



Webdrips.com: Your Higher
Education Technology Partner
for Drupal

What's New in Drupal 8.7 and other Drupal 8 Awesomeness

Dan Harris, Webdrips CTO

About Dan Harris & Webdrips

I've been working with Drupal for almost 12 years, and loving every minute.

We're a full stack end-to-end design and development service agency that provides consulting resources to help guide, plan, and execute business ideas.

We have extensive experience working with higher education and businesses from small to Fortune 100 in size.

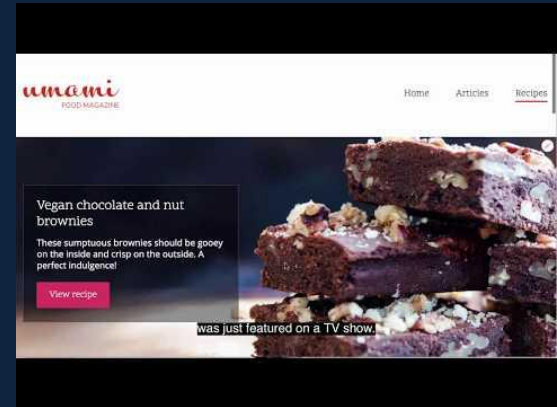
We're a minority female owned company.

Overview & Agenda

- Layout Builder is Improved and Stable (Video and Demo)
- Improved Media Library User Interface (Video)
- JSON:API is now in Core & Stable (Video & Demo?)
- Built in Umami Demo Now Multilingual & Accessible
- End of PHP 5 Support; PHP 7.3 now Supported
- Automatic Entity Updates has been Removed :(
- Revisionable Custom Menu Links & Taxonomy Terms
- Internet Explorer 9/10 Workarounds no Longer Supported :)
- Demo of Drupal 8.7 Including Many Core Authoring Features

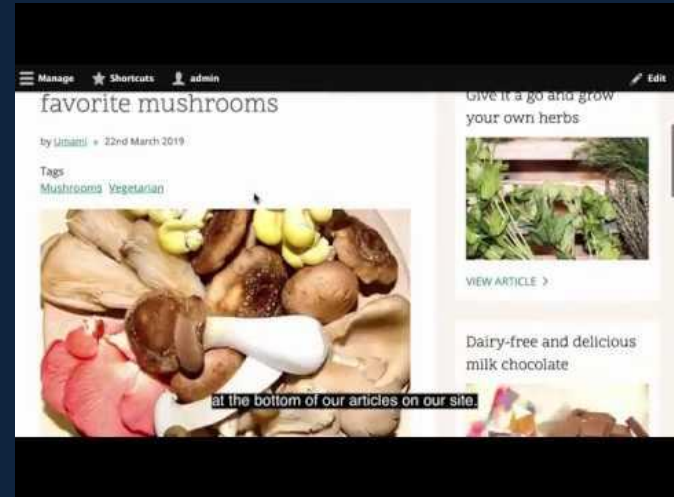
Layout Builder is Improved & Stable

- Page Layout tool is Ready for Production use
 - Powerful
 - Mobile-friendly
 - Accessible
 - Revisionable
 - Works with Workflows
 - Provides Context-based Previews (Toggle on/off)
- Rapidly Create Layouts without Hiring an Agency
 - Usable by Content Authors
 - Drag & Drop Content Blocks
- Game Changer



Improved Media Library User Interface

- The (still Experimental) Media Library has
 - A Stylish new Look
 - An Improved User Interface that supports drag-and-drop
 - Improved Accessibility
 - Support for Inline Media Creation
 - A flexible Grid/Table view
- Will be Stable in 8.8 (to be released late this year)



JSON:API is now in Core & Stable

- What is JSON:API?
 - A Specification for how
 - Clients that Request Resources Be Fetched or Modified
 - A Server Should Respond to those Requests
 - It's Designed to Minimise both
 - # of Requests
 - Amount of Data Transmitted between Clients and Servers
 - The Efficiency is Achieved without Compromising
 - Readability
 - Flexibility
 - Discoverability
- This is the Fifth Module in D8's "Web Services" package

JSON:API - What can it do?

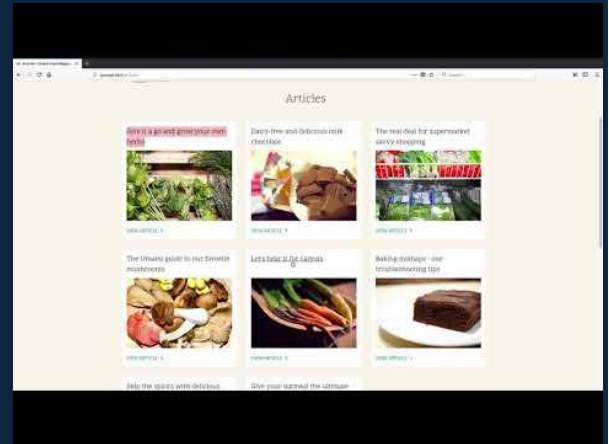
- Provide Fast/Easy Method to build [“Decoupled” Applications](#)
- Expose Entity Information to be Referenced By 3rd Party Applications
 - The “Payload” Delivered by Drupal Modified Using only Parameters
 - Simply Access the Desired info using
 - URLs with UUIDs
 - Standard HTTP GET/POST Methods
- Create Content Models (Architecture) in Drupal’s UI (Like Normal)
 - Without Writing any Code
 - Output after JSON:API is Added is a Standards-compliant API
 - Content can be Pulled into JS Apps, Digital Kiosks, Chatbots, etc.

JSON:API Enables Access to all Drupal Entities

- Using the Module, ALL Existing Website Entities can be Accessed
 - Blog Posts
 - Users
 - Tags
 - Comments
- Access API Provides Standardized Method for
 - Reading/Modifying Entities
 - Fetching Entity References
 - Fetching only Desired Data (e.g. Title)
- Querying Entities is Possible without any Config (e.g. a View)
 - Front End Developers can Start Immediately

JSON:API Example

- Setup:
 - Enable Module & Configure Permissions
 - Navigate to <https://example.com/jsonapi/...>
- Suppose you've created a Sports Stats Site
 - A Decoupled app (Android/iPhone etc) can be created to consume the site's data
 - The App Controls the Formatting/Theme
 - The App can provide filters to send params to refine results
 - Example: only show pitching stats from SF Giants
 - Watch Video... (Tool used in Video is called Postman)



Built in Umami Demo Now Multilingual & Accessible

- What you've been Seeing in the Dries Videos is the Umami Demo
 - Includes more Features out-of-box
 - Welcome “Tour” (Clickthrough Tutorial using the Tour module)
 - Layout Builder Integration
 - Multilingual Support includes Spanish Translations
- What's Even Better than Umami?
 - <https://demo.webdrips.com> (Covered Later)
 - Features ALL the Main Authoring Features except Workspaces
 - Includes Multiple Tours
 - Is Free and only takes a Moment to Sign up for
 - Try Drupal 8 Before you Upgrade or Select it

End of PHP 5 Support; PHP 7.3 now Supported

- Existing sites will still function on PHP 5.5.9 for now
 - You will see warnings if logged in
 - Drupal Security Updates will require PHP 7 as of Drupal 8.8.0
 - You have about 6 months to upgrade PHP from today
- Minimum PHP version is 7.0.8
 - Upgrade Dev now and Start Testing
 - Usually Hosting Provider can
 - Help Upgrade PHP
 - Provide Different PHP Versions per Directory on the Server

Automatic Entity Updates has been Removed :(

- Before 8.7.x, Entity Updates could be Synced via the Command Line
 - `drush entity:updates` (or `drush entup`) will no longer function
 - You must now use the UI to Manage Updates
- Why was it Removed?
 - It Sometimes Resulted in Conflicts with Regular dB Updates & Caused Data Integrity Issues
- There's hope: https://www.drupal.org/project/devel_entity_updates
 - Module depends on Devel
 - Not meant for Production
 - Restores the drush command
 - `drush updb --entity-updatesnot supported`

Revisionable Custom Menu Links & Taxonomy Terms

- Allows use in Editorial Workflows (Covered in Demo)
- The Entity system now Provides a new Update API
 - Supports Conversion of more Entity Types
 - The schema of any Content Entity Type Between
 - Non-revisionable or
 - Non-translatable and
 - Revisionable or
 - Translatable
- The Changes Improve Core Support for the [Workspaces module](#)

Internet Explorer 9/10 Workarounds no Longer Supported :)

- Drupal Dropped Support for IE 9/10 in 8.4.0
 - But 8.5 & 8.6 Retained Workarounds to Allow 32+ CSS files
 - Workaround Removed as of 8.7
 - If IE 9 is Required, CSS Aggregation is Required OR use the [IE9 Module](#)

DRUPAL 8.7.1 DEMO TIME





Q & A TIME

- dan@webdrips.com
- 800-930-2701 x 802
- @webdrips
- <https://webdrips.com>
- <https://demo.webdrips.com>