Drupal 8: a brief introduction
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Agenda

• Drupal 8 overview
• Content Management Features
• Site Building Features
• Development Features
• Discussion
Drupal 8

When will it be ready?
Drupal 8

When will it be ready?

Drupal 5

Drupal 6

Drupal 7

2007  2008  2011  2014

???
Drupal 8

Will I have to relearn everything?!
Drupal 8

Will I have to relearn everything?!

Yes
Drupal 8

Will I have to relearn everything?! Yes and No
Drupal 8

Will I have to relearn everything?! Yes and No

Drupal is like the web:
always evolving, always improving.
Content Management

• New content form + preview
• Wysiwyg
• In-place editing
• Multilingual at its core
• Accessible at its core
• Tours for contextual help
This website demonstrates some of the great new features of Drupal 8 for DrupalCamp St. Louis 2014.

If you have access to edit this post, you can use Drupal 8's built-in 'in place editing' feature to hover over the post and edit it, right on the page.

You can also edit the post on the regular content editing form, and prepare to be amazed by Drupal's new, fully-responsive, much cleaner user interface.
## Internationalization Improvements

### Content Management

<table>
<thead>
<tr>
<th>NAME</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration Translation</td>
<td>Provides a translation interface for configuration.</td>
</tr>
<tr>
<td>Content Translation</td>
<td>Allows users to translate content entities.</td>
</tr>
<tr>
<td>Interface Translation</td>
<td>Translates the built-in user interface.</td>
</tr>
<tr>
<td>Language</td>
<td>Allows users to configure languages and apply them to content.</td>
</tr>
</tbody>
</table>
Accessibility Improvements

Change records

**New accessibility feature: Drupal.announce()**

Posted by Wim Leers on June 7, 2013 at 1:28pm

**Change record status:** Published (View all published change records)

**Project:** Drupal core

**Introduced in branch:** 8.x

**Issues:**

[#1915302](https://www.drupal.org/node/1915302): Provide an API for aria-live region update announcements that module developers may leverage

**Description:**

In Drupal 8, we provide a simple way to turn text into speech.

**Background**

The `Drupal.announce()` function was first brought up at the Drupal Camp Toronto accessibility sprint in order to help describe changes in the state of the toolbar that could not be described with existing ARIA state markup. An example of this is when a tab in the toolbar is toggled.

It quickly became obvious that many modules in Drupal would benefit from a system that could read arbitrary text and present it in a way that could be understood by visually impaired users.
Site Building

- VIEWS IN CORE!!
- Fields in core: Date, Link, Email, Telephone, Entity Reference, etc.
- 100% responsive, mobile-first (includes admin backend)
- Form Display UI (like display modes)
- Blocks, supercharged
- Configuration management
- RESTful at the core
## Views in Core

### Views

[Add new view]

#### Search

Enter view name

#### Enabled

<table>
<thead>
<tr>
<th>VIEW NAME</th>
<th>DESCRIPTION</th>
<th>TAG</th>
<th>PATH</th>
<th>OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content</td>
<td>Find and manage content.</td>
<td>default</td>
<td>/admin/content</td>
<td>Edit</td>
</tr>
<tr>
<td></td>
<td>Display: Page</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Files</td>
<td>Find and manage files.</td>
<td>default</td>
<td>/admin/content/files,</td>
<td>Edit</td>
</tr>
<tr>
<td></td>
<td>Display: Page</td>
<td></td>
<td>/admin/content/files/usage/%</td>
<td></td>
</tr>
<tr>
<td>Frontpage</td>
<td>All content promoted to the front page.</td>
<td>default</td>
<td>/node, /rss.xml</td>
<td>Edit</td>
</tr>
<tr>
<td></td>
<td>Displays: Feed, Page</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAME</td>
<td>DESCRIPTION</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------</td>
<td>-------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Datetime</td>
<td>Defines datetime form elements and a datetime field type.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entity Reference</td>
<td>Provides a field that can reference other entities.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>File</td>
<td>Defines a file field type.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Image</td>
<td>Defines an image field type and provides image manipulation tools.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Link</td>
<td>Provides a simple link field type.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Options</td>
<td>Defines selection, check box and radio button widgets for text and numeric fields.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Telephone</td>
<td>Defines a field type for telephone numbers.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Text</td>
<td>Defines simple text field types.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Site Building

100% Responsive
Form Display UI

Manage form display

<table>
<thead>
<tr>
<th>FIELD</th>
<th>WIDGET</th>
<th>notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>String field</td>
<td>Textfield size: 60</td>
</tr>
<tr>
<td>Body</td>
<td>Text area with a summary</td>
<td>Number of rows: 9, Number of summary rows: 3</td>
</tr>
<tr>
<td>E-mail</td>
<td>E-mail</td>
<td>No placeholder</td>
</tr>
<tr>
<td>Date</td>
<td>Date and time</td>
<td>No placeholder</td>
</tr>
<tr>
<td>Link</td>
<td>Link</td>
<td>No placeholders</td>
</tr>
<tr>
<td>Telephone</td>
<td>Telephone number</td>
<td>No placeholder</td>
</tr>
<tr>
<td>Entity Reference</td>
<td>Autocomplete</td>
<td>Autocomplete matching: CONTAINS Textfield size: 60, No placeholder</td>
</tr>
</tbody>
</table>

DISABLED
Blocks, supercharged

This page provides a drag-and-drop interface for adding a block to a region, and for controlling the order of blocks within regions. To add a block to a region, or to configure its specific title and visibility settings, click the block title under Place blocks. Since not all themes implement the same regions, or display regions in the same way, blocks are positioned on a per-theme basis. Remember that your changes will not be saved until you click the Save blocks button at the bottom of the page.

Demonstrate block regions (Bartik)

Show row weights

Place blocks

Filter by block name

CUSTOM
+ DrupalCamp St. Louis

FORMS
Site Building

RESTful
Demo
Developers

• OOP architecture / Symfony-based
• New routing system (hook_menu == gone)
• Configuration management
• NIH: Reuse the best code (PHP, JS, etc.)
• MIGRATE IN CORE!!
• Normalized, completed APIs (entities, cache, etc.)
OOP Architecture

Symfony
New Routing System

```yaml
honeypot.config:
  path: '/admin/config/content/honeypot'
  defaults:
    _form: '\Drupal\honeypot\HoneypotSettingsController'
  requirements:
    _permission: 'administer honeypot'
```
Configuration management

Use the export button below to download your site configuration.
Developers / Themers

NIH ("Not Invented Here")

- Symfony2
- Assetic
- Composer
- Doctrine
- EasyRDF
- Twig
- Backbone
- jQuery
- jQuery UI
- YAML
- HAL/REST
- Guzzle
- PHPUnit
- CKEditor
- …
Migrate in Core

Drupal 6 ➔ Drupal 8

Drupal 7 ➔ Drupal 8

Developers / Themers
Developers / Themers

Migrate in Core

Just committed!

Drupal 6

Drupal 7
Migrate in Core

Developers / Themers

Drupal 6

Just committed!

Drupal 7

In progress!
API Improvements

$node->field_foo[LANGUAGE_NONE][0]["value"]
API Improvements

$node->field_foo[LANGUAGE_NONE][0]["value"]

$node->field_foo->value
API Improvements

$node->field_foo[LANGUAGE_NONE][0]['value']

$node->field_foo->value

hook_block_info, hook_block_configure, hook_block_save, hook_block_view, hook_block_YIKES!
API Improvements

$node->field_foo[LANGUAGE_NONE][0][\'value\']

$node->field_foo->value

hook_block_info, hook_block_configure,
hook_block_save, hook_block_view, hook_block_YIKES!

BlockPluginInterface
API Improvements

$node->field_foo[LANGUAGE_NONE][0]['value']

$node->field_foo->value

hook_block_info, hook_block_configure, hook_block_save, hook_block_view, hook_block_YIKES!

BlockPluginInterface

_cache_get_object(), cache_get(), cache_get_multiple(),
cache_set(), cache_clear_all(), cache_is_empty()
API Improvements

$node->field_foo[LANGUAGE_NONE][0]['value']

$node->field_foo->value

hook_block_info, hook_block_configure, hook_block_save, hook_block_view, hook_block_YIKES!

BlockPluginInterface

_cache_get_object(), cache_get(), cache_get_multiple(), cache_set(), cache_clear_all(), cache_is_empty()

\Drupal::cache()
...and so much more

• So, so many small improvements, including:
  • Node published date uses date picker
  • UI dropbuttons clean up complex action item links *everywhere*
  • Menu, content, block, etc. UI is *intuitive*
  • Things already *just work*, even though we’re in alpha (test coverage++)
  • Entity reference to *any* entity. Mind == blown.
  • Wysiwyg toolbar config is drag-and-drop
  • HTML5 everywhere, mobile-first
  • Responsive images
  • Views-powered listings (easy to modify to suit your tastes)
  • …and too many more to list in this presentation!
Discussion

Resources for further exploration

• Drupal 8 Change Records
• Drupal 8 won’t kill your kittens
• Drupal 8 Will Have Something for Everyone to Love
• Drupal 8 Release Date
• This Week in Drupal Core