

Media has [finally] landed in Drupal core



Presented by Chris Burge

Omaha Drupal Meetup (Q1)
March 25, 2020

Digital Experience Group (DXG)
University of Nebraska-Lincoln

IN OUR GRIT, OUR GLORY™

- Provides default bundles
 - Audio
 - Document
 - Image
 - Remote Video
 - Video
- Fieldable entities
- Configurable form display
- Configurable display modes
- Metadata field mapping

Media entities: Metadata field mapping (Image)

FIELD MAPPING

Media sources can provide metadata fields such as title, caption, size information, credits, etc. Media can automatically save this metadata information to entity fields, which can be configured below. Information will only be mapped if the entity field is empty.

Name

Name ▼

MIME type

- Skip field - ▼

File size

- Skip field - ▼

Width

- Skip field - ▼

Height

- Skip field - ▼

Media entities: Metadata field mapping (Remote Video)

FIELD MAPPING

Media sources can provide metadata fields such as title, caption, size information, credits, etc. Media can automatically save this metadata information to entity fields, which can be configured below. Information will only be mapped if the entity field is empty.

Resource type

Resource type ▼

Resource title

Name ▼

The name of the author/owner

Author Name ▼

The URL of the author/owner

Author URL ▼

The name of the provider

Provider Name ▼

The URL of the provider

Provider URL ▼

Suggested cache lifetime

Suggested cache lifetime ▼

Default name of the media item

Default name of the media item ▼

Local URI of the thumbnail

Local URI of the thumbnail ▼

Thumbnail width

Thumbnail width ▼

Thumbnail height

Thumbnail height ▼

The source URL of the resource

The width of the resource ▼

The width of the resource

The width of the resource ▼

The height of the resource

The height of the resource ▼

The HTML representation of the resource

The HTML representation of the resource ▼

Upload a Remote Video

The website encountered an unexpected error. Please try again later.

- What happened?

<https://www.drupal.org/project/drupal/issues/3060292>

Upload a Remote Video

Issues

Drupal\media\Entity\Media::prepareSave should convert URL object metadata to string before saving

[View](#) [Edit](#) [View history](#)

Problem/Motivation

Media bundles allow for source values to be mapped to fields on the bundle. The mapping is executed in `Drupal\media\Entity\Media::prepareSave`. There is an issue with how URLs are processed. Sometimes the metadata value is a string. Other times it is a `\Drupal\Core\Url` object. When the mapped value is saved, the assumption is that the value is a string. Take a look at `Drupal\media\OEmbed\Resource::getAuthorUrl`. This method calls `Drupal\Core\Url::fromUri`, which expects to receive a string. If it receives a URL object, then the result is a fatal error.

Steps to reproduce

1. Create a 'Remote Video' media bundle
2. Create an 'Author URL' field (Link field)
3. Map this field to 'The URL of the author/owner'
4. Attempt to add a YouTube video as a Media entity
5. Note the following error for a Link field: Recoverable fatal error: Object of class `Drupal\Core\Url` could not be converted to string in `/app/web/core/lib/Drupal/Core/Url.php` on line 281

If the mapped field is a text field, then then the result is a different fatal error:

Or the following error for a Text field: `<code>` Uncaught PHP Exception `Drupal\Core\Entity\EntityStorageException: "Expected argument of type "string", "Drupal\Core\Url" given"` at `/app/web/core/lib/Drupal/Core/Entity/Sql/SqlContentEntityStorage.php` line 847

Needs review

Project:	Drupal core
Version:	8.9.x-dev
Component:	media system
Priority:	Normal
Category:	Bug report
Assigned:	Unassigned
Reporter:	Chris Burge
Created:	7 Jun 2019 at 11:08 CDT
Updated:	28 Oct 2019 at 15:02 CDT

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- Providers are downloaded from <https://oembed.com/providers.json>
- Providers are allowed/disallowed per media bundle
- UI only provides settings for YouTube and Vimeo

MEDIA SOURCE CONFIGURATION

It is potentially insecure to display oEmbed content in a frame that is served from the same domain as your main Drupal site, as this may allow execution of third-party code. [You can specify a different domain for serving oEmbed content here](#) (opens in a new window).

Video URL field is used to store the essential information about the media item.

Thumbnails location *

Thumbnails will be fetched from the provider for local usage. This is the URI of the directory where they will be placed.

Allowed providers

☒ YouTube☒ Vimeo

Optionally select the allowed oEmbed providers for this media type. If left blank, all providers will be allowed.

oEmbed: What happens if I disable a provider?

- When a provider is enabled, it can then be used for new media.
- When a provider is disabled
 - it cannot be used for new media
 - existing media for disallowed oEmbed providers are unaffected
- Since oEmbed basically facilitates an iframe whitelist, isn't that a security issue?? (Think about how input filters work.)



oEmbed: What if I want to use a provider other than YouTube or Vimeo?

- Use `hook_media_source_info_alter()` to modify the sources array.
- Can add or remove providers for media bundle config.

```
/**
 * Implements hook_media_source_info_alter().
 */
function custom_media_media_source_info_alter(array &$sources) {
  // Remove Vimeo.
  $keys = array_keys($sources['oembed:video']['providers'], 'Vimeo');
  $key = reset($keys);
  unset($sources['oembed:video']['providers'][$key]);
  // Add custom UNL MediaHub.
  $sources['oembed:video']['providers'][] = 'UNL MediaHub';
}
```

oEmbed: What if I want to use a provider other than YouTube or Vimeo?

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Allowed providers

☒ YouTube

☐ UNL MediaHub

Optionally select the allowed oEmbed providers for this media type. If left blank, all providers will be allowed.

oEmbed: What if I want to use a provider other than YouTube or Vimeo?

<https://www.drupal.org/project/drupal/issues/2965985>

Issues

Allow site builders to enable oEmbed providers

[View](#) [Edit](#) [View history](#)

Problem/Motivation

This issue is spun off from UX team feedback in [#2831944-203: Implement media source plugin for remote video via oEmbed](#).

Currently, the oEmbed system is written in a way that only certain oEmbed providers are allowed to be used. This behavior was implemented for security reasons and is enforced in code, although it can be easily overridden by developers. Site builders, however, cannot enable additional oEmbed providers -- no UI or documentation is exposed for that.

This was done intentionally, because there are potential security hazards that come with enabling additional (potentially unknown or untrusted) oEmbed providers. We wanted to make sure it *could* be done, but only by developers, since they would likely be in the best position to understand and mitigate the security risks.

However, the UX team wanted to know if it would be possible to create a UI to expose additional oEmbed providers. We decided to discuss, and possibly implement that, in a new issue. This issue, to be precise.

Proposed resolution

Create a UI that would allow site builders to enable additional oEmbed providers.

Needs review

Project:	Drupal core
Version:	8.9.x-dev
Component:	media system
Priority:	Normal
Category:	Feature request
Assigned:	Unassigned
Issue tags:	Media Initiative , Security , oembed about tags
Reporter:	phenaproxima
Created:	25 Apr 2018 at 08:27 CDT
Updated:	26 Aug 2019 at 12:29 CDT

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oEmbed: How do I add a custom provider?

- Write a custom module and decorate the `media.oembed.provider_repository` service
- Patch core to use `hook_oembed_providers_alter()`



oEmbed: How do I add a custom provider?

<https://www.drupal.org/project/drupal/issues/3008119>

Issues

Provide hook_oembed_providers_alter()

[View](#) [Edit](#) [View history](#)

Problem/Motivation

Currently, when `https://oembed.com/providers.json` is fetched to generate a list of available oEmbed providers, there is no opportunity to alter the list of providers.

This would be useful in scenarios such as 1) [Peer Tube](#) and 2) oEmbed providers that may be organization-specific. Peer Tube is a decentralized video platform. The user can search videos across multiple instance of PeerTube with different domain names. Re custom oEmbed providers, the University of Nebraska–Lincoln hosts its own video service, which will soon support oEmbed. This functionality is needed by this organization.

Proposed resolution

Provide `hook_oembed_providers_alter()`. (Media already provides `hook_oembed_resource_url_alter()`).

Remaining tasks

- ~~Submit patch~~
- ~~Tests pass~~
- Subsystem maintainer review
- ~~Change record~~

User interface changes

None.

Needs review

Project:	Drupal core
Version:	8.9.x-dev
Component:	media system
Priority:	Normal
Category:	Feature request
Assigned:	Chris Burge
Issue tags:	Media Initiative , oembed
Reporter:	phjou
Created:	20 Oct 2018 at 21:29 CDT
Updated:	2 Mar 2020 at 09:36 CST

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Change record drafts

oEmbed: How do I add a custom provider?

- Patch core to use `hook_oembed_providers_alter()`

```
/**
 * Implements hook_oembed_providers_alter().
 */
function custom_media_oembed_providers_alter(array &$providers) {
  // Add UNL MediaHub as oEmbed provider.
  $providers[] = [
    'provider_name' => 'UNL MediaHub',
    'provider_url' => 'https://mediahub.unl.edu',
    'endpoints' => [
      [
        'schemes' => [
          'https://mediahub.unl.edu/media/*',
          'http://mediahub.unl.edu/media/*',
        ],
        'url' => 'https://mediahub.unl.edu/oembed',
        'discovery' => 'false',
      ],
    ],
  ];
}
```

Note: This may get replaced with a YAML implementation.



Media: Can we talk about view modes?

- Remote Video: Remote Video view mode
- Image: Narrow and Wide view modes

Media

NAME	OPERATIONS
Full content	Edit ▼
Media library	Edit ▼
Narrow	Edit ▼
Remote Video	Edit ▼
Wide	Edit ▼
Add new Media view mode	

Media: Can we talk about view modes?

- Remote Video
 - Display only Video URL fields as oEmbed content
- Image
 - Narrow
 - Display only Image field using Medium image style
 - Wide
 - Display only Image field using Large image style





[Switch to Live Demo](#)



- Provides a UI for uploading and managing media
- Provides integration with CKEditor for embedding



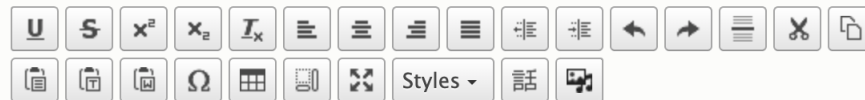
Media Library: CKEditor integration

- Configure a filter format
 - Replace Image button with Media Embed button

TOOLBAR CONFIGURATION

Move a button into the *Active toolbar* to enable it, or into the list of *Available buttons* to disable it. Buttons may be moved with the mouse or keyboard arrow keys. Toolbar group names are provided to support screen reader users. Empty toolbar groups will be removed upon save.

Available buttons



Button divider

Active toolbar



[Show group names](#)

Media Library: CKEditor integration

- Configure a filter format
 - Enable Embed media filter
 - Allowed HTML tags should be updated automatically

Ensures that the latest versions of images uploaded via a Text Editor are displayed.

☒ Embed media

Embeds media items using a custom tag, `<drupal-media>`. If used in conjunction with the 'Align/Caption' filters, make sure this filter is configured to run after them.

Filter processing order

[Show row weights](#)

⊕ Limit allowed HTML tags and correct faulty HTML

⊕ Align images

⊕ Caption images

⊕ Restrict images to this site

⊕ Track images uploaded via a Text Editor

⊕ Embed media



Media Library: CKEditor integration

- Configure Embed media plugin

Limit allowed HTML tags and correct faulty HTML
Enabled

Embed media
Enabled

Default view mode
Default

The view mode that an embedded media item should be displayed in by default. This can be overridden using the data-view-mode attribute.

Media types selectable in the Media Library
☐ Audio
☐ Document
☒ Image
☒ Remote video
☐ Video
If none are selected, all will be allowed.

View modes selectable in the 'Edit media' dialog
☐ Default
☐ Full content
☐ Media library
☒ Narrow
☒ Remote Video
☒ Wide
If two or more view modes are selected, users will be able to update the view mode that an embedded media item should be displayed in after it has been embedded. If less than two view modes are selected, media will be embedded using the default view mode and no view mode options will appear after a media item has been embedded.



Media Library: CKEditor integration

- Let's insert a video

[Home](#) » [Page with Video](#)

Title *

Body ([Edit summary](#))

B **I**       Normal  Source

body p

Text format [About text formats ?](#)

Media Library: CKEditor integration

- Let's insert a video

Add or select media

Image

Remote video

Add Remote video via URL *

Add

Allowed providers: YouTube, UNL MediaHub.

Name

Sort by

Newest first

Apply filters

Grid

Table



Farm Bill Details and Decisions (...)



Glow Big Red 2020 Thank You

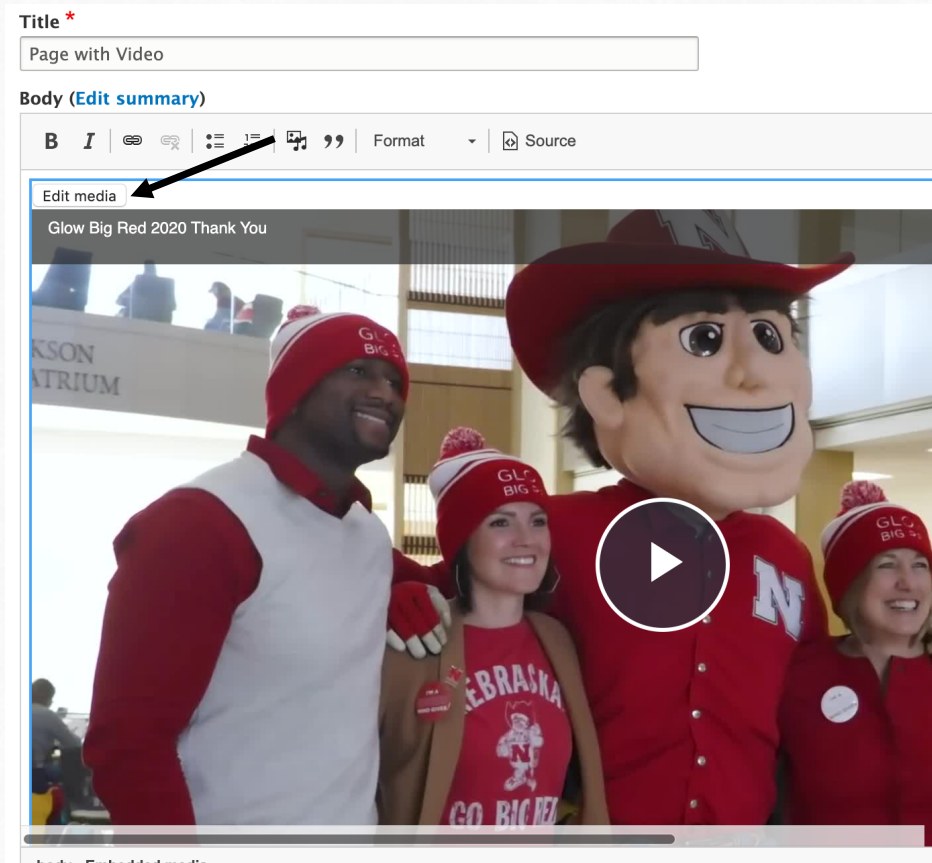


Insert selected

0 of 1 item selected

Media Library: CKEditor integration

- Let's insert a video



Media Library: CKEditor integration

<https://www.drupal.org/project/drupal/issues/3092795>

Issues

[regression] Restore styling for embedded media edit button in Seven theme

[View](#) [Edit](#) [View history](#)

Problem/Motivation

Unthemed Edit Media button:

Body (Edit summary)

CKEditor interface showing the "Edit media" button. The button is unthemed and appears as a plain text link. The image being edited is a rainbow-colored cat with a unicorn horn.

Text format: Full HTML

Needs review

Project:	Drupal core
Version:	8.9.x-dev
Component:	media system
Priority:	Normal
Category:	Bug report
Assigned:	Unassigned

[oknate](#)

6 Nov 2019 at 10:51 CST

25 Feb 2020 at 12:14 CST

11 followers

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Media Library: CKEditor integration

- Let's talk about default view modes
- When inserted, media is inserted with the default view mode
- 'data-view-mode' is dropped for default view mode
- If 'data-view-mode' is missing, then it's assumed to be the default
- What happens if the default view mode changes?
- DATA LOSS HAPPENS

Body ([Edit summary](#))

B *I* | | | | Format | Source

```
<drupal-media data-align="center" data-entity-type="media" data-entity-uuid="f2339d11-2b41-4a63-8b6e-385fc0e3005b"></drupal-media>
```

Media Library: CKEditor integration

<https://www.drupal.org/project/drupal/issues/3109289>

Issues

MediaEmbed conflates default view mode with user-selected view mode

[View](#) [Edit](#) [View history](#)

Problem/Motivation

The new MediaEmbed functionality added in 8.8.0 incorrectly conflates a text format's MediaEmbed default view mode with the view mode selected by an editor when embedding the media. If the default view mode for the text format is changed, this will result in corruption of data. The implicit relationship with the embeds using the previous default view mode is now broken, and all of the previously embedded media that used the old embed are now displaying the new default view mode.

If an editor embeds media and selects what a site builder has designated as the default view mode, then that data (the 'data-view-mode' attribute) is stripped from the `<drupal-media>` element. The editor is unaware this happens. From their point of view, they selected a view mode and expect that selection to be honored; however, from this point forward, MediaEmbed assumes that if a `<drupal-media>` element lacks a 'data-view-mode' attribute, then the view mode must be the current default view mode.

The following comment from `\Drupal\media\Form\EditorMediaDialog::buildForm()` pretty much sums it up:

```
// Store the default from the MediaEmbed filter, so that if the selected
// view mode matches the default, we can drop the 'data-view-mode'
// attribute.
```

Here's the catch. If that default view mode changes, then piece of embedded media that used the prior default view mode will now use the new default view mode. The editor's view mode selection

Needs review

Project:	Drupal core
Version:	8.8.x-dev
Component:	media system
Priority:	Major
Category:	Bug report
Assigned:	Unassigned
Reporter:	Chris Burge
Created:	27 Jan 2020 at 10:18 CST
Updated:	30 Jan 2020 at 18:29 CST

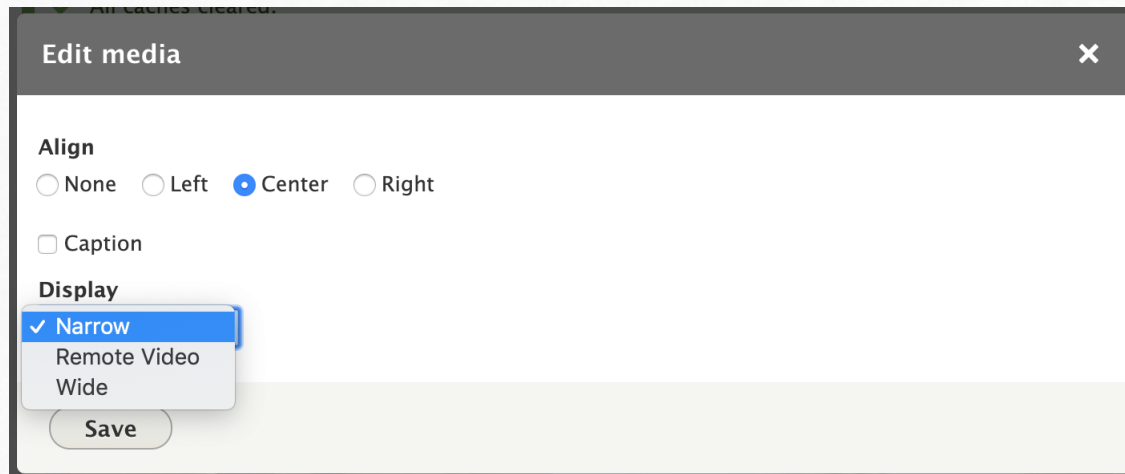
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Media Library: CKEditor integration

- Let's edit the embedded video
- Editor can select view mode
- Why are Narrow and Wide options?



Media Library: CKEditor integration

https://www.drupal.org/project/media_library_extras/issues/3108619

[Media Library Extras](#) » [Issues](#)

Allow View Mode Options to be Restricted on a Per-bundle Basis for Media Embed

[View](#) [Edit](#) [View history](#)

Problem/Motivation

Media Embed provides an editor plugin and a text format filter that allow for media entities to be embedded inside CKEditor. It allows site builders to determine which media bundles can be embedded (e.g. images and remote videos but not files). When rendered, media entities are displayed with a designated view mode. Media Embed allows site builders to control which view modes can be selected by end users for display; however, the list of allowed view modes is controlled on a per-text format basis, not on a per-bundle basis. This proposed sub-module modifies Media Embed to allow view modes to be designated on a per-bundle basis.

For example, a site builder has created two media bundles: 1) image and 2) remote video. For the images, two view modes are needed: 1) 'Narrow' and 2) 'Wide'. For remote videos, only one view mode is needed, 'Remote Video'. Without this module, end users would see all three view modes as options when embedding media in CKEditor for both images and remotes videos. Ideally, when embedding an image, a content editor would only be given 'Narrow' and 'Wide' as options; and when embedding a remote video, a content editor wouldn't see any options because 'Remote Video' is the only view mode allowed for remote videos. This module fills that functionality gap.

Proposed resolution

Extend the Media Embed filter/editor plugins to support this functionality.

- Use `hook_filter_info_alter()` to replace the filters plugin class with a custom class

Needs review

Project:	Media Library Extras
Version:	8.x-1.x-dev
Component:	Code
Priority:	Normal
Category:	Feature request
Assigned:	Unassigned
Reporter:	Chris Burge
Created:	24 Jan 2020 at 10:20 CST
Updated:	19 Feb 2020 at 14:16 CST

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Media Library: CKEditor integration

- Now, Media Embed configuration can be set per media bundle

Limit allowed HTML tags and correct faulty HTML Enabled	Media types selectable in the Media Library ☐ Audio ☐ Document ☒ Image ☒ Remote video ☐ Video If none are selected, all will be allowed.
Embed media Enabled	▶ ALLOWED VIEW MODES: IMAGE ▶ ALLOWED VIEW MODES: REMOTE VIDEO

Media Library: CKEditor integration

- Now, Media Embed configuration can be set per media bundle

▼ ALLOWED VIEW MODES: IMAGE

Default view mode

Narrow ▼

The view mode that an embedded media item should be displayed in by default. This can be overridden using the data-view-mode attribute.

View modes selectable in the 'Edit media' dialog

- ☐ Default
- ☐ Full content
- ☐ Media library
- ☒ Narrow
- ☐ Remote Video
- ☒ Wide

If two or more view modes are selected, users will be able to update the view mode that an embedded media item should be displayed in after it has been embedded. If less than two view modes are selected, media will be embedded using the default view mode and no view mode options will appear after a media item has been embedded.

▼ ALLOWED VIEW MODES: REMOTE VIDEO

Default view mode

Remote Video ▼

The view mode that an embedded media item should be displayed in by default. This can be overridden using the data-view-mode attribute.

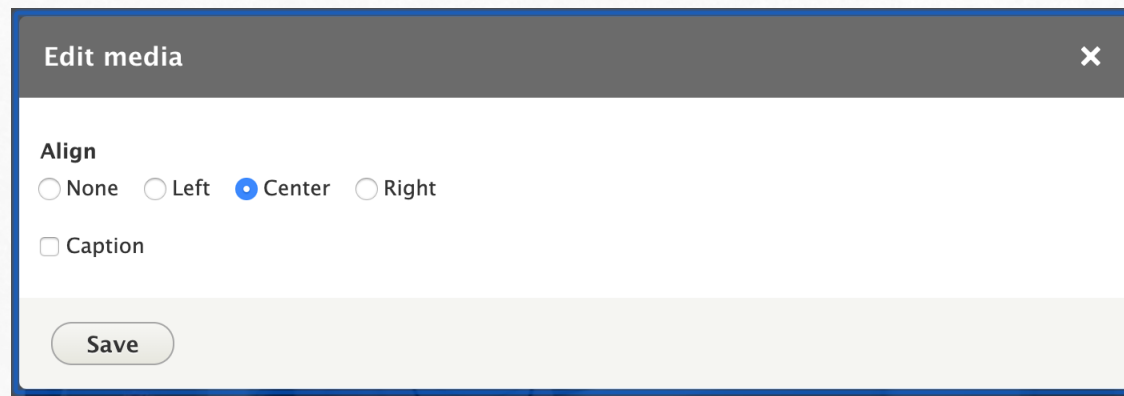
View modes selectable in the 'Edit media' dialog

- ☐ Default
- ☐ Full content
- ☐ Media library
- ☐ Narrow
- ☒ Remote Video
- ☐ Wide

If two or more view modes are selected, users will be able to update the view mode that an embedded media item should be displayed in after it has been embedded. If less than two view modes are selected, media will be embedded using the default view mode and no view mode options will appear after a media item has been embedded.

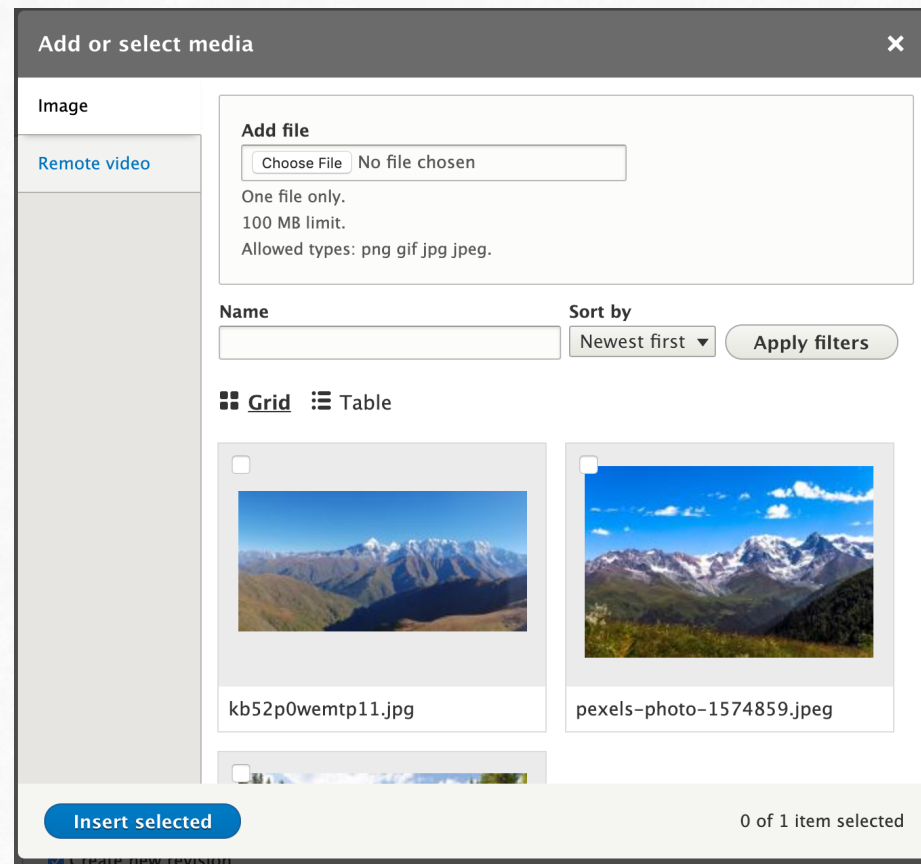
Media Library: CKEditor integration

- Because only Remote Video is allowed, no option is provided



Media Library: CKEditor integration

- Let's insert an image



Media Library: CKEditor integration

- Let's insert an image

[Home](#) » [Page with Image](#)

Title *

Page with Image

Body ([Edit summary](#))

B *I* | [Link](#) [Unlink](#) | [List](#) [List](#) | [Image](#) [Quote](#) | **Format** ▼ | [Source](#)

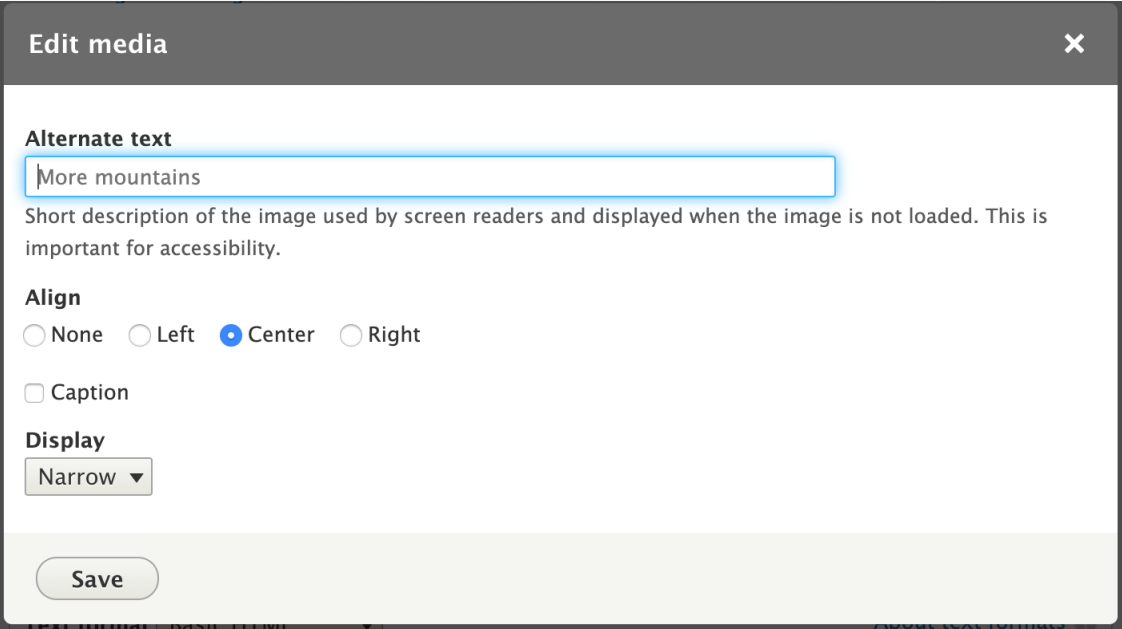


body Embedded media

Text format Basic HTML ▼ [About text formats](#) ?

Media Library: CKEditor integration

- Let's edit an image



The image shows a 'CKEditor' 'Edit media' dialog box. It has a dark grey header with the title 'Edit media' and a close button (X). The main content area is white and contains the following sections:

- Alternate text:** A text input field with the value 'More mountains'. Below it is a short description: 'Short description of the image used by screen readers and displayed when the image is not loaded. This is important for accessibility.'
- Align:** Four radio buttons: 'None', 'Left', 'Center' (selected), and 'Right'.
- Caption:** A checkbox labeled 'Caption' which is currently unchecked.
- Display:** A dropdown menu currently set to 'Narrow'.

At the bottom of the dialog is a 'Save' button.

- How to get view-mode class on figure element?
(when using a caption)



```
<figure role="group" class="caption caption-drupal-media align-center
figure--embedded-media view-mode--narrow">
  <article class="media media--type-image media--view-mode-narrow">
    <div data-quickedit-field-id="media/8/field_media_image/en/narrow"
class="field field--name-field-media-image field--type-image field--label-
visually_hidden">
      <div class="field__label visually-hidden">Image</div>
      <div class="field__item">
        
      </div>
    </div>
  </article>
  <figcaption>Caption goes here!</figcaption>
</figure>
```

- How to get view-mode class on figure element?
(when using a caption)

```
/**
 * Implements template_preprocess_filter_caption().
 */
function custom_media_preprocess_filter_caption(&$variables) {
  // For <drupal-media> elements rendered with captions, get the view
  // mode and add a corresponding class to the <figure> element.
  //
  // Convert the markup to a DOM element.
  $element_string = $variables['node']->__toString();
  $dom = new DOMDocument();
  @$dom->loadHTML($element_string);
  // Only proceed if element is <drupal-media>.
  $element = $dom->getElementsByName("drupal-media");
  if (method_exists($element, 'count') && $element->count() != 0) {
    $element = $element->item(0);
    $data_view_mode = $element->getAttribute('data-view-mode');

    // Set classes on caption element.
    $variables['classes'] = trim($variables['classes'] . ' figure--embedded-
media view-mode--' . $data_view_mode);
  }
}
```

Media Library: CKEditor integration Limitations

- Allow CKEditor styles for <drupal-media>
<https://www.drupal.org/project/drupal/issues/3117172>
- Allow dashes in Styles dropdown's element names
<https://www.drupal.org/project/drupal/issues/2911527>
- If <drupal-media> is wrapped in a link, alignment is lost
- For documents (e.g. PDF), link text cannot be customized (so we use Linkit: <https://www.drupal.org/project/linkit>)
- No upgrade path (yet) from Entity Embed <drupal-entity>





[Switch to Live Demo](#)



Entity Usage: Keep track of your media usage

- With media embedded all over my site, how do I know where a given media entity is used?

Entity Usage

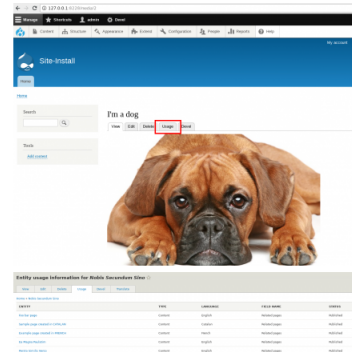
[View](#) [Version control](#) [View history](#) [Automated testing](#)

By [marcoscano](#) on 4 July 2016, updated 18 February 2020

This module provides a tool to **track entity relationships** in Drupal.

Currently the following tracking methods are supported:

- Entities related through **entity_reference** fields
- Entities related through **link** fields
- Standard HTML links inside text fields.
- Entities embedded into text fields using the **Entity Embed** module
- Entities embedded into text fields using the **LinkIt** module
- Entities related through **block_field** fields
- Entities related through **entity_reference_revisions** fields
- Entities related through **dynamic_entity_reference** fields
- Entities related through Layout Builder. Supported methods: a) Core's inline (non-reusable) content blocks, and b) entities selected through the contributed **Entity Browser Block** module



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Maintainers for Entity Usage

[marcoscano](#) – 101 commits
last: 1 month ago, first: 3 years ago

[seanB](#) – 22 commits
last: 1 year ago, first: 1 year ago

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Issues for Entity Usage

To avoid duplicates, please search before submitting a new issue.

[Search](#)

https://www.drupal.org/project/entity_usage



Entity Usage: Keep track of your media usage

- Do I need a patch for this to work for <drupal-media>?
- No! It was included in the 8.x-2.0-beta3 release on 3/25/2020
- Track <drupal-media> tags
https://www.drupal.org/project/entity_usage/issues/3081407



Entity Usage: Keep track of your media usage

- A Usage tab can be added to entities that are tracked

Entity usage information for *Glow Big Red 2020 Thank You*

[Edit](#)[Delete](#)[Usage](#)

[Home](#) » [Edit Glow Big Red 2020 Thank You](#)

ENTITY	TYPE	LANGUAGE	FIELD NAME	STATUS
A Custom Block Instance	Custom block	English	Body	Published
Page with Video	Content	English	Body	Published

Entity Usage: Keep track of your media usage

- Notices can be added to entity edit/delete pages

Edit *Remote video* Glow Big Red 2020 Thank You

☆

[Edit](#) [Delete](#) [Usage](#)

[Home](#)

⚠ Modifications on this form will affect all [existing usages](#) of this entity.

Video URL *

You can link to media from the following services: YouTube, UNL MediaHub

Are you sure you want to delete the media item *Glow Big Red 2020 Thank You*?



[Edit](#)

[Delete](#)

[Usage](#)

[Home](#)

⚠ There are [recorded usages](#) of this entity.

This action cannot be undone.

[Delete](#)

[Cancel](#)



[Switch to Live Demo](#)





That's all! I'm out of slides!

GGPIT