

DrupalCon is brought to you by the Drupal Association





Hello.



Kristen Pol Drupal Since 2004 hello@kristen.org



01 Why

02 Research

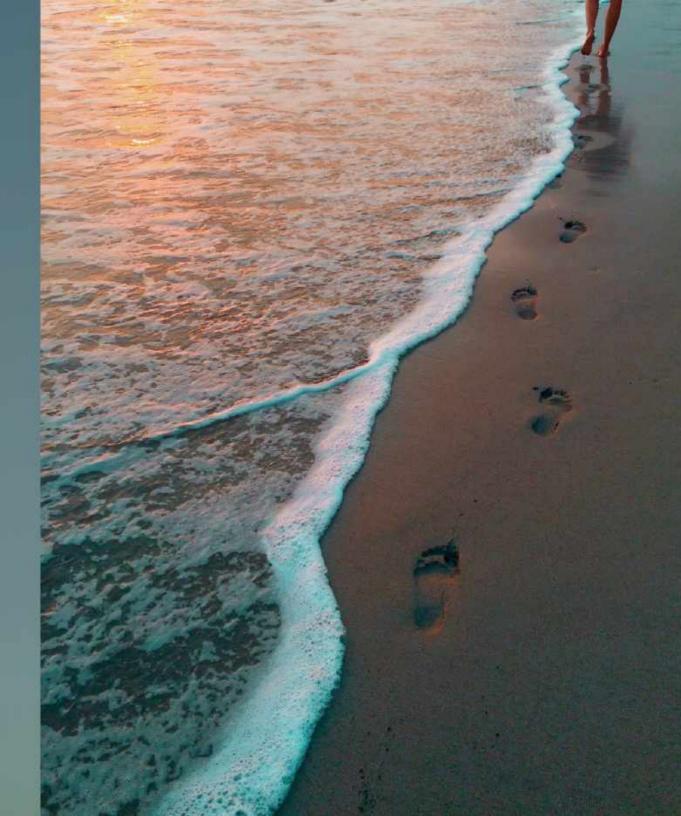
03 Audit

04 Visualize

05 Plan

Objective
Execute

07 Celebrate



WHY DRUPAL 9?



















Isn't that Drupal 8?



DRUPAL 9 IMPROVEMENTS



Easiest major* upgrade in a decade

Simplified Code

Code 15% smaller from removing old code

3

Improved Testing

SimpleTest code replaced by PHPUnit



Updated Composer, Symfony, Twig, & more



Cleaner Admin UI

Claro admin theme stabilizing for inclusion



Modern Frontend UI



Olivero to move from contrib to core in 9.1 The big deal about Drupal 9 is ... that it should not be a big deal.

—Dries Buytaert



CAN YOU WAIT?

Drupal 7 Support Until Nov 2022 Vendor Extended Drupal 7 Support Until 2025+

JUN 2020

8.9 & 9.0

JUN 2022

9.4 & 10.0

JUN 2024

10.4 & X.Y

Drupal 8 Support Until Nov 2021

> Drupal 9 Support Until Nov 2023?

> > Drupal 10 Support Until ?



Research is formalized curiosity. It is poking and prying with a purpose.
Zora Neale Hurston

DRUPALCON GLOBAL 2020 bitly.com/DrupalConGlobal2020D9

- Deep dive: state of Drupal 9
- Drupal 9: New Initiatives for Drupal
- Bridging the migration gap from Drupal 7 to 9
- Preparing custom & contributed code for D9
- Preparing you & your site for Drupal 9
- The Drupal Initiatives mega-session



What is this?

Enter a project name:

9.0.0 drupal Launch sandbox 👤 admin Back to site Manage * Shortcuts Configuration Extend People 1 A Structure Appearance Reports Content A Help GENERAL SYSTEM INFORMATION **Drupal Version** Last Cron Run Run cron 9.0.0 Last run 1 minute 42 seconds ago (more information) **Database** Web Server PHP Apache/2.4.38 (Debian) Version Version 5.7.27 7.3.18 (more information)

Memory limit

-1 (Unlimited)

System

MySQL, Percona Server, or equivalent

MODULES



Media + Library



Layout Builder



Quick Edit



Workspaces



Content Moderation



Content Translation



Settings Tray



Help Topics

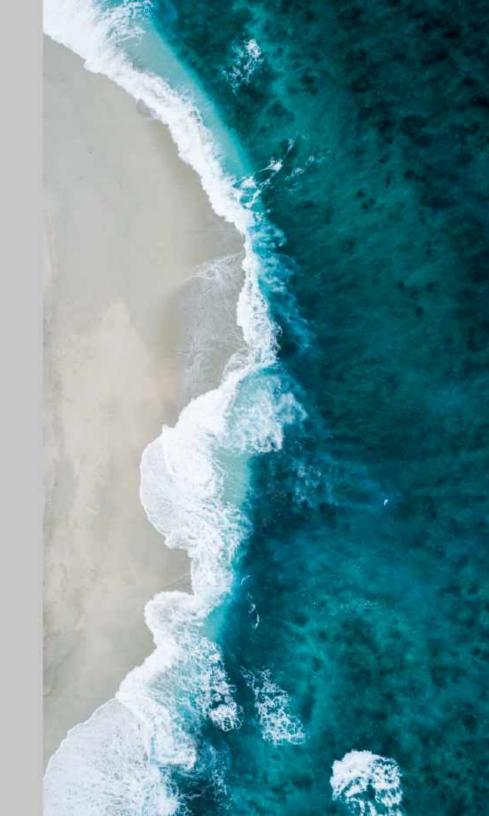
HOSTING

Acquia





platform.sh



SYSTEM REQUIREMENTS



Apache 2.4.7+







bit.ly/Drupal9SystemRequirements

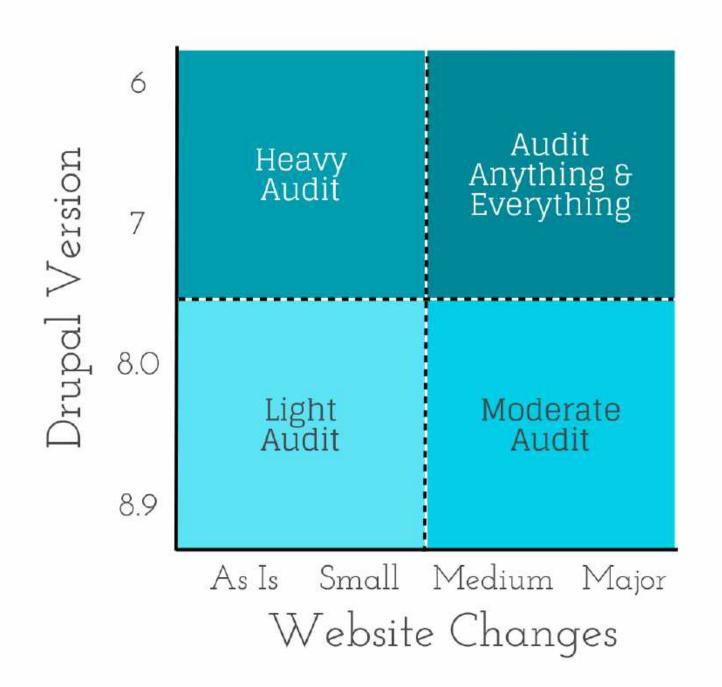
MORE RESOURCES

drupal.org/9 drupal.org/docs/upgrading-drupal hojtsy.hu/tags/drupal-9 kristen.org/drupal9 bit.ly/TimDrupal9 bit.ly/AngieD9Podcast



■ The only people who see the whole picture are the ones who step outside the frame.
■ Salman Rushdie

HOW MUCH TO AUDIT



WHAT TO AUDIT

















AUDIT TOOLS

O1 DRUPAL

02 EXTERNAL 03 MANUAL

- Upgrade Status
- Entity Reports
- ✓ Site Audit
- Security Review
- ✓ Hacked

- Deprecation Status
- ✓ PageSpeed
- ✓ BrowserStack
- ✓ SiteImprove
- ✓ WAVE

- ✓ Review Code
- Review Docs
- Manual Testing
- ✓ User Testing
- ✓ Screenreaders





You have to dream before your dreams can come true. —A. P. J. Abdul Kalam



BUDGET & TIMELINE

- External constraints? Caps? Deadlines? Events?
- Can you afford to redesign / revamp?
- For Drupal 6/7 to 9 or large redesigns, assume cost will be about the same as original site

TEAM



Product Owner



Project Manager



Business Analyst









Web Developers



CONSIDERATIONS

AUDITS

CHANGES

PRIORITIES

✓ Findings

✓ As Is

Must Have

✓ Gaps

- ✓ Redesign
- ✓ Nice to Have

✓ Effort

✓ Remove

✓ Future

✓ Focus

✓ Add

✓ Won't Do

DISCUSSIONS

Business
Goals
Constraints
Risks

Audience
Engagement
Pain Points
Stories

Competitive
Landscape
Disadvantage
Edge

Functional
Tools
Processes
Integrations

Design
Interface
Experience
Usability

Content
Management
Workflows
Promotion

DELIVERABLES



Style Guide



Wireframes



Mockups



Sitemap



Prototype



Requirements



To be prepared is half the victory. the Miguel de Cervantes

UPGRADING TO 9.0.x









Version
Specific
Special steps
to update to
9.0.x





drupal.org/docs/upgrading-drupal

6 or 7 to 9

Reusing Existing Site Structure

New Base Site Create with core 9.0.x

の

Contributed Code

Add 9.0 compatible projects



Custom Code

Use Module Upgrader or manually update





Finish
Building
Config sit

Config, site building, layout & theme



Migrate Data

Migrate entity data to structure

bit.ly/Drupal6or7to9Upgrade

6 or 7 to 9

Rebuilding from Scratch

New Base Site Create with core 9.0.x の り Contributed Code

Add 9.0 compatible projects



Custom Code

Use Module Upgrader or manually update



Configure Site

Site building, layouts, and configuration



Theme Site

Create theme for look-and-feel



Migrate Data

Migrate entity data to structure

bit.ly/Drupal6or7to9Upgrade

8 to 9

The Easiest Upgrade in a Decade





Custom
Code
Use Rector
or update
code manually



Core Update Update core to 9.0.x

ARCHITECTURE



Layout Approach



Editing Tools



SEO Tools



Component Approach



Content Workflow



Migration Approach

ARCHITECTURE

DrupalCon Global 2020 Sessions

- Media in Drupal 8: everything you need to know
- Page building showdown: Paragraphs vs. Layout builder
- An overview of Drupal 8 front-end component integration methods
- Outstanding admin UX
- SEO and Drupal: Designing and developing a search-friendly site
- Avoid a redesign train wreck: Get your content from point A to B

EFFORT FACTORS

01 STATE 02 COMPLEXITY 03 EXPERIENCE

- Audit Results
 - Core Version
- Modules Available
- Rector Coverage

- Entity Count
- ✓ Module Count
- Integrations
- ✓ Website Changes

- ✓ Team
- ✓ 00P
- ✓ Drupal 8
- ✓ Migration

DELIVERABLES













Migration Plan



Tickets

A year from now you'll wish you had started today.

-Karen Lamb





- Dreams become reality when we put our minds to it.
 - —Queen Latifah

IMPLEMENTATION

DrupalCon Global 2020 Sessions

- Moving to Composer: Converting an existing site
- Understanding Configuration Management and How to Override
- Altering, extending, and enhancing Drupal
- Layout Builder components can break your site. Here's how.
- Next level Twig
- A strategic approach to custom migrations

UPGRADE TOOLS

O1 CUSTOM CODE O2

CONTRIBUTED PROJECTS

03
MIGRATION PROCESS

Upgrade Status

- Drupal.org Project
- ✓ Migrate Drupal

- Module Upgrader
- Upgrade Status

✓ Migrate Tools

Upgrade Rector

- ✓ Deprecation Status
- Migrate Plus

Change Records

Upgrade Rector

Migrate Upgrade

CONTRIBUTED PROJECTS

Determining Compatibility



Project Release

Check project page for Drupal 9 release



Project Plan

Check project page for Drupal 9 plan



Existing Patches

Find issues tagged with "Drupal 9 compatibility"



Deprecation Status

Use Acquia site for status and patch



Upgrade Status

Use module on site with project for status

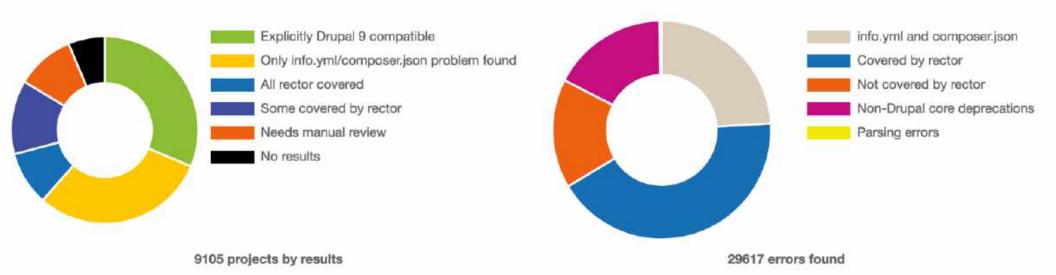


Patch Yourself

Make custom patch with Rector or manually

DEPRECATION STATUS

dev.acquia.com/drupal9/deprecation_status



Name	Result	Error	Project type	Usage	Group	Total deprecations	Total parsing errors
bootstrap_cloud 1.x-dev	Explicitly Drupal 9 compatible	None	Theme	12	10000	0	0
enum_type_column 1.x-dev	All rector covered	None	Module	3	10000	11	0

UPGRADE STATUS

drupal.org/project/upgrade_status

Contributed projects

Contributed code is available from drupal.org. Problems here may be partially resolved by updating to the latest version. Read more about how to update contributed projects.



176 ERRORS Found in 23 projects.



214 WARNINGS Found in 36 projects.



4 CHECKED No known errors found.

Project	Available update	Status
Admin Toolbar This module is ready for Drupal 9.	N/A	✓ No known errors
Build Hooks 8.x-2.2	Up to date	A 1 warning
CAPTCHA 8.x-1.0	Up to date	A 1 warning
Composer Deploy 8.x-1.3	Up to date	3 1 error, 2 warnings
Consumers 8.x-1.10 Consumers >= 8.x-1.11 is compatible with Drupal 9.	8.x-1.11	8 2 errors, 2 warnings

MODULE UPGRADER

drupal.org/project/drupalmoduleupgrader



UPGRADE RECTOR

drupal.org/project/upgrade_rector

▼ CUSTOM PROJECTS

Custom code is specific to your site, and must be upgraded manually. Read more about how developers can upgrade their code to Drupal 9.

No custom projects found.

▼ CONTRIBUTED PROJECTS

Contributed code is available from drupal.org. Problems here may be partially resolved by updating to the latest version. Read more about how to update contributed projects.

▼ PATCH GENERATED FOR UPGRADE RECTOR 8.X-1.0-ALPHA2

Review the suggested changes as they may need some further updates manually. Work with the maintainers of Upgrade Rector 8.x-1.0-alpha2 following their Drupal 9 plan (if specified on the project page). Make sure to update to the latest (development) version locally. Remember that there may very well be issues opened for some or all of these incompatibilities found.

```
Sfoo = LOCALE_PLURAL_DELIMITER;

- drupal_set_message(Sample message');

+ Sthis->messenger()->addStatus(Sample message');

Surl = Drupal::url('<front');

Index: web/modules/contrib/upgrade_rector/tests/modules/upgrade_rector_test_error/upgrade_rector_test_error.module

---a/web/modules/contrib/upgrade_rector/tests/modules/upgrade_rector_test_error.module
+++ b/web/modules/contrib/upgrade_rector/tests/modules/upgrade_rector_test_error.module

@@ -5,6 +5,6 @@

*/
function upgrade_rector_test_sample() {
    Sfoo = LOCALE_PLURAL_DELIMITER;
- drupal_set_message(Sample message');
+ \Drupal::messenger()->addStatus(Sample message');
Surl = Drupal::url('<front');
}
```

List of applied rectors

DrupalRector\Rector\Deprecation\DrupalSetMessageRector

Export results

MIGRATE DRUPAL UI

What will be ungraded?

bit.ly/DrupalMigrateUI

Drupal 6	***************************************	oc appraise	•• ••		
Drupal 7	Home				
SOURCE DATABASE	E M	ODITIES WILL NO	OT RE LIDERADED		
Provide credentials for the database of the Drupal site you want to upgrade.		5 MODULES WILL NOT BE UPGRADED Details			
Database type *					
MySQL, MariaDB, Percona Server, or equivalent					
PostgreSQL	33 1	33 MODULES WILL BE UPGRADED			
SQLite	Detai	15			
Database host *					
	▼ MODULES THAT WILL NOT BE UPGRADED				
Database name *	you proceed	with the upgrade no	n your new site to replace these modules. If w, configuration and/or content needed by		
Database username *			le on your new site. For more information, see in the Upgrading to Drupal 8 handbook.		
	DRUPAL 7		DRUPAL 8		
Database password	② addres	ssfield	Not upgraded		
► ADVANCED OPTIONS	⊘ color		Not upgraded		
	O locale		Not upgraded		
SOURCE FILES	⊘ rdf		N <mark>ot upgraded</mark>		
Public files directory	views		Not upgraded		
To import public files from your current Drupal site, enter a local file directory containing					

rupal version of the source site *

READY TO LAUNCH?

01 INTERNAL CHECKS 02 EXTERNAL CHECKS O3
FINAL
COUNTDOWN

- Latest Stable Code
- ✓ Performance

Delete Test Stuff

- Upgrade Status Clear
- ✓ Devices & Browsers
- Migration Pass

- Status Report Clear
- ✓ HTML & CSS

Cache Tuning

- Security Review Clear
- ✓ Broken Links & SEO
- Final Testing

✓ Logs Clear

✓ Accessibility

Launch Plan





ENJOY YOUR SITE:)

Drupal Thanks!



Special Thanks To

Gábor Hojtsy * Josh, Jacob, & Aaron Deutsch * Merleigh Jones