

# New Features In Drupal 10.2.0

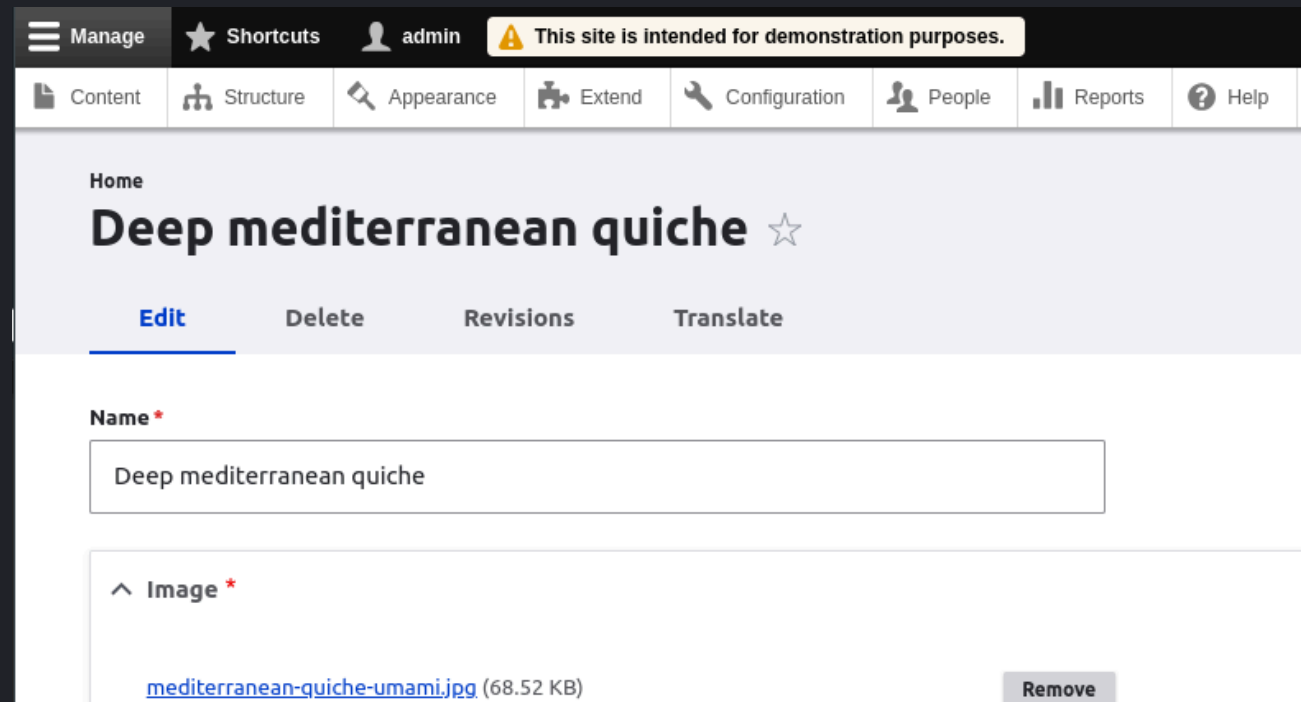
# Drupal 10.2.0 Is A Minor Release

- This is a minor release and so should not break backwards compatibility.
- You should still test your sites though!

# Interface Improvements

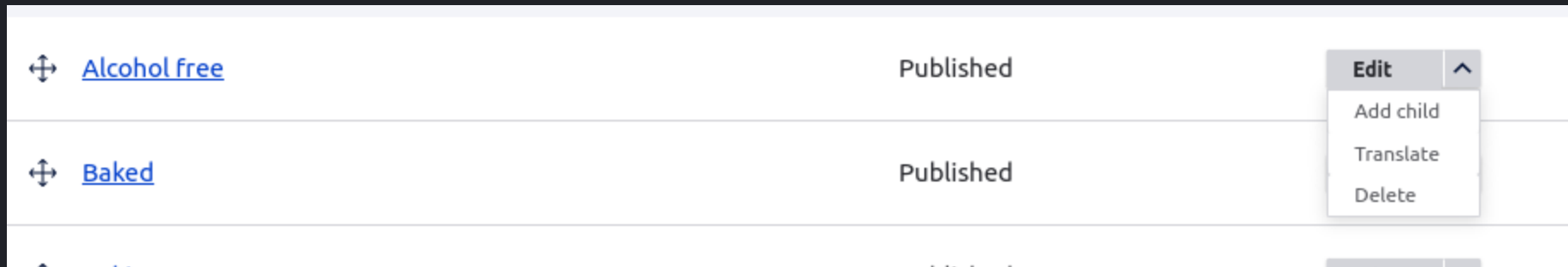
# Media Revisions

Media entities now have a new tab for viewing, reverting and deleting revisions.



# Taxonomy Add Child Button

Easier to add children to taxonomy terms.



# Filename Sanitization

Is now configurable.

^ Sanitize filenames

These settings only apply to new files as they are uploaded. Changes here do not affect existing file names.

**Replacement character**

Dash (-) ▾

Used when replacing whitespace, replacing non-alphanumeric characters or transliterating unknown characters.

☐ Transliterate

Transliteration replaces any characters that are not alphanumeric, underscores, periods or hyphens with the replacement character. It ensures filenames only contain ASCII characters. It is recommended to keep transliteration enabled.

☐ Replace whitespace with the replacement character

☐ Replace non-alphanumeric characters with the replacement character

Alphanumeric characters, dots (.), underscores (\_) and dashes (-) are preserved.

☐ Replace sequences of dots, underscores and/or dashes with the replacement character

☐ Convert to lowercase

# Block Visibility

Can now use status code

**Visibility**

**Language**  
Not restricted

**Pages**  
Not restricted

**Response status**  
Not restricted

**Roles**  
Not restricted

**Content type**  
Not restricted

**Vocabulary**

**Response status**

☐ Success (200)

☐ Access denied (403)

☐ Page not found (404)

Shows the block on pages with any matching response status. If nothing is checked, the block is shown on all pages. Other response statuses are not used.

(Note: The **Block Layout** and **Block Types** area have already been moved under the **Structure** menu).

# Field Creation












New interface!

Home > Administration > Structure > Content types > Article > Manage fields

## Add field ☆

Label \*

Choose a type of field \*

 <b>Plain text</b> Text field that does not support markup.	 <b>Formatted text</b> Text field with markup support and optional editor.	 <b>Number</b> Field to store number. I.e. id, price, or quantity.
 <b>Reference</b> Field to reference other content.	 <b>Media</b> Field to reference media. Allows uploading and selecting from uploaded media.	 <b>File upload</b> Field to upload any type of files.
 <b>Selection list</b> Field to select from predefined options.	 <b>Date and time</b> Field to store date and time values.	 <b>Boolean</b> Field to store a true or false value.
 <b>Email</b> Field to store an email address.	 <b>Link</b> Stores a URL string, optional varchar link text, and optional blob of attributes to assemble a link.	

[Continue](#)



# Field Storage Form

The field storage form is now a sub form of the field configuration form.

The screenshot shows the 'Body settings for Article' form in Drupal. The breadcrumb trail at the top is: Home > Administration > Structure > Content types > Article > Manage fields. The page title is 'Body settings for Article' with a star icon. Below the title, there is a link 'Edit' and a text 'Translate content fields'. The 'Label' field is set to 'Body'. The 'Field Storage' section contains the text: 'These settings apply to the Body field everywhere it is used. Some also impact the way that data is stored and cannot be changed once data has been created.' Below this, the 'Allowed number of values' is set to 'Limited' (with a dropdown arrow) and '1'. The 'Help text' field is empty. At the bottom, there is a section for 'Instructions to present to the user below this field on the editing form.' and a list of 'Allowed HTML tags' including: <a> <b> <big> <code> <del> <em> <i> <ins> <pre> <q> <small> <span> <strong> <sub> <sup> <tt> <ol> <ul> <li> <p> <br> <img>.

# Login And Password Reset Forms





- Now include autocomplete attributes.
- This gives better hints to browsers as to what can be filled in.
- If, for some reason, you have disabled this then you'll need to check that it still works.

# CKEditor 5 Improvements

# Tables

New formatting for tables and table cells when used with full HTML text formats.

Body ([Edit summary](#))

**B** *I* U  $x^2$   $x_2$   $\mathcal{I}_x$   $\mathcal{O}$   $\text{:=}$   $\text{!:=}$  “ ”    Paragraph  Source

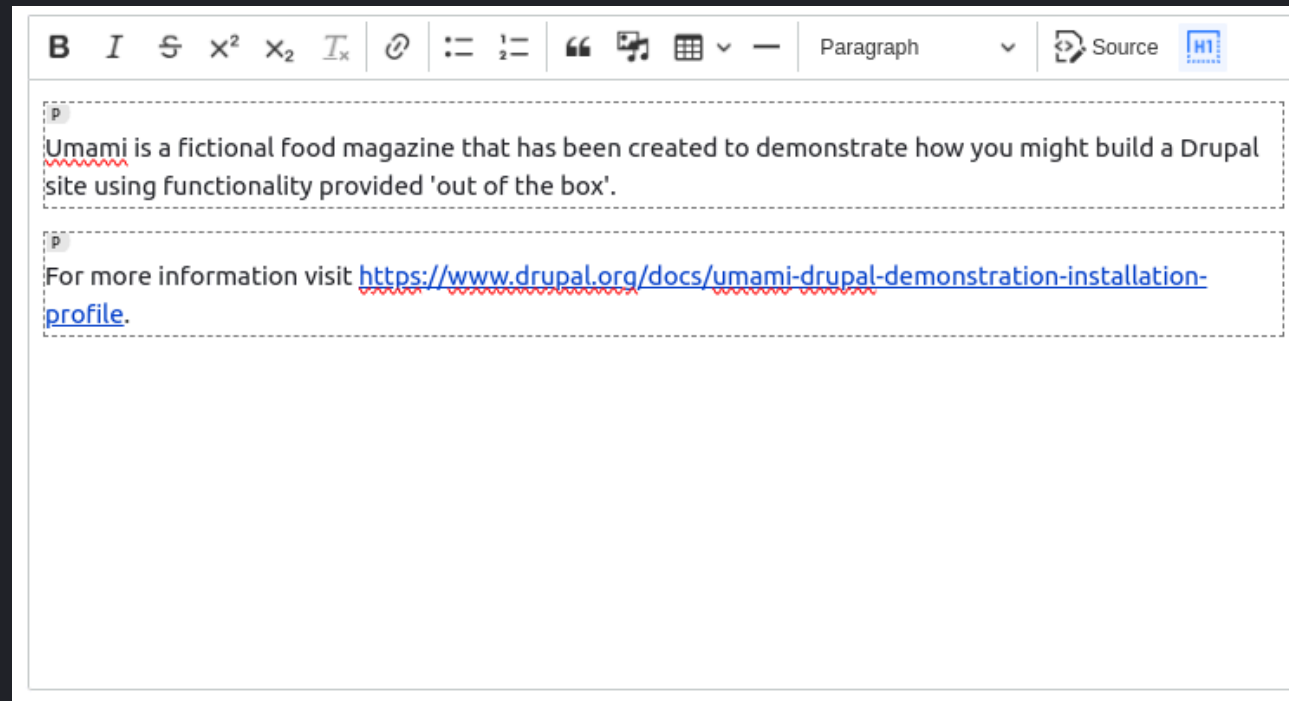
Umami is a fictional food magazine that has been created to demonstrate how you might build a Drupal site using functionality provided 'out of the box'.

For more information visit <https://www.drupal.org/docs/umami-drupal-demonstration-installation-profile>.

This	is	a
table	with	9
total	cells	.

# Show Blocks

Reintroduced into CKEditor 5.



# HTML Comments

HTML comments are also now correctly preserved in CKEditor.

```
<p>Text.</p>  
<!-- Monkey -->  
<p>Text.</p>
```

# Code Improvements

# Plugins Can Now Use PHP Attributes

This will replace the existing doctrine annotations.

Before:

```
/**
 * Provides a block to display the local actions.
 *
 * @Block(
 *     id = "local_actions_block",
 *     admin_label = @Translation("Primary admin actions")
 * )
 */
class LocalActionsBlock extends BlockBase implements ContainerFactoryPluginInterface {
```



## After:

```
/**
 * Provides a block to display the local actions.
 */
#[Block(
    id: "local_actions_block",
    admin_label: new TranslatableMarkup("Primary admin actions")
)]
class LocalActionsBlock extends BlockBase implements ContainerFactoryPluginInterface {
```

Existing plugins should start migrating over to PHP  
Attributes.

# Autoconfiguration Of Event Subscribers

By adding the autoconfigure flag you don't need to add the tag of "event\_subscriber".

```
services:
  _defaults:
    autoconfigure: true
  response_generator_subscriber:
    class: Drupal\Core\EventSubscriber\ResponseGeneratorSubscriber
```

# Controller Auto-wiring

- Controllers no longer require a create() method to inject dependencies. Services are inferred from the interfaces in the constructor alone.
- If this is not possible then the `#[Autowire]` attribute can be used to specify the service.

```
public function __construct(  
    #[Autowire(service: 'cache.default')]  
    protected CacheBackendInterface $cache  
) {}
```

# Filter System Now Outputs HTML5

Previously, the filtering system output XHTML.

Before:

```
<p>  
  Example text  
  <br />  
    
</p>
```

## After:

```
<p>  
  Example text  
  <br>  
    
</p>
```

- In most cases this shouldn't have any effect.
- Anything looking for very specific XHTML output may need to be updated.

# Configuration Targets Can Now Be Set

Inform Drupal to use a config item as the `#default_value` without setting it.

```
$form['registration_cancellation']['user_email_verification'] = [  
  '#type' => 'checkbox',  
  '#title' => $this->t('Require email verification when a visitor creates an account'),  
  '#config_target' => 'user.settings:verify_mail',  
];
```

# DeprecationHelper

New class to aid modules supporting multiple versions of core.

```
$result = DeprecationHelper::backwardsCompatibleCall(  
  currentVersion: \Drupal::VERSION,  
  deprecatedVersion: '10.3',  
  currentCallable: fn() => Role::loadMultiple(),  
  deprecatedCallable: fn() => user_roles(),  
);
```

# Schema Strictly Validated In Tests

- Assures that your configuration schema is valid when running tests.
- May cause some modules to start throwing errors during tests when they previously didn't.
- Effects kernel and functional tests.



# Collection Permission

Entities may provide a `collection_permission` to access the entity overview list.

```
/**
 * @ContentEntityType(
 *   ...
 *   handlers = {
 *     "list_builder" = "Drupal\my_awesome_module\MyAwesomeListBuilder",
 *     ...
 *   },
 *   links = {
 *     "collection" = "/admin/structure/my-awesome-entities",
 *   },
 *   admin_permission = "administer my awesome entities",
 *   collection_permission = "access the awesome entity overview",

```

# Experimental Module Changes

# Announcements Feed

Promoted to stable.

The screenshot displays the Drupal 10 administration interface. At the top, a navigation bar includes links for 'Back to site', 'Manage', 'Shortcuts', and the user 'admin'. A warning banner states 'This site is intended for demonstration purposes.' Below this is a secondary navigation bar with tabs for 'Content', 'Structure', 'Appearance', 'Extend', 'Configuration', 'People', 'Reports' (which is active), and 'Help'. The main content area is titled 'Home > Administration > Reports' and 'Status report'. It provides an overview of site parameters and problems. Three summary boxes are shown: '2 Errors' with a red 'X' icon and a 'Details' link, '4 Warnings' with a yellow warning triangle icon and a 'Details' link, and '24 Checked' with a green checkmark icon and a 'Details' link. Below these is a section for 'General System Information'. On the right side, a 'Community announcements' sidebar is visible, featuring a list of recent announcements with timestamps, such as 'Drupal 10 will be supported until the release of Drupal 12 in mid-late 2026' and 'Drupal 10.1 is now available'.

# Experimental Help Topics

Merged into the help module.

## Help

Search help

Search

### Getting Started

Follow these steps to set up and start using your website:

- Configure your website** Once logged in, visit the [Administration page](#), where you may [customize and configure](#) all aspects of your website.
- Enable additional functionality** Next, visit the [Extend page](#) and install modules that suit your specific needs. You can find additional modules at the [Drupal.org modules page](#).
- Customize your website design** To change the "look and feel" of your website, visit the [Appearance page](#). You may choose from one of the included themes or download additional themes from the [Drupal.org themes page](#).
- Start posting content** Finally, you may [add new content](#) to your website.

For more information, refer to the help listed on this page or to the [online documentation](#) and [support](#) pages at [drupal.org](#).

### Topics

Topics can be provided by modules or themes. Top-level help topics on your site:

- [Changing basic site settings](#)
- [Changing the appearance of your site](#)
- [Configuring aliases for URLs](#)
- [Configuring site search](#)
- [Enabling web services](#)
- [Extending and modifying your site functionality](#)
- [Maintaining and troubleshooting your site](#)

- [Making your site secure](#)
- [Managing and deploying configuration](#)
- [Managing blocks](#)
- [Managing contact forms](#)
- [Managing content](#)
- [Managing content listings \(views\)](#)
- [Managing content moderation workflows](#)

- [Managing content structure](#)
- [Managing media](#)
- [Managing menus](#)
- [Managing taxonomy](#)
- [Managing user accounts and site visitors](#)
- [Optimizing site performance](#)
- [Tracking the content of your website](#)

- [Using the administrative interface](#)
- [Viewing Drupal announcements](#)
- [Working with help topics](#)
- [Working with languages and translations](#)

### Module overviews

Module overviews are provided by modules. Overviews available for your installed modules:

- [Announcements](#)

- [Custom Menu Links](#)

- [Language](#)

- [Serialization](#)

Philip Norton [hashbangcode.com](https://hashbangcode.com) @hashbangcode @philipnorton42

28

# Permission Changes

# Rebuild Node Permissions

- This action now requires the `administer nodes` permission.
- Previously, only the `access administration pages` option was required.

# Performance Improvements

# VariationCache API

- The VariationCache module has been moved into core.
- Allows you to use cache contexts with any cache backend.

```
$cacheable_metadata = CacheableMetadata::createFromObject($response->getCacheableMetadata());  
$this->cache->set(  
    ['response'],  
    $response,  
    $cacheable_metadata->addCacheContexts($this->cacheContexts),  
    (new CacheableMetadata())->setCacheContexts($this->cacheContexts)  
);
```


- The Group module uses VariationCache.



# webp Images


- webp image support is now in core.
- Drupal core shipped image styles will now convert to webp.

original ([view actual size](#))



600px  
800px

Large (480×480) ([view actual size](#))








360px  
480px

Image style name \*

Large (480×480)

Machine name: large ([Edit](#))

[Show row weights](#)

Effect	Operations
 Scale 480×480	<a href="#">Edit</a> 
 Convert WEBP	<a href="#">Edit</a> 
 <a href="#">Select a new effect</a> 	<a href="#">Add</a>

Philip Norton [hashbangcode.com](https://hashbangcode.com) [@hashbangcode](https://twitter.com/hashbangcode) [@philipnorton42](https://twitter.com/philipnorton42)

# content-length Header

- Drupal now sets a content-length header for most responses.
- This includes all non-streamed responses (so, anything not using BigPipe).
- Allows services implementing `DestructableInterface` to run after the page has been delivered to the client.
- May need to enable output buffering by default in PHP.

# PHP Fibers

- Big Pipe rendering now makes use of PHP Fibers.
- Read more: [#! Code : Fibers In PHP 8.1](#)

# And Finally...

# PHP Version

Drupal now supports PHP 8.3 and recommends at least  
PHP 8.2.

# Symfony Components

Symfony components have been updated to version 6.4.

# Symfony Mailer

- The Symfony Mailer component has been added to Drupal core.
- The ultimate aim is to replace the existing mail system in a future release.

# Upgrading From Drupal 9

- Make sure you update to Drupal 9.4.4 before updating to Drupal 10.
- Remember that Drupal 9 is currently end of life and will receive no security updates.



# Resources

Drupal 10.2.0-rc1