



Drupal Europe

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www.drupaleurope.org



CONNECTING MEDIA SOLUTIONS BEYOND DRUPAL



MIRO DIETIKER

miro_dietiker

MD Systems - Founder
Initiative Leader
Switzerland

● CONNECTING MEDIA

- What is Content management?
- Landscape by example
- Media types
- Available solutions
- Digital asset management

Drupal 8 only



INTRO

● INTRO - Evolution

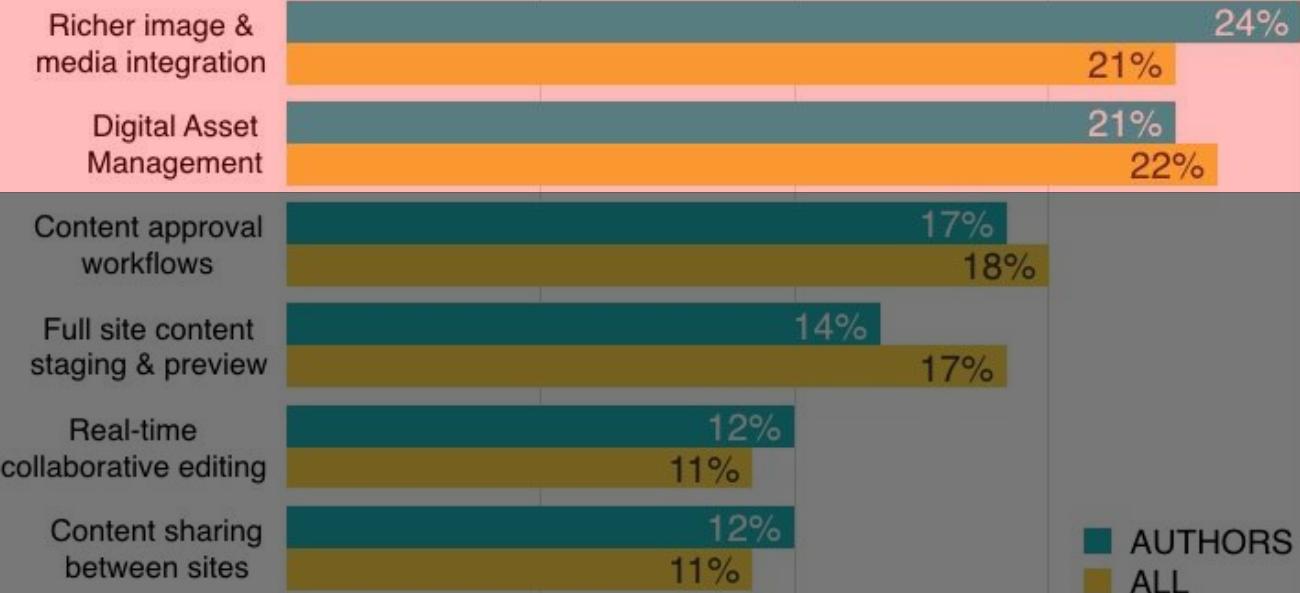
In Drupal 8 we evolved...

- File
- Contrib File Entity
- Contrib Media
- 8.4 Media in Core
- 8.6 Media in Core with Library

<https://dri.es/an-update-on-the-media-initiative-for-drupal-8-4-8-5>



AREAS TO IMPROVE FOR CONTENT AUTHORS



The results of the State of Drupal 2016 survey show the importance of the Media Initiative for content authors.

<https://dri.es/state-of-drupal-presentation-may-2016>



Skip the spirits with delicious mocktails

[VIEW ARTICLE >](#)



Fiery chili sauce



Crema catalana

● INTRO - Best practices

Experience from...

- Module maintenance
- Building distributions
- Site Building
- Custom development
- Operation
- Training, coaching, consulting

● INTRO - Core 8.6 Status

Stable

- **Media**
- Well supported

Experimental

- **Library**
- minimal
- In transition

Sources

- File
- Image
- Audio
- Video
- Remote video
 - Youtube
 - Vimeo

Media library

X

+ Add media

Published

- Any - ▾

Name

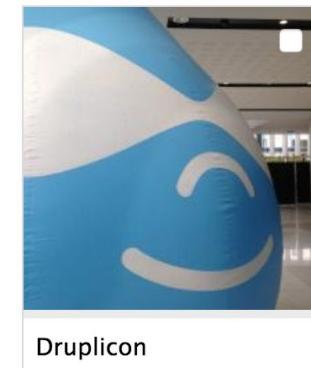
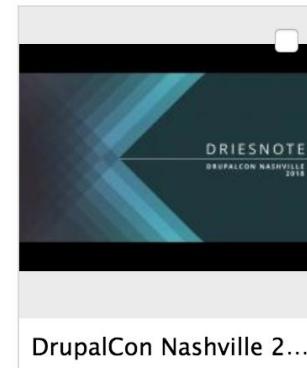
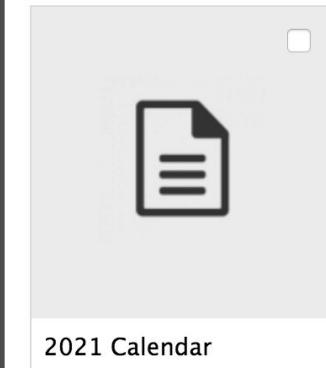
Media type

- Any - ▾

Sort by

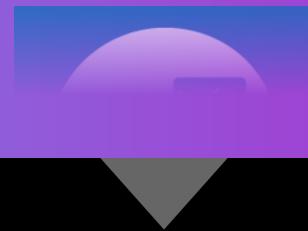
Newest first ▾

Apply Filters



Select media

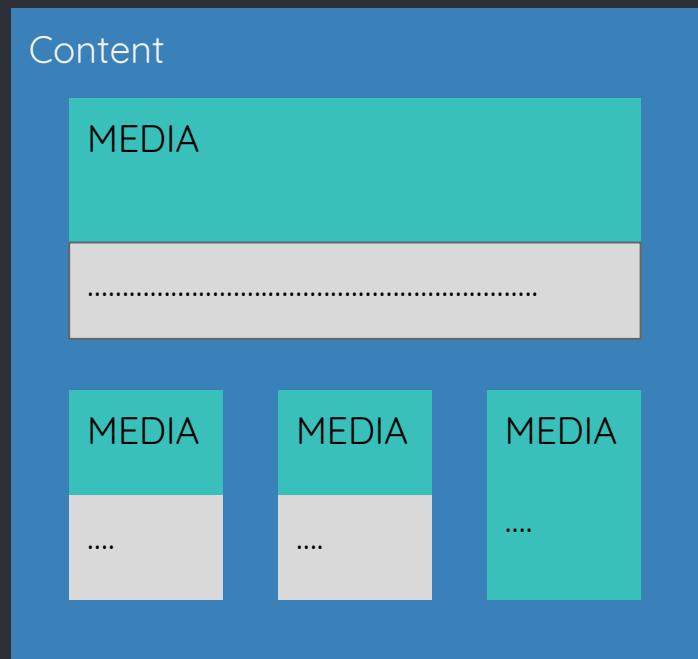
<https://www.drupal.org/blog/drupal-8-6-0>



BASICS

● BASICS - What is Media?

- Away from Files
- Entity
 - Source (type)
 - Fields
 - File, Filename, ID
 - Entity Reference
 - Remote identifier
- Any type of media “content”



● BASICS - Local VS Connected / Remote

- LOCAL
 - Any type of Media inside Drupal
- CONNECTED / REMOTE
 - Benefit from SaaS providers
 - Specialized in a specific media type
 - Out of the box
 - Remotely managed
- MIXED REALITY

● BASICS - Media Lifecycle

- Upload
- Processing
- Storage Original + Metadata
- Placement
- Formatting View modes / Derivatives
- Delivery

● BASICS - Implications of Decoupling a provider

- Adds complexity
- Dependency
 - Ownership
 - Lock-in
 - API Changes
- Drupal Expectations
- Provide extra value

● BASICS - Implications - User expectations

Needs

truly deep integrations

- Support expectations
- Through the lifecycle

- Or experience limitations

● BASICS - Implications - Drupal expectations

- Availability - API
- Speed - Caching
- Accounts
 - Authenticate
 - Permissions
- Entity
 - Types
 - Fields
- Multilingual
- Revisioning
- Views
 - List - Paging
 - Filter
- Placement - Usage
- View modes - formatter
 - Responsive
- Form modes - widgets
- Image Derivatives
- (Personalization)
- (Content Moderation)



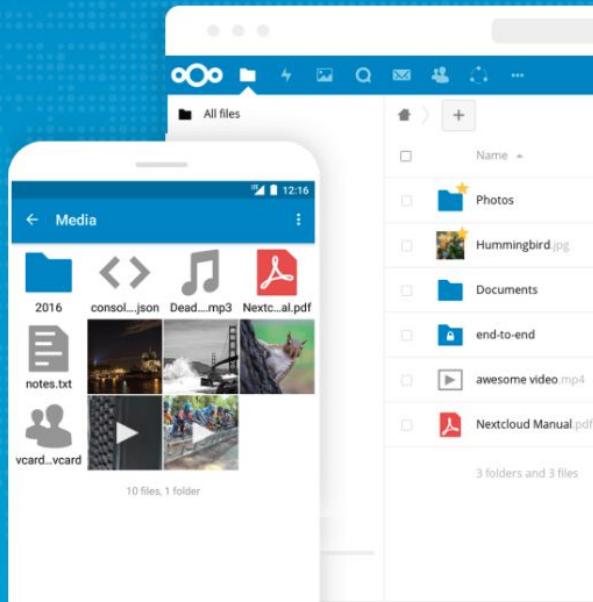
BY EXAMPLE

NEWS Nextcloud 14: Video verification, Signal/Telegram 2FA and more! >

Nextcloud - Protecting your data

Building self-hosted products that allow you
to be productive without losing control

Learn more 



● BY EXAMPLE - What if we connect Nextcloud

- Media Licensing Metadata
- Authentication
 - Global key
 - Per-user key
- Less site building
 - Browser
 - Extraction from assets
 - Thumbnail
 - Predefined metadata structure
- Many Challenges

● BY EXAMPLE - What if we connect Nextcloud

- User specific permissions
- Image derivative mapping
- Cropping
- Usage report
- Metadata updates

Wish it was fully featured AND API first!



CONCEPTS

CONCEPTS

- Metadata replication
- Usage tracking
- Placement - WYSIWYG
- Browsing
- Expiration

● CONCEPTS - Metadata replication

- Fields based
- Mapping configuration
- Replicate on save
- Metadata Updates?
 - (delta)
 - Changes?

● CONCEPTS - Placement

- WYSIWYG
- Field - Entity Reference Media
- Entity type - Paragraphs

● CONCEPTS - Consistency

➤ Module: Linkit

<https://www.drupal.org/project/linkit>

- Managed link
 - Stop alias based links that break!
- Matcher / Browser
- Patch: Field support
https://www.drupal.org/project/link_attributes/issues/2939514
- 8.x:**25,095** - August 26, 2018 - 7.x:58,467
Total: 84,235

Manage matchers ★

[Edit](#)[Manage matchers](#)[Translate linkit profile](#)

Home » Administration » Configuration » Content authoring » Linkit profiles » Edit Default profile

Matchers defines how different data can be queried and displayed in the autocomplete suggestion list. Multiple matchers of the same type can be used at the same time to granulate the suggestions. The order of the added matchers defines in which order the suggestions will be presented.

[+ Add matcher](#)[Show row weights](#)

MATCHERS	OPERATIONS
<p>Content</p> <p>Metadata: by [node:author] [node:created:medium] Bundle filter: None Group by bundle: No Include unpublished: Yes</p>	Edit ▾
<p>Media</p> <p>Metadata: by [media:author] [media:created:medium] Bundle filter: Document Group by bundle: No</p>	Edit ▾

[Save](#)

● CONCEPTS - Usage tracking

➤ Module: Entity Usage

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

- Pluggable tracking
 - Entity References
 - Link field
 - Entity Embed
 - Linkit, ...
- 8.x:1,429 - August 26, 2018

Entity usage information for Nobis Secundum Sino ☆

[View](#) [Edit](#) [Delete](#) [Usage](#) [Devel](#) [Translate](#)

[Home](#) » Nobis Secundum Sino

ENTITY	TYPE	LANGUAGE	FIELD NAME	STATUS
Foo bar page	Content	English	Related pages	Published
Sample page created in CATALAN	Content	Catalan	Related pages	Published
Example page created in FRENCH	Content	French	Related pages	Published
Ea Magna Paulatim	Content	English	Related pages	Published
Persto Similis Venio	Content	English	Related pages	Published

● CONCEPTS - Selection

- Core 8.6
 - Basic, hardcoded
- Module: Media Entity Browser
 - https://www.drupal.org/project/media_entity_browser
 - Highly
 - Extensible
 - Configurable
 - 8.x:**4,852** - August 26, 2018

Select images

[Image library](#)[My images](#)[Upload files](#)[Icon](#)

Media name

Bundle

Status

Folder

Tags

Sort by

Order

- Any -

True

- Any -

|

Created

Desc

[Apply](#)

drupal-8-logo-padding.png



md-systems.svg



19. January 2018, 10:24

User



1. December 2017, 16:35

pencil-square-o



26. June 2017, 18:29

linux



19. January 2018, 10:39

newspaper-o



29. December 2017, 16:56

file-pdf-o



14. August 2017, 17:55

home



26. June 2017, 18:26

drupal



19. January 2018, 10:30

pexels-photo-324658-bw.jpeg



admin

4. December 2017, 17:26

user-times



26. June 2017, 18:43

Layout



21. June 2017, 15:10

[Select images](#)

● CONCEPTS - Upload

- (Core)
- Module: DropzoneJS

<https://www.drupal.org/project/dropzonejs>

<https://www.dropzonejs.com/>

- 8.x:**18,219** - August 26, 2018
- Client side image resize

X

Select hero image

[Image library](#)

[My images](#)

[Upload files](#)

File upload *

Drag and drop images here to upload

or

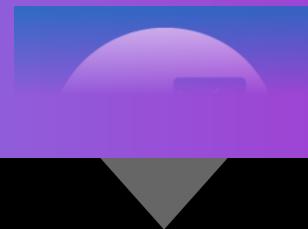
[Select files](#)

● CONCEPTS - Expiration

➤ Module: Media Expire

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

- Part of Thunder
- 8.x:**810** - August 26, 2018



MEDIA TYPE GROUPS

● TYPES - Picture

- JPG, PNG, GIF
- Tag <img src
- Tag <figure>
 <figcaption />
- Image styles
 - derivatives
- Responsive img styles
- Lazy Loading
- Image toolkit
 - GD
 - Imagemagick
- Image effect
 - Cropping
 - Other Effects
- Image

● TYPES - Picture - Cropping Modules

- Module: Crop API
<https://www.drupal.org/project/crop>
 - 8.x:28,047 - August 26, 2018
- Module: Focal Point
https://www.drupal.org/project/focal_point
- Module: Image Widget Crop
https://www.drupal.org/project/image_widget_crop
- Module: Automated Crop
https://www.drupal.org/project/automated_crop

● TYPE - Picture - Lazyloading Modules

➤ Module: Blazy

<https://www.drupal.org/project/blazy>

- Image lazy loading
- 8.x:**17,888** - August 26, 2018

➤ Module: Lazyloader

<https://www.drupal.org/project/lazyloader>

- 8.x:**357** - August 26, 2018 - 7.x:**3,890**
Total:4,247

● TYPE - Picture - SaaS

➤ DAM - More Later

- Bynder
- Elvis
- ...

● TYPE - Graphics

- SVG
 - Tag
- Inline SVG
 - Tag <svg>
 - CSS control



● TYPE - Icons

➤ Module: Font Awesome Icons

<https://www.drupal.org/project/fontawesome>

- Font | SVG
- Icon Browser
- Best Practice: Media bundle
 - Entity Usage



➤ Module: FA Menu Icons

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

● TYPE - Video

- Tag <video>
- Core 8.5 Video
 - Local storage
- Core 8.6 Remote video
 - oEmbed based

● TYPE - Video - Players

- Module: Video.js
 - HTML5 Video Player
 - 8.x:**909** - August 26, 2018 - 7.x:14,283
Total:15,362
- Module: JWPlayer
 - 8.x:**224** - August 26, 2018 - 7.x:3,856
Total:4,080

● TYPE - Video - Saas

➤ Module: Video Embed

- [https://www.drupal.org/project/video embed field](https://www.drupal.org/project/video_embed_field)
[https://www.drupal.org/project/video embed html5](https://www.drupal.org/project/video_embed_html5)
- Field
- Reference
- Metadata fetch / update
- Youtube, Vimeo, more
- 8.x:**40,715** - August 26, 2018 - 7.x:62,472
Total:103,187

● TYPE - Video - SaaS

➤ Module: Brightcove

<https://www.drupal.org/project/brightcove>

- 8.x:**240** - August 26, 2018 - 7.x:2,009
Total: 2,281

● TYPE - Audio

- Core 8.6 local
- Tag <audio>
- Local audio
- (Module: Remote audio)

● TYPE - Audio SaaS

➤ Module: Soundcloud

<https://www.drupal.org/project/soundcloudfield>

- Feature: Field
- 8.x:**735** - August 26, 2018 - 7.x:3,678
Total:4,432



GALLERY PARADOXON

● GALLERY PARADOXON

Select your flavor...

- Multivalue field
- Media type
- Content type

- Paragraph
- (Paragraph library)

● GALLERY Module Slick

➤ Module: Slick

<https://www.drupal.org/project/slick>

- “*the last carousel you'll ever need*”
- 8.x:**15,204** - August 26, 2018 - 7.x:23,802
Total 39,006

● GALLERY Module Flex Slider

➤ Module: Flex Slider

<https://www.drupal.org/project/flexslider>

- 8.x:**5,785** - August 26, 2018 - 7.x:109,748
Total 115,533

● TYPE - Social

Twitter

➤ Module: Media Entity Twitter

[https://www.drupal.org/project/media entity twitter](https://www.drupal.org/project/media_entity_twitter)

- Link field
- Formatter: Twitter embed
- 8.x:**5,761** - August 26, 2018

● TYPE - Social

Instagram

➤ Module: Media Entity Instagram

[https://www.drupal.org/project/media entity instagram](https://www.drupal.org/project/media_entity_instagram)

- Link field
- Formatter: Instagram embed
- 8.x:**5,585** - August 26, 2018

● TYPE - Maps

- Google Maps
 - Module: Simple Google Maps
https://www.drupal.org/project/simple_gmap

Many more...

● TYPE - Polls

- Core Module Poll
- Riddle Marketplace

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

<https://www.riddle.com/>

- “Quizzes”
- Part of Thunder

● TYPE - Interaction

➤ Module: H5P

<https://www.drupal.org/project/h5p>



- “Create and Share Rich Content and Applications”
- 8.x:**694** - August 26, 2018 - 7.x:3,735
Total: 4,435

Fill in the correct berries

Strawberries and [] berries
are mixed with [] and
oatmeal [] to make this
delicious smoothie.

Show solutions

Interactive Video Editor

Upload video Add interactions Summary task

Click and drag to place image

Strawberries

Insert the missing words in this text about berries found in Norwegian forests and mountainous regions.

Bilberries (*Vaccinium myrtillus*), also known as **Rasp** **X** **Cloud**berries (*Rubus chamaemorus*) are edible orange berries similar to raspberries or blackberries found in alpine and arctic tundra.

Redcurrant (*Ribes rubrum*) are red translucent berries with a diameter of 8-10 mm, and are closely related to its black colored relative **black** **currant**.

You got 2 of 3 blanks correct.

● TYPE - Generic widgets

oEmbed

- Module: Simple oEmbed
<https://www.drupal.org/project/soembed>
<https://oembed.com>
 - 8.x:**25** - August 26, 2018 - 7.x:332
Total:357
- (Core - only base class)
- Others?

● TYPE - HTML

- Tag <iframe>, <script>
- Text field
 - Text format “code” without WYSIWYG
- Any widget provider
- Example: Typeform
 - <https://www.typeform.com/>
 - “Turning data collection into an experience”



STACK

CONCEPTS

- Storage
- Asset separation
- Infrastructure

● STACK - Storage - Module: Flysystem

<https://www.drupal.org/project/flysystem>

- 8.x:**683** - August 26, 2018
- “Local”
- Stream wrapper
 - path based magic

FEATURES

- Ftp (Requires ftp extension)
- Sftp
- Dropbox
- Zip (through ZipArchive)
- Rackspace Cloud Files
- Amazon Web Services - S3
- Openstack Swift

Example path: 'local-example://path/to/folder'

● STACK - Storage

- Module: S3 File System
<https://www.drupal.org/project/s3fs>
 - 8.x:**1,592** - August 26, 2018 - 7.x:3,285
- Module: Remote stream wrapper
https://www.drupal.org/project/remote_stream_wrapper_widget
 - 8.x:**126** - August 26, 2018

● STACK - Asset separation

Content

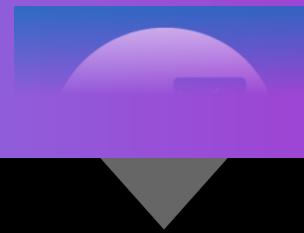
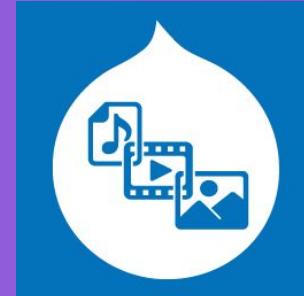
- Module: CDN
<https://www.drupal.org/project/cdn>
- Asset domain
- “Origin Pull” CDNs = transparent

● STACK - Infrastructure

➤ DNS

- Https termination / certificate
- Example: CloudFlare
 - Image optimization
 - No bandwidth cost
- Can be used with a subdomain
 - CDN

➤ Mount driver



DIGITAL ASSET MANAGEMENT

● DAM - Elvis

➤ Module: Media Elvis

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

- Woodwing Elvis

<https://www.woodwing.com/en/digital-asset-management-system>

➤ Basic integration

- Local delivery
- Media contrib
- Images only
- Full text search
- Paging
- Folder filter
- Metadata mapping
- Thunder integration





Elvis DAM

Unleash the power of your digital assets.

[Overview](#)[Features](#)[Integrations](#)[Technical](#)[What is DAM?](#)[Contact](#)

Digital Asset Management

In today's publishing and digital marketing world you need to create the right visuals fast. And whether it's a unique editorial image, a banner ad for a new campaign or the latest product shots, it needs to be beautiful, on-brand and useable for any channel.

Elvis DAM helps you to create incredible assets, and enables creatives to collaborate more effectively. All files are stored in a single location, giving you maximum control over when and where assets are used. Being an open platform with unlimited scalability, Elvis DAM is an

Select entities

X

Elvis Media

Select existing

Import image

Embed video

SEARCH

Keyword

A single word such as "hello" or a group of words surrounded by double quotes such as "hello world".

Search

Clear

FOLDERS

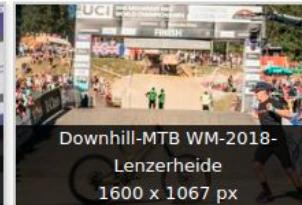
- None - ▾



Downhill-MTB WM-2018-
Lenzerheide
1600 x 1067 px



Downhill-MTB WM-2018-
Lenzerheide
1600 x 1067 px



Downhill-MTB WM-2018-
Lenzerheide
1600 x 1067 px



Downhill-MTB WM-2018-
Lenzerheide
1600 x 1067 px



Downhill-MTB WM-2018-
Lenzerheide
1600 x 1067 px



Downhill-MTB WM-2018-
Lenzerheide
1600 x 1067 px



Downhill-MTB WM-2018-
Lenzerheide
1600 x 1067 px



Downhill-MTB WM-2018-



Downhill-MTB WM-2018-



Downhill-MTB WM-2018-



Downhill-MTB WM-2018-



Manage fields

Edit

Manage fields

Manage form display

Manage display

[Home](#) » [Administration](#) » [Structure](#) » [Media bundles](#) » [Edit Elvis media image](#)[+ Add field](#)

LABEL	MACHINE NAME	FIELD TYPE	OPERATIONS
Copyright	field_copyright	Text (plain)	Edit ▾
Description	field_description	Text (formatted, long)	Edit ▾
Elvis remote id	field_elvis_remote_id	Text (plain)	Edit ▾
Image	field_image	Image	Edit ▾
Tags	field_tags	Entity reference	Edit ▾

Edit Elvis media image media bundle

[Edit](#)[Manage fields](#)[Manage form display](#)[Manage display](#)

Home » Administration » Structure » Media bundles

Label * Machine name: elvis_media_image

The human-readable name of this media bundle.

Description

Describe this media bundle. The text will be displayed on the *Add new media* page.

Type provider

Media type provider plugin that is responsible for additional logic related to this media.

TYPE PROVIDER CONFIGURATION**Field with source information**

Field on media entity that stores Image file. You can create a bundle without selecting a value for this dropdown initially. This dropdown can be populated after adding fields to the bundle.

FIELD MAPPING**Description****Remote ID****Title****Name****Filename****Asset path****Tags****Copyright owner****Width****Height**

Edit Elvis media image ATHERTON Rachel_Downhill_Elite_Woman_WM_by_Piotr_Staron IMG_6830.jpg

[View](#) [Edit](#) [Delete](#)

[Home](#) » ATHERTON Rachel_Downhill_Elite_Woman_WM_by_Piotr_Staron IMG_6830.jpg

Media name *

ATHERTON Rachel_Downhill_Elite_Woman_WM_by_Piotr_Staron IMG_6830.jpg

The name of this media.

Copyright

Verein Bike Weltcup

Image



[Preview](#)

Alternative text

UCI Mountain Bike World Championships, 5.-9. September 2018, Lenzerheide

This text will be used by screen readers, search engines, or when the image cannot be loaded.

Title

Downhill-MTB WM-2018-Lenzerheide

The title is used as a tool tip when the user hovers over the image.

ATHERTON%2520Rachel_Downhill_Elite_Woman_WM_by_Piotr_Staron%2520IMG_6830_preview.jpg (134.78 KB)

[Remove](#)

Tags

- Bike
- Bike World Championships
- Events
- Familie
- Langlauf
- Planoiras
- Sommer
- Wandern
- Winter

Description

[**B**](#) [*I*](#) [Format](#) [Source](#)

UCI Mountain Bike World Championships, 5.-9. September 2018, Lenzerheide, Downhill

● DAM - Bynder

- Module: Bynder
<https://www.drupal.org/project/bynder>
- Unique features



● DAM - Bynder - Unique features

- Remote delivery
- Per-user
 - Authentication
 - Search facets
 - Access
- Usage restrictions
 - Indication
 - Review tab
 - License info
- Bynder formatter
- Image, Video, Documents
- Derivatives mapping
- API Caching - speed
- Direct Upload
 - Batch processing
- Updates (Cron)
- Demo module
- Lightning integration

FIELD MAPPING

Description

Name

Tags

Type

Video preview urls

Thumbnail urls

Width

Height

Date created

Data modified

MEDIA

Bynder

► Bynder digital asset management system integration.

Bynder demo

► Demonstration of the Bynder integration.

API CONNECTION TEST

The API connection was established successfully.

Test connection

Test connection before saving

Uncheck to allow saving credentials even if connection to Bynder can't be established.

BYNDER IMAGE DERIVATIVES

- mini
- webimage
- thul

Reload derivatives info

Bynder provides "mini", "webimage" and "thul" image sizes by default. Custom derivatives can be configured to better suit specific use-cases. Reload of derivatives can be triggered if any derivatives are missing from the list.

USAGE RESTRICTION METADATA

Usage restrictions ▼

Select metaproerty which is responsible for usage restriction. This is used to limit what assets can be used. If the information is not provided we assume royalty free.

Royalty free restriction level *

Royalty free ▼

Select metaproerty option for assets that can be used everywhere.

Web license restriction level *

Web only ▼

Select metaproerty option for the assets that may be used only online.

Print license restriction level *

Print only ▼

Select metaproerty option for the assets that may be used only for print.

Select assets

x

Bynder Upload

Search keyword

Option

Option 3

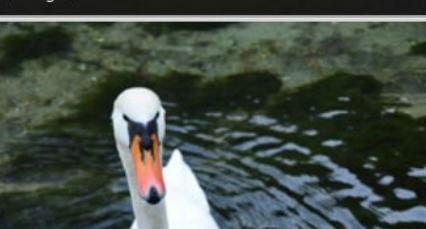
Option 4

- None - ▾

- None - ▾

- None - ▾

Search





Select assets

Bynder

Upload

File upload

Drop files here to upload them

Description

Description text that should be added to assets.

Upload assets

Bynder usage

[View](#)[Edit](#)[Delete](#)[Bynder media usage](#)

Name	Type	Usage Restriction	Action
DSC_0054.JPG	image	Royalty free	Edit ▾
bitcoin_on_keyboard-100572325-primary.idge_.jpg	image	N/A	Edit on Bynder Edit ▾



Usage info is not available yet. Usage restriction level: Royalty free



Edit Bynder example What is bitcoin?

[View](#) [Edit](#) [Delete](#) [Analytics](#) [Bynder media usage](#)

https://www.what-is-bitcoin.com/what-is-bitcoin

Title
what is bitcoin

Body (Edit summary)

BTC is a ~~cryptocurrency~~, and an electronic payment system invented by an unidentified programmer, or group of programmers, under the name of ~~Satoshi Nakamoto~~. ~~Nakamoto~~ introduced Bitcoin on 31 October 2008 to a cryptography mailing list, and released an open-source software in 2009. The system is peer-to-peer, and transactions take place between users directly, without an intermediary. These transactions are verified by network nodes and recorded in a public distributed ledger called the ~~blockchain~~, which uses bitcoin as its unit of account. Since the system works without a central repository or single administrator, Bitcoin is called the first decentralized digital currency. Bitcoin is the largest of its kind in terms of total market value.

[More on Wikipedia](#)

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

MEDIA ASSETS

Select assets

 Remove

 Remove

 Remove

 Remove

Published

Last saved: 05/02/2017 - 11:52
Author: admin
 Create new revision
Revision log message

Briefly describe the changes you have made.

URL PATH SETTINGS

AUTHORIZING INFORMATION

PROMOTION OPTIONS

[Back to site](#) [Manage](#) [Shortcuts](#) [admin](#)

Edit Bynder example What is bitcoin?

View Edit Delete Revisions Bynder media usage

Home > What is bitcoin?

Title *
What is bitcoin?

Body (Edit summary)

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

More on Wikipedia

MEDIA ASSETS
[Select assets](#)

[Save and keep published](#) [Preview](#) [Delete](#)

Published
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Briefly describe the changes you have made:

URL PATH SETTINGS

AUTHORING INFORMATION

PROMOTION OPTIONS



CONTENT

● CONTENT - Repository

- When all content becomes “media”

Modules

- Contentpool
- Drupal Content Sync
- Deploy
- Contenta CMS

Presentations

- TUE 11:30 3.03
- THU 14:10 2.07



Thanks!

ANY QUESTIONS?