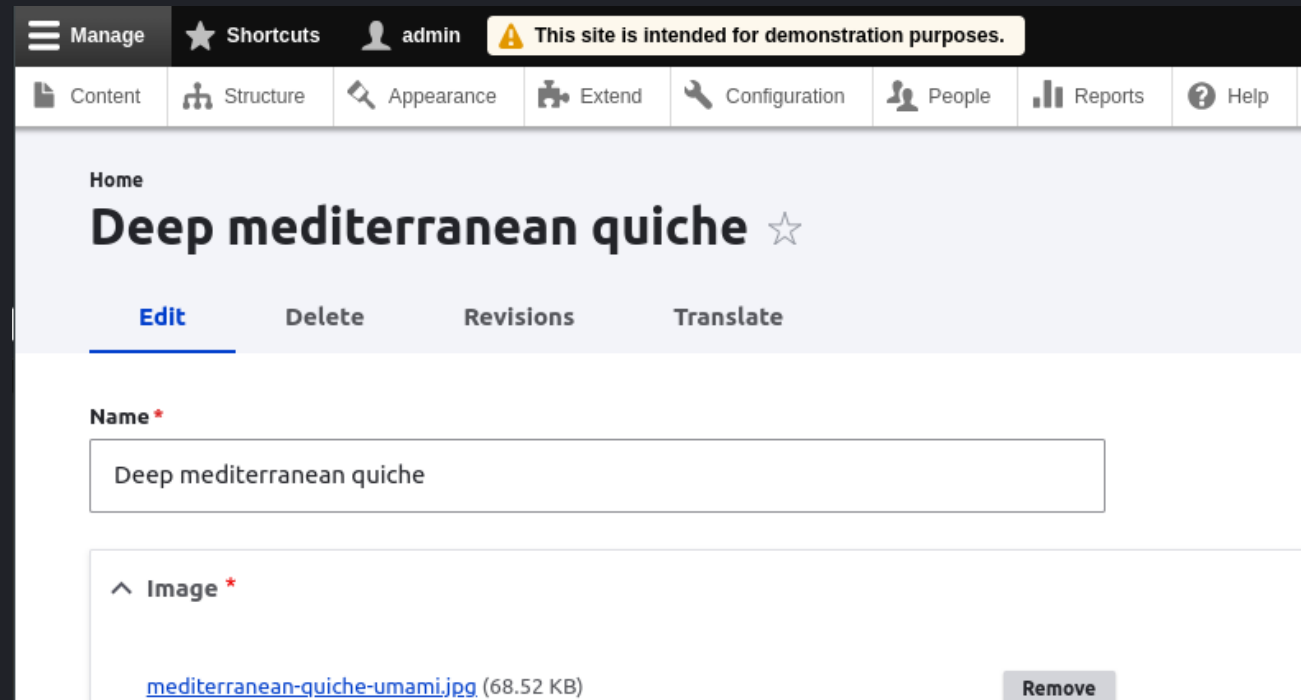# New Features In Drupal 10.2.0

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!
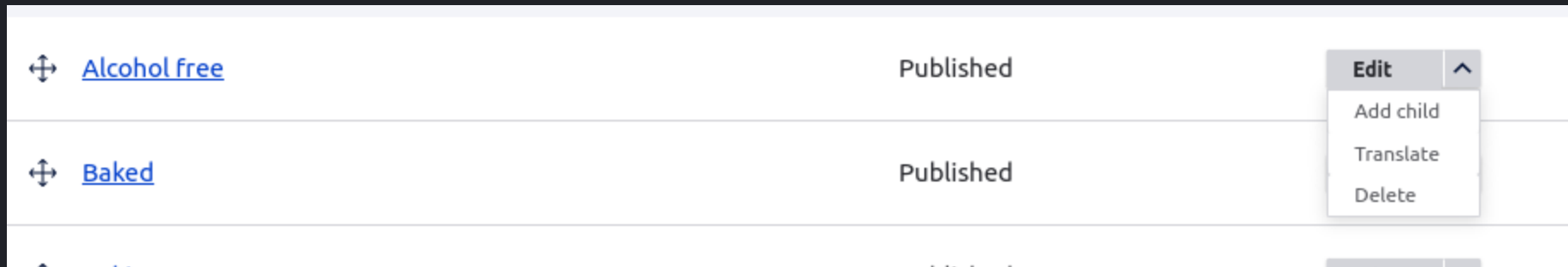
Interface Improvements

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 Froms

- 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.
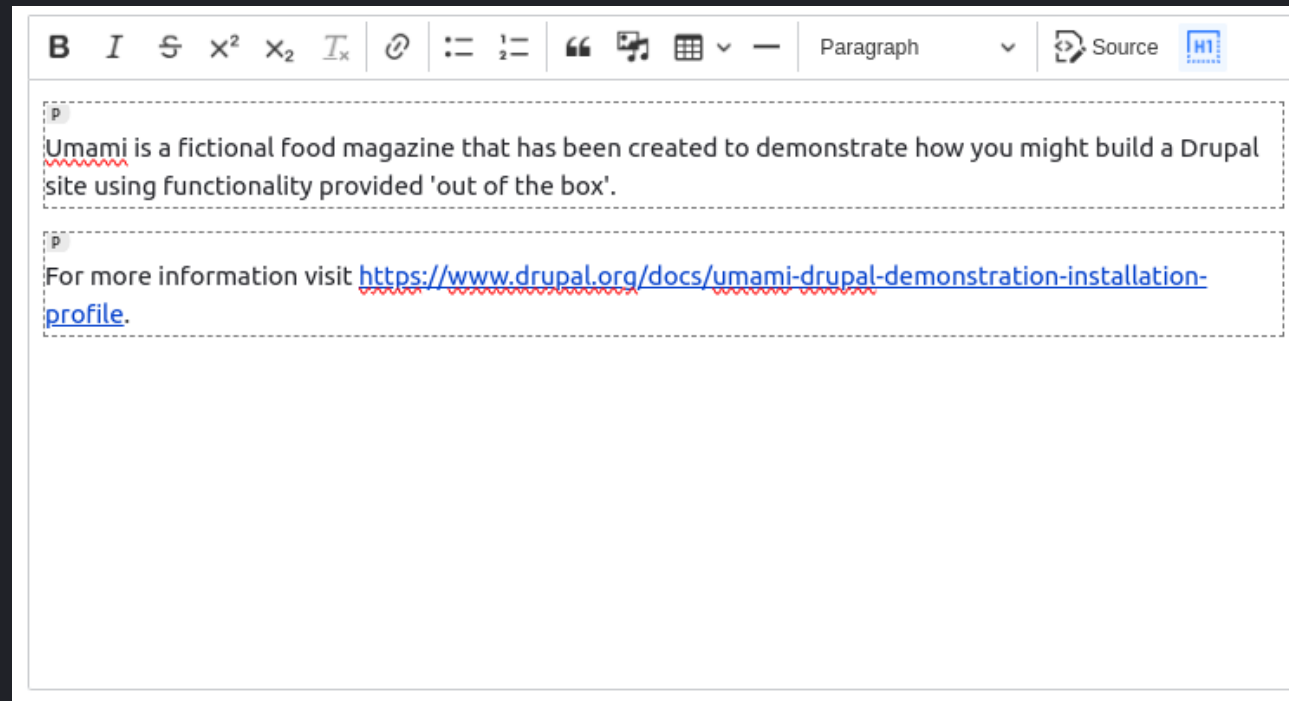
HTML Comments

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".

```yaml
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.

```
$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.
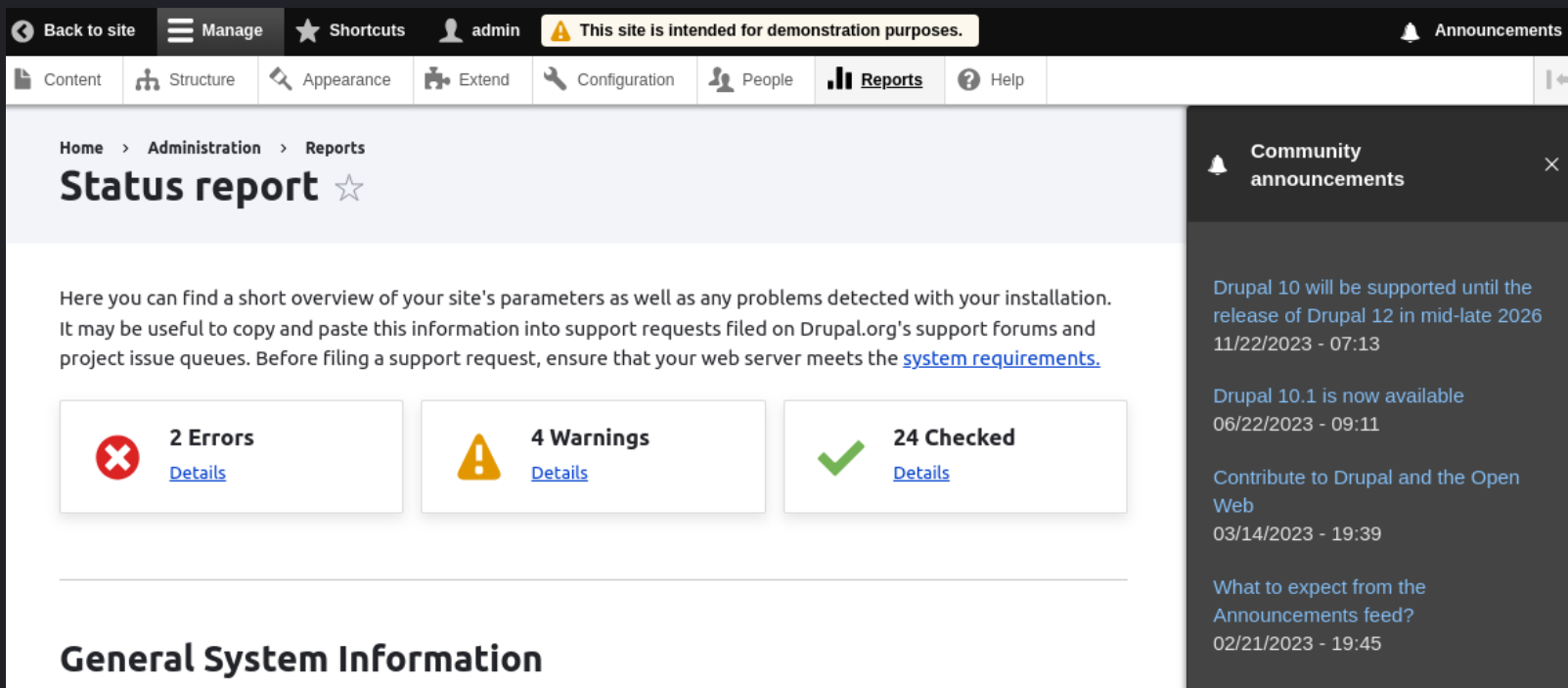
Collection Permission

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",
```

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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.

```
$cacheable_metadata = CacheableMetadata::createFromObject($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.

Philip Norton hashbangcode.com @hashbangcode @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