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

Growth In Web APIs Since 2005

MONTH

API COUNT

JUN 2005 0
MAR 2006 186
MAY 2007 299
JUL 2008 438
SEP 2009 593
NOV 2010 865
APR 2011 1263
JUN 2011 1546
AUG 2011 2026
OCT 2011 2418
JUN 2012 3422
AUG 2012 5018
MAR 2013 7182
OCT 2013 9011
JUN 2014 10302
API Growth Since 2009

Growth of Top 10 Web API Categories Since 2009

ProgrammableWeb
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

https://www.google.com/fusiontables/data?dsrclid=implicit
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
Visualize Stats

- 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
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/
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
Tweet Weather

- Warn patrons that the library might be closed via Twitter

[Recipe](http://ifttt.com)

**Recipe Title**

If tomorrow’s forecast calls for snow, then post a tweet to @nengard

use '#' to add tags
Keep a career log

• Use IFTTT to track your career in a spreadsheet
• Grab related calendar events
• Grab LinkedIn updates
• Grab new presentations shared on SlideShare

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
Analyze Congress

• Regime (www.tetoncode.com/regime/) gathers info from Sunlight labs, Open Secrets, New York Times & more to show you information about congress
Nicole Engard follows up her highly regarded Library Mashups (2009) with a fresh collection of mashup projects that virtually any library can emulate, customize, and build upon. In More Library Mashups, Engard and 24 creative library professionals describe how they are mashing up free and inexpensive digital tools and techniques to improve library services and meet everyday (and unexpected) challenges.

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, Umlaut, and Libki to engage users, staff, and the community.

“There’s something useful [here] for all types of librarians, from reference to systems to catalogers. Whether you code or not, you’ll find great ideas throughout.”

“Engard has once again pulled together a wonderful treasure trove of creative ideas and detailed examples for enhancing catalogs, visualizing data, adding services to your website, improving productivity, and more. Not a tech or coding guru? This book is still for you! Read the chapters for inspiring ideas, then dig in and let your imagination loose.”
—Polly-Alida Farrington, consultant, PA Farrington Associates

Learn More: http://mashups.web2learning.net
Book Signing
Tonight
40% off
Information
Today Booth
#217
5pm-6pm
“The thing I liked best about the book was that although the chapters provided the basic info to get you started on the particular mashup being discussed, it stimulated my own thinking about new and different mashups that we could pursue. And a book that makes you think beyond the content of its pages is a good book indeed.”

—Sarah Houghton, Librarian in Black, on Library Mashups

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Thank You

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