

Media is now in core: Let's use it!



Presented by Chris Burge

Drupal Camp Asheville 2020
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Digital Experience Group (DXG)
University of Nebraska-Lincoln

IN OUR GRIT, OUR GLORY™

About the Speaker



Christopher Burge Web Applications Developer University of Nebraska-Lincoln

Burge, a full-stack web developer, has specialized in Drupal since 2011. Prior to joining the Digital Experience Group (DXG) at the University of Nebraska-Lincoln, he spearheaded a number of higher-ed and enterprise projects as a freelance developer. He maintains a number of modules on Drupal.org and is an active member of the open-source community. As a member of DXG, he is engaged in migrating UNLcms to Drupal 8.



- 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

MIME type ▼

File size

File size ▼

Width

Width ▼

Height

Height ▼

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 ▼

- Providers are downloaded from <https://oembed.com/providers.json>

```
{
  "provider_name": "YouTube",
  "provider_url": "https://www.youtube.com/",
  "endpoints": [
    {
      "schemes": [
        "https://*.youtube.com/watch*",
        "https://*.youtube.com/v/*",
        "https://youtu.be/*"
      ],
      "url": "https://www.youtube.com/oembed",
      "discovery": true
    }
  ]
},
```

- Request is submitted to API endpoint:
<https://www.youtube.com/oembed?url=https://www.youtube.com/watch?v=tFMo3UJ4B4g>

```
{
  "height":270,
  "author_name":"Paramount Pictures",
  "html":"\u003ciframe width=\"480\" height=\"270\"
    src=\"https://www.youtube.com/embed/tFMo3UJ4B4g?feature=oembed\"
    frameborder=\"0\" allow=\"accelerometer; autoplay; encrypted-media;
    gyroscope; picture-in-picture\" allowfullscreen\u003e\u003c\/iframe\u003e",
  "author_url":"https://www.youtube.com/user/Paramount",
  "thumbnail_url":"https://i.ytimg.com/vi/tFMo3UJ4B4g/hqdefault.jpg",
  "width":480,
  "thumbnail_width":480,
  "type":"video",
  "provider_name":"YouTube",
  "title":"Arrival Trailer (2016) - Paramount Pictures",
  "version":"1.0",
  "provider_url":"https://www.youtube.com/",
  "thumbnail_height":360
}
```

Add a Remote Video

Add Remote video ☆

[Home](#) » [Add media item](#)

Video URL *

<https://www.youtube.com/watch?v=74TfR8mmNHA>

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

Revision information

No revision

URL alias

No alias

Authoring information

By admin (1) on 2020-07-10

Revision log message

Briefly describe the changes you have made.

☒ Published

Save



Add a Remote Video

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

- What happened?

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

Add 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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[add change notice](#)

oEmbed: Media integration

- Providers are downloaded from <https://oembed.com/providers.json>
- Providers are allowed/disallowed per media bundle
- Core 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 Providers (contrib)

oEmbed Providers

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

By [Chris Burge](#) on 11 April 2020, updated 11 May 2020

The *oEmbed Providers* module extends core's oEmbed functionality:

- Add custom oEmbed providers via an admin user interface (providers are stored in configuration)
- Global enable/disable of providers
- Modify the provider list URL (which is defaulted to <https://oembed.com/providers.json>)
- Disable the fetching of the provider list (useful in an instance where only custom providers are used)

Drupal 8.8.4+ is required.

Supporting organizations:
[University of Nebraska](#)

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

Custom oEmbed Providers

Home » Administration » Configuration » Media » oEmbed Providers

[+ Add oEmbed provider](#)

PROVIDER	MACHINE NAME	OPERATIONS
Custom Provider	custom_provider	Edit
UNL MediaHub	unl_mediahub	Edit

Edit oEmbed provider UNL MediaHub

Home » Administration » Configuration » Media » oEmbed Providers » Custom oEmbed Providers

For documentation regarding oEmbed provider definitions, see [oembed.com](#)

Provider name *
UNL MediaHub Machine name: unl_mediahub

Provider URL *
<https://mediahub.unl.edu>

ENDPOINTS

Endpoint #1 *
Endpoint scheme *
<https://mediahub.unl.edu/oembed/>
<http://mediahub.unl.edu/oembed/>

URLs from a provider that may have an embedded representation (each scheme is entered on a new line)
E.g. <http://custom-provider.example.com/oembed/>
<https://custom-provider.example.com/oembed/>

Endpoint URL *
<https://mediahub.unl.edu/oembed/>

A URL where the consumer can request representations for scheme URLs
E.g. <https://custom-provider.example.com/oembed/>

Discovery
Whether or not a provider supports discoverability of supported formats

Available formats
JSON
XML
Formats explicitly supported by the provider

[Add an endpoint](#)

[Save](#) [Delete](#)

Allowed Providers

Home » Administration » Configuration » Media » oEmbed Providers

When a provider is disabled, Media will continue to render its content so long as the provider's definition is returned by Media's Provider Repository.

Providers enabled below will be made available as media sources.

Allowed Providers

[★ Star](#)

8

[✉ All issues](#)

Maintainers for oEmbed Providers

[Chris Burge](#) – 14 commits
last: 5 days ago, first: 2 months ago

[View all committers](#)
[View commits](#)

Issues for oEmbed Providers

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

[Search](#)

[Advanced search \[18 issues\]](#)

All issues

1 open, 18 total

Bug report

1 open, 6 total

Statistics

oEmbed Providers (contrib)

- Add custom oEmbed providers via an admin user interface
 - Providers are stored in configuration entities
- Global enable/disable of providers
- Modify the provider list URL
 - Defaulted to <https://oembed.com/providers.json>
- Disable the fetching of the provider list
 - Useful in an instance where only custom providers are used



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.)



Media 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	

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





Switch to Live Demo



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



- 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

- 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



- Configure Embed media plugin








Limit allowed HTML tags and correct faulty HTML 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.
Embed media Enabled	Media types selectable in the Media Library <input type="checkbox"/> Audio <input type="checkbox"/> Document <input checked="" type="checkbox"/> Image <input checked="" type="checkbox"/> Remote video <input type="checkbox"/> Video If none are selected, all will be allowed.
	View modes selectable in the 'Edit media' dialog <input type="checkbox"/> Default <input type="checkbox"/> Full content <input type="checkbox"/> Media library <input checked="" type="checkbox"/> Narrow <input checked="" type="checkbox"/> Remote Video <input checked="" type="checkbox"/> 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.

- Let's insert a video

[Home](#) » [Page with Video](#)

Title *

Body ([Edit summary](#))

B ***I***       Normal  Source

body p

Text format [About text formats ?](#)

- Let's insert a video

Add or select media

Image

Remote video

Add Remote video via URL *

https://

Add

Allowed providers: YouTube, UNL MediaHub.

Name

Sort by

Newest first

Apply filters

Grid

Table

FARM BILL
DETAILS AND DECISIONS
JOINT EDUCATIONAL PRESENTATION
BY:
N EXTENSION

USDA

Farm Bill Details and Decisions (...)

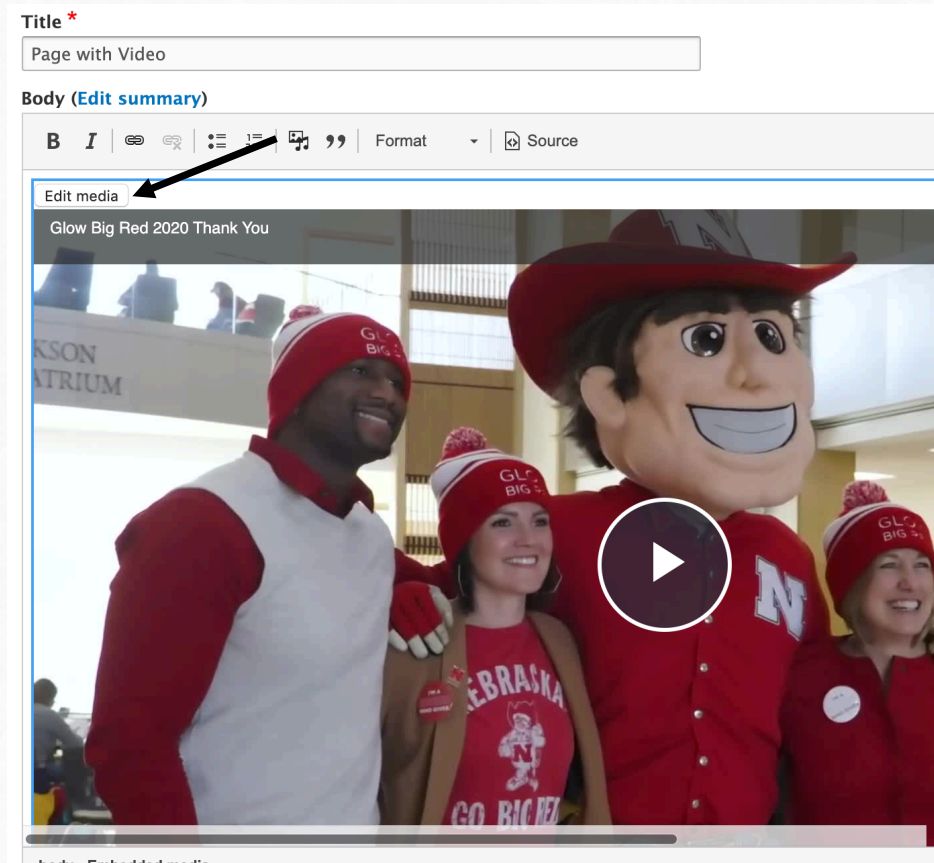
Glow Big Red 2020 Thank You

Glow Big Red 2020 Thank You

Insert selected

0 of 1 item selected

- Let's insert a video



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 unicorn cat.

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

Content: [Most recent](#), [Add new](#)

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- 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>
```

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

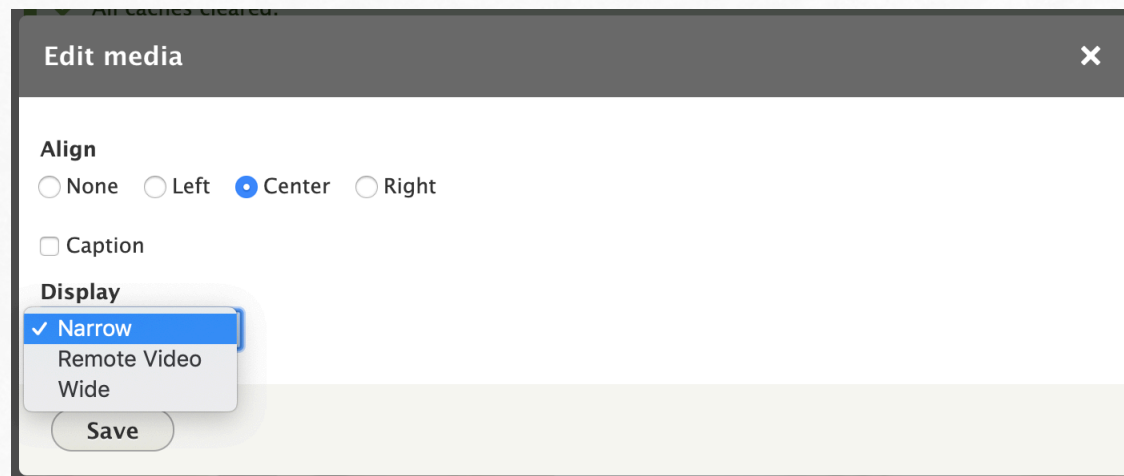
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[Add child issue](#), [clone issue](#),
[add change notice](#)

CKEditor integration

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



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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[Most recent file](#), [Add new](#)

[Add child issue](#) [clone issue](#)

- 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 <input type="checkbox"/> Audio <input type="checkbox"/> Document <input checked="" type="checkbox"/> Image <input checked="" type="checkbox"/> Remote video <input type="checkbox"/> Video <small>If none are selected, all will be allowed.</small>
Embed media Enabled	▶ ALLOWED VIEW MODES: IMAGE ▶ ALLOWED VIEW MODES: REMOTE VIDEO

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.

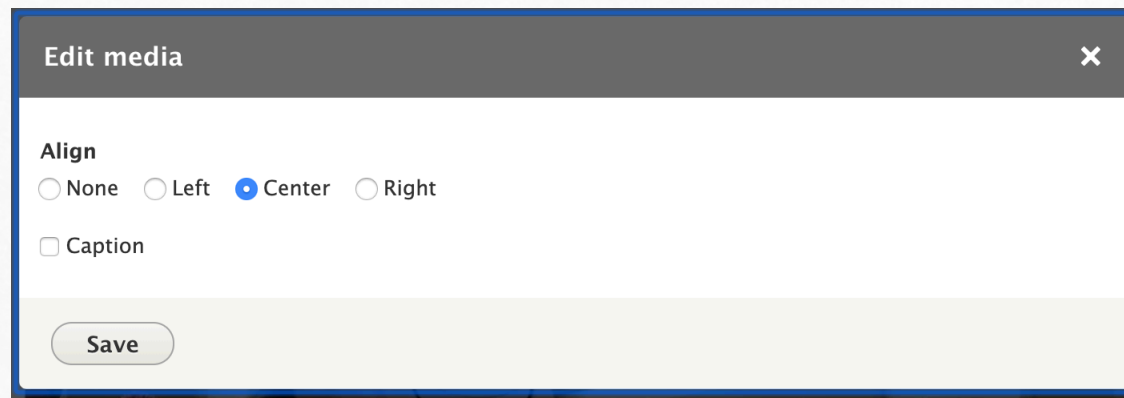
View modes selectable in the 'Edit media' dialog

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

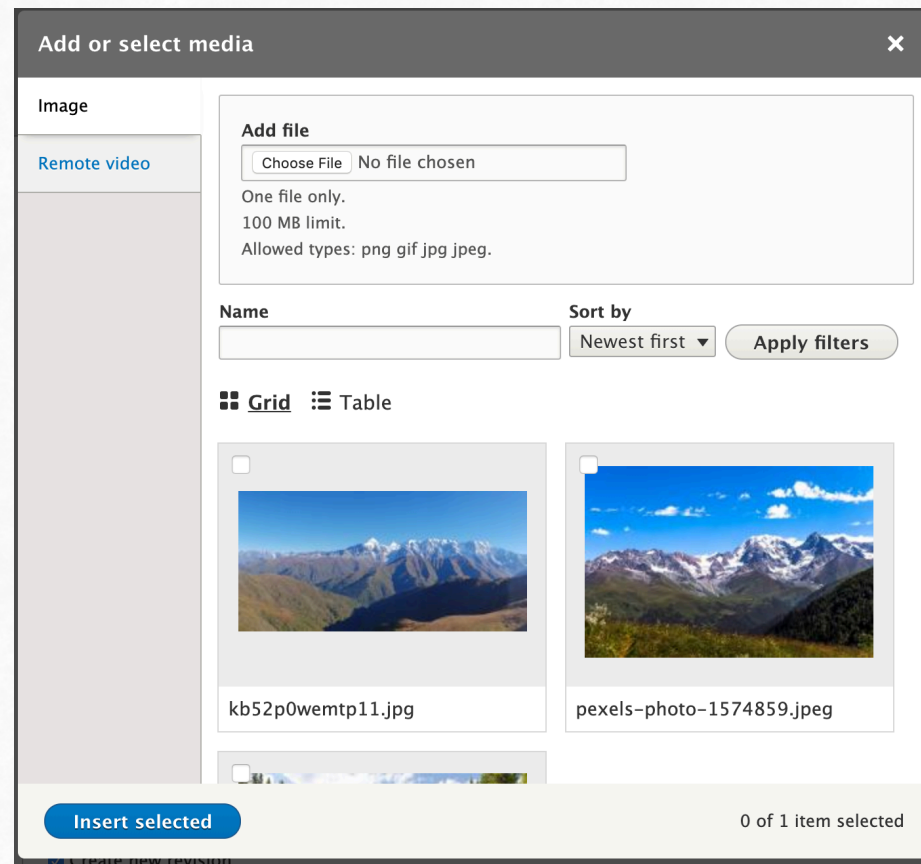
If two or more view modes are selected, users will be able to update the view mode that an embedded media item should be displayed in after it has been embedded. If less than two view modes are selected, media will be embedded using the default view mode and no view mode options will appear after a media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



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



- Let's insert an image



- Let's insert an image


[Home](#) » [Page with Image](#)

Title *

Page with Image

Body ([Edit summary](#))

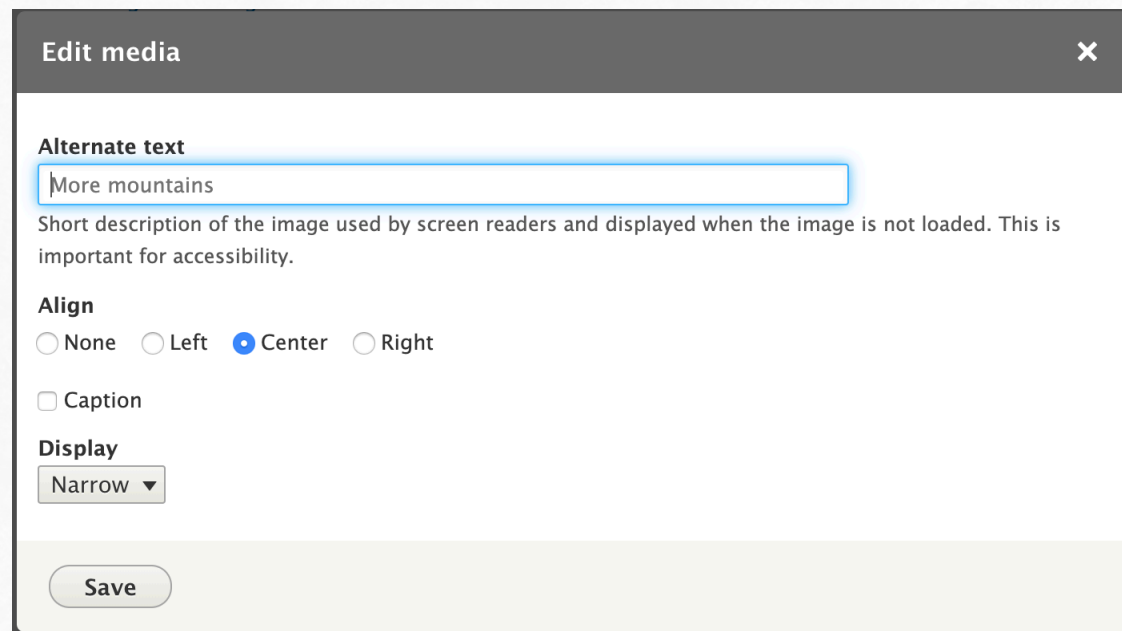
B *I* | [Link](#) [Unlink](#) | [List](#) [List](#) | [Image](#) [Quote](#) | [Format](#) | [Source](#)



body Embedded media

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

- 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 containing 'More mountains'. Below the field is a 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' (which is selected), and 'Right'.
- Caption:** A checkbox labeled 'Caption' which is currently unchecked.
- Display:** A dropdown menu currently showing 'Narrow'.

At the bottom of the dialog is a light grey bar containing 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

```

- 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);
  }
}
```

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
- No upgrade path (yet) from Entity Embed <drupal-entity>



What about documents (e.g. PDF)?

- For documents (e.g. PDF), link text cannot be customized
- Linkit
<https://www.drupal.org/project/linkit>
- Linkit Media Library
https://www.drupal.org/project/linkit_media_library





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

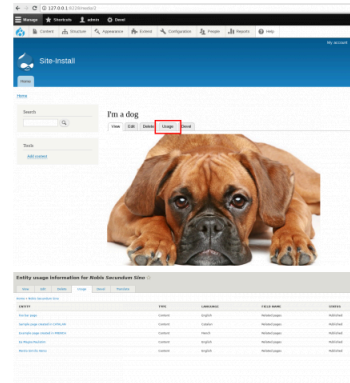
[View](#) [Version control](#) [View history](#) [Automated testing](#)

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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[View commits](#)

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

- 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](#)

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