

New Features In Drupal 10.2.0

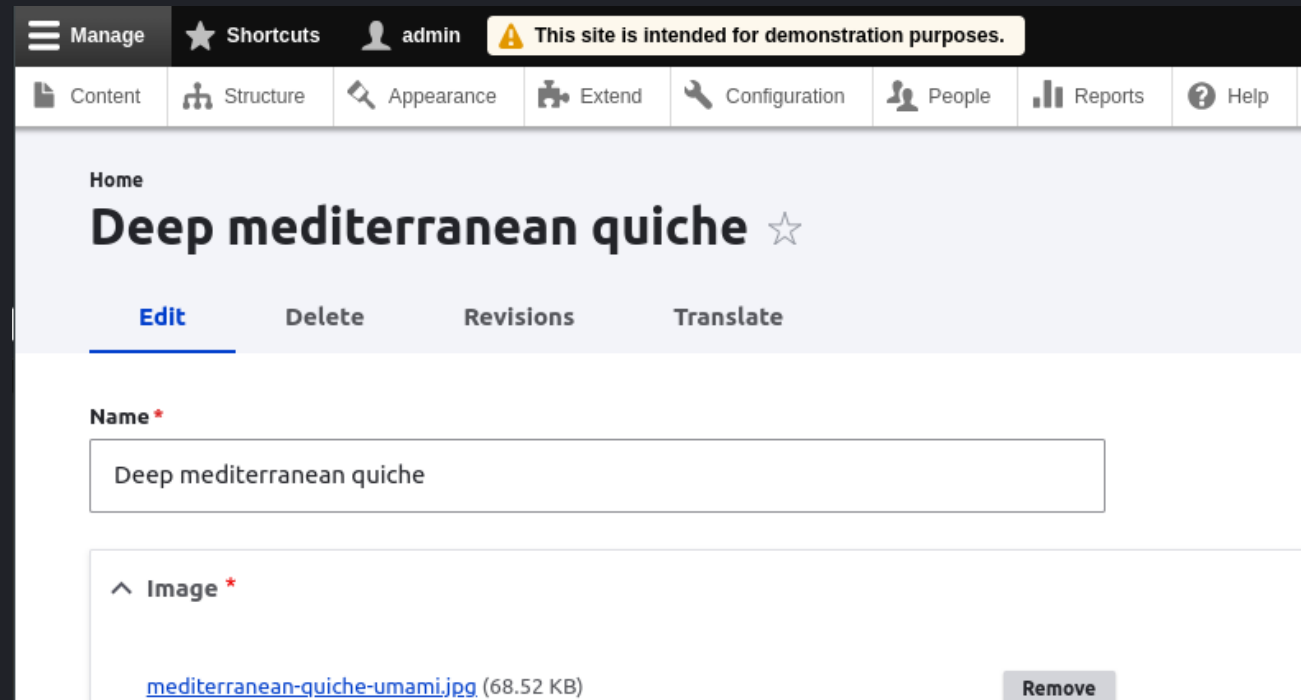
Drupal 10.2.0 Is A Minor Release

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

Interface Improvements

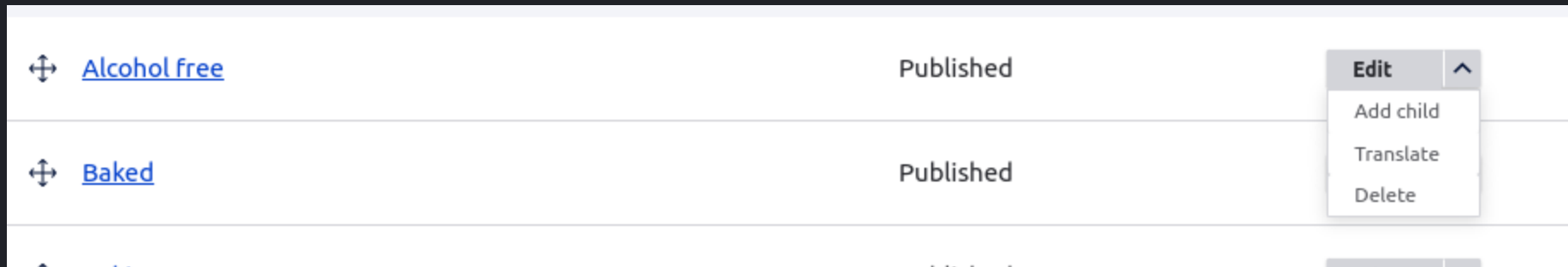
Media Revisions

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 *

 Plain text Text field that does not support markup.	 Formatted text Text field with markup support and optional editor.	 Number Field to store number. I.e. id, price, or quantity.
 Reference Field to reference other content.	 Media Field to reference media. Allows uploading and selecting from uploaded media.	 File upload Field to upload any type of files.
 Selection list Field to select from predefined options.	 Date and time Field to store date and time values.	 Boolean Field to store a true or false value.
 Email Field to store an email address.	 Link 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 is a blue 'Edit' link and the text 'Translate content fields'. The 'Label' section has a text input field containing 'Body'. The 'Field Storage' section contains a description: '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 is the 'Allowed number of values' section, which includes a dropdown menu set to 'Limited' and a text input field containing '1'. The 'Help text' section has a large text area. At the bottom, there is a small section for 'Instructions to present to the user below this field on the editing form.' and a list of 'Allowed HTML tags' including <a>, , <big>, <code>, , , <i>, <ins>, <pre>, <q>, <small>, , , <sub>, <sup>, <tt>, , , , <p>,
, .

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* S x^2 x_2 \mathcal{I}_x    Paragraph   Source

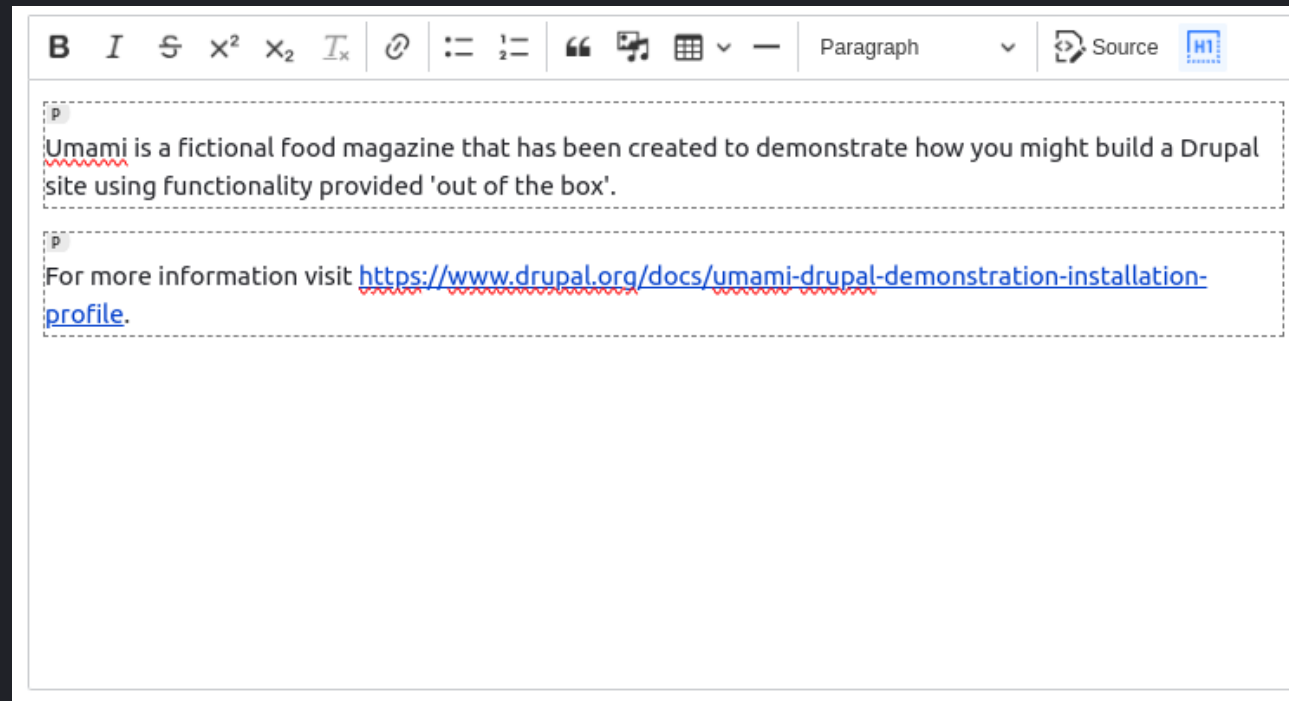
Umami is a fictional food magazine that has been created to demonstrate how you might build a Drupal site using functionality provided 'out of the box'.

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 ContainerFactoryPl
```


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 ContainerFactoryPl
```

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 interred 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 c
  '#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

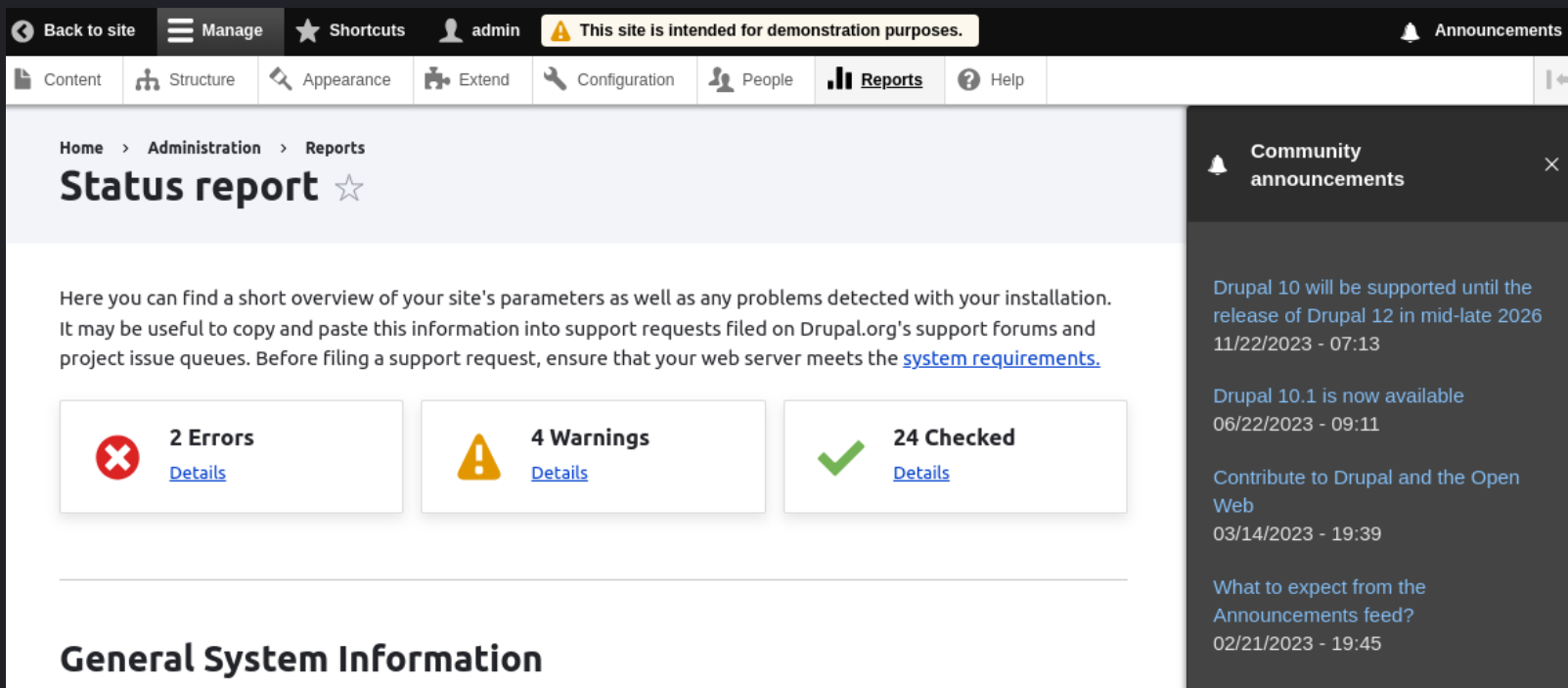
Entities may provide a `collection_permission` to access the entity overview list.

```
/**
 * @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 shows the Drupal administration interface. The top navigation bar includes links for 'Back to site', 'Manage', 'Shortcuts', and the user 'admin'. A warning message states: 'This site is intended for demonstration purposes.' The main navigation menu contains 'Content', 'Structure', 'Appearance', 'Extend', 'Configuration', 'People', 'Reports', and 'Help'. The 'Reports' menu item is active.

The main content area displays the 'Status report' page. It includes a breadcrumb trail: 'Home > Administration > Reports'. The title is 'Status report' with a star icon. The text explains that this page provides an overview of site parameters and any detected problems, useful for support requests. It advises checking 'system requirements' before filing a request.

Below the text, there are three summary boxes:

- 2 Errors** (with a red 'X' icon) and a link to [Details](#).
- 4 Warnings** (with a yellow warning icon) and a link to [Details](#).
- 24 Checked** (with a green checkmark icon) and a link to [Details](#).

Below these boxes is a section titled 'General System Information'.

On the right side, there is a sidebar titled 'Community announcements' with a close button. It contains a list of announcements:

- Drupal 10 will be supported until the release of Drupal 12 in mid-late 2026
11/22/2023 - 07:13
- Drupal 10.1 is now available
06/22/2023 - 09:11
- Contribute to Drupal and the Open Web
03/14/2023 - 19:39
- What to expect from the Announcements feed?
02/21/2023 - 19:45

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:

- 1. Configure your website** Once logged in, visit the [Administration page](#), where you may [customize and configure](#) all aspects of your website.
- 2. 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](#).
- 3. 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](#).
- 4. 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 URIs](#)
- [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](#)

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->get($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](#))



800px 600px

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






480px 360px

Image style name *

Large (480×480) Machine name: large ([Edit](#))

[Show row weights](#)

Effect	Operations
 Scale 480×480	Edit ▼
 Convert WEBP	Edit ▼
 Select a new effect ▼	Add

Philip Norton 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