



Drupal Content API

August 2012

Matthew Wetmore
mattwetmore.com
@mwetmore

About Me

- Matt Wetmore
 - Mattwetmore.com
 - Currently work at ING U.S. in Windsor, CT
 - Using Drupal for 2.5 years
 - Twitter: @mwetmore
 - Central CT Drupal Meetup Organizer

About This Session

- Who is this session for?
 - Developers and Site Builders
- What modules will we cover?
 - Services (<http://drupal.org/project/services/>)
 - Content API (<http://drupal.org/project/contentapi>)
- What version of Drupal and other things
 - I'll be using D7, however, Services and Content API are available for D6.
 - Some quick code examples of actually using the API are written in JQuery.

More Than The Web

- Today's Content
 - Web
 - Mobile
 - Apps
 - Tablets
 - Readers
- Where does it all come from
 - Users, Companies, other Sites and systems
- How do you provide your content to all of the mediums that your visitors use.

Repositories and COPE

- Content Repositories are nothing new.
 - Organized content into structured pieces.
 - Contained Meta Data fields to structure it
 - Allowed the repository to be queried for specific items.
- COPE : Create Once Publish Everywhere
 - NPR Model
 - Lets create content in once place and use it everywhere
 - <http://blog.programmableweb.com/2009/10/13/cope-create-once-publish-everywhere/>
 - Reduces amount of duplicate content
 - Reduces the amount of incorrect data in other places.



DCCT 2012

Matthew Wetmore
mattwetmore.com
@mwetmore

How does this related to Drupal

- Believe it or not Drupal is setup to do some of this today.
 - CCK (Allows us to create different content types for different reasons)
 - Services & Content API (Allows you to connect and pull content out)
 - Views (Allows you to build pages of different content)
 - Panels (Compile content pienes into one page)
- Although D7 compiles and entire page and delivers it to the user, D8 should split the presentation and data layers to provide easier access to the underlying content.

Enter the Content API Module

- Content API Module
 - URL: <http://drupal.org/project/contentapi>
 - Created for the FCC by Seabourne Inc
- What it does
 - Runs on top of Services to provide a query based interface to access content in Drupal.
 - With Services, content is exposed as XML, JSON, JSONP, RSS, YAML
 - This is a Read Only process.
 - Can be accessed anonymously.

Wait a Second



- I know what you are thinking...
 - Doesn't the Services module already allow you to do this?
 - Yes, but not as easily, such as providing a query interface to the content.
 - Services will also allow Create and Delete actions, while Content API just allows Read Actions.

Configuring Services

- Download / Enable Content API First
- Download / Enable Services Module
- Create a new endpoint as a REST Server
- Under Resources, enable Content.
- Save

Lets give this a try.

Configuring Content API

- Select which core node fields should be available.
- Configure the limit to return.
- Select Node Type, Sort Order, etc.
- Specific fields can then be selected within each content type.

Lets give this a try.

Using Content API Direct - Part 1

- Default Configuration
 - `http://site-name/api/content`
 - This will return the last 10 nodes.
 - `http://site-name/api/content/[nid]`
 - This will return a specific node.

Lets give this a try.

Using Content API Direct - Part 2

Parameters:

- **search_string=[test]** Matches the string [test] against node titles
- **type=[type]** Returns only a single node type
- **types[]=[type]** Returns only the input node types types[]=blog&types[]=page
- **terms[]=[term id]** Returns nodes labeled with any of the input terms
- **title=[title]** Returns a node with an exact title match
- **created_before=[YYYY-MM-DD]** Inclusive. Returns nodes created before the input date
- **created_after=[YYYY-MM-DD]** Inclusive. Returns nodes created after the input date
- **changed_before=[YYYY-MM-DD]** Inclusive. Returns nodes updated before the input date
- **changed_after=[YYYY-MM-DD]** Inclusive. Returns nodes updated after the input date
- **fields=all** Show all fields for a node, includes CCK, body, taxonomy etc.
- **fields[]=[field]** The fields parameter can instead be an array of the fields you want returned. For example fields[]=nid&fields[]=title will only return the node's nid and title.

CCK Queries:

Any field can be queried by using field_[field name]=[value]. Example: /api/content?field_coauthor=jason will return all nodes with a cck coauthor field containing the value "jason." Note that only exact matches are currently support for CCK queries.



Using Content API Direct - Part 3

Lets give this a try.

Examples:

[http://mw.dev/repository/radio/xml/content?terms\[tags\]=7](http://mw.dev/repository/radio/xml/content?terms[tags]=7)

http://mw.dev/repository/radio/xml/content?field_show_day=tuesday

http://mw.dev/repository/radio/json/content?type=radio_show

<http://mw.dev/repository/radio/json/content/15>

<http://mw.dev/repository/radio/xml/content/15>

http://mw.dev/repository/radio/xml/content?field_show_station=1041

http://mw.dev/repository/radio/json/content?field_show_station=925

Ways to use it

- Other Web Pages
 - You can build simple widgets to display specific content
- Other Web Apps
 - Use Drupal content in Ruby, or Java, or other apps.
- Mobile Apps
 - Mobile apps consist of content similar to your website, why not source it from the same location

Quick Web Page Example

MATTWETMORE.COM



My name is Matt Wetmore, and I am a Web Developer from the Hartford, CT area. I like to build interesting

sites using some of the latest technology on the web, this personal site helps me show-off what I can do.

Resume



This is the most up-to-date version of my resume, you can always contact me with any other questions.



LATEST TWEETS



[about an hour ago](#) RT [@BarisW](#) Just wrote a new blog post on how-to easily import Tweets into Drupal using JSON and Feeds: [bit.ly/SxtiPY](#) [#drupal](#)



[about 4 hours ago](#) [@timgorecki](#) My peer drupal developer, know anyone? haha



[about 4 hours ago](#) RT [@drupalcampct](#) [#drupalcampct](#) is tomorrow already! Are you ready? Registration starts at 8am! [#drupal](#)

LATEST ARTICLE

DrupalCampCT 2012

I've been working with a great team of people this to help put on Drupal Camp CT, which is being held at Yale University on August 18th, 2012.

We try every year to make sure that Drupal Camp CT is a great day for Drupal beginners, developers, and designers

This year I will be presenting on two topics:

DCCT²⁰¹²

Matthew Wetmore
mattwetmore.com
[@mwetmore](#)

Quick Web Page Example

- mattwetmore.com is the base site, and it just a quick HTML page built off of Skeleton boilerplate.
- JQuery is used to make requests to the repository.
- The Drupal repository is located at <http://mattwetmore.com/repository>
- The entire page, including Tweets and Instagram are just other jquery json requests to each of those services to pull the content in.
- Example JSon request to the content API.
 - ```
$.getJSON("/repository/api/json/content/3", function(data){
 $('#bio').empty();
 $('#bio').append(data.body[0].value);
});
```
- This is a simple solution because it is on the same domain, cross-domain is trickier but it can be done.

# Thank You!

---

Any Questions?

**If you are from CT, can you please take the CT Drupal Meetup Survey?**

**[bit.ly/RWsfvv](http://bit.ly/RWsfvv)**

**Also, be sure to follow the CT Drupal twitter account:**  
**[@ctdrupal](https://twitter.com/ctdrupal)**