

Web Services Bootcamp, Part 2

Mashups and APIs

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Overview

- What is a Mashup?
- Apps and Demos
- Getting Started with APIs
- Code Walkthrough
- Play with Tools
- Building a Mashup
- Questions

When I say “mashup”, you
say...

Videos - Browse and Search

go2collegeMT is actively creating and developing new media for our efforts. Our videos are also available on our [go2collegeMT YouTube channel](#).

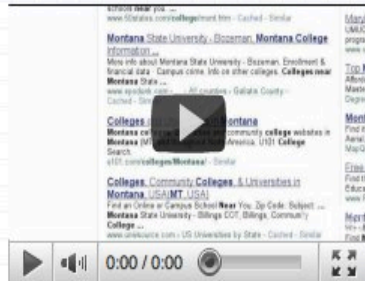
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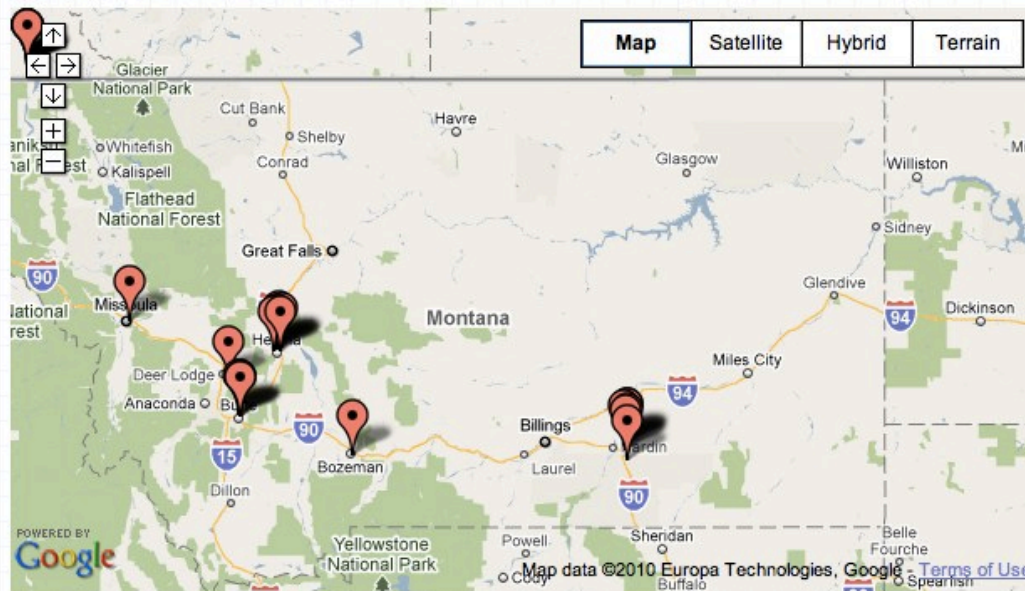


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Videos - Browse Locations

go2collegeMT Videos by Location



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Yellowstone Park

General information

✉ [United States](#) 

Animals you might see

[American Badger](#)

[American Beaver](#)

[American Bison](#)

[American black bear](#)

[Brown Bear](#)

[Coyote](#)

⊕ Have you been here?

Tell us which animals you saw.

I saw a

[Search](#)

Average rating

Based on ratings of 1 trip by 1 spotter.

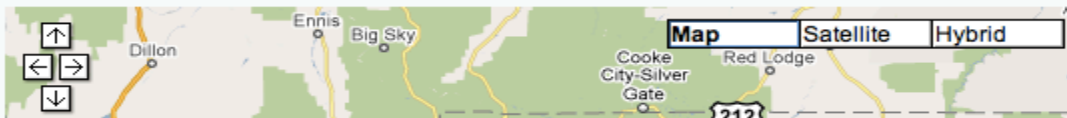


⊕ Have you been here? Why not [add your trip?](#)



Have we got our facts right? [Suggest changes](#) to our information

Photos



Mashup

“a web page or application that uses and combines data, presentation or functionality from two or more sources to create new services.”

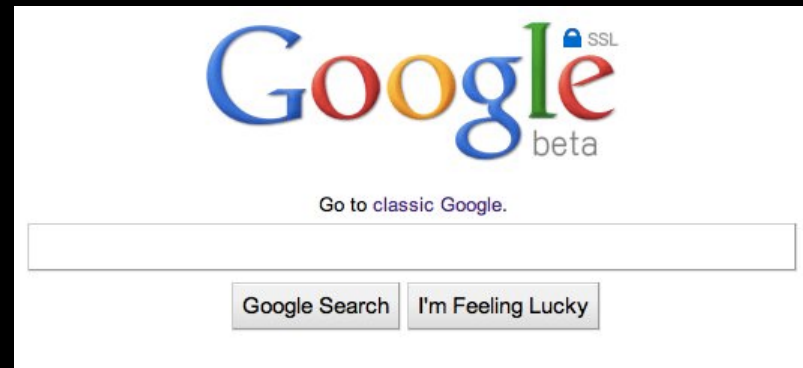
Source: [http://en.wikipedia.org/wiki/Mashup_\(web_application_hybrid\)](http://en.wikipedia.org/wiki/Mashup_(web_application_hybrid))

Choosing APIs

- Outsourcing?
- What Criteria?

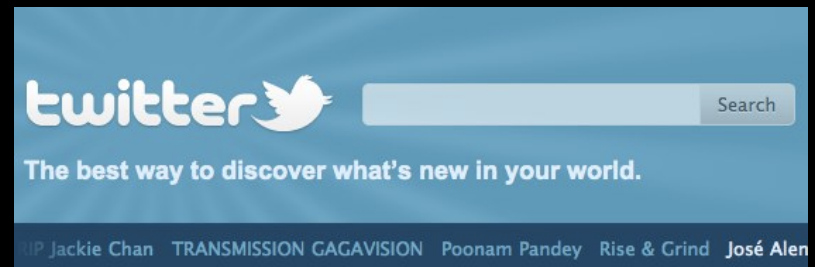
Choosing APIs

- Stability of Company



Choosing APIs

- Are they a client of their API?



Choosing APIs

- Active Developer Community

 **OCLC**® Developer Network

WorldCat Mashathon U.S.

[View](#) [Repeats](#)

Date/Time:
• 04/07/2011 - 5:00am - 04/08/2011 - 5:00am

Time Zone: Local time

Location: Washington, DC | Columbus, OH | San Mateo, CA

Please [Login](#) to register for this event.

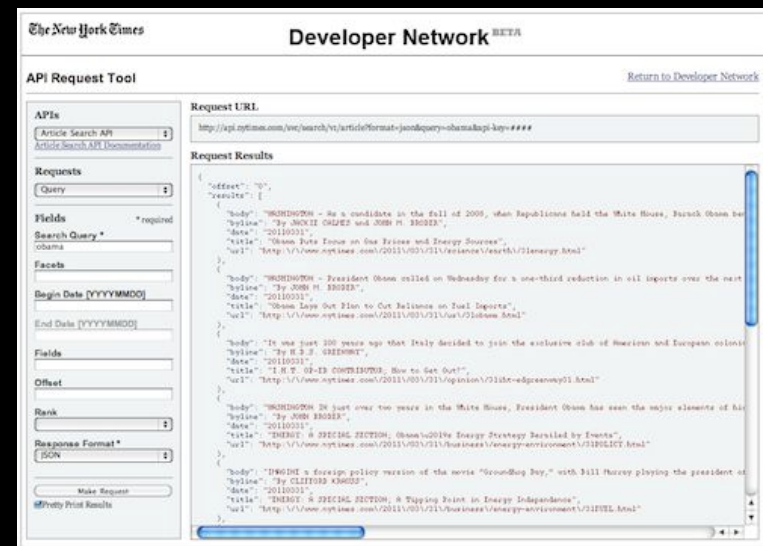
Cost: US\$ 30

Event Tag: #mashus11



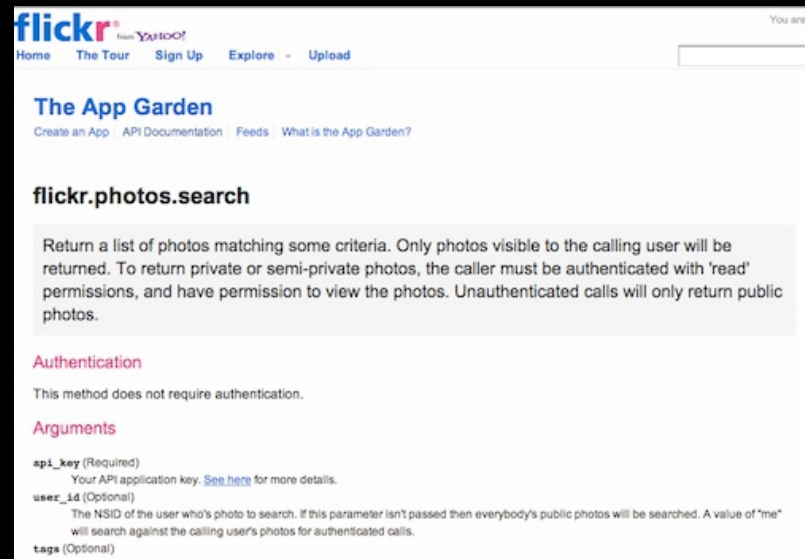
Choosing APIs

- Query Testing Console, GUI



Choosing APIs

- Solid Documentation



API Content Types

- Geographic and News APIs
- Media APIs
- Bibliographic APIs

* Types are not limited to these content types. I have limited our scope for the class.

Geographic and News APIs

- Google Maps
- HTML5 Geolocation API
- Google Feed API
- New York Times APIs

Geographic and News APIs

“About half of the queries on Google have a geographic component.”

Source: Andrew Foster, product manager at Google
<http://www.guardian.co.uk/technology/2010/jun/16/google-maps-property-finder>

Geographic and News APIs

~~“Content is King”~~

Context is King...



hulu



Autoplay is ☐ off



December 17. 2005

Media APIs

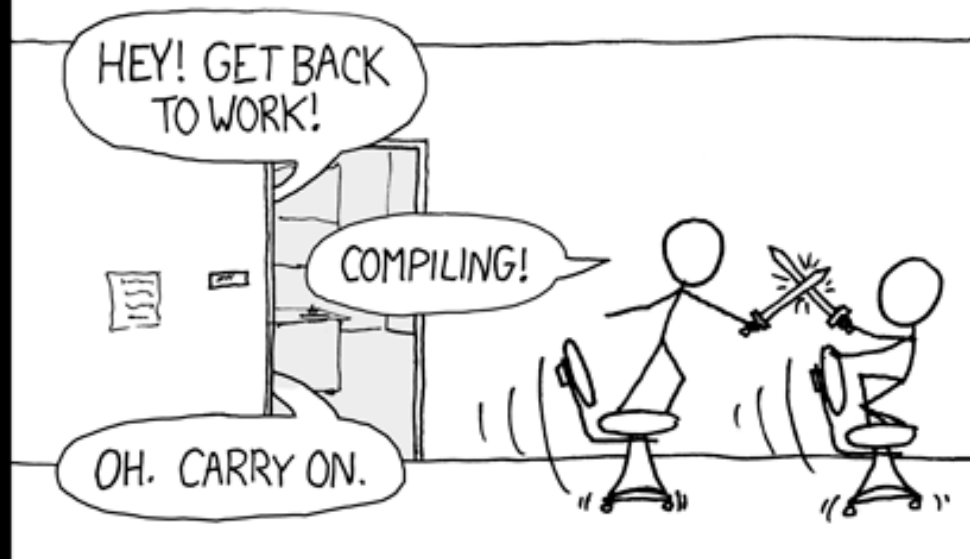
- YouTube
- Blip.tv
- Vimeo
- iTunes

* Media APIs trend toward embeddable and shared objects

Bibliographic APIs

- Google Books
- LibraryThing
- OCLC Web Services
 - Worldcat Search API
 - OpenURL Gateway
 - QuestionPoint Knowledge Base
 - xISBN, xISSN
 - Terminologies Service

THE #1 PROGRAMMER EXCUSE
FOR LEGITIMATELY SLACKING OFF:
"MY CODE'S COMPILING."



"Yeah, but I'm not a programmer..."

Your first Web Service Call...

- Google Static Map API

<http://www.lib.montana.edu/~jason/files/web-services/google-static-maps-api.html>

- Blog post explanation:
 - <http://diginit.wordpress.com/2011/03/18/mapping-your-location-with-google-static-maps-api-tutorial>

Getting Started

- Google Code Playground
- Yahoo Pipes
- Yahoo Query Language Console

Library Mashups?

- Amazon Related Items + Book Covers
- Google Maps + Digital Collections
- Flickr images + Slideshow = Library Tour
- OCLC Terminologies Services +
Cataloging Suggestions

Building a Mashup

1. Choosing your Sources
2. Drafting a Design and Layout
3. Making Requests for Data
4. Building a Display Layer
5. Scaling and Caching

Building a Mashup

Code Walkthrough with Demo App

- Page 13 on your class handout

www.lib.montana.edu/~jason/files/worldcat-basic/

Assignment 2

1. Pick one of the sample scripts.
2. Find a new data source (RSS feed or switch the tag).
3. Hack the code and replace with your new data source.
4. Create HTML file and submit to class page.

www.lib.montana.edu/~jason/files/web-services/

Questions?

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www.lib.montana.edu/~jason/talks.php