

Mashup的應用

2006/12/14

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Outline

- 什麼是 Mashup (Mash-Up)
- Mashup 的生態
- Mashup 的類型
- 為什麼要談 Mashup
- ■常見的應用
- Mashup 在圖書館的應用



Outline

- Mashup 面臨的問題
- Mashup 的未來



什麼是 Mashup

- Mashup 這個名詞最早出現在音樂上,指藉由混合搭配不同的音樂,而呈現出不同的音樂效果。
- 在 Web 2.0 的應用上,中文名稱為「混搭」,意指透過結合各種網頁服務,所衍生發展出新的網路服務應用。
- 在技術上,一個網站或是一個網路應用程式,透過混合搭配不同來源間的內容或資訊,而創造出來的一種全新服務。
- ■內容可能是由第三方(third party)透過 API 所提供 ,也有可能是經由 RSS/Atom 或 JavaScript 所提供



什麼是 Mashup (Cont.)

■ Mashups 是網際網路上成長最快的生態系統,到 2007年時,每天將有10個新的 mashups 產生。

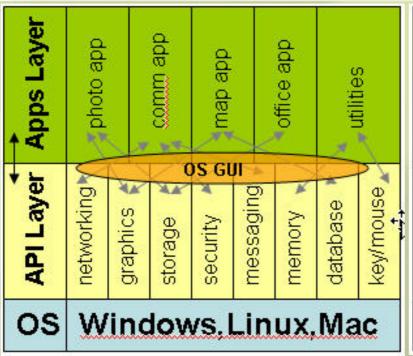


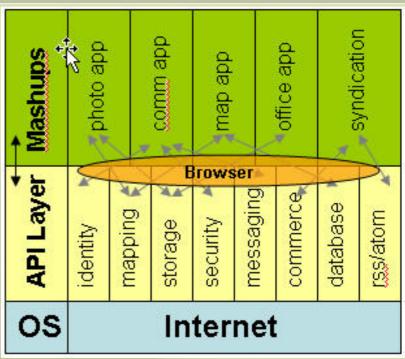
Host: David Berlind, executive editor, ZDNet

Length: 00:05:03



Mashup 的生態系統





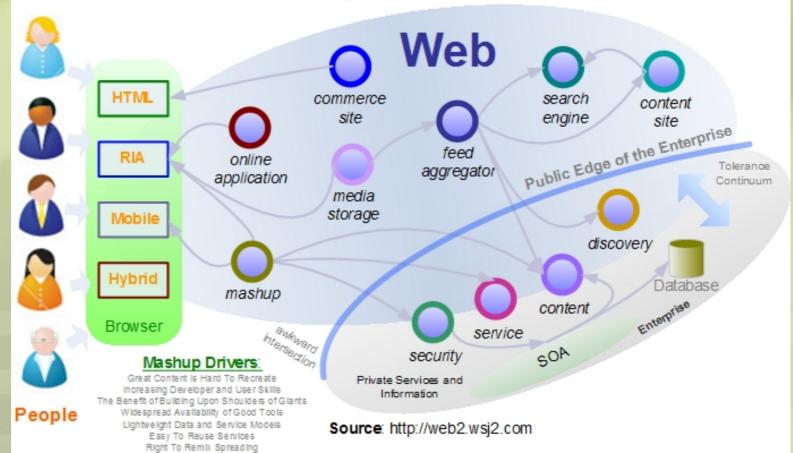
■ 資料來源: Berlind, David. (January 27, 2006). *Mashup ecosystem poised to explode*.http://blogs.zdnet.com/BTL/?p=2484



Mashup 的生態系統 (Cont.)

The Mashup Ecosystem:

Flourishing In An Increasingly Nurturing Environment

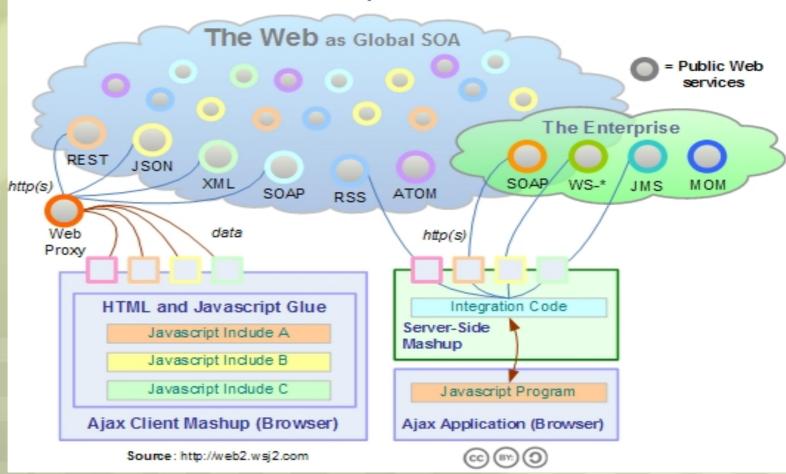




Mashup 的類型

Web Mashup Styles

In-Browser | Server-side





為什麼要談 Mashup

- 陳豐偉: Web 2.0 就是「使用者創造,搭配資料串流與混搭」
- 混搭是 Web 2.0 的核心精神,任何 Web 2.0 與 Web 1.0 的混合,只要能為使用者帶來更好的使用經驗,我們都應該鼓勵。
- Mashup 相關的資訊,提供讀者更好的使用經驗
- ■讓圖書館所提供的訊息可以 Mashup 到讀者最常使 用的環境中。



促成 Mashup 現象的主要原因

- Web 2.0 的觀念:鼓勵軟體開發者將應用程式以一組可重覆使用的服務(services) 來呈現
- 去年互動式網頁應用的網頁開發技術 Ajax 的出現
- mashups 在企業裏有很大的潛能:提供比以前更快速、更便宜、可以重覆使用、及更容易管理的不需Plug-in 軟體 (zero-footprint)、Web-based 商業應用軟體

資料來源: Hinchcliffe, Dion. (February 20, 2006). *Some predictions for the coming 'mashosphere*'. http://blogs.zdnet.com/Hinchcliffe/?p=1



常見的應用





常見的應用

- 地圖 <u>Google Maps</u>、<u>Yahoo! Maps</u>、Microsoft <u>Virtual Earth</u>
- 照片 Flickr、Zooomr
- 影音 YouTube
- 個人化首頁 Netvibes
- 搜尋 A9
- 其他 <u>Book Burro</u> (Firefox 擴充套件)、 Greasemonkey ... 等



Google Maps

- Google Maps Mania 收集所有 Google Maps 的應用
- HousingMaps 將分類廣告網站 Craigslist 上面與住 房相關的資料和 Google Maps 混合起來
- Chicago crime map 將案件發生的時間及地點結合了地圖
- My WikiMap 幫你尋找油價最便宜的加油站
- Dartmaps 即時顯示愛爾蘭都柏林市區的列車位置

For Rent For Sale Rooms Sublets

Price: \$1500 - \$2000 -City: **** Choose a city **** 🔻 Hide Filters New Refresh Rooms: | Any 🔻 Keywords: ☐ Pictures ☐ Dogs ☐ Cats

Edmonton Мар Hybrid Satellite Saskatoon Calgary Ontario Quebec Regina Thunder, Bay, North Dakota **)**shing Montana South Dakota Wisconsin chener Sioux-Falls-Idaho Wyoming New Iowa Lake City Nebraska Omaha Illinois Indian Nevada Independence West Alex Utah Colorado Louisville ... Missouri Conn Kansas Virginia, Kentucky. · Springfield. Oklahoma Arkansas Albuquerque North Carolina Dela Marylan South New Mexico District of Mississippi Carolina Alabama (Georgia) Lubbock Tucson Columbia El Paso Tallahassee San Antonio • Orlando Laredo Corpus Christi Flori Brownsville Gulf of Mexico Mexico Guatemala Honduras

Nicaragua

Map data @2006 TeleAtlas - Terms of

Drag the map with your mouse, or double-click to center.

Click on an Y icon to select a city.

In each city, click on the \bigvee and \bigvee icons to see listings. You can also click the \bigcirc and \bigcirc icons next to each listing.

Yellow icons have pictures.

Set the price range using the drop-down menu above.

E CHICAGOCRIME.ORG AV 4200 N

A freely browsable database of crimes reported in Chicago.

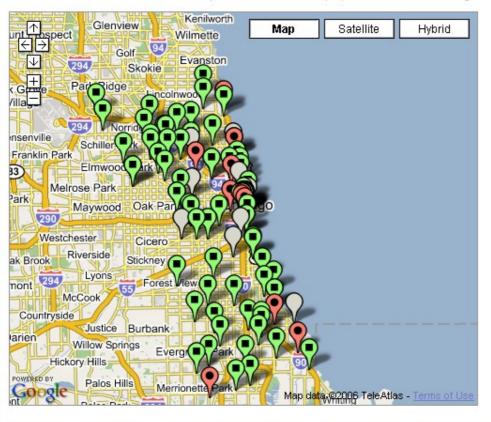
Browse by: Crime type - Street - Date - Police district - ZIP code - Ward - Location - Route - City map

Search:

GC

Crime map

More than 100 crimes were found -- only the latest 100 are displayed. Narrow the list using the choices below.





Important disclaimer: This site is *not* affiliated with the Chicago Police Department. This site uses crime data obtained from the CPD's <u>Citizen ICAM Web</u> site, which is a publicly available database of *reported* crime. Please read the Citizen ICAM disclaimer to understand the data fully.

About this site . RSS . Developer services . Search . Press . Donate . Powered by Django

E CHICAGOCRIME.ORG AV

A **freely browsable** database of crimes reported in Chicago.

Browse by: Crime type - Street - Date - Police district - ZIP code - Ward - Location - Route - City map

Search:

GO

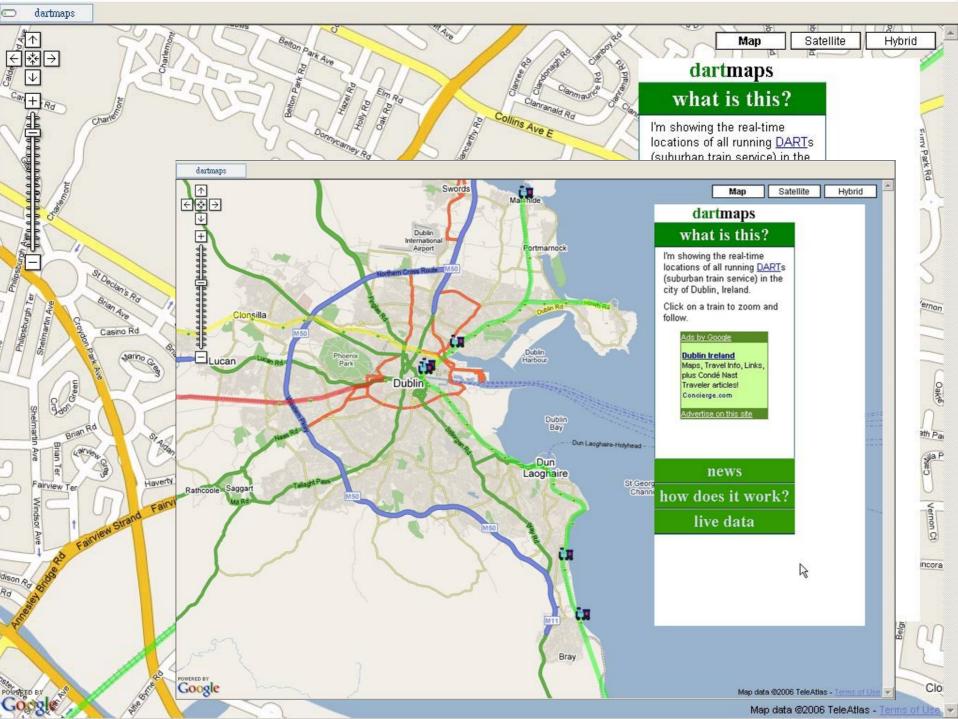
Case no. HM718973

Primary crime:	Assault
Secondary crime:	Aggravated assault: Handgun
Location:	Street
Address:	7700 S. Crandon Ave.
ZIP code:	<u>60649</u>
Ward:	Ward 7
Date:	Nov. 13, 2006, 9:33 p.m.
Arrests?	No
Domestic?	No
Police district:	4 (South Chicago)
Police beat:	0414



Important disclaimer: This site is *not* affiliated with the Chicago Police Department. This site uses crime data obtained from the CPD's <u>Citizen ICAM Web</u> <u>site</u>, which is a publicly available database of *reported* crime. Please read the <u>Citizen ICAM disclaimer</u> to understand the data fully.

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Flickr

- Flickr badge —可以把放在 Flickr 的相片透過 Flickr badge 功能將相簿嵌入到其他網頁
- Flickr Map 藉由 geotagging 結合了照片及地圖
- <u>Retrievr</u> 藉由手繪圖形自 Flickr 抓取相對應的照 片
- Spell with Flickr 將所輸入的文字自 Flickr 取出字母照片
- <u>Tagnautica</u> Visually navigate through Flickr images by browsing related tags

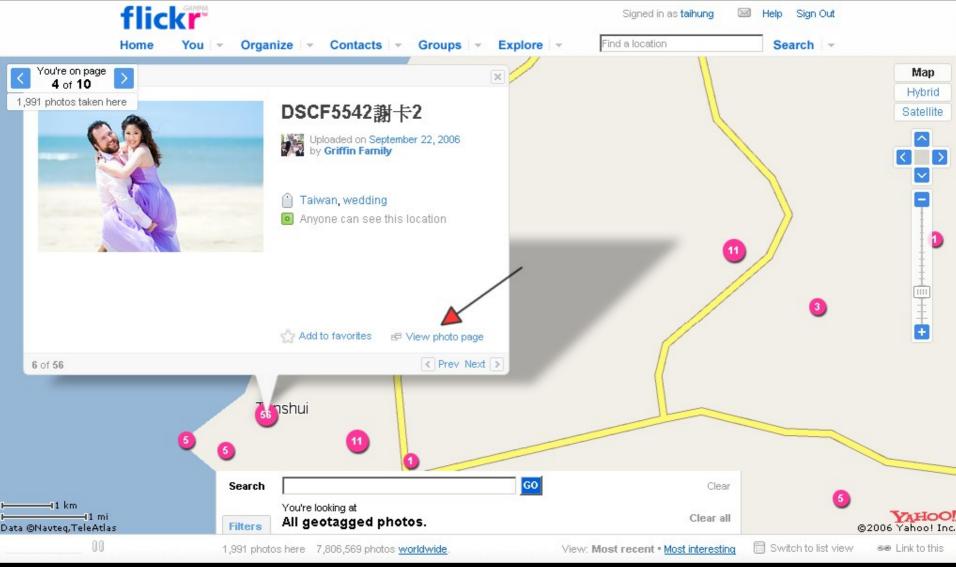


Flickr badge





Flickr Map





Retrievr

Home

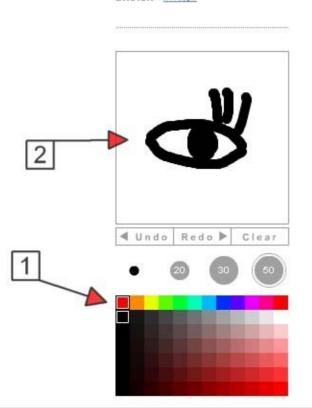
About Retrievr | System One Labs | Flickr

Welcome in 2006!



All images

Search by: Sketch · Image





From Hog



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From Paul Watson



From Fred Casagrande



From Terri Lynn



From elsakawai











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alt='B is for Billards' border='0' src='http://static.flickr.com/113/261423151 60d57322a2 t.jpg' /> href='http://www.flickr.com/photos/95229107@N00/90799379' id='fs 4' title='number 2'><img



YouTube



跑步機不只能跑步唷

[Stuff] 13 十月, 2006 20:29 點閱次數 (129)

連 跑步機都能拿來編舞,你眞是太有創意了!



⊜(o)迴響 ⊜ (o)引用 圖靜態連結網址

Subscribe with Bloglines

25 Oct 06, 15:43

herbert: hello from germany, visit my site, please

18 Aug 06, 14:20

Browny: Welcome the presence of you, welcome to leave the suggestion and idea too!

[Get a Cbox] refresh
name e-mail / url
message Go
help 'smilies 'cbox

Search »

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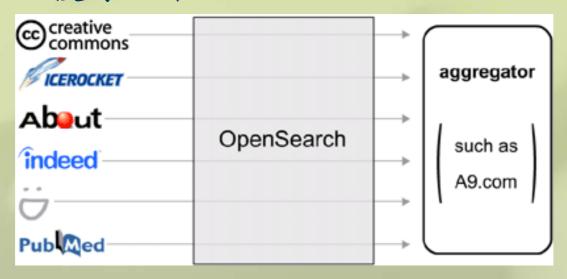
記錄 美麗的陷阱 伍佰-純真年代 Cherry Lover





A9

■ OpenSearch 是一套簡單的格式,讓搜尋的結果可以分享。透過適當的工具可以匯集自具 OpenSearch 支援的網站之搜尋結果。



■ OpenSearch 是一個開放的格式,它基本上運用了 RSS 及 Atom 的 syndication 格式,再加上一個描述 搜尋引擎的文件檔。



"library 2.0"

Site Info

search >

search groups:

search sources by topic:

quick start

- web by live.com
- 🗹 books by amazon
- reference by answers.com
- news by live.com
- wikipedia
- All Amazon.com
- Web Booster

more sources...

entertainment

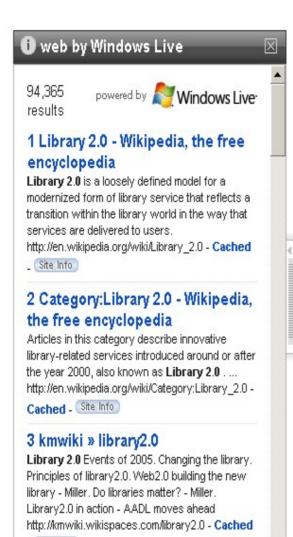
reference

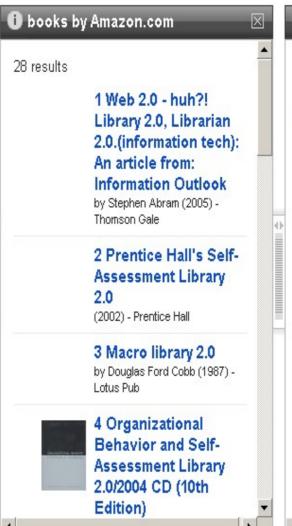
news

amazon.com

images

add/remove search groups...









"library 2.0"

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powered by Window

94,365 results

1 Library 2.0 -

Wikipedia, the

encyclopedia

defined model for a

modernized form of

library service that

reflects a transition

in the way that

to users.

the free

within the library world

services are delivered.

Category:Library

2.0 - Wikipedia,

encyclopedia

describe innovative

Articles in this category

Library 2.0 is a loosely

free

search >

search groups:

search sources by topic:

quick start

- web by live.com
- books by amazon
- reference by answers.com
- news by live.com
- wikipedia
- All Amazon.com
- Web Booster
- Related Subjects
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more sources...

entertainment

reference

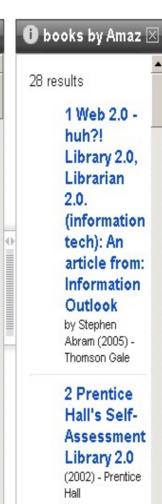
news

amazon.com

images

add/remove search

MEALINA









There was an error contacting the WPopac Service. Since this service is provided by a third party, a9.com does not know if the error is temporary, or will continue to occur. The error may also be related to this specific search.

Try Again



Book Burro

■ Firefox 擴充套件





Greasemonkey

- GreaseMonkey 是 Firefox 的一個擴充套件,可以讓用戶瀏覽網站的時候,可以自動執行用戶所定義的 Javascript。
- 為網頁增加了用戶自主的元素,例如在亞馬遜書店嵌 入商品比價功能
- ■修改網頁上的一堆錯誤
- ■將不同頁面的資料組合成單一頁面



Mashup在圖書館的應用





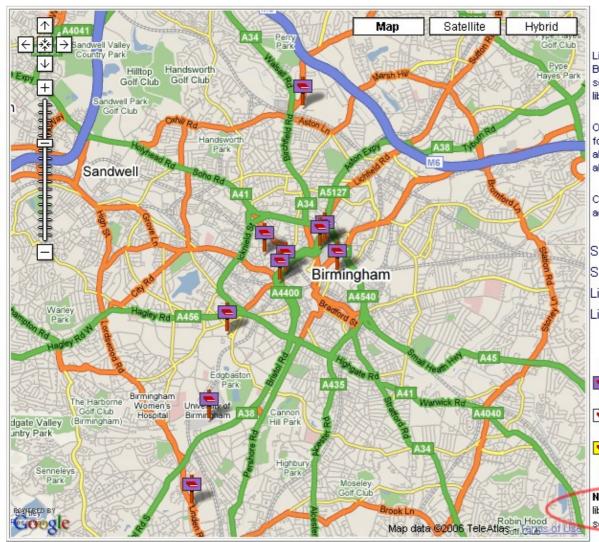
Mashup 在圖書館的應用

- <u>Libraries411.com</u> 僅在地圖上顯示出圖書館地址及 電話等基本資料
- Silkworm <u>Libmap UK</u>
- Talis Whisper 內容的 Mahsup 及地圖的運用
- OCLC Open WorldCat
- Greasemonkey 應用
- RSS 的應用
- WPopac



6

Libmap UK

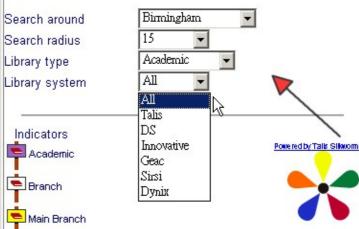


Libmap UK

Library UK is a Public and Academic Library location service for UK libraries. By using the selections below you can select a City/Town to centre your search around; select the radius of search; and the type of library and library system you are looking for.

Once your options have been selected, indicators will appear on the map for each library that matches your selection criteria. Controls on the map allow you to pan and zoom, switching between map and satellite views is also possible, by clicking the relevant controls.

Clicking on a map indicator will display information about a library, and access to search the catalogue.



Note: This is a demonstration application, only containing a subset of UK libraries, showing what is possible by mixing together publicly available web services. Join the discussion https://example.com/here.



Talis Whisper









MyAccount

Reviews

Discover

Locate

About Whisper

Directory

Monitor

Top 10 Books

- 1. Harry Potter and the Order of the Phoenix / J K Rowlina
- 2. The King of Torts / John Grisham
- 3. Quentin's / Maeve Binchev
- 4. Beachcomber / Josephine Cox
- Jinnie / Josephine Cox
- 6. Bad Boy Jack / Josephine Cox
- 7. Blue Horizon / Wilbur Smith
- 8. The Story of Tracy Beaker / Jacqueelin Wilson (ills Nick Sharratt)
- 9. The Summons / John Grisham
- 10. Lost Light / Michael Connelly

News

- Talis Whisper now multi-lingual
- Whisper holdings break the 60 Million barrier
- · Whisper video previews added to enrichment services

New Releases

Wagamama Cookbook and DVD -Hugo Arnold

This prototype application shows

the discovery of UK based library

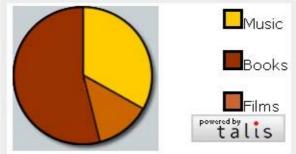
bibliographic and holdings data.

The City Garden Bible - Matt James

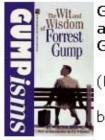
How not to Decorate - Colin McAllistan

Clay - David Almond

| What will I find



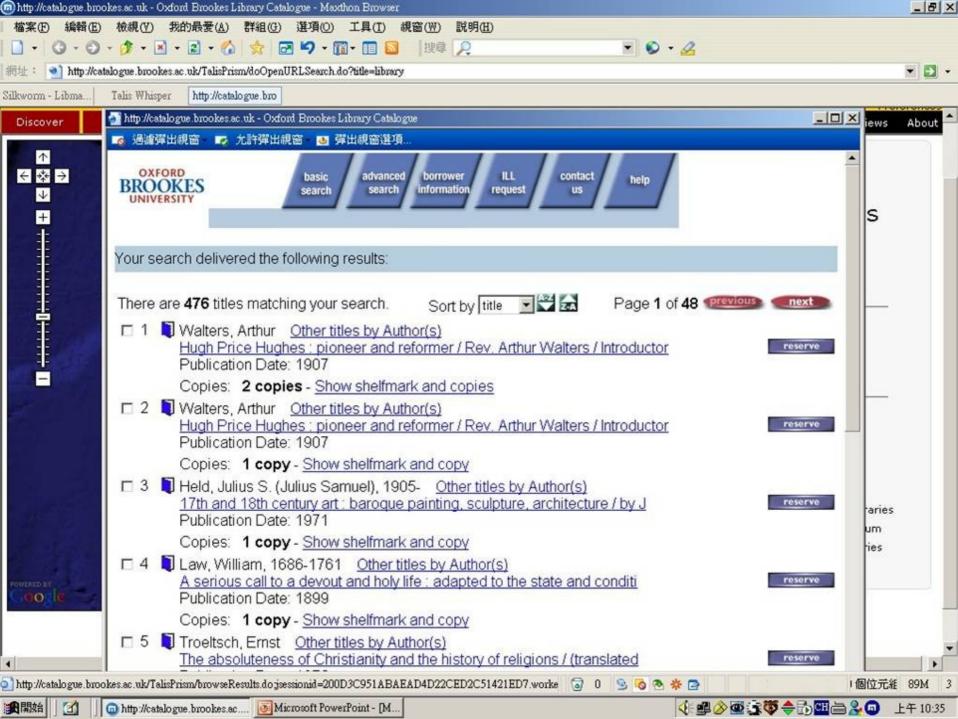
Book of the Day

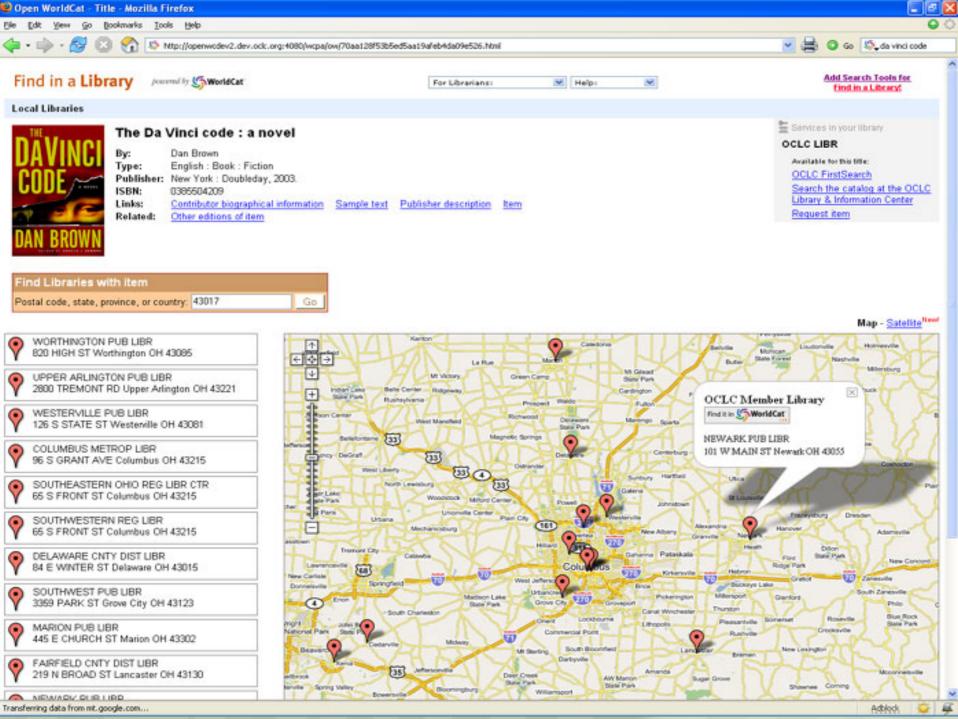


Gumpisms: The Whit and Wisdom of Forrest Gump

(Paperback)

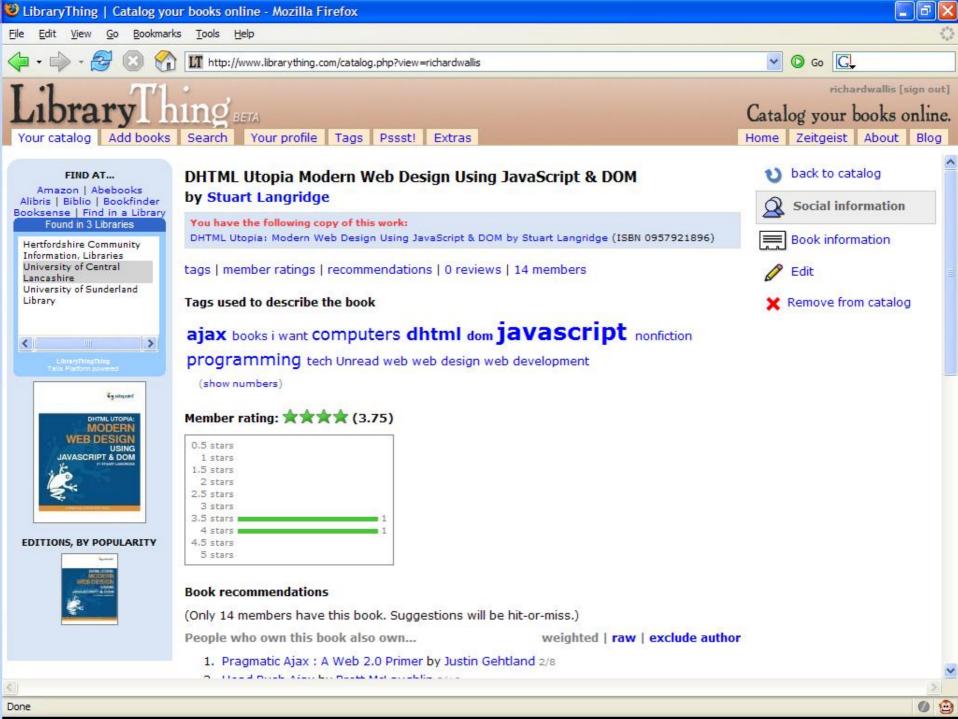
by Winston Groom













Greasemonkey 的應用 - OCLC

■ 2個 Web services 的應用: xISBN 及 the Audience Level indicator



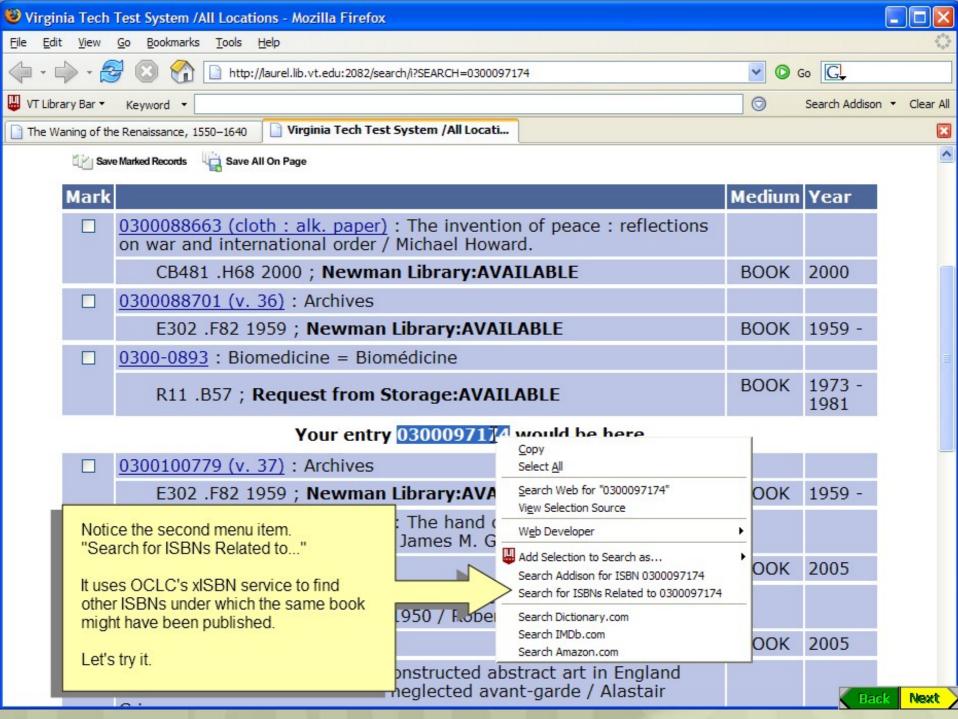


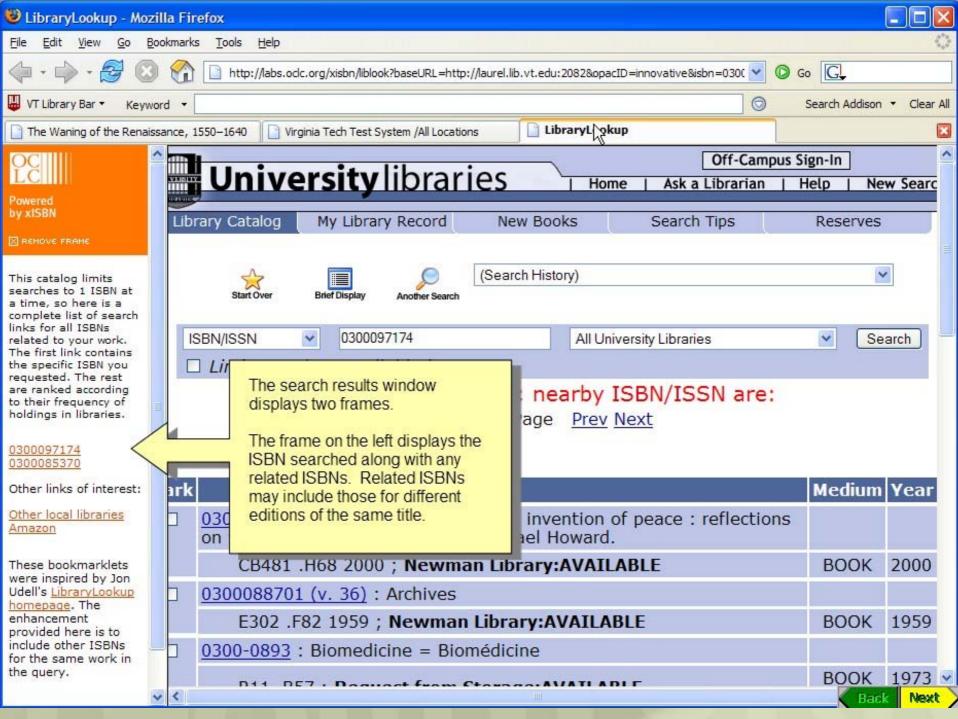
- http://libx.org/,為 Firefox擴充套件,提供多管道查尋館藏資源。
 - Toolbar & right-click context menu
 - Adaptive context menus
 - Support for xISBN · OpenURL
 - Google Scholar Support (The 'Magic Button')
 - Web Localization via Embedded Cues
 - Autolinking

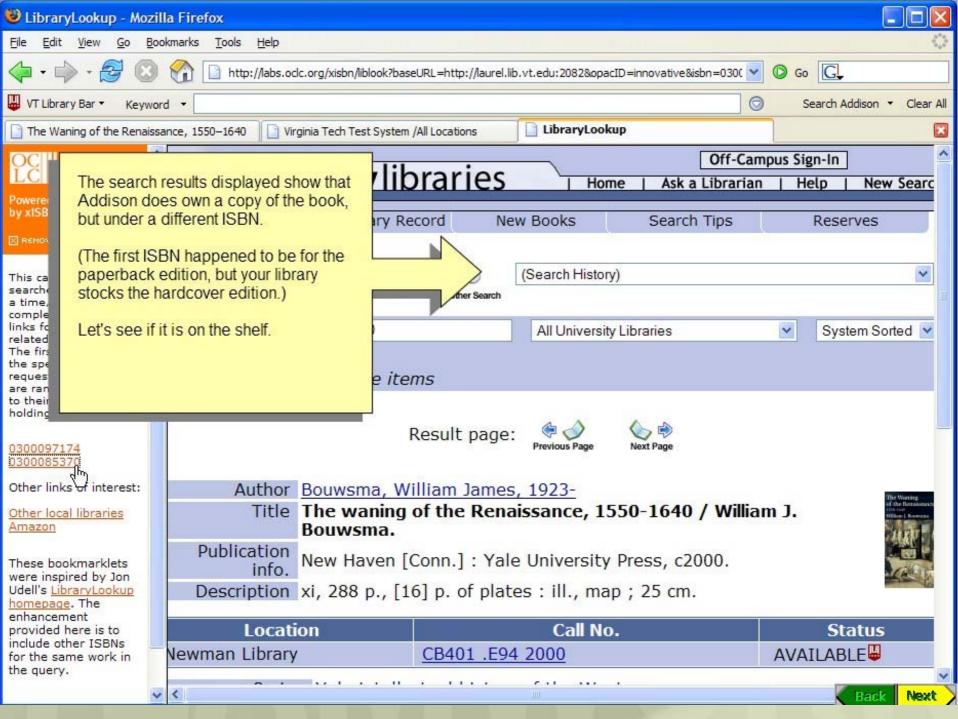


LibX (Cont.)

- ■目前有31個大學及公共圖書館提供此功能, 並有62個圖書館正在測試。
- DEMO context searches and xISBN
 - http://libx.org/screencasts/demo1b.htm (約 3分鐘)









Using RSS Feeds in your web pages is just a cut 'n paste away!

Style

Build



Build a Feed!

Find

The tool below will help you format a feed's display with the information you wasite. All you need to enter is the URL for the RSS source, and select the desthat we now have a number of mirror Feed2JS sites that can provide the exprovide here.

Download

Help

Mods

More

First, be sure to use the **preview** button to verify the content and format. Once the conten just use the **generate javascript** button to get your code. Could it be an easier? The last s options for **stylizing your displayed feed**.

Get Your Code Here

cut and paste javascript:

```
<script language="JavaScript" src="http://feed2js.org//feed2js.php?
src=http%3A%2F%2Ffeeds.feedburner.com%
2Ftkulnews&amp;chan=y&amp;desc=1&amp;utf=y"
type="text/javascript"></script>
<noscript>
<a href="http://feed2js.org//feed2js.php?src=http%3A%2F%2Ffeeds.feedburner.com%"

2Ffeeds.feedburner.com%</pre>
```

URL Enter the web address of the RSS Feed

http://feeds.feedburner.com/tkulnews

FEEDZUS

CIXWI AGLE OUS ..

Show us your love, post a badge

modevia

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Feed2JS is fueled by Magpie RSS

Note: Please verify the URL of your feed (make sure it presents raw RSS) and check that it is valid before using Copyright of ramkang university Chuen Sheng Memorial Library



- WordPress 與 OPAC 的 Mashup
- Plymouth State University 的 Casey Bisson 所 開發
- 2006 Mellon Award for Technology Collaboration (美隆基金會)
- Requirements:
 - MySQL 5.x \ PHP 5.x
 - ability to install, manage, and host WordPress 2.x
 - a source of bibliographic records

Pimsleur Means Language™

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	Go
	(search inside the book not available for all books information & FAQ)
tags	audio-visual aids, cantonese dialects, cantonese dialects — self-instruction, cantone
audi — se	s — sound recordings for english speakers, cantonese dialects — study and teaching o-visual aids, chinese language, chinese language — self-instruction, chinese langua ound recordings for english speakers, chinese language — study and teaching — audi isual aids, lamson library compact discs, self-instruction, simon & schuster audio (firm sound recordings for english speakers, study and teachi
Rela	ted:
	[sound Recording] Ready, Get Set, Sing! [sound Recording] : Songs For Early Childhood And ESL
Chin	ese Mandarin [sound Recording]
1000	our Les Amis [videorecording] : French Made Fun onese
	is entry was posted on Thursday, August 17th, 2006 at 12:00 am and is filed under Uncategorized ou can follow any responses to this entry through the RSS 2.0 feed. You can leave a response, or trackback from your own site
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Mail (will not be published) (required)

- LANGEON LIBRARY COMPACT DICCE

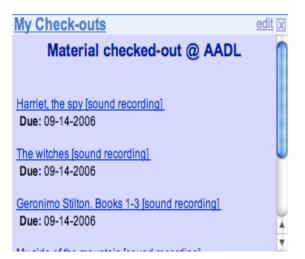


Mashing Up The Library competition

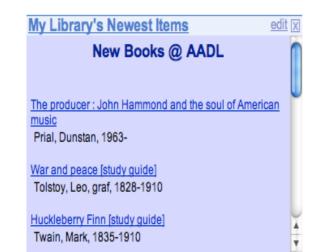
- 英國 Talis 公司於 2006年夏天舉辦了 Mashing Up The Library competition 2006,共計有18件作品。
- 第一名為美國著名的 Ann Arbor District Library (AADL) 技術人員 John F. Blyberg 作品: Go-Go-Go-Google-Gadget
- 第二名為美國 Alliance Library System 的 Alliance Second Life Library 2.0

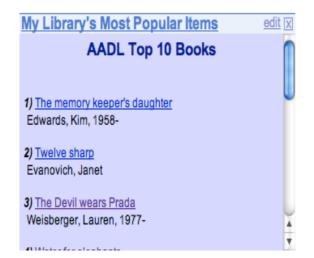
Competition entries					The state of the s
Talis Decisions Talis Podcasts	Alliance Second Life Library 2.0	3	by Ibell927	by Navillus Batra	Library
Talis VideosPanlibus Magazine	Displaying Library Related Feeds on Netvibes and Google	1	5 weeks 1 day ago by Tony Hirst	5 weeks 1 day ago by Paul Miller	1 day 16 hours ago • charges notification
User login	First Mashing up the Library competition closed - now to do it again!	0	5 weeks 1 day ago by Paul Miller	n/a	6 days 15 hours ago • Geolocation data
Username:	the library catalogue in google desktop	0	8 weeks 2 days ago by artunit	n/a	1 week 1 day ago • SL Chatbot 2 weeks 2 days ago
Password:	Library Map Mashup	0	8 weeks 3 days ago by Richard Wallis	n/a	• SRU/SRW 2 weeks 3 days ago
	go-go-google-gadget	0	8 weeks 3 days ago by Richard Wallis	n/a	Still waiting 2 weeks 4 days ago preselect
Log in Create new account Request new	NJIT catalog: book covers, PURLS, tagging, usage stats, and reviews (from Amazon)	0	8 weeks 3 days ago by JimRobertson	n/a	2 weeks 5 days ago
password	Book Trackr	0	8 weeks 3 days ago by JimRobertson	n/a	New forum topics
Search	Lib20 Library Toolbar	0	8 weeks 4 days ago by casey	n/a	Hiding Records from the OPAC mindex
Search	OU Traveller & Book Details Greasemonkey scripts	0	8 weeks 4 days ago by Tony Hirst	n/a	SQL to list Supplier Addresses
Search	Danish contribution: Search interface à la Web 2.0	0	8 weeks 5 days ago by Richard Wallis	n/a	Project Cenote shown at Access 2006
Who's online	Library Patrons Who Borrow To Create	0	9 weeks 22 hours ago by Michael L Johnson	n/a	AquaBrowser Online uses
There are currently 0 users and 120 guests online.	book cover browser	0	9 weeks 2 days ago by jmcunnin	n/a	Platform Data more
Syndicate	The LibMap	0	9 weeks 3 days ago by Tim Hodson	n/a	Active forum
	Consuming library new books feeds	0	9 weeks 5 days ago by Richard Wallis	n/a	topics • Hiding Records
Comment Feed More Feeds	Maps of place of publication	0	10 weeks 1 hour ago by MMcM	n/a	from the OPAC SQL to list Supplier Addresses
Creative	Amazon2OU Library Pivot Browsing	0	10 weeks 4 days ago by Paul Miller	n/a	mindex AquaBrowser Online uses
Commons	Lillian - A Virtual Librarian	0	10 weeks 4 days ago by dburden	n/a	Online uses Platform Data • Project Cenote
Copyright © 2006, Some Rights Reserved	Food based library interface	0	10 weeks 6 days ago	n In	shown at Access





edit 🛛





Dictionary.com Word of the Day

adumbrate: to outline; also, to foreshadow; also, to suggest; also, to shade.

fortuitous: happening by chance.



Ann Arbor, MI 71°F

Overcast Wind: N at 0 mph Humidity: 78%

Today

Sun 82° | 63° 78° | 62° 78° | 56° edit x

edit x

Top Stories

Ramsey family says arrest brings long-sought relief Marshalltown Times Republican - all 4586 related »

NSA ordered to stop wiretap programme MSN Money - all 1081 related »

Southern Lebanese greet national forces CNN International - all 2445 related »

Movies

edit x

Showtimes for 48103 »

Snakes on a Plane 1hr 46min - Rated R ជជជជជ 2 reviews

Talladega Nights: The Ballad of Ricky Bobby 1hr 50min -Rated PG-13

**** 22 reviews

Accepted 1hr 30min - Rated PG-13

★★☆☆☆ 4 reviews

edit x

Slashdot

The FBI Software Upgrade That Wasn't Dell to use AMD Chips in Desktop PCs

Fedora Project Leader Max Spevack Responds



Go-Go-Google Gadget

- Paul Miller:它把資訊自館藏系統抽離出來,放在讀者最常去的地方。在此例中,是在放 Google 的個人化首頁。
- 提供了借閱排行、新到館書籍、目前借出書籍、預約 書籍等資訊。
- 利用圖書館自動化系統所提供的 API

資料來源: Koltzenburg, T. (September 11, 2006). *Mashup magnificents*.http://www.techsource.ala.org/blog/2006/09/mashupmagnificents.html



Alliance Second Life Library 2.0





提供的服務





Alliance Second Life Library 2.0

- Paul Miller: 這是一個全球合作的很好例子。在 Alliance Library System 的帶領下,有來自全世界 25 30位圖書館員的參與。
- 在 Second Life 建立圖書館,並在虛擬空間中提供真實的圖書館服務。
- ■和實體的圖書館一樣,他們提供了許多電子期刊內容、講習、課程、及展覽。

資料來源: Koltzenburg, T. (September 11, 2006). *Mashup magnificents.*http://www.techsource.ala.org/blog/2006/09/mashupmagnificents.html



Alliance Second Life Library 2.0

Not a game!

■ 哈佛大學法學教授 Charles Nesson 父女在 Second Life 上開課講授關於網路世界 (cyberspace) 的一些議題

資料來源:

Bell, L., Sauers, M. & Peters, T. (October 23, 2006). http://www.infotoday.com/il2006/presentations/C105_Bell_Peters_Sauers.pps



Mashup 面臨的問題





Mashup 面臨的問題

- ■著作權問題
 - ■使用別人的資料 (例如照片) 在著作權上的問題
 - ■當我們申請類似 Flickr 這類服務時,在使用條款中我們可能都已經同意供應商/服務商把我們的文章/圖片刊登在其他網站上。
 - ■不過大部分的 Mashup 開發者都會提供連至原文章/圖片的連結。
 - ■保障自身權利 →了解並考慮申請 Creative Commons 的授權條款。



Mashup 面臨的問題 (Cont.)

- ■隱私問題
 - ■自己的資料可能在沒有被徵得同意的情况下被 Mashup。
- ■安全問題
 - ■透過 API / JavaScript 的作法將開啟了很多可能的安全弱點 (Vulnerability),以及跨越網站之scripting 型式的攻擊行為
- ■一致性、可信度問題



Mashup 面臨的問題 (Cont.)

- ■是否有附加價值?有時並不只是單單結合不同來源的資料
- ■有些API有流量... 等限制



Mashup 的未來

■ 它是一個曲棍球球棍 — 目前每天2.75個 mashup 產出,到 2007 將增至每天10個

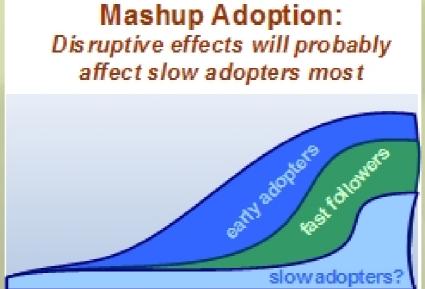


資料來源: Hinchcliffe, Dion. (February 20, 2006). *Some predictions for the coming 'mashosphere*'. http://blogs.zdnet.com/Hinchcliffe/?p=1



Mashup 的未來(Cont.)

- 更好用的 Mashups 工具
- 跨網域 (cross-domain) 的安全問題仍有待解決
- Mashup 的採用將會依循慣常的曲線來發展





Mashup 的未來(Cont.)

■ 出現 mashup APIs 通用註冊中心 — 目前雖有Programmable Web 可以輕易的找到一些 API,但缺乏像 <u>UDDI</u> 這樣子的標準



圖片來源:

http://www.fujitsu.com/global/services/solutions/xml/tech/XML_uddi.html



Mashup 的未來(Cont.)

- RSS 將是 mashup 最佳的協定 (protocol)
- 智慧財產權的問題仍會持續困擾
- 更複雜型式的 mashup 將是很有潛力的



Questions?



林泰宏 淡江大學圖書館

Library Views 圖書館觀點 taihung@yahoo.com

2006/12/14



名詞解釋

- SOA (Service Oriented Architecture,服務導向架構),是一種應用程式架構的概念,將應用程式及資源以可重複使用的「服務」方式呈現,使用標準化的介面相互溝通,藉此提供更高彈性、更高效率、及資訊整合的「T環境。
- RIA (Rich Internet Applications) 是一種在網際網路上運行的應用程式,有著如同桌面應用程式的行為、功能、快速回應、直覺與體驗,也融合了網際網路應用程式的容易開發的與低成本的特性。 RIA結合桌面應用程式與網路的優點。
- JMS (Java Message Service)
- MOM (Microsoft Operations Manager)
- JSON(JavaScript Object Notation) 是一種輕量級的數據交換格式。易於人閱讀和編寫。同時也易於機器解析和生成。



名詞解釋 (Cont.)

- 為了讓網路服務系統能和較老的運算系統一樣可 靠,但相容性比老的運算系統更上一層樓,供應 商推出大量的延伸(extensions),補強基本的網路 服務規格。軟體供應商IBM、微軟、BEA System 、甲骨文等都在基礎的網路服務技術之上添加更 多的規格,意在強化安全、功能與穩定性。SOAP 與WSDL是其中兩個較為人知的網路服務通訊協議
- SOAP技術(Simple Object Access Protocol,簡單物件存取協議)
- WSDL技術(Web Services Description Language ,網路服務描述語言)
- SOAP的出現是為了簡化網頁伺服器(Web Server) 在從XML數據庫中提取資料時,無需花時間去格 式化頁面,並能夠讓不同應用程式之間透過HTTP 通訊協定,以XML格式互相交換彼此的資料,使 其與程式語言、平臺和硬體無關。



名詞解釋 (Cont.)

- REST (Representational State Transfer:代表性 狀態傳輸)的技術,這套辦法撰寫出來的應用軟 體可以讓XML文件在現有的網路通訊協議下進行 傳輸,換言之,程式設計師可根據現有的工具與 硬體設施撰寫程式,HTTP就是一個顯著例子。
- REST技術的擁護者辯稱,REST和網路服務一樣,可讓應用軟體彼此溝通無礙。將REST技術應用於開放式網路服務最成功的例子是Amazon.com,該網站允許程式設計師使用Amazon的各種服務,設計電子商務應用程式。適用於較為簡單的應用軟體,不過青睞系統彈性更大、相容性更強的企業,應該選擇以SOAP技術為基礎的網路服務。