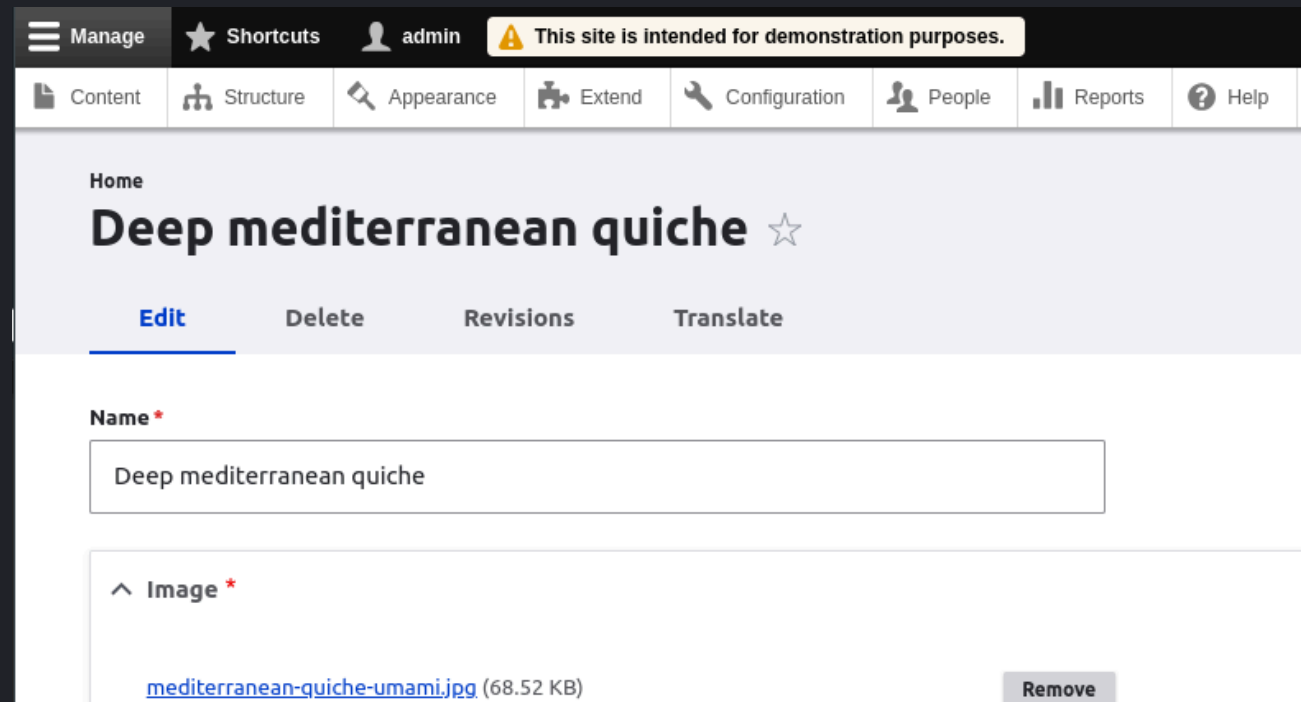# New Features In Drupal 10.2.0

# 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!
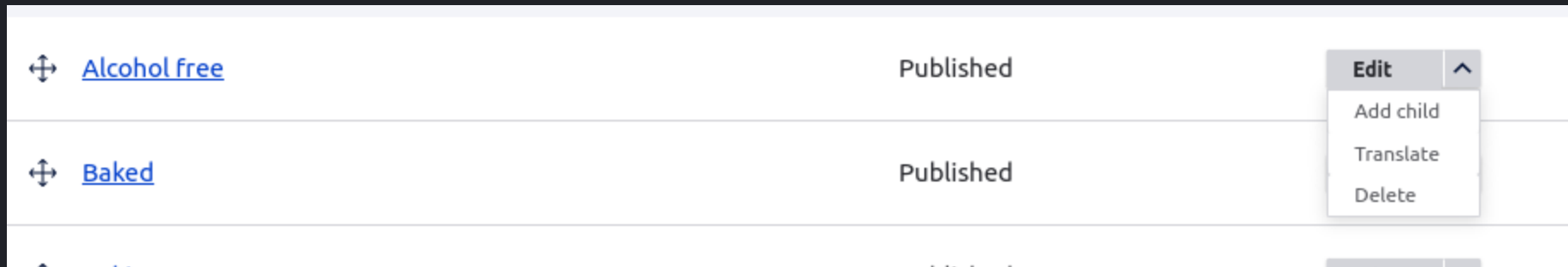
# Interface Improvements

# 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.

# Block Visibility

Can now use status code



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

# Field Creation

## New interface!

# Field Storage Form

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

# 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.

# Show Blocks

Reintroduced into CKEditor 5.
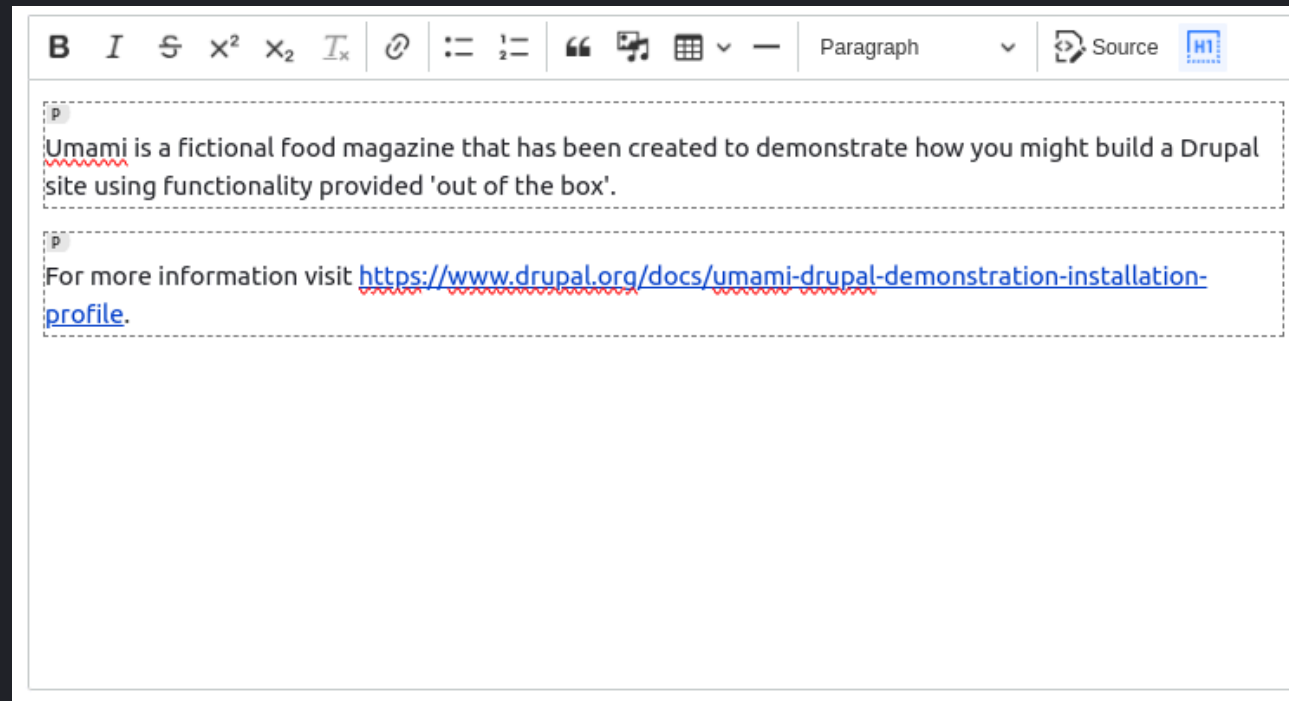
# HTML Comments

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:

```php
/**
 * 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.

```php
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 />
  <img src="sites/defaut/files/image.jpg" />
</p>
```

# After:

```
<p>
  Example text
  <br>
  <img src="sites/defaut/files/image.jpg">
</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.

```php
$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.

# Experimental Help Topics

## Merged into the help module.

# **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.

```php
$cacheable_metadata = CacheableMetadata::createFromObject($response->ge
$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.

# 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