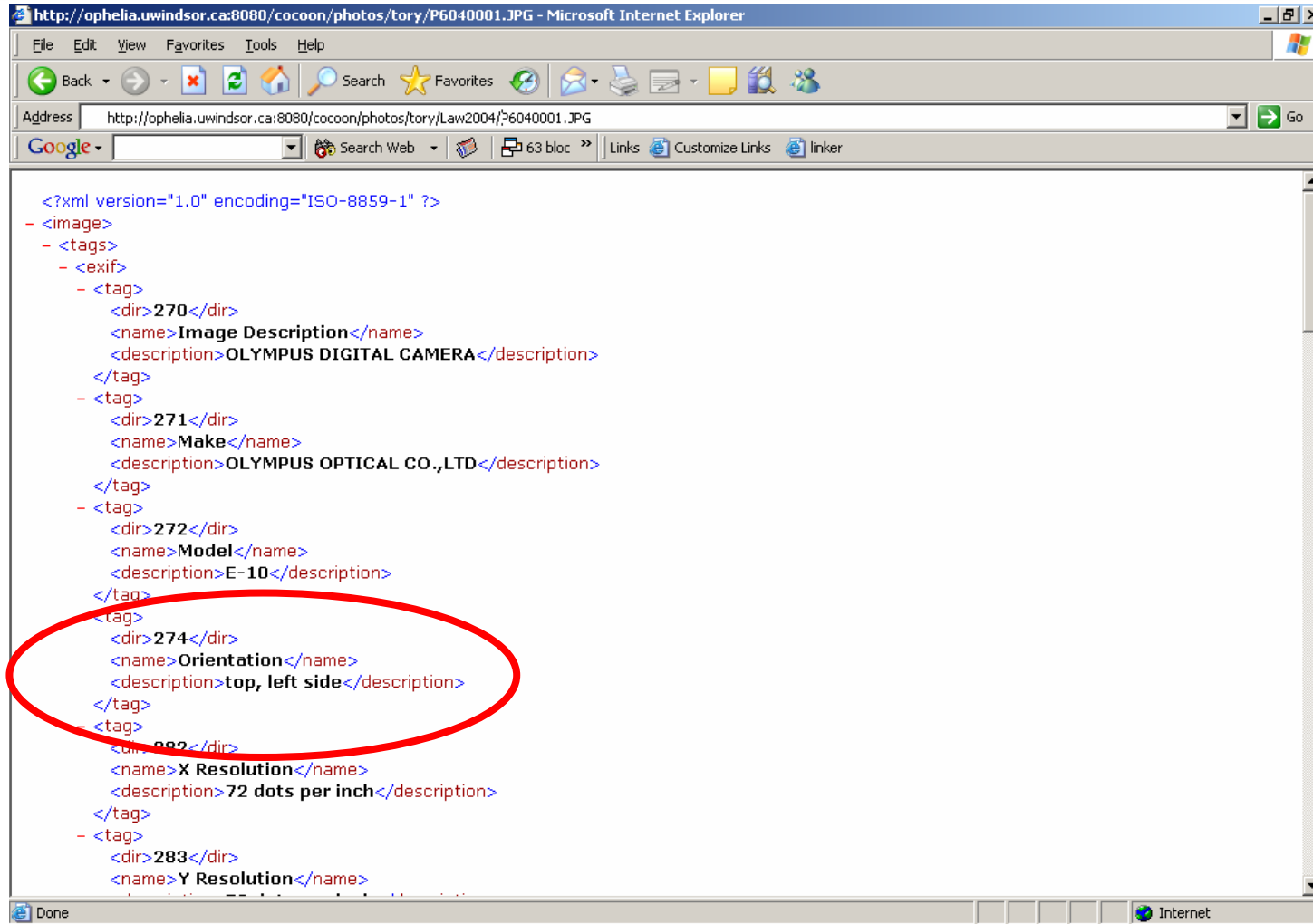
---



consider this repository  
submission

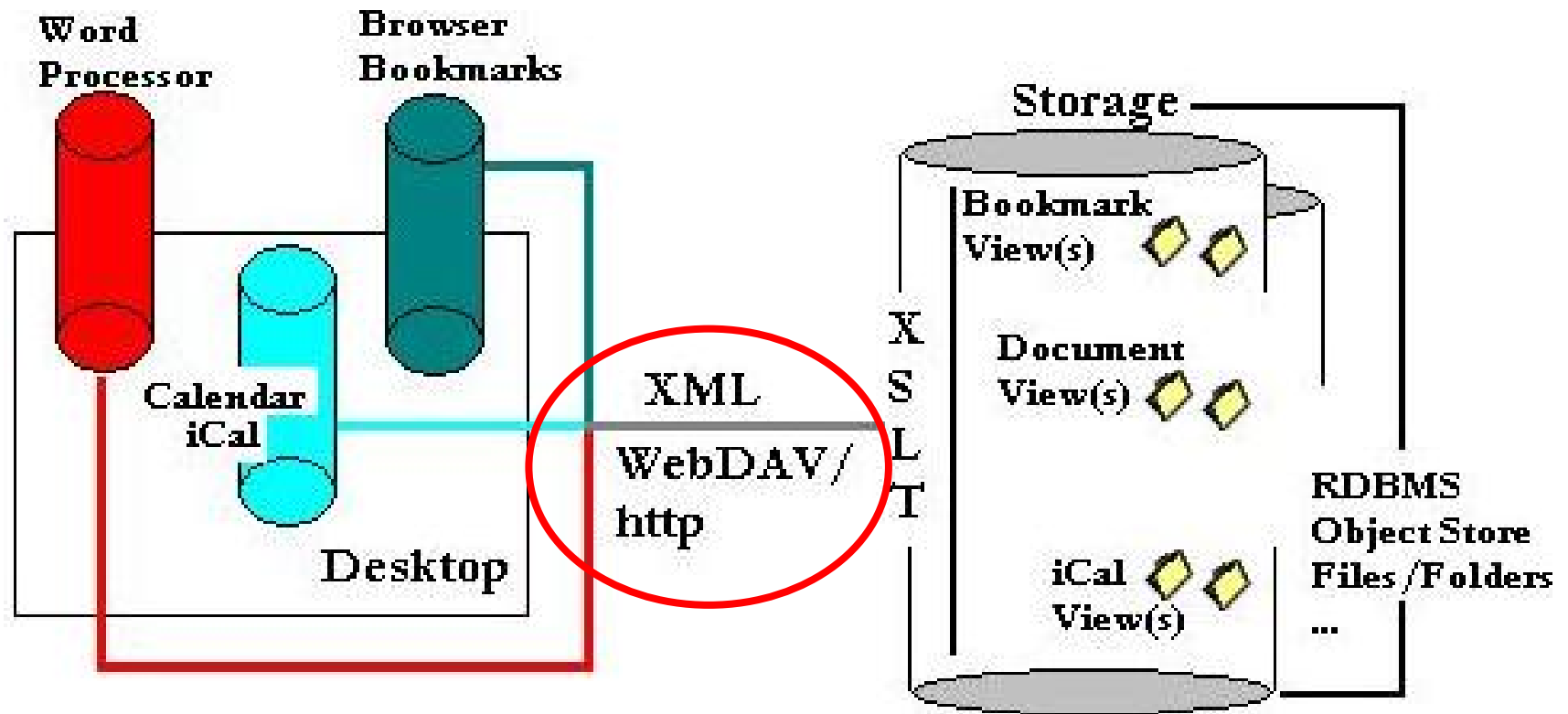


# what to do with the incidental metadata of everyday things

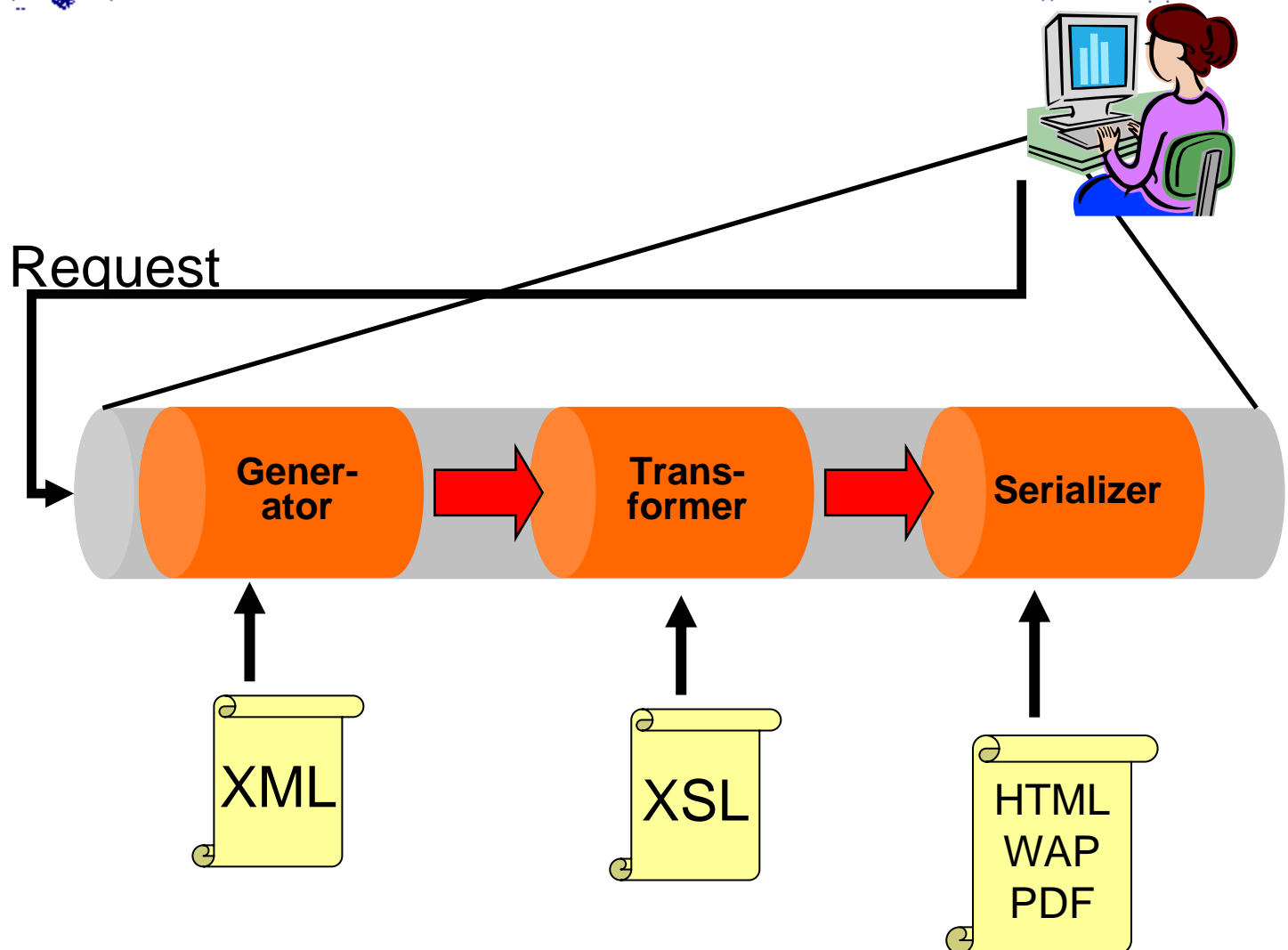


```
<?xml version="1.0" encoding="ISO-8859-1" ?>
- <image>
- <tags>
- <exif>
- <tag>
  <dir>270</dir>
  <name>Image Description</name>
  <description>OLYMPUS DIGITAL CAMERA</description>
</tag>
- <tag>
  <dir>271</dir>
  <name>Make</name>
  <description>OLYMPUS OPTICAL CO.,LTD</description>
</tag>
- <tag>
  <dir>272</dir>
  <name>Model</name>
  <description>E-10</description>
</tag>
- <tag>
  <dir>274</dir>
  <name>Orientation</name>
  <description>top, left side</description>
</tag>
- <tag>
  <dir>282</dir>
  <name>X Resolution</name>
  <description>72 dots per inch</description>
</tag>
- <tag>
  <dir>283</dir>
  <name>Y Resolution</name>
```

# a WebDAV view of the desktop



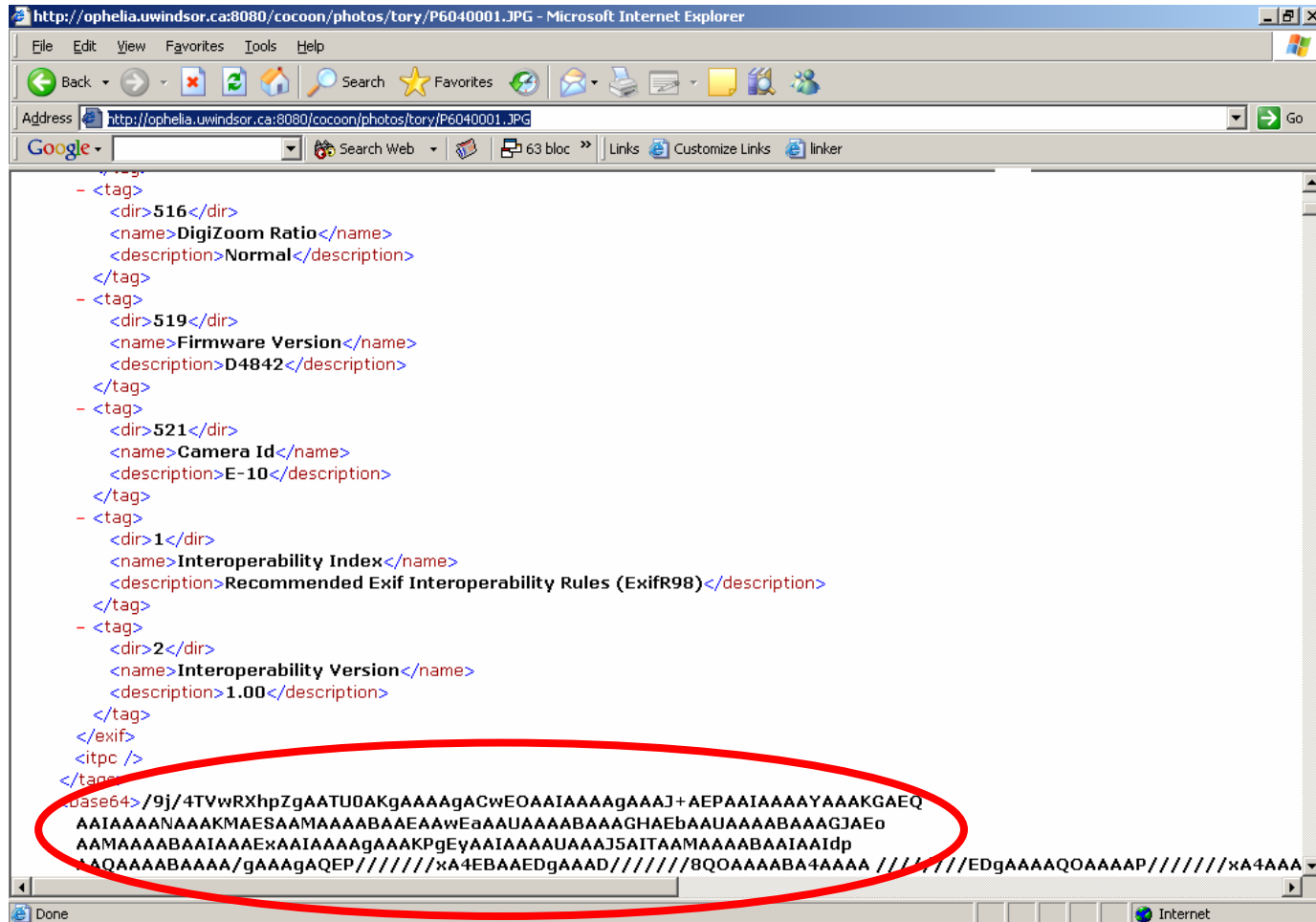
# one option for leveraging WebDAV and XML: Cocoon & sitemap processing



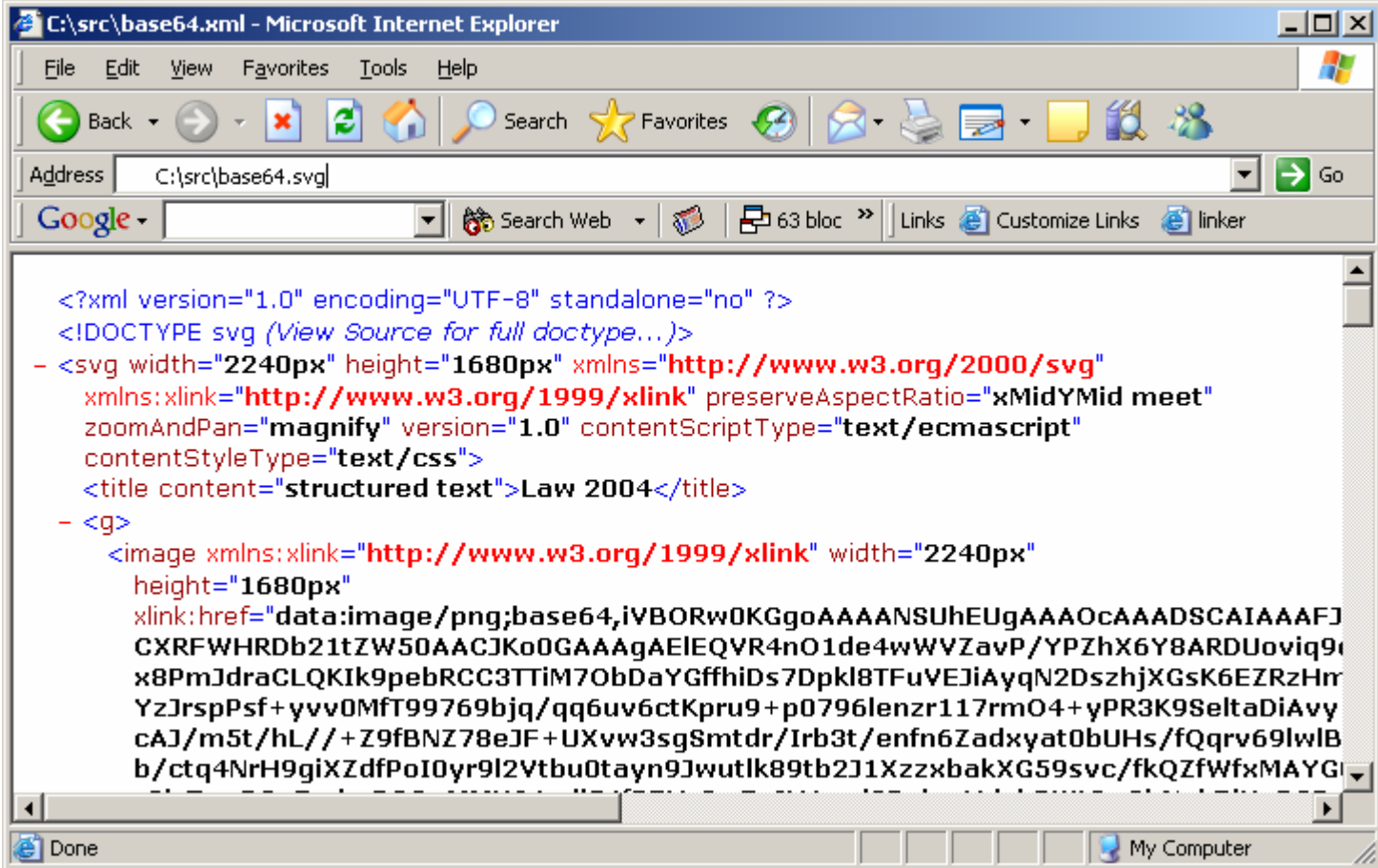
# pipeline processing - reworking xml in xml

```
<map:pipeline>  
  <map:match pattern="welcome.html">  
    <map:generate src="content/welcome.xml"/>  
    <map:transform src="stylesheets/page2html.xsl"/>  
    <map:serialize type="html"/>  
  </map:match>  
  
  <map:match pattern="welcome.wml">  
    <map:generate src="content/welcome.xml"/>  
    <map:transform src="stylesheets/page2wml.xsl"/>  
    <map:serialize type="wap"/>  
  </map:match>  
  
  <map:match pattern="welcome.pdf">  
    <map:generate src="content/welcome.xml"/>  
    <map:transform src="stylesheets/page2fo.xsl"/>  
    <map:serialize type="fo2pdf"/>  
  </map:match>  
</map:pipeline>
```

# what can happen to a photo dragged to a WebDAV drive



which can easily be transformed to something like this



```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<!DOCTYPE svg (View Source for full doctype...)>
- <svg width="2240px" height="1680px" xmlns="http://www.w3.org/2000/svg"
  xmlns:xlink="http://www.w3.org/1999/xlink" preserveAspectRatio="xMidYMid meet"
  zoomAndPan="magnify" version="1.0" contentScriptType="text/ecmascript"
  contentStyleType="text/css">
  <title content="structured text">Law 2004</title>
- <g>
  <image xmlns:xlink="http://www.w3.org/1999/xlink" width="2240px"
    height="1680px"
    xlink:href="data:image/png;base64,iVBORw0KGgoAAAANSUHEUgAAAOcAAADSCAIAAAFJ
    CXRFWHRDb21tZW50AACJKo0GAAAgAEIEQVR4nO1de4wWVZavP/YPZhX6Y8ARDUoviq9c
    x8PmJdraCLQKik9peBRCC3TTiM7ObDaYGffhiDs7Dpkl8TFuVEJiAyyqN2DszhjXGsk6EZRzHr
    YzJrpsPsf+yvv0Mft99769bjq/qq6uv6ctKpru9+p0796lenzr117rmO4+yPR3K9SeltaDiAvy
    cAJ/m5t/hL//+Z9fBNZ78eJF+UXvw3sgSmtDr/Irb3t/enfn6Zadxat0bUHs/fQqrv69lwlB
    b/ctq4NrH9giXZdfPoI0yr9l2Vtbu0tayn9Jwutlk89tb2J1XzzxbakXG59svc/fkQZfWfxMAYG
```

# and objects can easily live on the web



The screenshot shows a Mozilla Firefox browser window with the title "Law2004 - Mozilla Firefox". The address bar contains the URL "http://ophelia.uwindsor.ca:8080/cocoon/photos/tory/Law2004/". The browser's menu bar includes "File", "Edit", "View", "Go", "Bookmarks", "Tools", and "Help". The toolbar contains navigation icons for back, forward, refresh, stop, and home, along with a search engine icon. Below the toolbar, there are several tabs: "Customize Links", "Leddy", "linker", "unalog", "Link Management", and "Admin List".

## Directory Listing For Law2004

Filename	Size	Last Modified
<a href="#">P6040001.JPG</a>	979001	Mon, 28 Mar 2005 02:47:28 GMT

Apache Cocoon 2.1.7

Done

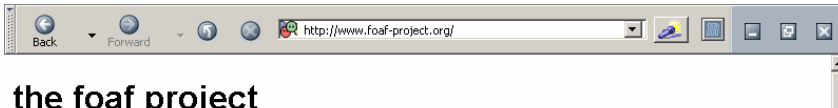


# special friends – sitemaps & openoffice

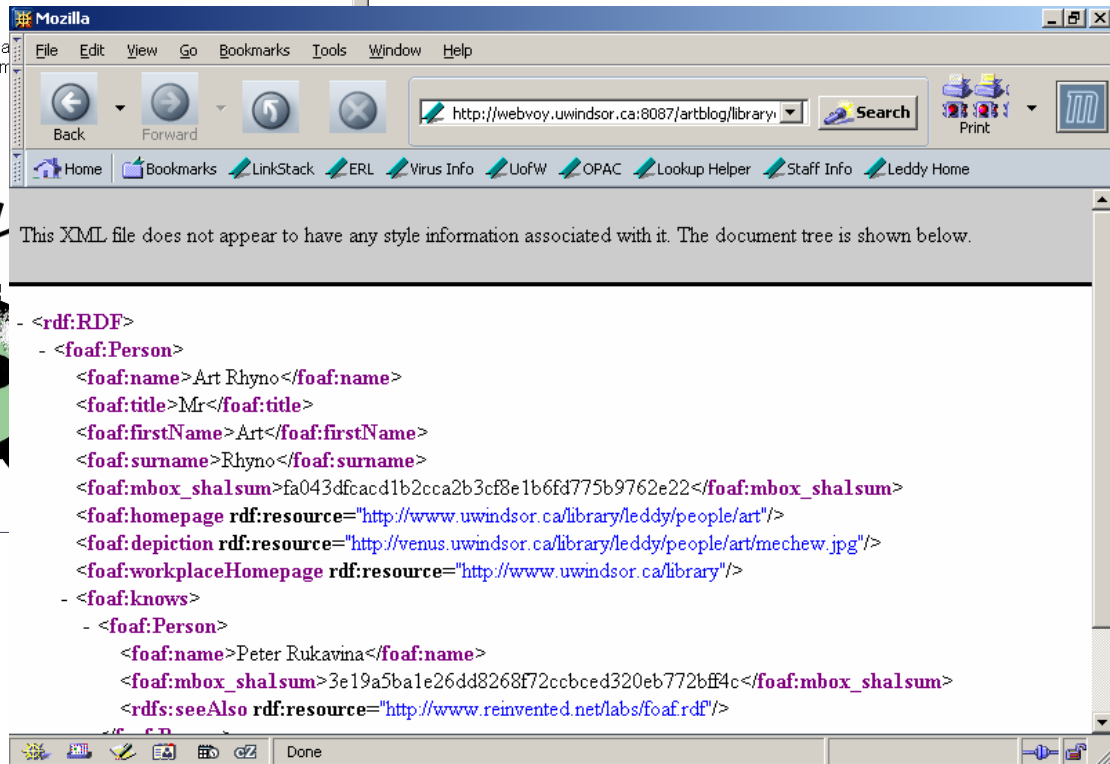
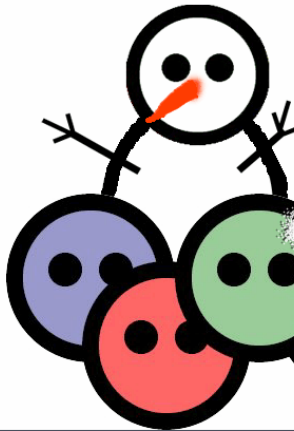


```
<map:match pattern="research/*.html">  
  <map:generate  
    src="zip://content.xml@{global:staging}{1}.sxw"/>  
  <map:transform src="xml2html"/>  
  <map:serialize type="html"/>  
</map:match>
```

# foaf – friend of a friend



The *Friend of a Friend* (FOAF) project is about creating homepages describing people, the links between them



openoffice + foaf + trackback = ?



□ researcher A describes some recent analysis of lifestyle decisions leading to diabetes

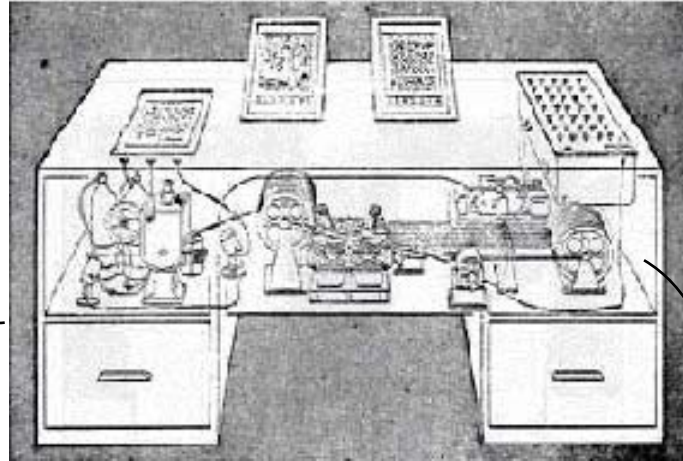
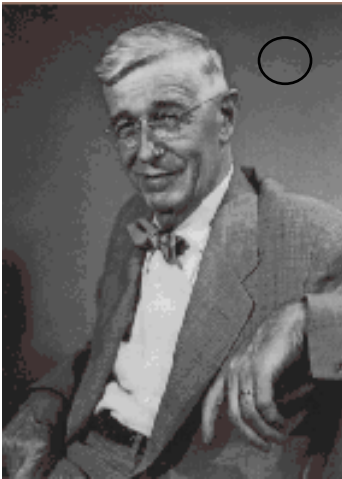
□ several eminent researchers provide their own analysis, linked together by trackback and validated by foaf

□ a few bloggers translate the scientific content into a more accessible form dozens of people with diabetes use trackback to say that the experiments capture their own life experiences

□ researcher B contacts the people who corroborate the study, leading to more collaborations.

□ researchers A & B win a Nobel Prize & donate a huge amount of money to the library

# is it real or is it memex?



# questions?



[arhyno@uwindSOR.ca](mailto:arhyno@uwindSOR.ca)

***WebDAV/Cocoon Setup Description- <http://librarycog.uwindSOR.ca/1114918819>***  
***Jump to the Code - <http://librarycog.uwindSOR.ca/resources/davbinGenerator.zip>***