



LAGOS Y VOLCANES
DrupalCamp Nicaragua 2017

State of the Media Initiative

Lucas Hedding (heddn)

Gracias al SEAN BLOMMAERT

<https://www.drupal.org/u/seanB>

<https://twitter.com/seanBlommaert>

<https://tinyurl.com/state-media-initiative-antwerp>



iUnite a la comunidad!

<http://www.drupalnicaragua.org>

<https://groups.drupal.org/nicaragua>

<http://slack-drupalni.herokuapp.com>

<https://www.facebook.com/drupalni>

<https://twitter.com/drupalni>

<http://www.linuxtour.org/eventos/categorias/drupal>



Drupal
nicaragua

Patrocinadores



Favor proveer retroalimentación

- Se hace de forma anónima.
- Me ayuda a mejorar para la próxima vez que presente.

<http://bit.ly/drupalcampni2017-charlas>

Lucas Hedding (heddn)

- <https://www.drupal.org/u/heddn>
- <https://twitter.com/lucashedding>

○

- Freelance developer
- Started with Drupal 7
- 6+ years of Drupal
- Core Migrate Maintainer
- User of Media



**“It is still kind of weird that you can
install a CMS in 2017 and not be able to
just add a simple Youtube video”**

- Sean Blommaert -

DRUPAL 8 RIGHT NOW



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DRUPAL 8 RIGHT NOW

Basic support for:

- Local files and images (File / Image module)
- Responsive images (Responsive Image / Breakpoint)
- Embedding images in WYSIWYG (CKEditor built-in, Editor module)
- Accessibility features (alt/title tags) (Image module)
- Basic file listing (File module)

DRUPAL 8 RIGHT NOW

Nice things we don't have:

- Re-use of media
- Site-wide media library
- Organize media in folders/categories
- Remote media (YouTube / Twitter / Instagram / Brightcove etc.)
- Fieldable files
- Upload multiple files in one step (bulk upload)

Based on survey, over 200 responses: <https://tinyurl.com/d8-media-survey>



MEDIA EVOLUTION



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DRUPAL 6

Core

- Attach files to nodes (Upload module)
- ...pretty much nothing else

Contrib

- FileField and ImageField CCK modules
- Imagecache for image processing
- IMCE for embedding files in WYSIWYG



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Drupalcamp Naranjito 2011

DRUPAL 7

Core

- CCK FileField → File
- CCK ImageField → Image
- Imagecache → image styles

Contrib

- Responsive images via Picture/Breakpoint
- Media and File Entity contrib modules:
 - Re-use of media
 - Site-wide media library
 - Fieldable files
 - Upload multiple files in one step
 - All media was treated as files

DRUPAL 7

Advanced contrib functionality:

- Media CKEditor
- Media oEmbed
- Media YouTube
- Plupload
- Entity embed
- ~10 different ways to crop images

<https://www.drupal.org/node/1179172> #WTF



DRUPAL 8

File Entity

- Fieldable files
- **Don't use it for new sites!**

Media Entity

- More abstracted view of media (API module)
- Straightforward to extend
- Integration for:
Document / Image / Twitter /
Instagram / Brightcove, etc.
- Video Embed Field
standalone system with Media Entity integration



DRUPAL 8

Advanced contrib functionality:

- Entity Browser - Entity reference widget on steroids
- Entity Embed - Builds on Embed API to put Drupal entities into CKEditor
- Inline Entity Form - Widget for creating and editing entities in a sub-form

...and URL Embed, Crop API, Image Widget Crop, Focal Point, Field Formatter, DropzoneJS, etc.

THE MEDIA INITIATIVE



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THE MEDIA INITIATIVE

Goals:

- Implement the basic media handling experience you'd expect in any decent CMS
- Create a robust foundational API for contributed modules
- Limited OOTB core functionality
- A foundation for integrating with third-party media services and DAMs

Three “phases”...

THE MEDIA INITIATIVE

Phase one: Essentials (MVP)

- Define the Drupal media APIs, derived from Media Entity
- Parity with the File and Image modules
- oEmbed support
- Media Library for easy re-use of media
- WYSIWYG embedding

THE MEDIA INITIATIVE

Phase two: Extras

- Shiny stuff in contrib!
- Multi-upload, image cropping, better browsing, advanced embedding, ...?
- Written with an eye towards core adoption



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THE MEDIA INITIATIVE

Phase three: Extend

- This is all going to be in contrib
- Media can be complicated (licensing, adverts, etc.), can't solve every use case
- Core APIs should be extendable for less common uses (DAM integration, etc.)

ARCHITECTURE



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ARCHITECTURE

Built on top of standard entity API's

- Media is a content entity
- Media Types are config entities
- Media are not necessarily files
- The power of media is the source plugins:
Media > Media Type > Source plugin

ARCHITECTURE

Source plugins

- Each media type is associated with a source plugin
- Responsible for all logic concerning how media is stored
- Responsible for validation
- Can fetch arbitrary metadata

The source plugin depends on and maintains a configurable field as its main data source.

ARCHITECTURE

Media Library

- Pared-down version of contrib solutions (Lightning, Thunder, File Browser, etc.)
- Based on views
- NOT an API -- for advanced customization, use Entity Browser
- Displays items in a customizable view using a customizable display mode
- A new widget for media entity reference fields
- Allows reuse of media assets, but not creating them (that'd be nice to have)
- Experimental module, separate from Media

ARCHITECTURE - Media Library

Media Library MVP | Prototype v0.8 [X](#)

+ Add new media

All Categories [Images](#) [Video](#) [Audio](#)

Sort: [Newest first](#) [Modify item](#) [Insert Selected to Page](#)

The interface shows a grid of 12 media items. The fourth item in the top row and the second item in the bottom row are highlighted with a blue border and contain a small blue checkmark icon in their top right corner, indicating they are selected.



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IMPLEMENTATION / ROADMAP



IMPLEMENTATION / ROADMAP

Media Entity in core

- Media Entity module, renamed Media - **DONE**
- Media Entity Document, merged into core Media - **DONE**
- Media Entity Image, merged into core Media - **DONE**
- Stable API (as a hidden module) - **DONE**

IMPLEMENTATION / ROADMAP

Before the module is shown (must haves)

- Migration path for contrib modules (targeted for 8.4)
- Widget for media reference fields providing file and image uploads (targeted for 8.5)
- Migrate module integration (targeted for 8.5)
- Migration path for core file/image (targeted for 8.5)
- Add media library (targeted for 8.6)

IMPLEMENTATION / ROADMAP

After the module is shown (should haves)

- Add a new source plugin for oEmbed support (targeted for 8.5)
- Add per-bundle permissions (targeted for 8.5)
- Improve metadata mapping for Source metadata (targeted for 8.6)
- Code improvements (more base classes, refactoring tests - targeted for 8.6)

IMPLEMENTATION / ROADMAP

ROADMAP ISSUE:

<https://www.drupal.org/node/2825215>



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FREQUENTLY ASKED QUESTIONS



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FREQUENTLY ASKED QUESTIONS

- We have some answers...
- **How do I port my module integrated with media_entity?**
There is a change record for that: <https://www.drupal.org/node/2863992>
- **Which modules should I use for my new Drupal 8 site right now?**
Use media_entity for now, an upgrade path will come. Be careful with custom code.
- **Can I use other contrib modules?**
All modules integrating with media_entity contrib should be ported, but storage will not change. At least for modules mentioned in this presentation it will be safe.

HELP US POR FAVOR!



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Vamos al Demo!



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Demo

- <https://www.drupal.org/project/lightning>
- composer create-project acquia/lightning-project
MYPROJECT



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