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Examples from libraries of all types are designed to help even non-programmers share and add value to digital content, update and enhance library websites and collections, mash up catalog data, connect to the library’s automation system, and use emerging tools like Serendip-o-matic, Unlaut, and Libki to engage users, staff, and the community.

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—Polly Alida Farrington, consultant, PA Farrington Associates

Library Mashups: What’s New

Nicole C. Engard

http://mashups.web2learning.net
What is a Mashup?

• A web application that combines data from more than one source into a single integrated tool.
Mashup Terminology

• Web Service
  • a technology that enables information and communication exchange between different applications

• Application Programming Interface (API)
  • a set of functions, procedures or classes for accessing a web service that allow a computer program to access and manipulate data on a web service the same way that a website interface lets the human user surf and dive into its content

More: http://mashups.web2learning.net/glossary
API Growth Since 2005
API Growth Since 2009

Growth of Top 10 Web API Categories Since 2009

2009:
- Social: 118
- Financial: 89
- Enterprise: 50
- Mapping: 79
- Ecommerce: 60
- Government: 39
- Science: 2
- Messaging: 57
- Payments: 15
- Telephony: 63

2013:
- Social: 518
- Financial: 508
- Enterprise: 474
- Mapping: 369
- Ecommerce: 348
- Government: 338
- Science: 333
- Messaging: 315
- Payments: 312
- Telephony: 298
Why Use Mashups?

• Create and share content more efficiently
• Provide better services to our patrons
• Add value to our websites and catalogs
• To promote library services where our patrons are
• It’s a learning experience – and we never turn down learning experiences!
Preparing to use Mashups?

• Ask vendors for APIs

• Create RSS feeds for library content

• Sign up for social networking sites

• Create accounts for tools such as Yahoo! Pipes and IFTTT (If This Then That)
Disclaimers

- Hosting content on other web servers means if that website goes away, so too might your content

- Connecting to other web servers might also cause your website to load slower

- If you use other people’s content your depending on them to keep the content accurate and available

- Always read the Terms of Service of the websites you use, and abide by them
Mashup Tools

more <library mashups>
Exploring New Ways to Deliver Library Data

Edited by Nicole C. Engard
Foreword by Michael P. Sauers
Yahoo! Pipes

- Allows you to pull in many sources of data and mash it up into one source
- Provides a simple web-based flow chart interface

pipes.yahoo.com
IFTTT

• If This Then That

• Easy tool for creating connections between multiple services using a simple trigger/action model

http://ifttt.com
ScribbleMaps

- Create a map mashup with simple drag and drop tools/menus

http://www.scribblemaps.com
OpenRefine

“A powerful tool for working with messy data: cleaning it; transforming it from one format into another; extending it with web services; and linking it to databases like Freebase.”

http://openrefine.org
Fusion Tables

- Take data and create visualizations (such as maps or charts) for that data
- Share the resulting visualization (and data set) with others

http://tables.googlelabs.com
Examples
Serendip-o-matic

• Connects your sources to digital materials located in libraries, museums, and archives around the world.

• Examines your text or references and then identifies content in the Digital Public Library of America (DPLA), Europeana, and Flickr Commons, to help you discover photographs, documents, maps and other primary sources.

http://serendipomatic.org
A public report from the Koha ILS mashed with HighCharts creates a visualization for your stats.

So far this year our patrons have checked out **2,072,739** books, **603,983** children’s books, **111,032** audio books, **207,741** movies, **8,568** games and **204** adaptive toys and we’re just getting started.

http://www.pascolibraries.org/stats
Mashed Catalog

• Stanford’s SearchWorks searches everything the library has to offer in one place.

• Powered by Blacklight

http://searchworks.stanford.edu

http://projectblacklight.org
Searching Ebooks

• Overdrive offers an API that can be integrated into your OPAC.

• Los Gatos does this with their Koha catalog.

catalog.losgatosca.gov

developer.overdrive.com/apis
Reading Recommendations

• BookMeUp (www.lib.montana.edu/beta/bookme/) from Montana State University uses Amazon, Open Library, WorldCat and more to make recommendations.
Timelines

• Houston Library mashed their digital collections with Timeline.js to create easy to browse collections.

http://digital.houstonlibrary.org/timeline/
Tweet Weather

• Warn patrons that the library might be closed via Twitter

http://ifttt.com
Mash together library feeds

- Use Yahoo! Pipes to mash together content from several library feeds to publish to your social networks (or your library website)

pipes.yahoo.com
AIDS Posters Map

- Wellcome library uses Fusion Tables, catalog data and a map to show where AIDS posters can be found in the world

goo.gl/cHWBdR
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