



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>



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# 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



# 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



# 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



# 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



# 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.**





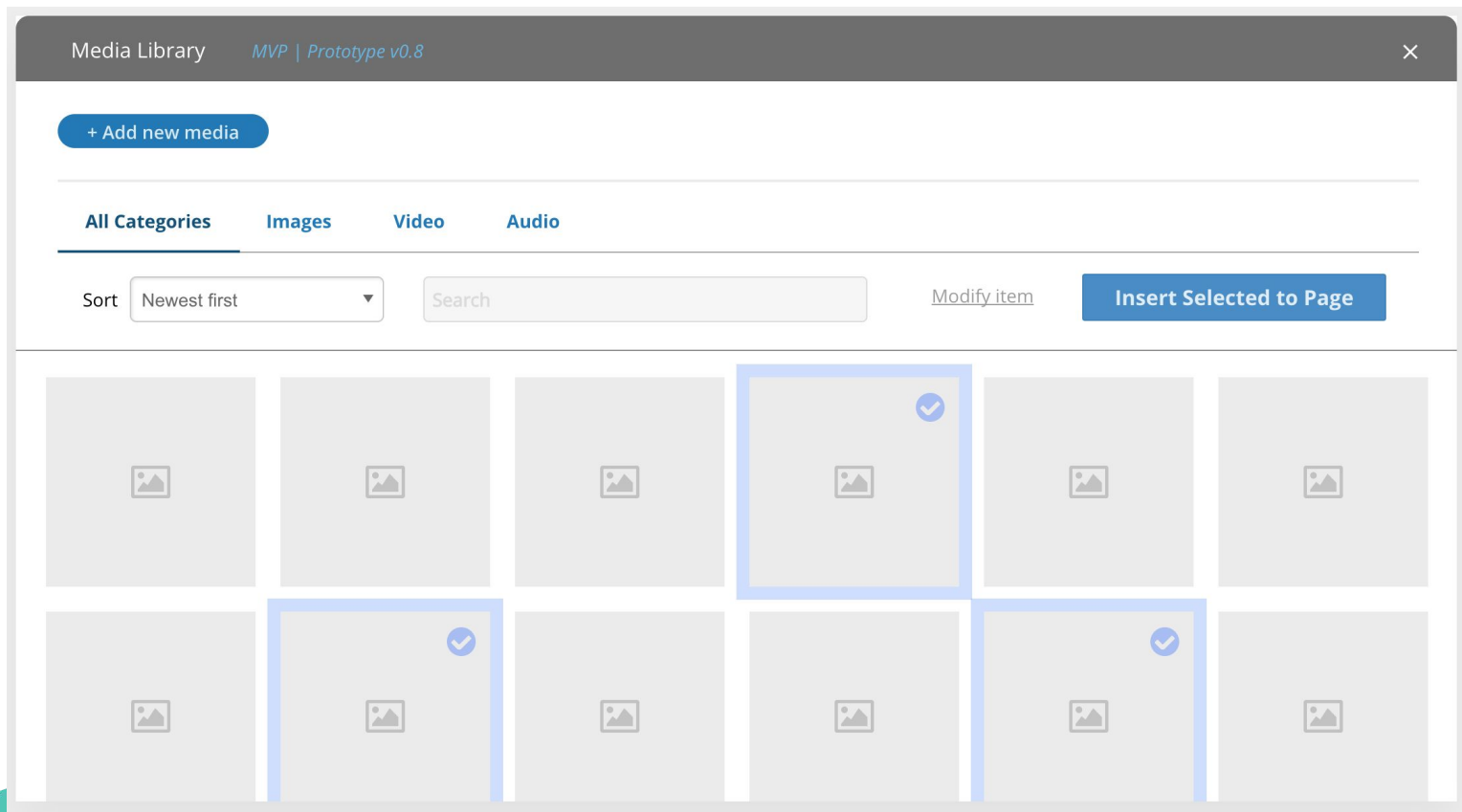
# ARCHITECTURE

## 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



# **IMPLEMENTATION / ROADMAP**



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# 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 have)

- 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>



# **FREQUENTLY ASKED QUESTIONS**





# 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!



# Demo

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



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