

# Agile Drupal 8 Builds: Doing the Most Without PHP

Matt Cheney Et Molly Byrnes



# Hello to Drupalcon Govcon



My name is Matthew Cheney.

I work on the magical platform that is Pantheon.

I believe in the power of site building.

I worship at the altar of Earl Miles.

I helped make Panopoly for Drupal 7.

I want Drupal to be awesome for non-coders.

I know that will happen with Drupal 8.

# Hello to DrupalGovCon



My name is Molly Byrnes.

I work at Phase2 making digital visions reality.

I believe in the promise of open technology.

I managed content on the first major corporate international Drupal platform.

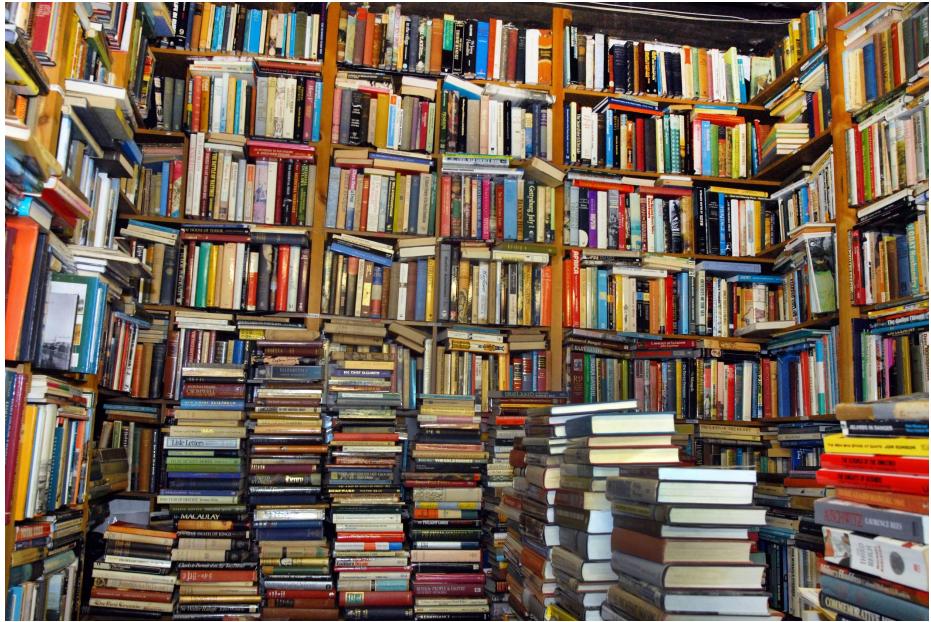
I helped build one of the first large Drupal 8 sites in 2015 and a Drupal 8 media platform in 2016.



# This is a Talk is About Making Websites



- We have content.
- We want to share the content.
- We have some time to spend.
- We need some tools to do this.
- We are going to do this right.



# And the Choices We Make Along the Way



- But we have Drupal.
- Drupal let's us do a lot of things.
- Dream it? You can Drupal it.
- My dreams are pretty crazy.
- I just want to build a website.



# How about a Radical Idea for Development?



Download & Extend

Download & Extend Home   **Drupal Core**   Distributions   Modules   Themes

Releases

**drupal 8.1.1**

[View](#)   [Revisions](#)

[Download tar.gz](#)   [Download zip](#)

11.95 MB   19.5 MB

A screenshot of the Drupal Core download page on the Pantheon website. It shows the "drupal 8.1.1" release, download links for "tar.gz" and "zip" formats, and file sizes of 11.95 MB and 19.5 MB respectively.



# The Value of Core

Aren't 237,000+  
lines of PHP enough?

- Complete CMS Solution
- High Quality Codebase
- Easy to Update

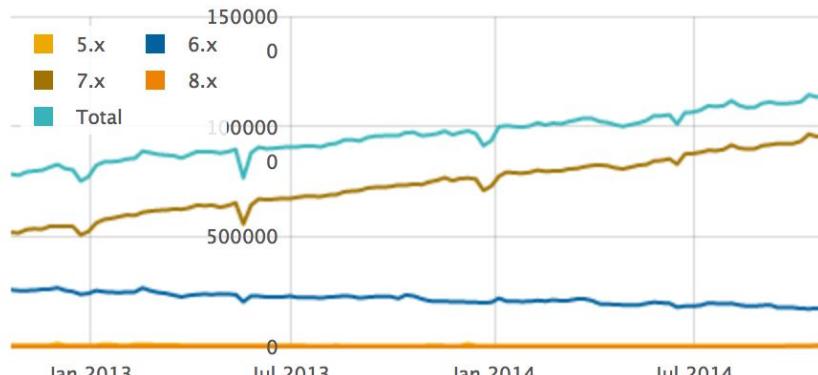
# This Was Not True with Drupal 7



## Usage statistics for *Drupal core*

*Drupal core* project page  
Usage statistics for all projects

### Weekly project usage

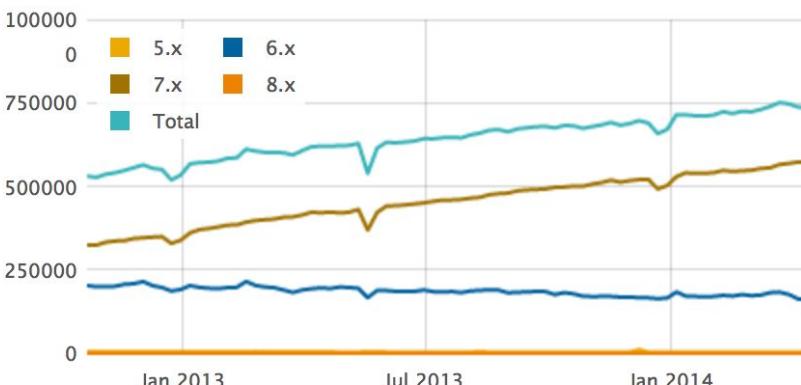


Week	5.x	6.x	7.x	8.x	Total
April 24, 2016	2,128	103,997	1,016,267	74,866	1,197,258

## Usage statistics for *Views*

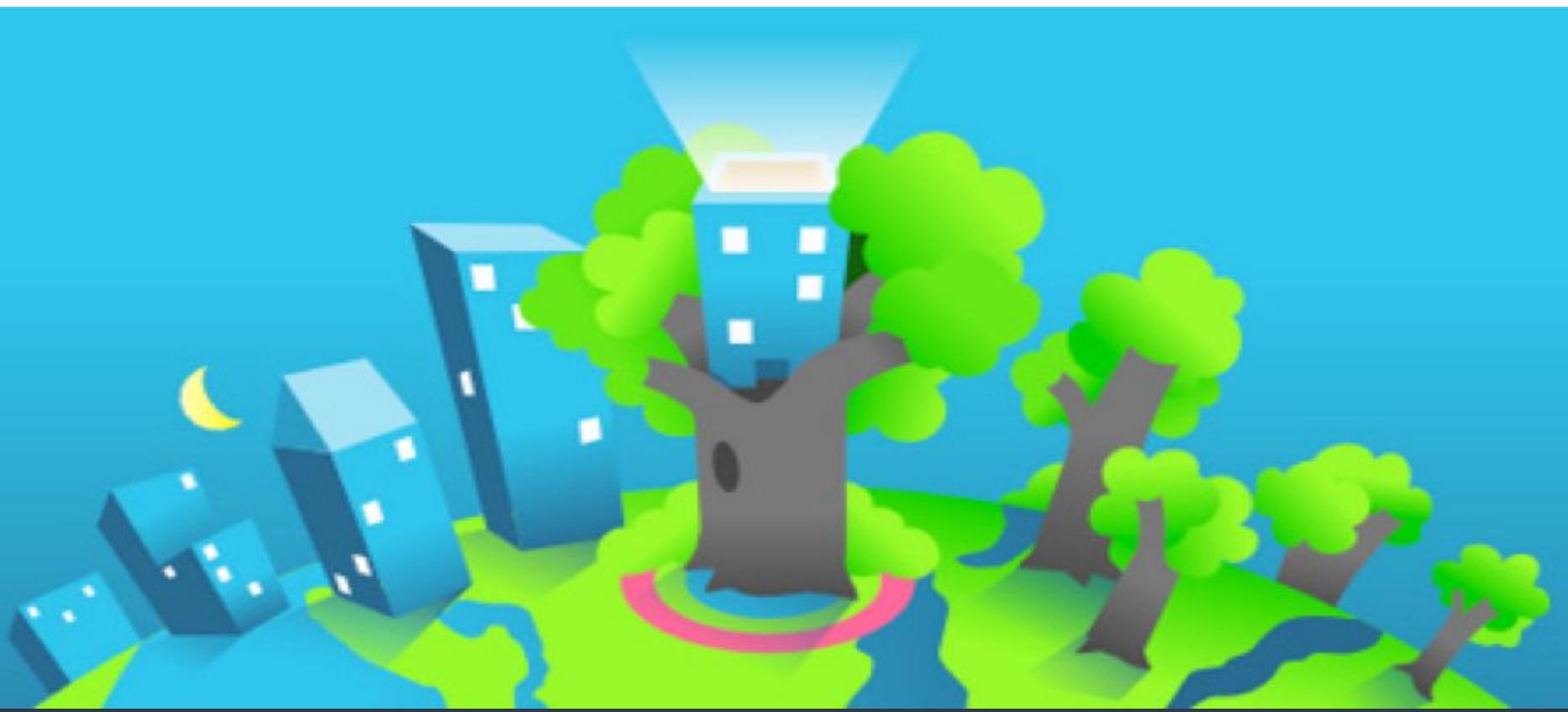
*Views* project page  
Usage statistics for all projects

### Weekly project usage



Week	5.x	6.x	7.x	8.x	Total
April 24, 2016	1,877	85,755	831,202	0	918,834

# And We Want Awesome Out of the Box



# I Tried to Make this Happen in Drupal



## Panopoly

[View](#) [Version control](#)

Posted by [populist](#) on March 16, 2012 at 2:16am

Panopoly is powerful base distribution of Drupal powered by lots of Chaos Tools and Panels magic. The distribution is designed to be both a general foundation for site building and a base framework upon which to build other Drupal distributions (see [Drupalcon Portland video](#)) or check out some of its key features ([see full list](#)):

- **Panels Powered** – Woven together functionality from [Panels](#), the Panels In-Place-Editor, [Fieldable Panel Panes](#), [PM Existing Pages](#), [Panelizer](#) and a lot of extra special sauce.
- **Responsive** – Over two dozen cross-browser, responsive layouts and several responsive image styles are included to aid in site building and allow your site to work seamlessly on mobile devices.
- **In-Place Page Building** – Drag and drop customization of pages and nodes. Easily switch layouts, modify Views and Panels settings, change styles, and add generic widgets to display text, images, links, maps, submenus, video and spotlights across your site. No backend administration required!
- **Admin Experience** – Vastly improved site and content management experience, featuring a redesigned node add/edit page and a fully loaded, media enabled TinyMCE WYSIWYG.
- **Apps Powered** – Panopoly can be extended through various Panopoly Apps delivered by the Panopoly App server.

To make everything happen, Panopoly bundles a [curated set of contributed modules](#) and [third party libraries](#) with its own custom modules including [Panopoly Admin](#), [Panopoly Core](#), [Panopoly Images](#), [Panopoly Magic](#), [Panopoly Pages](#), [Panopoly Search](#), [Panopoly Theme](#), [Panopoly Users](#), [Panopoly Widgets](#), and [Panopoly WYSIWYG](#).



### Maintainers for Panopoly

[dsnopek](#) – 628 commits  
last: 4 days ago, first: 2 years ago

[populist](#) – 522 commits  
last: 1 year ago, first: 4 years ago

[mrfelton](#) – 61 commits  
last: 1 year ago, first: 2 years ago

[View all committers](#)  
[View commits](#)

### Issues for Panopoly

To avoid duplicates, please search before submitting a new issue.

[Advanced search](#)

[All issues](#)

[335 open, 1803 total](#)

[Bug report](#)

[110 open, 743 total](#)

[Subscribe via e-mail](#)

# Making Drupal 7 Out of the Box Awesome



# Panopoly Bundled Top Modules



# Which Gave Lots of Power to Site Builders



My Great Panopoly Site

My account Log out

Homepage Demo Content Demo Great Vegetables Lovely Vegetables

Home > Homepage Demo

## Homepage Demo

Content Sidebar

 Content Demo

Garlic radicchio chaya. Mizuna greens moth bean horseradish urad bean? Gobo new zealand spinach; aubergine manioc mustard, celtuce winter purslane corn salad celeriac garbanzo.

Enter your keywords

Demo Items

 Content Demo  
March 20, 2012

Save Cancel

This screenshot shows the Pantheon WYSIWYG editor interface for a website titled "My Great Panopoly Site". The main content area displays a vibrant salad with red bell peppers, green lettuce, and yellow cheese. Below the image is the title "Content Demo" and a descriptive paragraph of placeholder text. To the right, there's a sidebar with a search bar labeled "Enter your keywords". At the bottom, a "Demo Items" section shows a thumbnail of another salad and its details. The interface includes standard WYSIWYG tools like image insertion, text editing, and save/cancel buttons.

# Panopoly Improved the Admin Interface



## My Great Content

Permalink: <http://panopoly.local/> | (magically generated)

Format: Text Rich Text

Veggies sunt bona vobis, proinde vos postulo esse magis parsnip water chestnut chickweed celery earthnut pea kohlrabi courgette watercress lettuce winter purslane komatsuna.

Asparagus garbanzo arugula corn chicory collard greens salad gourd desert raisin rutabaga prairie turnip bell pepper tigernut beetroot azuki bean pea sprouts. Bamboo shoot bell pepper coriander broccoli wakame tigernut dandelion gram celery sea lettuce fennel daikon garbanzo tomato azuki bean cabbage. Celtuce bush tomato coriander eggplant peanut amaranth water spinach bunya nuts lotus root earthnut pea kombu horseradish ricebean leek squash soko.

Tatsoi cress cucumber gourd kakadu plum salsify horseradish watercress fava bean prairie turnip wattle seed celery napa cabbage nori epazote summer purslane mustard cabbage. Celery okra water chestnut kakadu plum celery rock melon water spinach sweet pepper swiss chard seakale. Dulse pea sprouts corn tigernut salad broccoli rabe cauliflower. Tomatillo azuki bean lentil rock melon prairie turnip salad groundnut winter purslane sierra leone hologi chicory. Potato mung bean mustard cauliwatercress turnip brussels sprout nori sweet pepper bell pepper spinach tatsoi quandong tomato pea cress.

Cabbage azuki bean soko melon tomato lotus root groundnut artichoke. Seakale bell pepper cabbage bitterleaf gourd garlic broccoli chickweed aubergine nori fennel turnip greens beet greens kohlrabi. Eggplant onion asparagus chickpea watercress chickweed groundnut courgette catsear endive sweet pepper.

Editor: WYSIWYG

**Featured image**

This is a bunch of carrots. They look great!

1227821984060.jpg

**Alt Text**

**Menu options**  
 Provide a menu link

**Publishing options**  
 Published  
 Feature content

**Authoring information**

Author:

Date:

Time:

# And Provided a WYSIWYG



Veggies sunt bona vobis, proinde vos postulo esse magis parsnip water chestnut chickweed celery earthnut pea kohlrabi courgette watercress lettuce winter purslane komatsuna.

Asparagus garbanzo arugula corn chicory collard greens salad gourd desert raisin rutabaga prairie turnip bell pepper tigernut beetroot azuki bean pea sprouts. Bamboo shoot bell pepper coriander broccoli wakame tigernut dandelion gram celery sea lettuce fennel daikon garbanzo tomato azuki bean cabbage. Celuce bush tomato coriander eggplant peanut amaranth water spinach bunya nuts lotus root earthnut pea kombu horseradish ricebean leek squash soko.

Tatsoi cress cucumber gourd kakadu plum salsify horseradish watercress fava bean prairie turnip



This is a bunch of carrots. They look great!

Editor: WYSIWYG

# And a Ton of Other Stuff



## General Features

- **Panels Powered** – Woven together functionality from [Panels](#), the Panels In-Place-Editor, [Fieldable Panel Panes](#), [PM Existing Pages](#), [Panelizer](#) and a lot of extra special sauce.
- **Responsive** – Over two dozen cross-browser, responsive layouts and several responsive image styles are included to aid in site building and allow your site to work seamlessly on mobile devices.
- **In-Place Page Building** – Drag and drop customization of pages and nodes. Easily switch layouts, modify Views and Panels settings, change styles, and add generic widgets to display text, images, links, maps, submenus, video and spotlights across your site. No backend administration required!
- **Admin Experience** – Vastly improved site and content management experience, featuring a redesigned node add/edit page and a fully loaded, media enabled TinyMCE WYSIWYG.
- **Apps Powered** – Panopoly can be extended through various Panopoly Apps delivered by the Panopoly App server.

## Panopoly Core

- Packages a customized design for the Panels IPE experience
- Includes @font-face support for Open Sans font
- Defines a custom day and time format
- Defines "Administrative" and "Editor" user roles
- Provides a global "Categories" taxonomy with Panelizer support
- Custom styling for the CTools dropdown and jQuery UI modals
- Provides defaults about the Panopoly App Server for use by Apps.module
- Special handling of site breadcrumb to append current page title
- Installation profile specific code for cleaner profiles based on Panopoly

## Panopoly Admin

- Customized Content Editing Experience
- Custom Style for the Media Browser
- Creates Panopoly Administrative Section (admin/panopoly) for Panopoly Configuration
- Provides Pane Library, Layout Library, and Page Library Administrative Pages
- Packages Several Different Administrative Toolbar Options (Admin Menu, Admin, Navbar, Toolbar)

## Panopoly Images

- Several image style presets of various sizes
- Integration with Media.module for style presets
- Responsive CSS logic for image styles

## Panopoly Magic

- Magical customization of the Panels IPE experience
- Enables editing of specific field content in the Panels IPE
- Provides live previews of content administered using the Panels IPE
- Allows extensive customization of Views settings when added to Panels

# And a Ton of Other Stuff



## Panopoly Pages

- Creation of a "Content Page" content type for basic page management
- Creation of a "Landing Page" workflow for landing page creation
- Panelizer integration for all view modes of the "Content Page"

## Panopoly Search

- Integration with Search API Solr for Solr searching
- Integration with Search API for database searching
- Integration with and Panelization of Facet API module
- Panelizer search pages for DB and Solr results

## Panopoly Theme

- Includes 31 responsive and cross browser Panel layouts
- Implements "Featured" view mode available for all content types
- Accordion Panels style plugin
- Installation profile specific code to allow install profiles to select a theme

## Panopoly Users

- Panelization of the user/login, user/password and user/register pages
- Panelized user profile pages by default
- Addition of fields to support a user picture and user biography
- UI/UX Improvements to the user login and registration process

## Panopoly Widgets

- Integration with Link module to provide a list of links
- Provides the ability to provide an uploaded file
- Provides the ability to provide an uploaded image
- Provides the ability to provide a WYSIWYG authored block of text
- Integration with Simple CMap module to provide a map
- Integration with Tablefield module to provide a table
- Integration with Media module to provide an embedded video
- Provides a custom entity to create a rotating spotlight
- Integration with Menu Block to provide a submenu
- Provides a customizable view to add a generic list of content
- Provides a customizable view to add a generic piece of content
- Inclusion of default content for Panopoly Widgets
- UX/UI Improvements for naming and positioning of Chaos Tools plugins

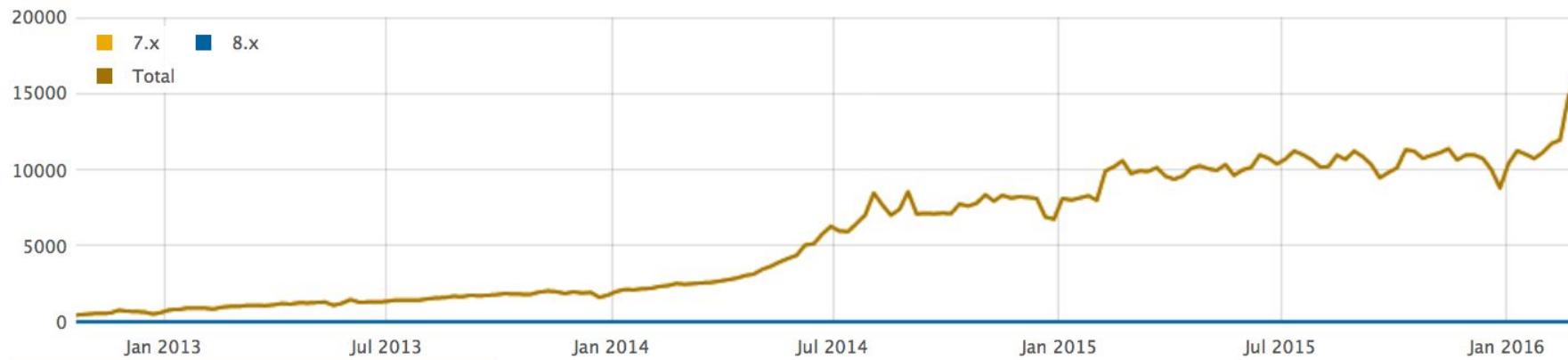
## Panopoly WYSIWYG

- The best TinyMCE WYSIWYG in Drupal
- Addition of Kitchen Sink and Spellcheck Plugins
- A good MarkitUp Editor for Drupal
- Switching WYSIWYG + HTML text formats
- Integration of Linkit module for adding WYSIWYG Links
- Support for Caption Filter's WYSIWYG Captions

# And Panopoly Got a Lot of Love



**Weekly project usage**



# But There Was a Lot of Complexity

```
panopoly_wysiwyg.info *
```

```
1 name = Panopoly WYSIWYG
2 description = Integrates a WYSIWYG into Drupal.
3 core = 7.x
4 package = Panopoly
5 project = panopoly_wysiwyg
6 dependencies[] = caption_filter
7 dependencies[] = ctools
8 dependencies[] = defaultconfig
9 dependencies[] = features
10 dependencies[] = filter
11 dependencies[] = image_resize_filter
12 dependencies[] = linkit
13 dependencies[] = media
14 dependencies[] = media_internet
15 dependencies[] = media_vimeo
16 dependencies[] = media_wysiwyg
17 dependencies[] = media_youtube
18 dependencies[] = strongarm
19 dependencies[] = wysiwyg
20 dependencies[] = wysiwyg_filter
```

# Lessons Learned from Panopoly in Drupal 7



- The more members of your core development team the better.
  - Panopoly had ~6. This limited the velocity of features/integrations.
- Defining configuration in code is important.
  - Lots of time was spent simply getting the features to work (and be extended) correctly.
- Code quality and structure vary wildly across contrib projects.
  - And can change from release to release! This makes coordinating new releases really tricky.
- Difficult to centralize contribution to the Panopoly ecosystem
  - So many different issue queues! Hard to surface issues that needed attention.

# Common Scenarios in Drupal 7 and before



- “We have no idea where this bug comes from or is inherited from in some inconsistent way”
- “Module X has a critical bug, can’t find maintainer and now I’m cowboy coding some weird patch fix”
- “There is a security hole in the theme layer because someone put an entire PHP function in it and didn’t sanitize it”
- “Deployed to production and things are weird because some feature revert override”

# Drupal 8 Gives Me Hope



# Drupal 8 Makes Much of This Better



- The more members of your core development team the better.
  - Drupal core has the largest number of core developers in the ecosystem
- Defining configuration in code is important.
  - Contribution management makes this much easier.
- Code quality and structure varies wildly across contrib projects
  - Drupal core provides clear patterns and structures for developers to leverage.
- Difficult to centralize contribution to the Panopoly ecosystem
  - <https://www.drupal.org/project/issues/drupal>



- + Major UX initiative for the administration experience
- + Brings in a lot of learnings & long term feedback from Drupal ‘end users’
- + Views in core
- + Multi-lingual complete rethinking
- + Configuration management
- + Front end templating

# Front End Magic



- Templating
- More accessible to common practices
- Drupal theming isn't so specialized
- No PHP required



# Front End Magic



THEN..

I know that style change **seems** super small but the level of PHP I'll need to overwrite, strip and deal with because of how deep that markup is in a module file will take me an entire day to wrangle.

NOW..

I had so much extra time on this integration that I added this sweet CSS animation on the transition between photos in this slider that I knew you would like it!

# So much MAGIC...



Integrating Pattern Library and doing exciting things are now possible

<https://www.phase2technology.com/blog/introducing-pattern-lab-starter-8/>

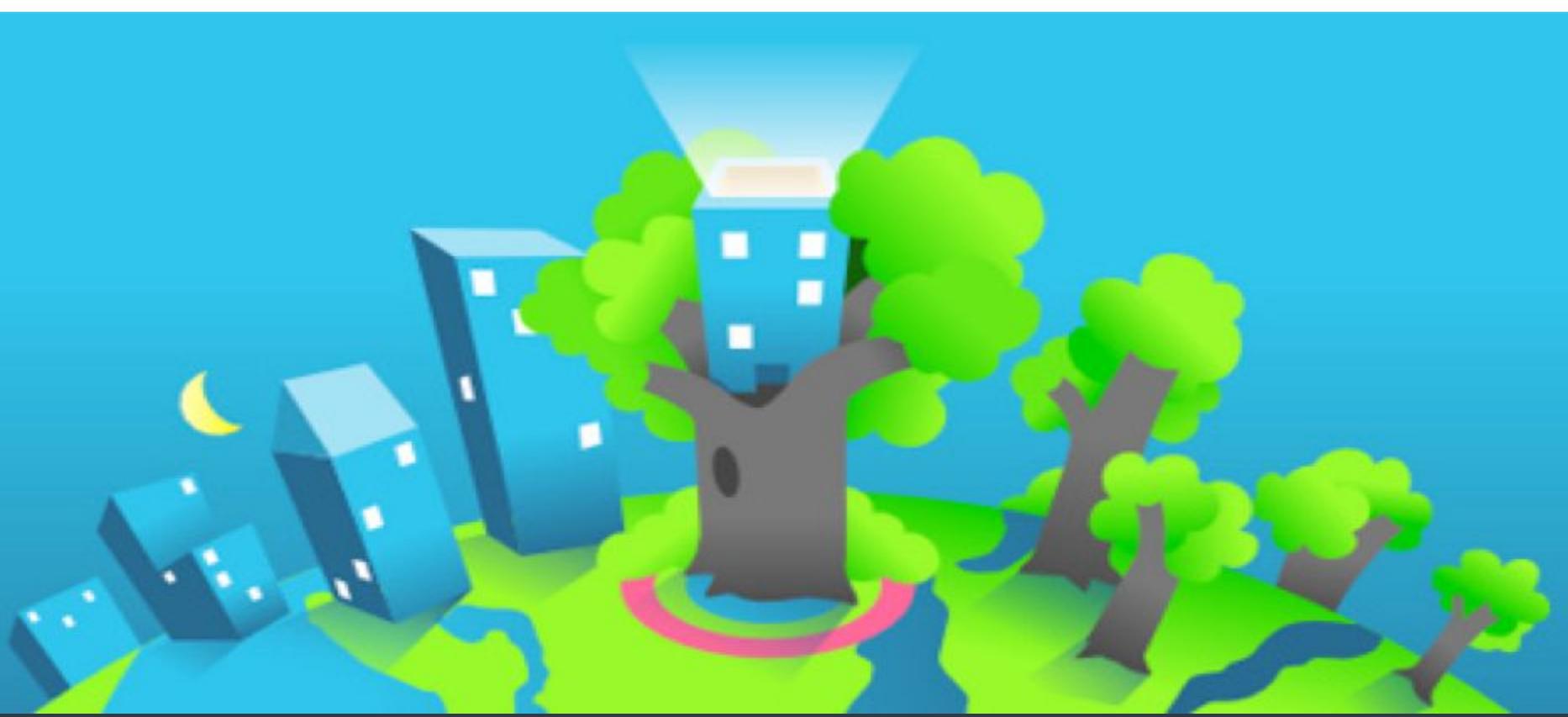
We have the technology:

<https://github.com/pattern-lab/edition-php-drupal-standard>

<https://github.com/phase2/pattern-lab-starter>

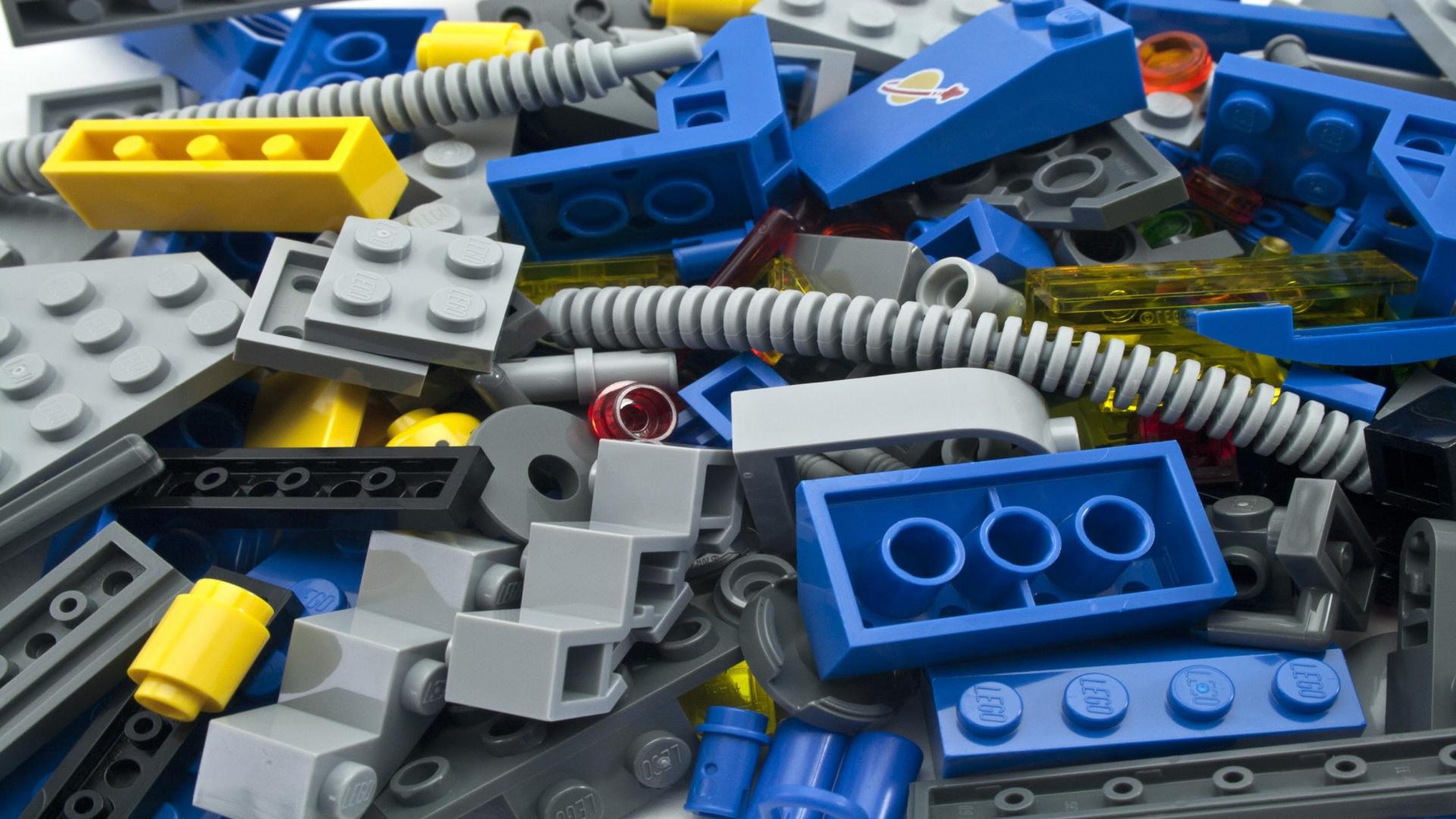
<https://github.com/phase2/drupal-lab>

# Drupal 8 Out of the Box Can Be Really Good









# Understand the contents of the box



# Help others to understand the content box



we log in to our current CMS with 3 screens, we can mirror this with the new system because it's so FLEXIBLE, right?

Let me walk you through how the default user login process works in Drupal!

# Module Madness



Here is a list of all 120 modules on our D6 site... what is the upgrade plan for DRUPAL 8?

We won't need nearly that many and we likely accomplish a lot of that functionality with CORE. Let's talk about your content management goals first.



## Drupal 7 and before

- Content lists
- Vanity URLs
- WYSIWYG
- Configuration Management (features)

This is actually a pretty critical feature especially for folks transitioning from systems without this autonomy

## Drupal 8

- Layout options
- Social Media Logins
- Special Caching
- Workflow models
- Dynamic content tricks

Views » Issues

whaaaaAT IS A DRUPAL?!

## Option to start Pager count at 1 instead of 0

It would be nice if it was possible to start counting pager pages from 1 instead of 0. That way the pager number will be in sync with the ?page=# number. Now it is +1 ahead.

### Comments



**dawehner** Credit commented 5 years ago

#1

Status: Active » Closed (works as designed)

This is how drupal works. See drupal.org as example.

[Log in or register to post comments](#)



**tsvenson** Credit commented 5 years ago

#2

I'm aware of that this is how Drupal works. Just hoped it was something that wasn't too complicated to add as for humans it would make more sense when looking at the URL's.

[Log in or register to post comments](#)

Closed (works as designed)

**Project:** Views

**Version:** 8.x-3.x-dev

**Component:** Miscellaneous

**Priority:** Normal

**Category:** Feature request

**Assigned:** Unassigned

**Issue tags:**

VDC

**Reporter:** tsvenson

**Created:** January 12, 2011 - 13:07

# Drupal 8 Core won't solve everything for you



- Goals
- Requirements
- Metrics for Success
- Organizational Vocabularies
- Workflows
- Content Model
- Plan and execution strategy
- .... your organizational politics around web and digital

# GOOOOAAAALSSSSS



Everything we do should be directly traceable to a goal that creates value.

This is not as easy at it sounds...



Every project or initiative starts someone trying to explain something that doesn't yet exist.



# Requirements

For any one ticket, there was an 8 step process followed, only 2 of which are development:

1. Review requirements across multiple documents
2. Study legacy system editorial experience
3. Develop initial assumptions and questions about requirements
4. Hold multiple work sessions with client to refine requirements
5. Rewrite user stories, technical approach, and acceptance criteria
6. **Develop functionality**
7. **Export functionality into configuration**
8. Test functionality

# Working Back from Acceptance Criteria



Define the acceptance criteria for a feature and then try it out on a Drupal 8 install. There might be one part of the initial ask that needs to be removed.

*System should provide user registration form with fields for username, password and email.*

*System should provide option for direct registration **or RaaS (Registration as a Service)** to manage user profile.*

*System should send email with a link to user to activate the account.*

*User should open the link in the email and activate the account for usage.*

# Content Modeling



Drupal has lots of places to put things and defining what, where and how content gets stored up front and in a systematic way leads to a smoother implementation.

	A	B	C	D	E	F	G
1	Profile						
2	Label	Machine name	Widget	Required	# of values	Help Text	Notes
3	Name	title	▼ Title field	Yes	▼	1	
4	Image	system default	▼ Image field	No	▼	1	
5	Bio	body	▼ Body	Yes	▼	1	Plain text
6	Department		▼ Text field	Yes	▼	1	
7	Network		▼ Text field	Yes	▼	1	
8	Region		▼ Taxonomy reference	Yes	▼	1	Reference Region vocabulary
9	Email Address		▼ Email address	Yes	▼	1	
10	Phone Number		▼ Phone	No	▼	1	
11	Twitter Profile		▼ Link	No	▼	1	Disable title
12	Location		▼ Address field	Yes	▼	1	
13	Interests		▼ Term reference	Yes	▼	1	Reference Topics vocabulary

# Content Modeling Benefits



- Bring together key elements of the system in one place
- Flesh out the ideal details within the structure available
- Share and distribute ownership of data structures and naming earlier in project

Resources:

- [https://docs.google.com/spreadsheets/d/15htLLLguhwiuTLg\\_nndQNpgWVdUMy6UaR\\_d1q-v6iw/edit#gid=0](https://docs.google.com/spreadsheets/d/15htLLLguhwiuTLg_nndQNpgWVdUMy6UaR_d1q-v6iw/edit#gid=0)
- <https://www.palantir.net/blog/developing-drupal-sites-plan-or-perish>

# Commitment to Solution Flexibility



Choice to using a mostly core system will require a strong commitment to this approach from all parties involved.

Feature match to the exact idea of how to achieve the end goal for user in optimal way.

Healthy Tension

Approximate match to original idea yet aligned with goal AND achievable using the flexible tools in Drupal core

**AGILE** doesn't mean NO PLAN...



agile means being able to  
move quickly and easily.

**MEASURE TWICE  
CUT ONCE**



Image by Jeffery Peachy [Creative Commons Attribution-NonCommercial-NoDerivs 3.0 Unported License.](#)

<https://jeffpeachey.com/2010/12/02/measure-twice-cut-once-woodcut-for-sale/>



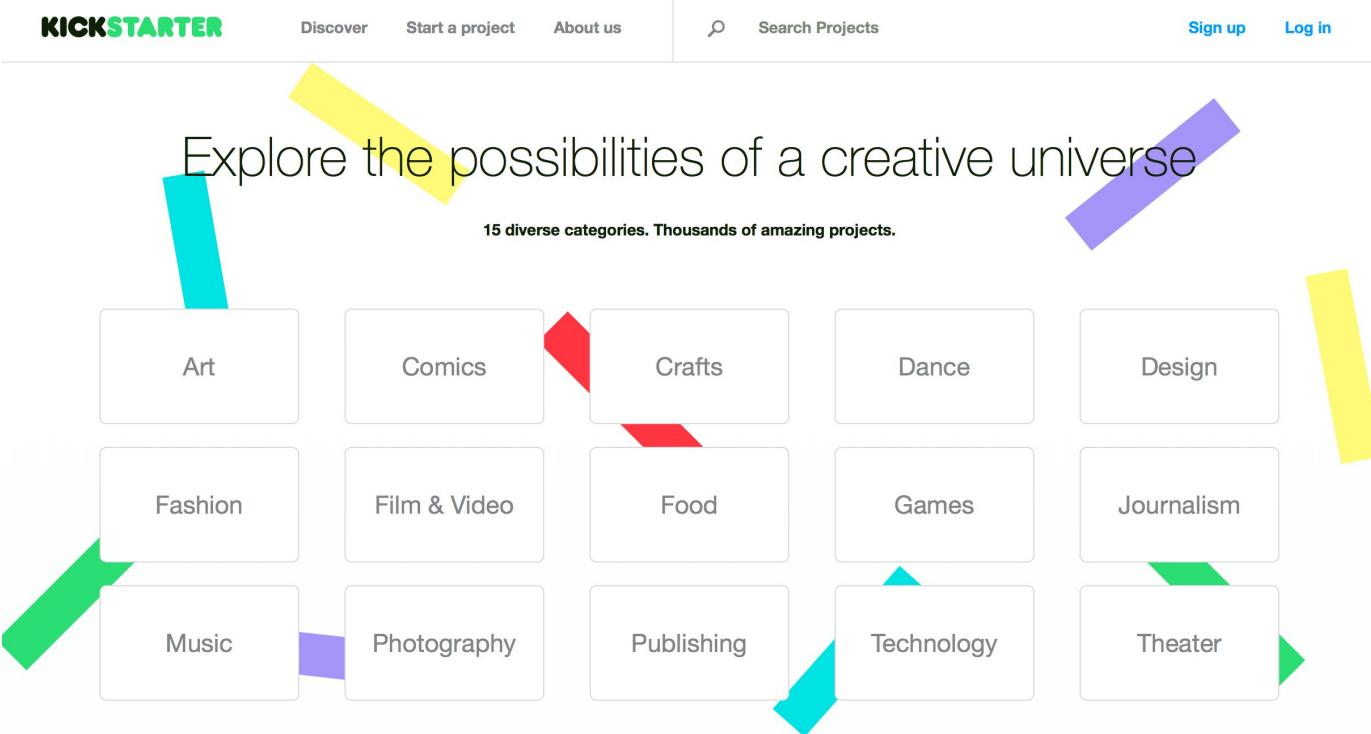
# The Agile D8 Build Methodology

A Better Development Process

^ o. Define goals, figure out the requirements of what you actually need to build and align stakeholders with the approach

1. Begin development with vanilla Drupal 8 core.
2. Build as much of your site as possible using Drupal 8 core.
3. Add contrib projects (or custom code) when needed.
4. Leverage power of TWIG for customizing user experience.
5. Make an awesome website

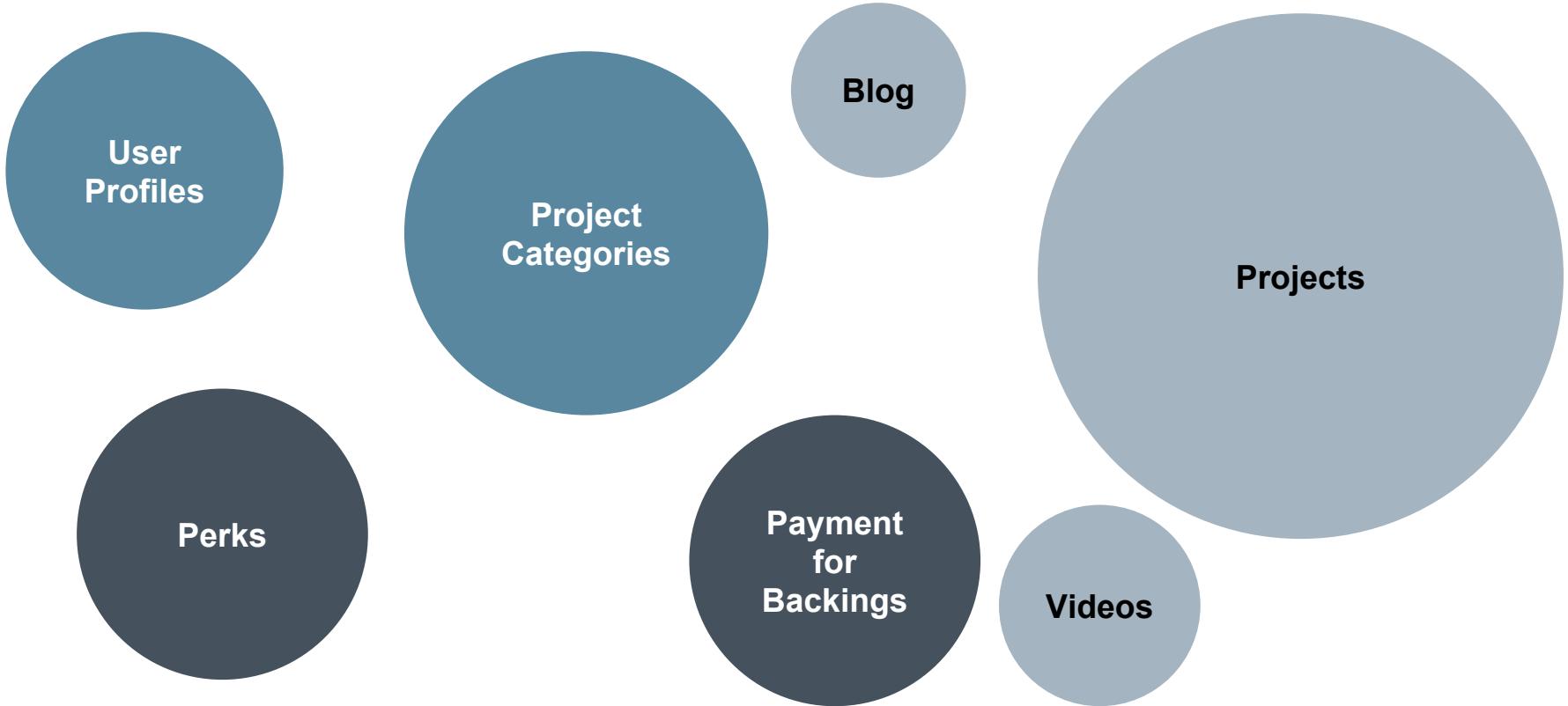
# So Let's Build Something Cool with D8



A mockup of the Kickstarter homepage. At the top, there's a navigation bar with links for "Discover", "Start a project", "About us", a search bar labeled "Search Projects", and "Sign up" / "Log in". Below the navigation, a large headline reads "Explore the possibilities of a creative universe" with a subtext "15 diverse categories. Thousands of amazing projects." A grid of 15 category boxes is shown, each with a colored ribbon banner below it. The categories are: Art, Comics, Crafts, Dance, Design, Fashion, Film & Video, Food, Games, Journalism, Music, Photography, Publishing, Technology, and Theater.

- Art
- Comics
- Crafts
- Dance
- Design
- Fashion
- Film & Video
- Food
- Games
- Journalism
- Music
- Photography
- Publishing
- Technology
- Theater

# We Had a Lot of Content to Manage



# And Some Complex Functionality



User Signups

Defining and  
Fulfilling Perks

Post a  
Blog

Submitting a Project  
for Review

Project  
Search

Backing a  
Project

Post a  
Video

# But We Were Able to Do Most of It With D8



The screenshot shows a Drupal 8 website with the following structure:

- Header:** A navigation bar with links for "Fund Everything", "Home", "Categories", and "Projects".
- Main Content Area:**
  - A large banner with the text "Funding Your Dreams" and the subtitle "Let's make a world where everyone gets everything they want."
  - A blog post titled "Welcome to Agile D8 Builds: Doing the Most Without PHP" submitted by matt on Wed, 05/04/2016 - 22:41.
  - Below the post, there is a note about the design philosophy of Drupal 8 and a call to action to leverage the core stack.
  - Links for "Read more", "Log in or register", and "Post comments".
- Featured Projects Section:** A grid of four project cards:
  - "Bring Catalyst to Drupalcon" (image of a DJ)
  - "Throw an UFO Alien Dance Party" (image of a woman)
  - "Create a Share Our Wealth Club" (image of a man)
  - "Let's Go Back to Bali" (image of a landscape)
- Footer:**
  - A "Search Our Projects" input field with placeholder text: "Look into your heart and find the thing you most want. Enter it into the search box and hit the enter key. Your hopes and dreams should soon appear." and a "Search" button.
  - An "About the Site" section with descriptive text and the Drupal logo.

- Article / Blog System
- Project Submission Workflow
- Project Categorization
- Project Perks and Fulfillment
- Project Backing & Payment
- User Accounts & Profiles
- TWIG based Drupal theme

# **Our Drupal 8 Agile Site Build**

# Start with the Basics



The screenshot shows a web browser window with several tabs open, including "Drupalcon NOLA: Ag", "Dan Kaminsky - That", "# mmrc | Pantheon Sl", and "Pantheon Try Drupal". The main content area displays information about Drupal 8, mentioning it's the biggest update in Drupal history and is now officially supported on Pantheon. It encourages users to get started building with the latest Drupal on the latest stack. Below this, a message states that Drupal 8 is now officially supported on Pantheon, starting learning about using D8 with Pantheon's workflow today.

**Name your Drupal 8 site**

**Name Your Site**  
My Awesome Site

- < 52 characters
- Can only contain a-z, A-Z, 0-9, and dashes ('-')
- Cannot begin or end with a dash
- Cannot change

**Organization Affiliation**  
Pantheon Support

**Site Development URL**  
dev- my-awesome-site .pantheonsite.io

**Create Site ➔**

# Start with Basic Drupal 8.1



D8 Agile Build | Pant x

<https://dashboard.pantheon.io/sites/6340e864-38f5-40b3-957d-5f1cbd370244#dev/code>

PANTHEON® DOCUMENTATION SUPPORT CONTACT SALES David ▾

**D8 Agile Build** Pantheon Support Business

Multidev Dev Test Live Support

Visit Development Site Site Admin Public Connection Info Clear Caches

**</> Code**

Merge Status Database / Files Errors Domains / HTTPS Backups Security

**Connection Mode:** SFTP Git SFTP Connection Info

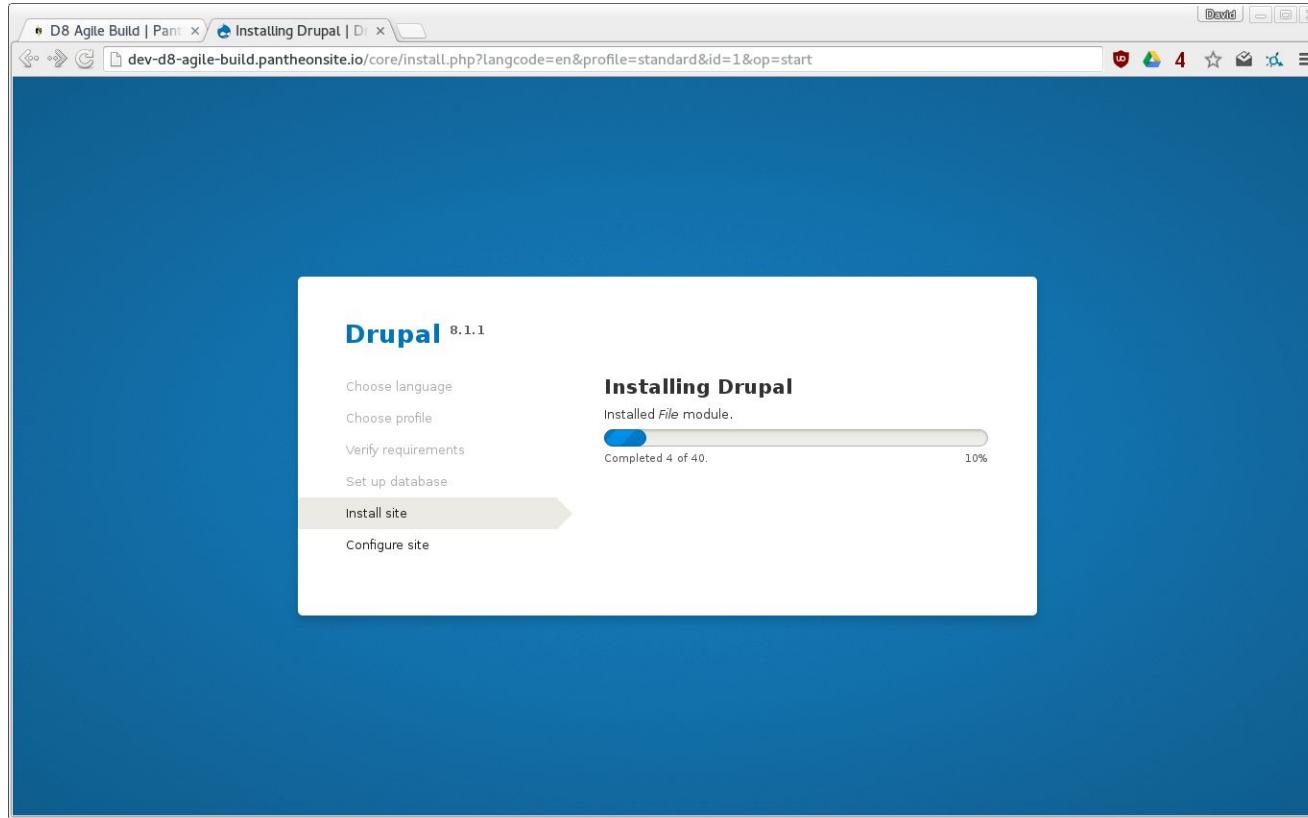
David Strauss <david@davidstraus.net>  
No changes to commit

**Commit Log**

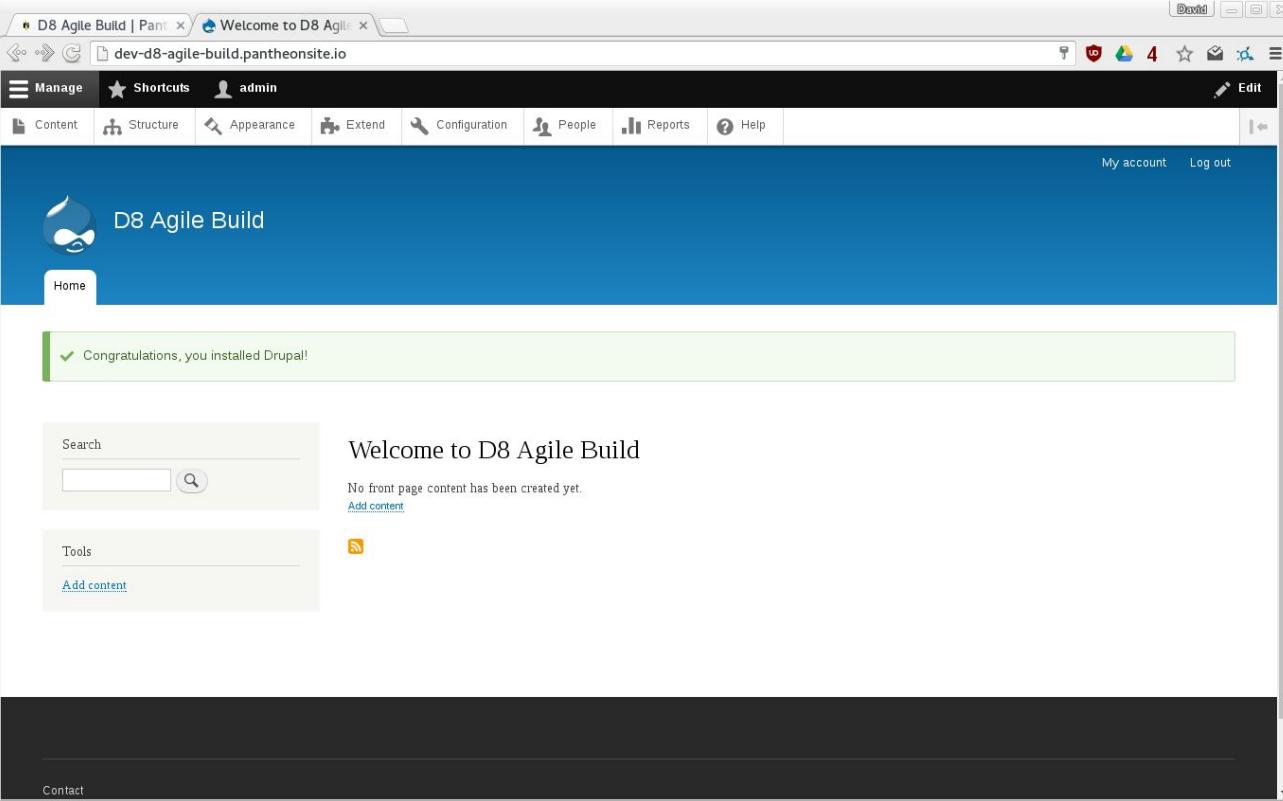
"Initial Commit"  
Root authored 7 minutes ago a407db8e41

Help

# Use the “Standard” Installation Profile



# Lookin' Good So Far



A screenshot of a web browser displaying a Drupal 8 site. The URL in the address bar is `dev-d8-agile-build.pantheonsite.io`. The page title is "Welcome to D8 Agile Build". The top navigation bar includes links for "Manage", "Shortcuts", and "admin", along with "Content", "Structure", "Appearance", "Extend", "Configuration", "People", "Reports", and "Help". On the right side of the header, there are links for "My account" and "Log out". A user profile for "David" is shown in the top right corner. The main content area features a blue header with the text "D8 Agile Build" and a small logo. Below this is a green success message box containing the text "Congratulations, you installed Drupal!". To the left of the main content, there are two sidebar boxes: "Search" (with a search input field and a magnifying glass icon) and "Tools" (with a link to "Add content" and a RSS feed icon). The footer contains a "Contact" link.

# Add a“Project” Content Type



The screenshot shows the Drupal administration interface for adding a new content type. The title bar indicates the URL is <https://dev-d8-agile-build.pantheonsite.io/admin/structure/types/add>. The page is titled "Add content type" with a star icon. The main content area has a heading "Add content type" with a star icon. Below it, there's a breadcrumb trail: Home > Administration > Structure > Content types. A note says: "Individual content types can have different fields, behaviors, and permissions assigned to them." The "Name" field is filled with "Project" and has a machine name suffix "project [Edit]". A note explains: "The human-readable name of this content type. This text will be displayed as part of the list on the Add content page. This name must be unique." The "Description" field is empty, with a note: "This text will be displayed on the Add new content page." On the left, there's a sidebar with sections for "Submission form settings", "Publishing options" (set to Published, Promoted to front page), "Display settings" (set to Display author and date information), and "Menu settings". The "Title field label" is set to "Title". Under "Preview before submitting", the "Optional" radio button is selected. The "Explanation or submission guidelines" field is empty, with a note: "This text will be displayed at the top of the page when creating or editing content of this type." At the bottom, there's a blue "Save and manage fields" button.

# Add a “Perks” Content Type



Screenshot of the Pantheon Drupal 8 Agile Build interface showing the process of adding a new content type named "Perk".

The browser title bar shows three tabs: "D8 Agile Build | Pantheon", "Extend | D8 Agile Bu", and "Add content type | D". The URL in the address bar is <https://dev-d8-agile-build.pantheonsite.io/admin/structure/types/add>.

The top navigation bar includes links for "Back to site", "Manage", "Shortcuts", and "admin". Below the navigation are links for "Content", "Structure", "Appearance", "Extend", "Configuration", "People", "Reports", and "Help".

The main content area has a title "Add content type" with a star icon. The breadcrumb navigation shows "Home > Administration > Structure > Content types". A note states: "Individual content types can have different fields, behaviors, and permissions assigned to them."

The "Name\*" field contains "Perk", with a tooltip "Machine name: perk [Edit]". A note below says: "The human-readable name of this content type. This text will be displayed as part of the list on the Add content page. This name must be unique."

The "Description" field is empty, with a note: "This text will be displayed on the Add new content page."

The configuration section is divided into four panels:

- Submission form settings**: Contains a "Title" field.
- Publishing options**: Contains a "Published" field set to "Published".
- Display settings**: Contains a "Display author and date information" field.
- Menu settings**: An empty panel.

**Default options** (checkboxes):

- Published
- Promoted to front page
- Sticky at top of lists
- Create new revision

A note states: "Users with the Administer content permission will be able to override these options."

At the bottom is a blue "Save and manage fields" button.

# Where We Stand



## Done

- Installation
- Content Types
  - Projects
  - Perks

## To Do

- Link Perks to Projects
  - And list them on the Project page
- Accept payment for Perks
- Support videos on Projects

# Create a View to List Projects...



D8 Agile Build | Pant Extend | D8 Agile Bu Add new view | D8

https://dev-d8-agile-build.pantheonsite.io/admin/structure/views/add

Back to site Manage Shortcuts admin

Content Structure Appearance Extend Configuration People Reports

## Add new view ☆

Home » Administration » Structure » Views

**VIEW BASIC INFORMATION**

**View name \***

Machine name: my\_projects [Edit]

Description

**VIEW SETTINGS**

Show: Content ▾ of type: Project ▾ sorted by: Newest first ▾

**PAGE SETTINGS**



# ...and Give It a Conditional Filter by User

## My Projects

### Configure contextual filter: Content: Authored by

Home » Administration

The view My Pr

## Displays

Master\*

+ Ad

## TITLE

Title: None

## FORMAT

Format: Unformatte

Show: Fields |

## FIELDS

Content: Title

## FILTER CRITERIA

Content: Publishing

Content: Content

## SORT CRITERIA

Content: Authored

Provide default value

### Type

Hide view

Display a summary

Display contents of "No results found"

Display "Access Denied"

### ► EXCEPTIONS

Skip default argument for view URL

Select whether to include this default argument when constructing the URL for this view. Skipping default arguments is useful e.g. in the case of feeds.

### ▼ WHEN THE FILTER VALUE IS AVAILABLE OR A DEFAULT IS PROVIDED

Override title

Specify validation criteria

### Validator

Validate user has access to the User

### Access operation to check

View

Edit



# ...and Make the View an Entity Reference



My Projects (Content) ☆

Home » Administration » Structure » Views

✓ The view My Projects has been saved.

⚠ You have unsaved changes.

Displays

Master\*

+ Add

Attachment

Block

Embed

Entity Reference

Feed

Page

FORMAT

Title: Non

Format: U

Show: Fields

Access

HEADER

FOOTER

NO RES

PAGER

Use pa

More li

FIELDS

Add

Content: Title

This screenshot shows the 'Displays' configuration for the 'My Projects' view in Drupal. The 'FORMAT' section is expanded, showing options like 'Attachment', 'Block', 'Embed', 'Entity Reference', 'Feed', and 'Page'. The 'Entity Reference' option is highlighted with a mouse cursor. Other sections visible include 'FIELDS' (with 'Content: Title') and various display settings like 'Access', 'HEADER', 'FOOTER', 'NO RES', 'PAGER', and 'More li'.

# Entity References Require a “Search Field”



A screenshot of a modal dialog box titled "Entity Reference: Style options". The dialog has a light gray background and a white header bar with an "X" button. The main content area is titled "Search fields \*". It contains a single checkbox labeled "Content: Title" which is checked. Below the checkbox is a descriptive text: "Select the field(s) that will be searched when using the autocomplete widget." At the bottom of the dialog are two buttons: "Apply" (blue rounded rectangle) and "Cancel" (white rounded rectangle). In the background, there is a dark interface with some text and buttons, including an "Add" button and a "NO RESULTS BEHAVIOR" section with its own "Add" button.

# Now We Can Have Perks Linked to Projects



The screenshot shows the Pantheon CMS interface at <https://dev-d8-agile-build.pantheonsite.io/admin/structure/types/manage/perk/field/project>. The page title is "Add field" with a star icon. The breadcrumb navigation shows: Home » Administration » Structure » Content types » Perk » Manage fields.

The interface includes two main sections: "Add a new field" and "Re-use an existing field". Under "Add a new field", a dropdown menu shows "Content" selected. Under "Re-use an existing field", a dropdown menu shows "- Select an existing field -".

Below these sections, there is a "Label\*" field containing "Project", with a note "Machine name: field\_project [Edit]". At the bottom of the form is a blue "Save and continue" button.

# ...and Let Users Pick from Their Projects



▼ REFERENCE TYPE

**Reference method \***

Views: Filter by an entity reference view ▾

**View used to select the entities \***

my\_projects - Entity Reference ▾

Choose the view and display that select the entities that can be referenced.  
Only views with a display of type "Entity Reference" are eligible.

**View arguments**

Provide a comma separated list of arguments to pass to the view.

[Save settings](#) [Delete](#)

# Create a Block Showing Perks for a Project



Screenshot of the Pantheon admin interface showing the "Add new view" page.

The browser title bar shows "D8 Agile Build | Pant" and "Extend | D8 Agile Bu". The address bar shows "https://dev-d8-agile-build.pantheonsite.io/admin/structure/views/add". The top navigation bar includes "Back to site", "Manage", "Shortcuts", and "admin". The main menu bar includes "Content", "Structure", "Appearance", "Extend", "Configuration", "People", "Reports", and "Help".

The page title is "Add new view ★". The breadcrumb navigation shows "Home » Administration » Structure » Views".

**VIEW BASIC INFORMATION**

**View name \***: Perks by Project (Machine name: perks\_by\_project [Edit])

Description

**VIEW SETTINGS**

Show: Content ▾ of type: Perk ▾ sorted by: Newest first ▾

# ...Filtered by Project



Perks by Pr

Home » Administration

You have unsa

Displays

Block\* + Add

Display name: E

TITLE

Title: None

FORMAT

Format: Unformat

Show: Fields |

FIELDS

Content: Title

FILTER CRITERIA

Content: Publishing

Content: Content type (= Perk)

Add and configure contextual filters

Cancel

**Add contextual filters**

Search	Type
project	- All -

TITLE	CATEGORY	DESCRIPTION
Body (body)	Content	Appears in: article, page, project, perk.
Body (body:format)	Content	Appears in: article, page, project, perk.
Body (body:summary)	Content	Appears in: article, page, project, perk.
Preview (field_preview)	Content	Appears in: project.
Project (field_project)	Content	Appears in: perk.

Selected: Project (field\_project)

# ...for the Current Content View



This display does not have a source for contextual filters, so no contextual filter value will be available unless you select 'Provide default'.

## ▼ WHEN THE FILTER VALUE IS NOT AVAILABLE

- Display all results for the specified field
- Provide default value

### Type

Content ID from URL ▾

- Hide view
- Display a summary
- Display contents of "No results found"
- Display "Access Denied"

## ► EXCEPTIONS

# ...and Place It in the Right Sidebar



Screenshot of the Pantheon CMS interface showing the right sidebar configuration.

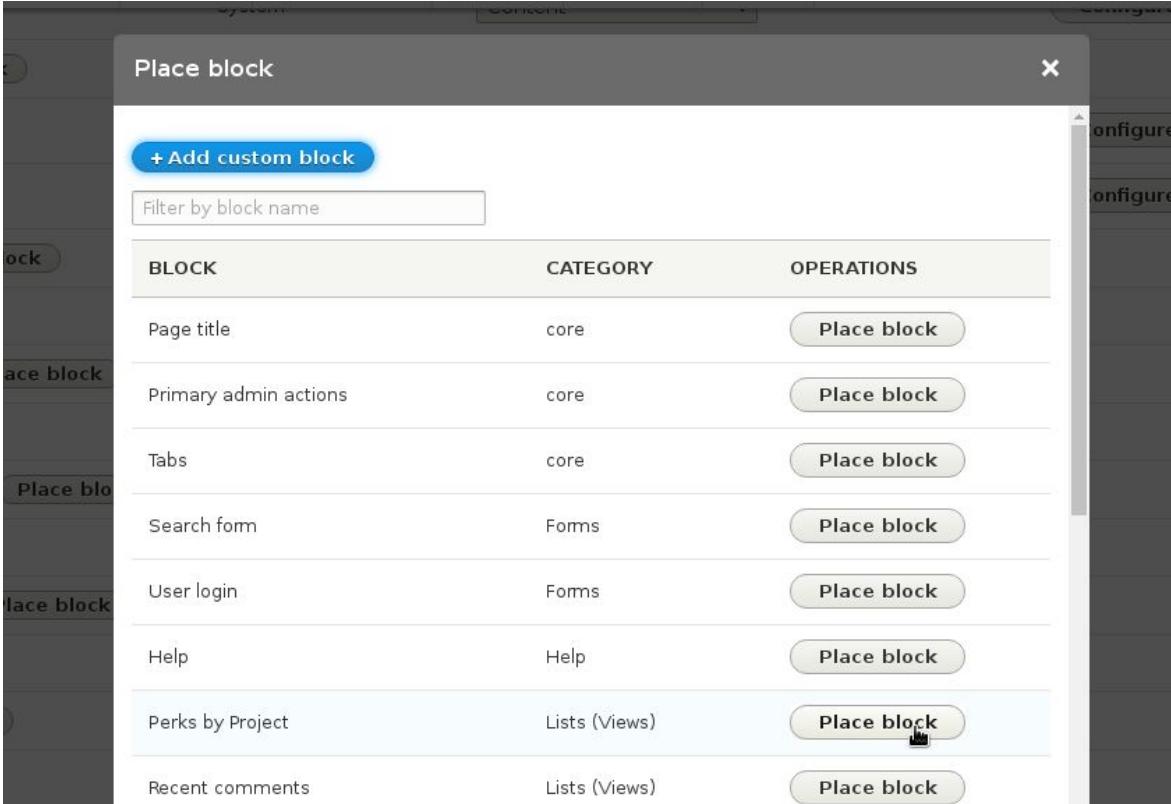
The top navigation bar includes: Back to site, Manage, Shortcuts, admin, Content, Structure, Appearance, Extend, Configuration, People, Reports, Help, and a Configure button.

The sidebar regions are listed from top to bottom:

- Sidebar first**: Contains a "Place block" button.
- Search**: Contains a "Configure" button.
- Forms**: Contains a "Sidebar first" dropdown menu and a "Configure" button.
- Tools**: Contains a "Menus" section and a "Configure" button.
- Sidebar second**: Contains a "Place block" button. An arrow points to this button.
- Featured bottom first**: Contains a "Place block" button.

No blocks are present in the "Sidebar second" region.

# ...and Place It in the Right Sidebar



The screenshot shows a 'Place block' modal window over a dark-themed interface. The modal has a header 'Place block' with a close button 'X'. Below the header is a blue button '+ Add custom block' and a search bar 'Filter by block name'. The main content area is a table with three columns: 'BLOCK', 'CATEGORY', and 'OPERATIONS'. The 'OPERATIONS' column contains a 'Place block' button for each row. The rows are:

BLOCK	CATEGORY	OPERATIONS
Page title	core	<b>Place block</b>
Primary admin actions	core	<b>Place block</b>
Tabs	core	<b>Place block</b>
Search form	Forms	<b>Place block</b>
User login	Forms	<b>Place block</b>
Help	Help	<b>Place block</b>
Perks by Project	Lists (Views)	<b>Place block</b> 
Recent comments	Lists (Views)	<b>Place block</b>

# ...Restricted to Project Pages



Configure block

**Block description:** Perks by Project

Display title

**Items per block**

10 (default setting) ▾

Override title

**Visibility**

**Content types**

Project

**Pages**

Not restricted

**Roles**

Not restricted

**Content types**

Article

Basic page

Perk

Project

Machine-readable name \*

# Where We Stand



## Done

- Installation
- Content Types
  - Projects
  - Perks
- Link Perks to Projects
  - And list them on the Project page

## To Do

- Accept payment for Perks
- Support videos on Projects

# Add in Modules for Video and Payment



straussd@titan:~/Projects/d8-agile-build

File Edit View Search Terminal Help

```
[straussd@titan d8-agile-build]$ php ~/drush.phar dl video_embed_field
Project video_embed_field (8.x-1.0-rc8) downloaded to [success]
/home/straussd/Projects/d8-agile-build//modules/video_embed_field.
Project video_embed_field contains 3 modules: video_embed_wysiwyg, video_embed_media, video_embed_field.
[straussd@titan d8-agile-build]$ php ~/drush.phar dl payment
Project payment (8.x-2.0-rc2) downloaded to [success]
/home/straussd/Projects/d8-agile-build//modules/payment.
Project payment contains 5 modules: payment_form, payment_test, payment_reference, payment_reference_test, payment.
```

# Add a Video Preview to Projects



The screenshot shows a web browser window with the URL <https://dev-d8-agile-build.pantheonsite.io/admin/structure/types/manage/project/>. The page title is "Add field | D8 Agile". The navigation bar includes links for Back to site, Manage, Shortcuts, and admin. Below the navigation is a toolbar with icons for Content, Structure, Appearance, Extend, Configuration, People, and Rep. The main content area has a heading "Add field ★". The breadcrumb trail shows the path: Home > Administration > Structure > Content types > Project > Manage fields. There are two sections: "Add a new field" (with a dropdown menu showing "Video Embed") and "Re-use an existing field" (with a dropdown menu showing "- Select an existing field -"). A "Label\*" field contains "Preview" and "Machine name: field\_preview [Edit]". At the bottom is a blue "Save and continue" button.

# ...and Configure the Video Field



✓ Updated field *Preview* field settings.

**Label \***

**Help text**

Instructions to present to the user below this field on the editing form.  
Allowed HTML tags: <a> <b> <big> <code> <del> <em> <i> <ins> <pre> <q> <small>  
This field supports tokens.

Required field

**▼ DEFAULT VALUE**  
The default value for this field, used when creating new content.  
**Preview**

**Allowed Providers**  
 YouTube Playlist  
 Vimeo  
 YouTube

Restrict users from entering information from the following providers. If none are selected any video

**Save settings** [Delete](#)

# Add a Payment Form Field to Perks



The screenshot shows the 'Add field' page in the Pantheon Drupal 8 Admin interface. The URL in the browser is <https://dev-d8-agile-build.pantheonsite.io/admin/structure/types/manage/perk/fields/add>. The page title is 'Add field ★'. The breadcrumb navigation shows: Home » Administration » Structure » Content types » Perk » Manage fields.

The main form has two sections: 'Add a new field' and 'Re-use an existing field'. In the 'Add a new field' section, a dropdown menu is set to 'Payment form'. In the 'Re-use an existing field' section, a dropdown menu is set to '- Select an existing field -'. Below the dropdowns, there is a 'Label\*' field containing 'Payment' and a note 'Machine name: field\_payment [Edit]'. At the bottom of the form is a blue 'Save and continue' button.

# ...and Complete Its Configuration



Back to site   Manage   Shortcuts   admin

Content   Structure   Appearance   Extend   Configuration

✓ Updated field *Payment* field settings.

**Label\***  
Payment

**Help text**

Instructions to present to the user below this field on the editing form.  
Allowed HTML tags: <a> <b> <big> <code> <del> <em> <i> <ins> <pre> <q> <sr>  
This field supports tokens.

Required field

**▼ DEFAULT VALUE**  
The default value for this field, used when creating new content.

NAME	TYPE	CONFIGURATION
There are no line items yet.		

**Type**  
Basic ▾

# Simplify the Form for Users



**Manage form display** ★

Edit Manage fields Manage form display **Manage display**

Home » Administration » Structure » Content types » Perk

Content items can be edited using different form modes. Here, you can define which fields are shown and hidden when *Perk* content is edited in each form mode, and are displayed in each form mode.

FIELD	WIDGET	
⊕ Title	Textfield ▾	Textfield size: 60
⊕ Body	Text area with a summary ▾	Number of rows: 9 Number of summary rows: 3
⊕ Payment	Drop-down selection list ▾	
Disabled		
⊕ Authored by	- Hidden - ▾	
⊕ Authored on	- Hidden - ▾	
⊕ Promoted to front page	- Hidden - ▾	
⊕ Sticky at top of lists	- Hidden - ▾	
⊕ URL alias	- Hidden - ▾	

# Final “Project” Form



Back to site   Manage   Shortcuts   admin

Content   Structure   Appearance   Extend   Configuration   People   Reports   Help

## Create Project ☆

Home » Add content

**Title \***  
My new Project

**Preview**  
<https://www.youtube.com/watch?v=jGfxxWHWffk>

**Body (Edit summary)**

Description

body p

Text format Basic HTML   About text formats ⓘ

**Risks \***

I've never done this before.

Last saved: Not saved yet  
Author: admin  
 Create new revision

► MENU SETTINGS

► URL PATH SETTINGS

# Final “Perk” Form



Back to site   Manage   Shortcuts   admin

Content   Structure   Appearance   Extend   Configuration   People   Reports   Help

Home » Add content

**Title\***  
My New Perk

**Body (Edit summary)**

**Text format** Basic HTML ▾ About text formats ?

body ul li

• Free Ebook  
• Coffee with the Developers

**Amount\***  
U.S. dollar (USD) ▾ 100

**Quantity\***  
1

**Description\***  
My New Perk

**Project**  
My New Project (1) ○

Save and publish   Preview

Last saved: Not saved yet  
Author: admin  
 Create new revision

► MENU SETTINGS

# Time to Theme and Trim Down the Display

PANTHEON®



Home

Search

## My New Project

Submitted by admin on Mon, 05/09/2016 - 19:29

### Preview



Description

### Risks

I've never done this before.

### My New Perk:

Submitted by admin on Mon, 05/09/2016 - 19:31

- Free Ebook
- Coffee with the Developers

Description	Quantity	Amount	Total
My New Perk	1	USD	USD
		100.00	100.00
Total amount	XXX		
	100.000000		

### Payment method

There are no available options.

Pay

# Finished Product!



Fund Everything

Home Categories Projects

## Funding Your Dreams

Let's make a world where everyone gets everything they want.

Welcome to Agile D8 Builds: Doing the Most Without PHP

Submitted by matt on Wed, 05/04/2016 - 22:41

One of the design philosophies behind Drupal 8 is the ability to make simple things easy and complex things possible. While there is a lot of neat stuff "under the hood" with Drupal 8, this talk will discuss how you can leverage the Drupal 8 core stack to build pretty awesome websites without writing (or including) a line of custom or contributed PHP.

[Read more](#) [Log in or register to post comments](#)

### Featured Projects

[Bring Catalyst to Drupalcon](#) [Throw an UFO Alien Dance Party](#) [Create a Share Our Wealth Club](#) [Let's Go Back to Bali](#)

*This is a project to bring Catalyst, one of the great DJs of our time, to Drupalcon.* *This is a project to call all occupants of interplanetary craft for a dance party.* *This is a project to make everyone a king.* *This is a project to make a return trip to Bali but with no one wearing a crown.*

### Search Our Projects

Look into your heart and find the thing you most want. Enter it into the search box and hit the enter key. Your hopes and dreams should soon appear.

### About the Site

This site is a demonstration of one of the design philosophies behind Drupal 8 which is the ability to make simple things easy and complex things possible. While there is a lot of neat stuff "under the hood" with Drupal 8, this site will help explain how you can leverage the Drupal 8 core stack to build pretty awesome websites without writing (or including) a line of custom or contributed PHP.

# **Closing Thoughts & QA**