# Any Content Site can be Migrated to Drupal: I'll show you How

Prepared with ♥ by Evolving Web



#### **Agenda**

- 1. Introduction
- 2. What a Drupal Migration is.
- 3. Types of Drupal Migrations.
- 4. Steps to run a successful Migration.
- 5. We will help you estimate your migration to D9.



#### Jorge Diaz 🖐





Senior Drupal Designer & Site Builder

- → 13 years of Drupal experience.
- I'm a Senior Drupal site builder & designer.
- I work at Evolving Web in Montréal, QC.





Evolving Web is a team of leaders in digital strategy, design, and development.

We work with organizations that want to make a big impact in the world.







We help our clients bring their digital experience to life



















# We help our clients bring their digital experience to life

























Over 15 years, we've built a client base in the enterprise & institutional space































#### **ASSA ABLOY**



#### We help teams build their Drupal expertise



























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#### What is Drupal?



#### This is Drupal:



#### What is "\$ cloc."

```
[Jorges-MacBook-Pro:vendor jorgediaz$ cloc
Usage:
```

cloc [options] <file(s)/dir(s)/git hash(es)>

Example: cloc src/ include/ main.c

cloc -- Count Lines of Code

cloc [options] --diff <set1> <set2>

files or git commit hashes.

Count physical lines of source code and comments in the given files (may be archives such as compressed tarballs or zip files) and/or

Compute differences of physical lines of source code and comments

recursively below the given directories or git commit hashes.

between any pairwise combination of directory names, archive

Example: cloc --diff Python-3.5.tar.xz python-3.6/

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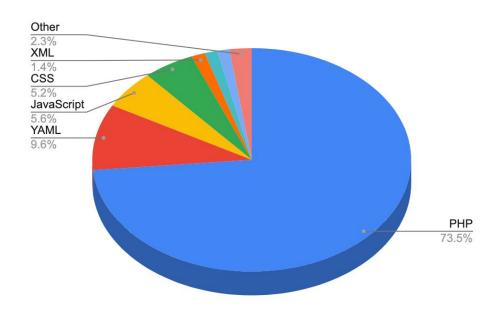
#### This is Drupal:



Language 	files	blank	comment	code
 РНР	11647	185177	556573	881081
YAML	2600	2976	2332	114477
JavaScript	1641	10804	25112	66610
CSS	825	8861	9439	62188
XML	104	69	198	16796
Twig	891	662	15306	15499
JSON	127	26	0	14693
Markdown	99	3326	0	11006
Pascal	96	1936	10717	10492
XSD	7	167	49	3447
Bourne Shell	13	324	104	2587
HTML	46	18	0	529
SVG	298	1	0	387
reStructuredText	7	243	347	287
CSV	18	0	0	172
PO File	5	27	4	85
make	2	10	13	22
Dockerfile	1	8	0	10
SQL	1	0	0	1
SUM:	18428	214635	620194	1200369

files	blank	comment	code	
11647	185177	556573	 881081	
2600	2976	2332	114477	
1641	10804	25112	66610	
825	8861	9439	62188	
104	69	198	16796	
891	662	15306	15499	
127	26	0	14693	
99	3326	0	11006	
96	1936	10717	10492	
7	167	49	3447	
13	324	104	2587	
46	18	0	529	
298	1	0	387	
7	243	347	287	
18	0	0	172	
5	27	4	85	
2	10	13	22	
1	8	0	10	
1	0	0	1	
18428	214635	620194	 1200369	

### About ¾ of Drupal is PHP

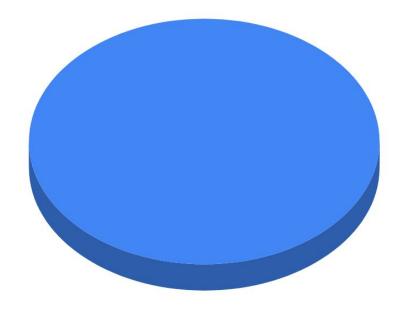


Source: https://www.drupal.org/download



# About ~100.00000% is maintained by an OS community

Maintained & developed by a Worldwide Open Source community



Source: https://www.drupal.org/download



#### Maintained & developed by a Worldwide Open Source community

# About is mai OS co



#### Come for the Software, Stay for the Community

Drupal is used, built, taught, documented, and marketed by the Drupal community, which is made up of people from around the world, with a shared set of values, collaborating together in a respectful manner.

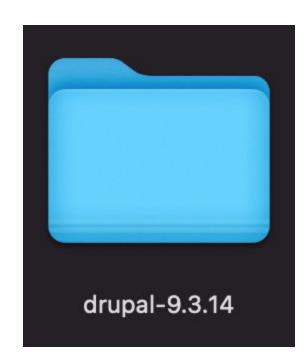
You are welcome to use the software and read the documentation as a visitor, but the hope of the Drupal community is that you will join in, find people who share your interests, and grow your skills!

Image courtesy Gábor Hojtsy

#### A community of 100,000+ stories

Everyone in the Drupal community has a story. We come from many backgrounds, with many skills and many perspectives -- but every month, more than 1500 people come together to improve the Drupal software, translations, documentation, and the community itself. Here are a few examples:

- Source: https:/
- • evolvingwe
- Kevin Thull started recording sessions at DrupalCamp Chicago in 2013, and developed a kit for other DrupalCamps to use
- xjm started out fixing bugs in the TAC contributed module, and is now a Drupal Core maintainer
- Melissa Anderson started using Drupal, joined her local Drupal user group meetup, and ended up managing the Great Git Migration project
- And there are many more stories



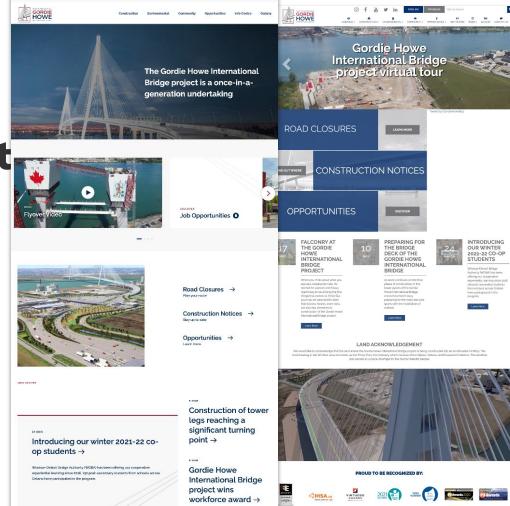
### Let's talk about a real Drupal Project

Source: https://www.drupal.org/download





## Let's talk about a real Drupal Project

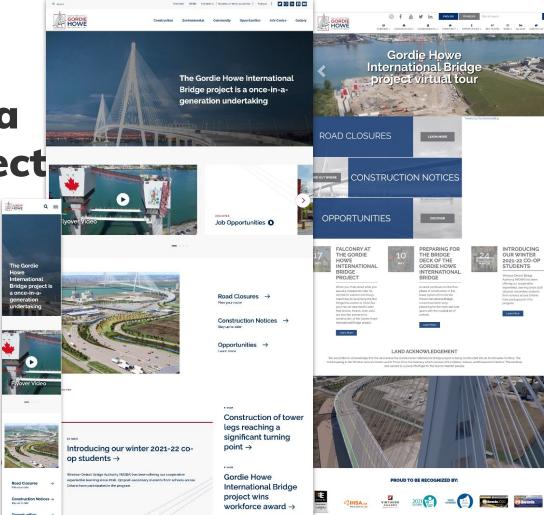


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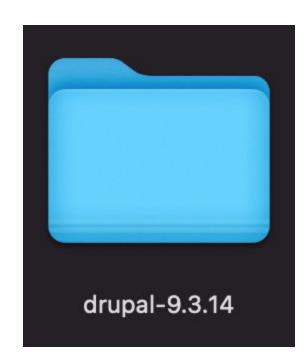


Let's talk about a real Drupal Project



Source: https://www.drupal.org/downlo

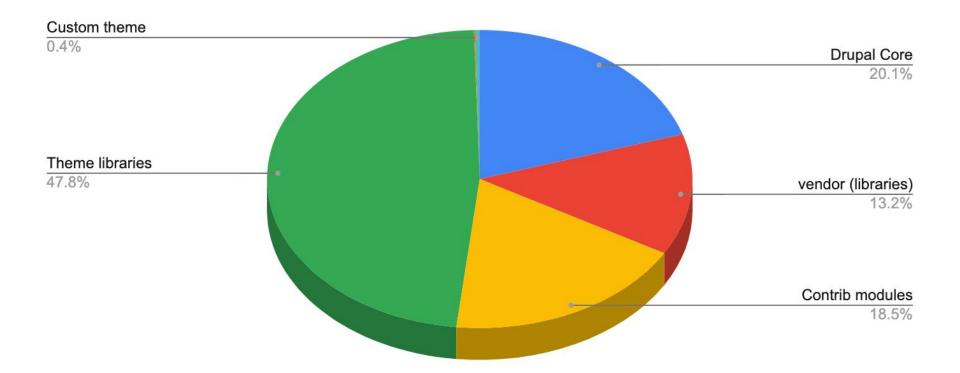




## Let's talk about a real Drupal Project

WDBA	PHP	XML	JSON	JS	TWIG	CSS	YAML	Lines of Code	
Drupal Core	692,298	8,078	6,751	66,370	15,499	61,749	112,720	963,465	
vendor (libraries)	515,695	40,271	23,409	20,460	18,492	6,627	4,521	629,475	
Contrib modules	389,352	19,902	9,719	28,410	3,958	12,653	419,301	883,295	
Theme libraries		43,135	525,426	1,665,168		47,164	5,713	2,286,606	99.55%
Custom modules	2,149					121	1,814	4,084	
Custom theme			1,157	3,742	10,518	1,944		17,361	0.45%
TOTAL								4,784,286	

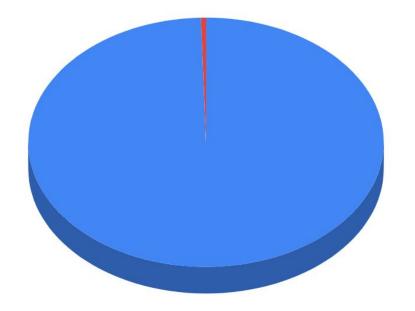




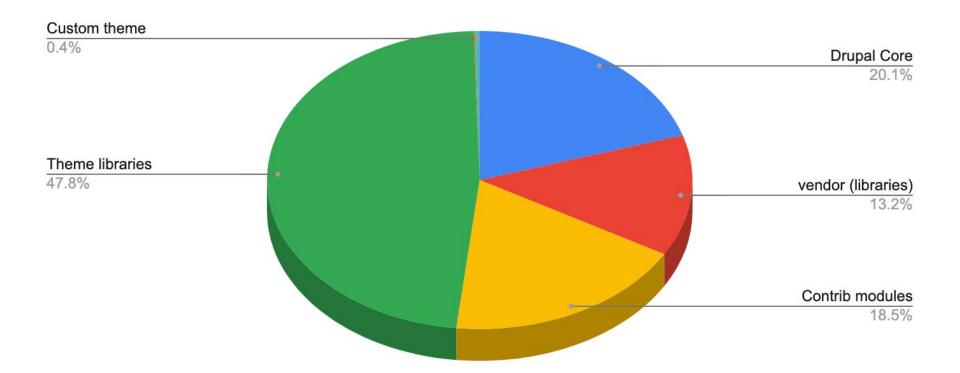


# About ~99.55% is maintained by an OS community

Maintained & developed by a Worldwide Open Source community
 Developed by a Drupal Agency



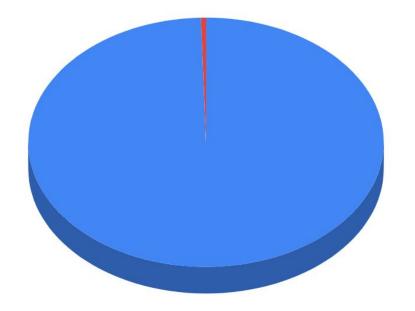






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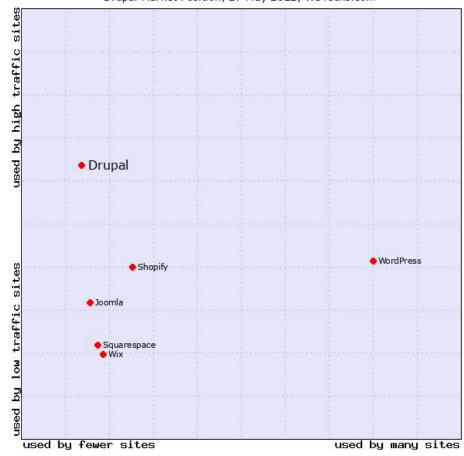
### Plus, there is that fact:

Drupal is used by **1.9% of all the websites** whose content management system we know. This is 1.2% of all websites.

Source:

https://w3techs.com/technologies/details/cm-drupal





## We migrated it to Drupal



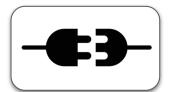


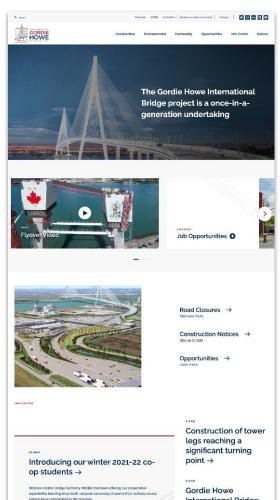
Source: https:



### We migrated it to Drupal

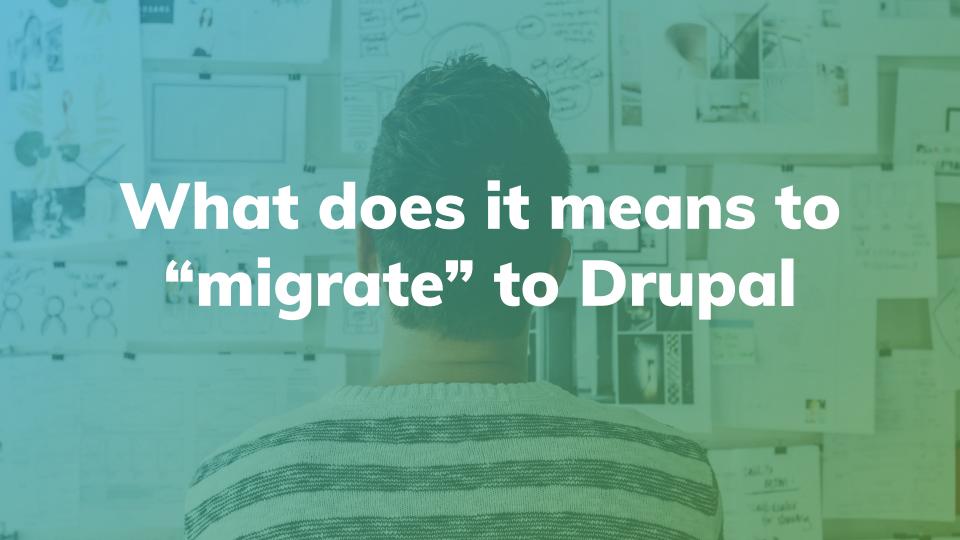






Maintained & developed by a Worldwide Open Source community Developed by a Drupal Agency We migrated it to **Drupal**  Maintained & developed by a Worldwide Open Source community Developed by a WEB Agency





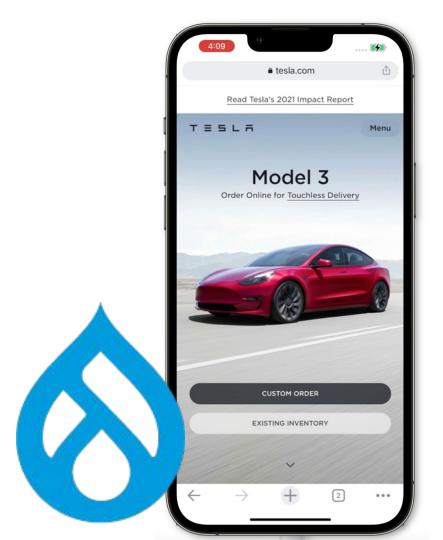
### **Migrations?**

The TESLA.com use case.

Tesla.com is built on top Drupal 9.

Source: https://www.tesla.com





### **Migrations?**

Nov 16th, 2021



http://web.archive.org/web/20210601000000\*/https://tesla.com







### **Migrations?**

July 27th, 2018





Source:

http://web.archive.org/web/20210601000000\*/

https://tesla.com

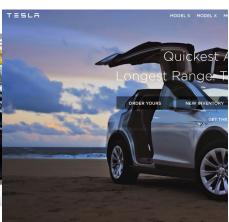




## **Migrations?**

July 16th, 2011







Source:

http://web.archive.org/web/20110716213135/

http://www.teslamotors.com/



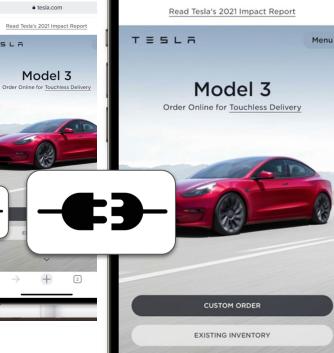


## **Migrations?**

July 16th, 2011



TESLA



tesla.com

Source:

http://web.archive.org/web/20110716213135/

http://www.teslamotors.com/





more headlines ➤

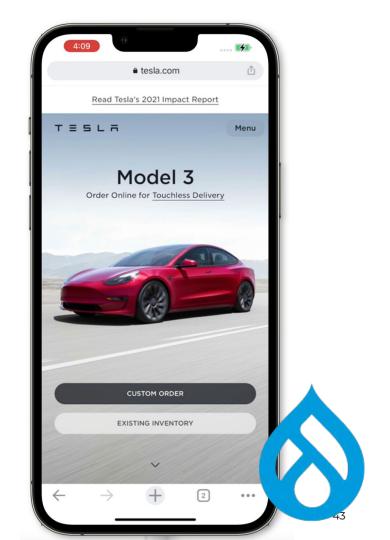
Interested in working

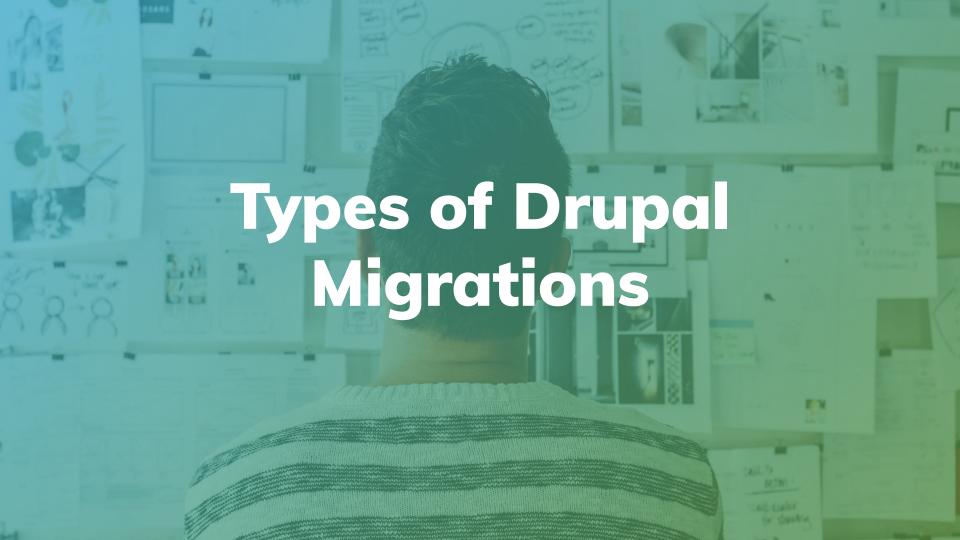
### **Successful Migrations?**

### Main things to achieve:

- <u>Similar</u> Website behaviour (UI, UX, core functionality...)
- **Exact User data** (credentials, account information, history...)
- <u>Replicated</u> Content architecture (content itself, content relationship...)
- <u>Same</u> URL & Page Metadata (SEO, permalinks, references...)
- **Third party integrations** (Analytics, APIs, web services...)







### **Types of Drupal Migrations**

- → The "easy" migration.
- → The "CMS" migration.
- → The "custom website" migration.
- → The "ghost" one.



## The "easy" migration.

## The "easy" one: D8 -> D9

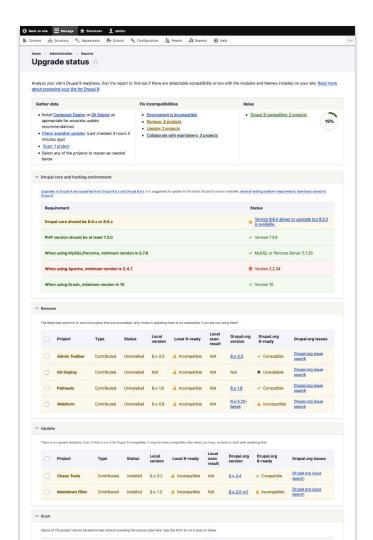
Upgrading from Drupal 8 to 9 is the easiest one. (so will it be with D10)

Upgrade Status: it is an amazing solution for D8 ->
 D9 -> D10.

Source:

https://www.drupal.org/project/upgrade\_status





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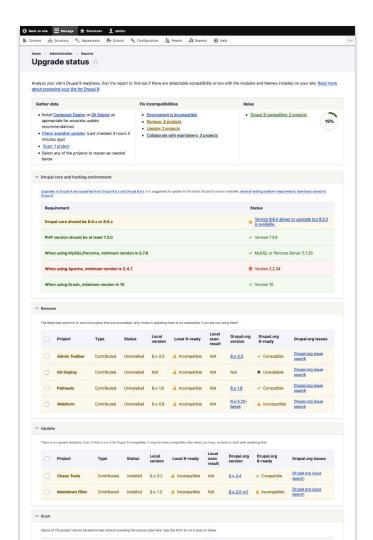
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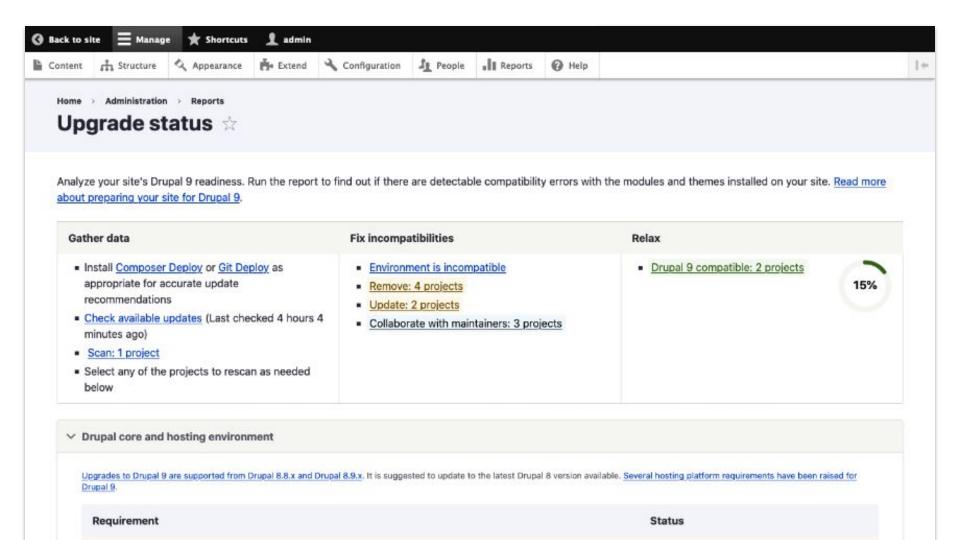
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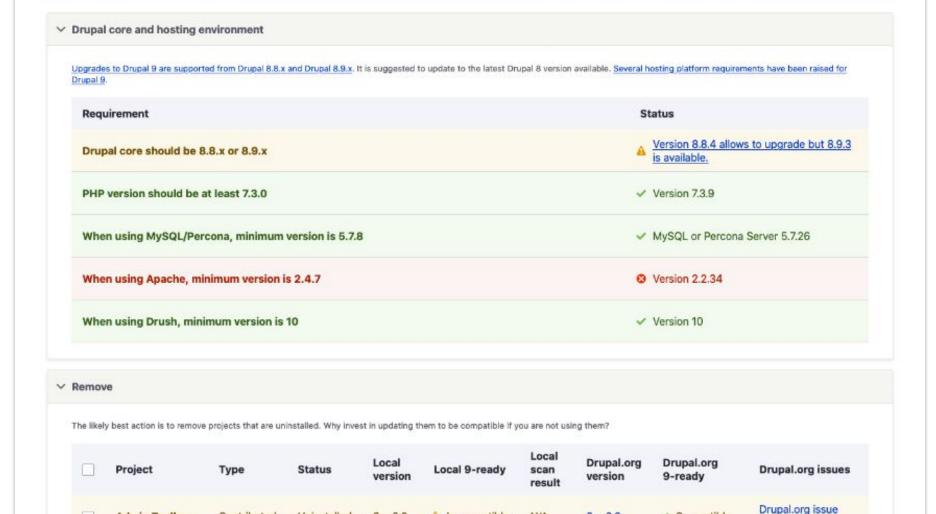
Source:

https://www.drupal.org/project/upgrade\_status









A Incompatible

N/A

8.x-2.3

Compatible

search

Admin Toolbar

Contributed

Uninstalled

8.x-2.0

ve likel	y best action is to remove	projects that are unit	nstalled. Why inve	st in updating t	them to be compatible if	you are not us	ing them?		
	Project	Туре	Status	Local version	Local 9-ready	Local scan result	Drupal.org version	Drupal.org 9-ready	Drupal.org issue
	Admin Toolbar	Contributed	Uninstalled	8.x-2.0	A Incompatible	N/A	8.x-2.3	Compatible	Drupal.org issue search
	Git Deploy	Contributed	Uninstalled	N/A	▲ Incompatible	N/A	N/A	× Unavailable	Drupal.org issue search
	Pathauto	Contributed	Uninstalled	8.x-1.6	▲ Incompatible	N/A	8.x-1.8	✓ Compatible	Drupal.org issue search
	Webform	Contributed	Uninstalled	8.x-5.6	▲ Incompatible	N/A	8.x-5.20- beta4	A Incompatible	Drupal.org issue search
pdat	e								
vere is	an update available. Even	if that is not fully Dru	upal 9 compatible,	it may be more	e compatible than what y	ou have, so be	est to start with upda	iting first.	
	Project	Туре	Status	Local version	Local 9-ready	Local scan result	Drupal.org version	Drupal.org 9-ready	Drupal.org issues
	Chaos Tools	Contributed	Installed	8.x-3.2	A Incompatible	N/A	8.x-3.4	✓ Compatible	Drupal.org issue search

A Incompatible

N/A

8.x-2.0-rc1

Markdown filter

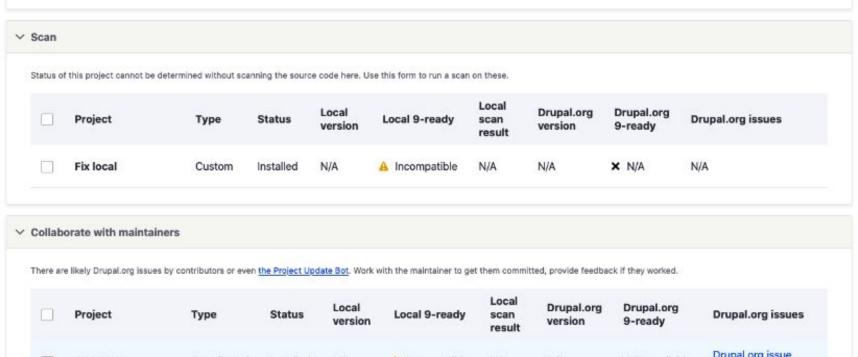
Contributed

Installed

8.x-1.3

A Incompatible

search



Project	Туре	Status	Local version	Local 9-ready	Local scan result	Drupal.org version	Drupal.org 9-ready	Drupal.org issues
САРТСНА	Contributed	Installed	N/A	A Incompatible	N/A	N/A	X Unavailable	Drupal.org issue search
Deprecation Status	Contributed	Installed	N/A	A Incompatible	N/A	N/A	X Unavailable	Drupal.org issue search
Responsive Preview	Contributed	Installed	N/A	A Incompatible	N/A	N/A	× Unavailable	Drupal.org issue search

### Drupal 9 compatible

There are likely Drupal.org issues by contributors or even the Project Update Bot. Work with the maintainer to get them committed, provide feedback if they worked.

Project	Туре	Status	Local version	Local 9-ready	Local scan result	Drupal.org version	Drupal.org 9-ready	Drupal.org issues
САРТСНА	Contributed	Installed	N/A	A Incompatible	N/A	N/A	X Unavailable	Drupal.org issue search
Deprecation Status	Contributed	Installed	N/A	A Incompatible	N/A	N/A	X Unavailable	Drupal.org issue search
Responsive Preview	Contributed	Installed	N/A	A Incompatible	N/A	N/A	× Unavailable	Drupal.org issue search

rupai	9 compatible								
ell don	e. Congrats! Let's get ever	ything else herel							
	Project	Туре	Status	Local version	Local 9-ready	Local scan result	Drupal.org version	Drupal.org 9-ready	Drupal.org issues
	Token	Contributed	Uninstalled	8.x-1.6	✓ Compatible	N/A	8.x-1.7	✓ Compatible	Drupal.org issue search
	Upgrade Rector	Contributed	Uninstalled	N/A	✓ Compatible	N/A	N/A	× Unavailable	Drupal.org issue search

Scan selected

Export selected as HTML

Export selected as text

## The "easy" one: D8 -> D9

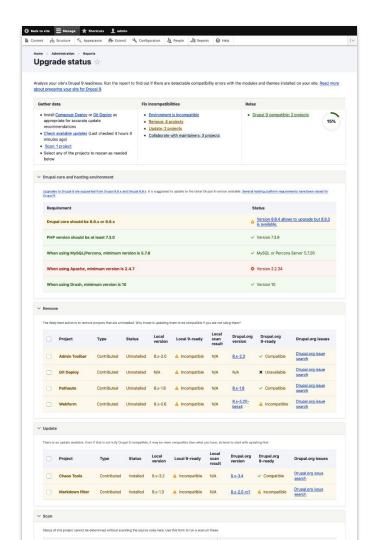
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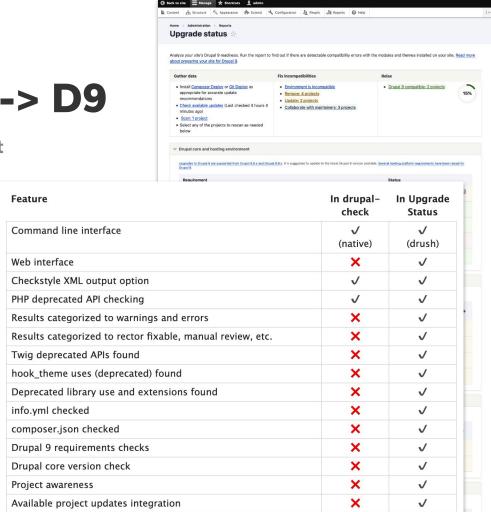
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### TYPES OF DRUPAL

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Upgrading from one. (so will it l

Upgrade

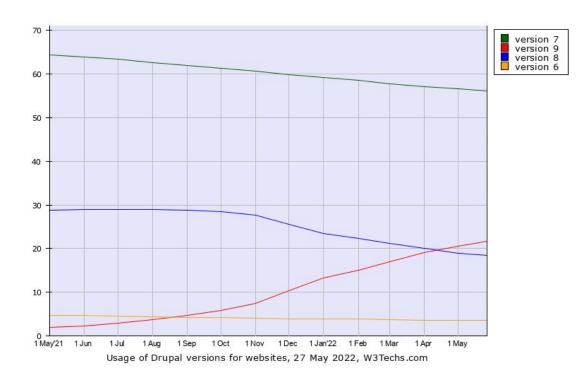
amazir D9 -> [

Source: https://www.dru

• • • evolvingweb

Feature	In drupal- check	In Upgrade Status	ple          Reports    @ Help		
Command line interface	✓ (native)	√ (drush)	ctable compatibility errors with the m	odules and themes installed on your site.	. Read more
Web interface	×	V	compatible	Relax  • Drupal 9 compatible: 2 projects	
Checkstyle XML output option	<b>√</b>	✓	ts maintainers: 3 projects		15%
PHP deprecated API checking	<b>√</b>	V			
Results categorized to warnings and errors	×	V			
Results categorized to rector fixable, manual review, etc.	×	<b>√</b>	sate to the latest Drupal 8 version available. Se	veral hosting platform requirements have been rai	ised for
Twig deprecated APIs found	×	<b>√</b>	In drupal-	In Upgrade	3
hook_theme uses (deprecated) found	×	V	check	Status	
Deprecated library use and extensions found	×	✓	(native)	√ (drush)	
info.yml checked	×	V	×	<b>√</b>	
composer.json checked	×	V	V	V	
Drupal 9 requirements checks	×	<b>√</b>	V	✓	
Drupal core version check	×	V	×	V	
Project awareness	×	✓	×	<i>J</i>	
Available project updates integration	×	<b>V</b>	×	<i>y</i>	
Export clickable HTML reports	×	<b>V</b>	×	✓	
7,555. • P-0505599. 200355500500450-E-05059. 0007. 591. 51. • 131.205.10495	<b>V</b>	<b>V</b>	×	V	
Export ASCII reports			×	V	
Can be run site independent	V	× (mond to	×	<b>√</b>	
		(need to install on	×	<b>√</b>	
		[dev] site)	×	✓	
			×	V	

# Where Drupal is today?



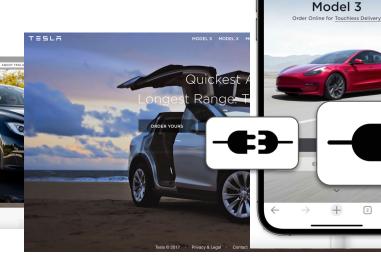
Source:

https://w3techs.com/technologies/history\_details/cm-drupal/ver



### **Migrations?**

July 16th, 2011



Read Tesla's 2021 Impact Report

TESLA



http://web.archive.org/web/20110716213135/

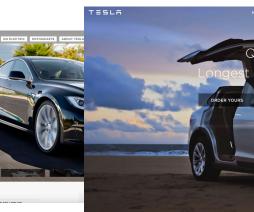
http://www.teslamotors.com/





### **Migrations?**

July 16th, 2011



Model 3 Order Online for Touchless Delivery Quickest t Range<del>.</del>

Read Tesla's 2021 Impact Report

TESLA



Source:

http://web.archive.org/web/20110716213135/

http://www.teslamotors.com/





tesla.com

Read Tesla's 2021 Impact Report

### **Types of Drupal Migrations**

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### **Types of Drupal Migrations**

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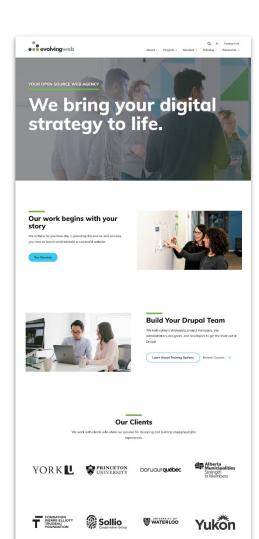
### The "CMS" migration



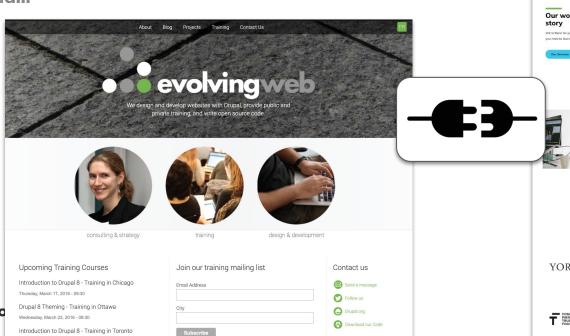


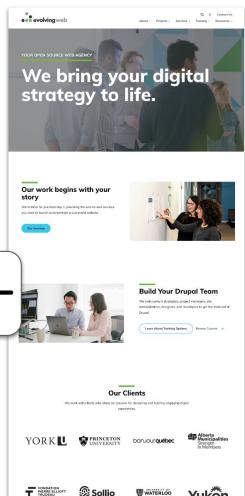




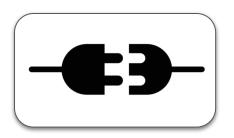






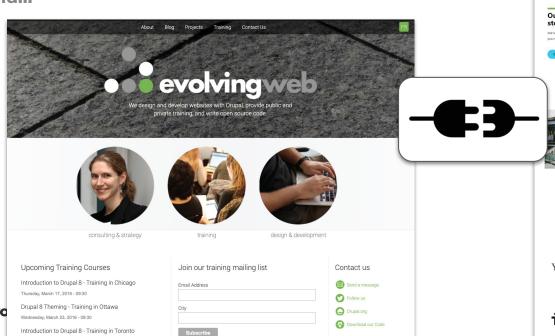


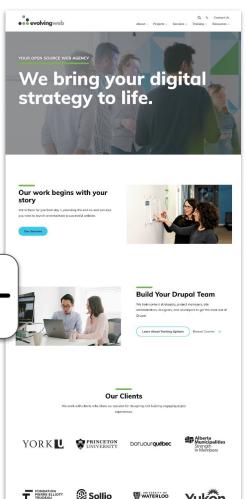




- Content Types & Taxonomies: Trainings, Tags & Blog Posts mostly. Menu items + all existing node paths.
- Features: Contact forms, Disqus Integration, Multilingual Support...
- Users: Related to Blog Posts and training content.



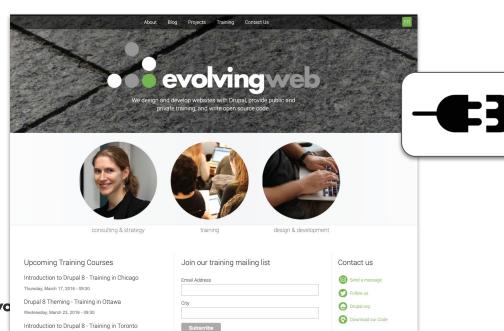






# DNS: The "CMS" m evolvingweb.ca

Upgrading from Drupal 7, 6, Wordpress, Joomla...





Our work begins with your story

We're there for you from day 1, providing the end-to-end service you need to launch and maintain a successful website.

Our Services





Build Your Drupal Team

We train content strategists, project managers, site administrators, designers, and developers to get the most of

Learn About Training Options Browse Courses



We work with clients who share our passion for designing and building engaging digital experiences.

YORK U.



















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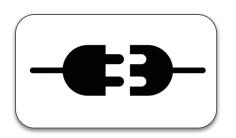












- Migrate: provides the APIs for importing data to Drupal 9 from any data source (users, files, images, nodes, entities...).
- → Migrate Drupal: offers functionality to migrate from other Drupal installations. It serves as the foundation for upgrades from Drupal 6 and 7.
- → WP Migrate: allows fetching data from a WordPress database.



## The "custom website" migration.

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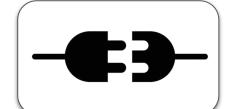






## The "custom website" migration.



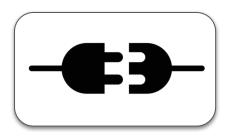








# The "custom website" migration.



 Migrate: provides the APIs for importing data to Drupal 9 from any data source. (users, files, images, nodes, entities...).



```
$databases['migrate']['default'] = array (
The
        'database' => 'source-database-name',
we
                   => 'source-database-username',
        'username'
        'password' => 'source-database-password',
                    => 'source-database-server',
   al
        'host'
                  => '3306',
        'port'
         'namespace' => 'Drupal\\Core\\Database\\Driver\\mysql',
                 => 'mysql',
         'driver'
       );
```



## The "ghost" migration.

#### **TYPES OF DRUPAL MIGRATIONS**

## The "ghost" one

Old systems that are looking for web exposure, integration, or a potential future migration.

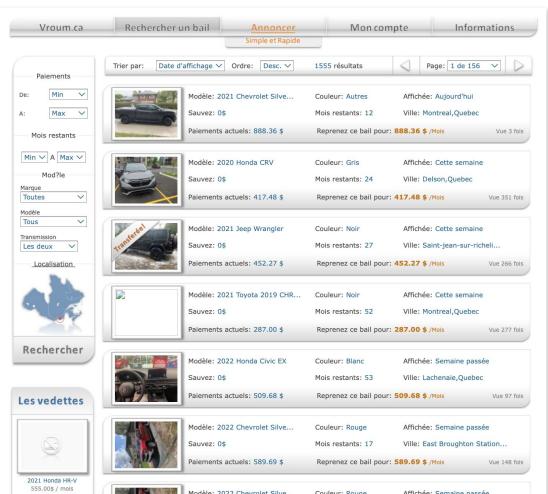




#### **TYPES OF DRUPAL MIGRATIONS**

## The "ghost" one

Old systems that are looking for web exposure, integration, or a potential furmigration.





The

migration.

Rechercher un bail Vroum.ca.

Annoncer

Mon compte

Informations

#### Transfert de bail pour Hyundai Elantra Hybrid 2022 - Vue 1064 fois



Détails du véhicule

Véhicule: Hyundai Elantra Hybrid 2022

Mois restants: 91 Mois Paiements restants: 90 Mois 575.00 \$ Paiement actuels: 500.11 \$ Paiements sans tax:

Vos paiements ②: 495.28 \$ / Mois +Tx

2,198 Km/Mois Km disponible: Km actuel: 10,000 Km

Limite annuelle: 30,000 Km/Année Quebec, Quebec

Ville:

Services complémentaires

Obtenez ce transfert de bail pendant 91 mois pour des paiements mensuels équivalents U 495.28\$/Mois +Tx apr s incitatif. Vous pourrez rouler 2,198 Km par mois.



liste

Cliquez ici pour obtenir un meilleur prix

> 450 \$ /Mois?

Ajouter

à mes favoris

Reprenez ce bail pour: 417.48 \$ /Mois Vue 351 fois

Informations

Vue 3 fois

Vue 148 fois

Page: 1 de 156 V

Affichée: Aujourd'hui

Ville: Montreal, Quebec

Affichée: Cette semaine

Ville: Delson, Quebec

Affichée: Cette semaine Couleur: Noir

Mon compte

Reprenez ce bail pour: 888.36 \$ /Mois

1555 résultats

Couleur: Autres

Mois restants: 12

Couleur: Gris

Mois restants: 24

Mois restants: 27 Ville: Saint-jean-sur-richeli...

Reprenez ce bail pour: 452.27 \$ /Mois Vue 266 fois

Couleur: Noir Affichée: Cette semaine

Mois restants: 52 Ville: Montreal, Quebec

Reprenez ce bail pour: 287.00 \$ /Mois Vue 277 fois

Couleur: Blanc Affichée: Semaine passée

Mois restants: 53 Ville: Lachenaie, Quebec

Reprenez ce bail pour: 509.68 \$ /Mois Vue 97 fois

Affichás, Compine passás

Affichée: Semaine passée Couleur: Rouge

Mois restants: 17 Ville: East Broughton Station...

Reprenez ce bail pour: 589.69 \$ /Mois

Détail du bail

Mois restants pour ce bail auto: 91 Mois 90 Mois Paiements restants: 84 Mois Durée initiale du bail: Date de fin du bail: Nov 2029

Frais du Km supplémentaire:

Valeur résiduelle:

L'incitatif total de ce transfert de bail est composé de :

Dépôt original: Montant incitatif additionnel 2 : 500 \$

Sauvez au total:

500 \$

6 cents / Km

Commentaire du vendeur

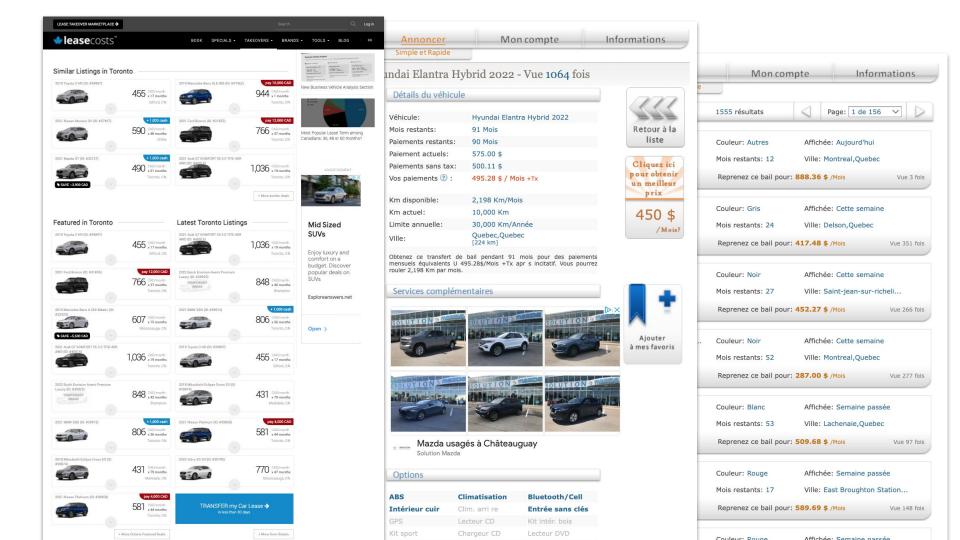
Trés bien entretenue, non-fumeur, pneu d\'hiver sur mag compris, pneu d'été sur mag différent des pneus d'hiver

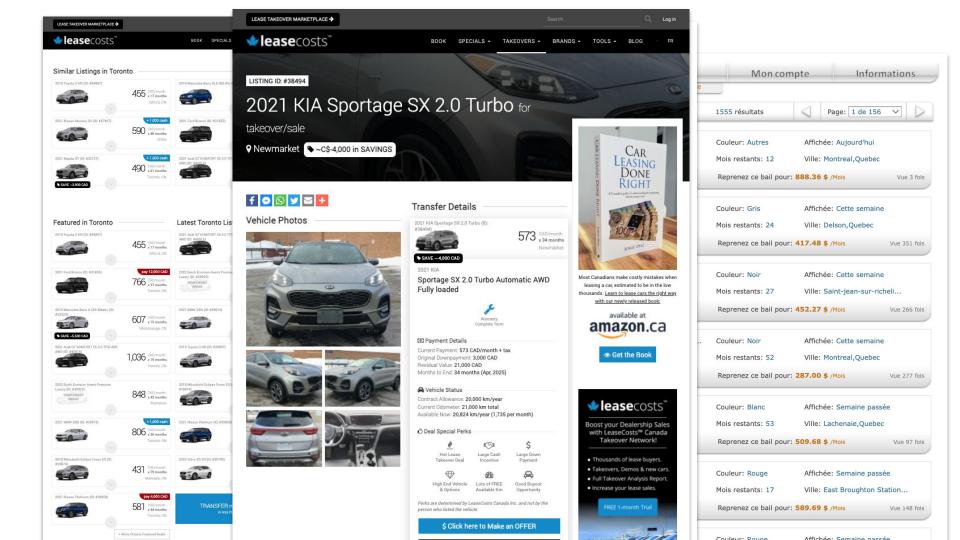
Options

Climatisation Bluetooth/Cell Intérieur cuir Entrée sans clés Clim, arri re

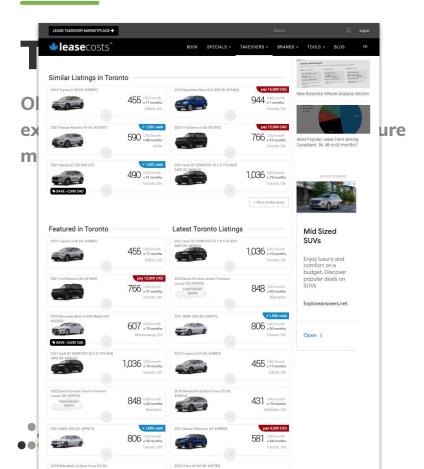
Mazda usagés à Châteauguay

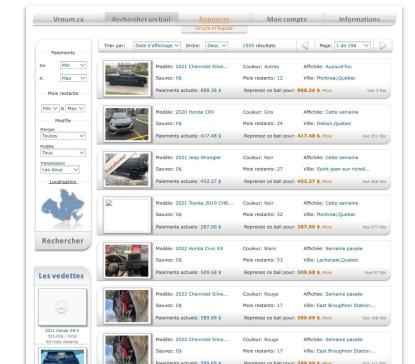




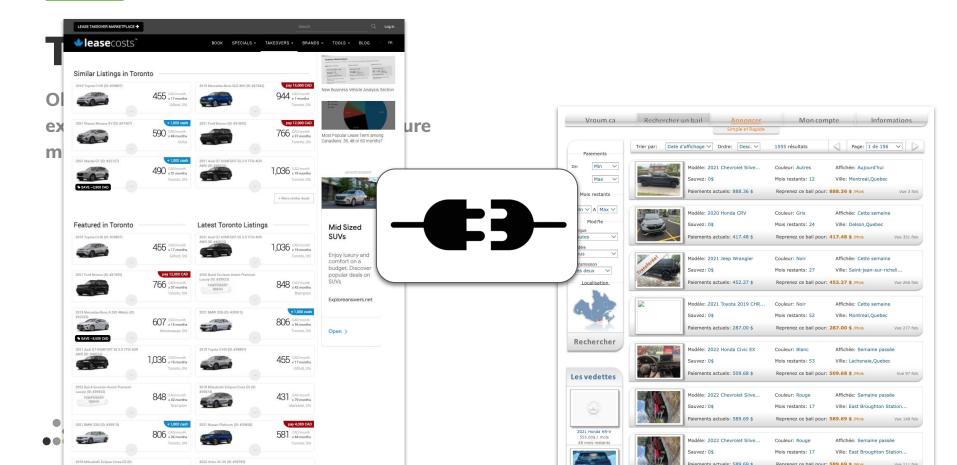


#### **TYPES OF DRUPAL MIGRATIONS**

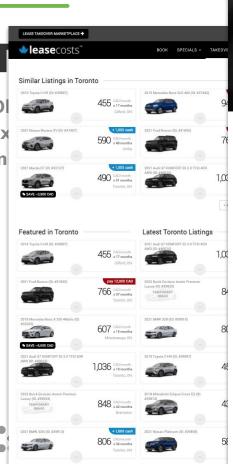


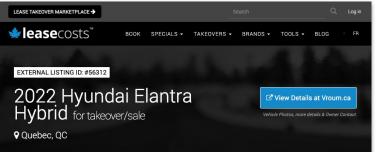


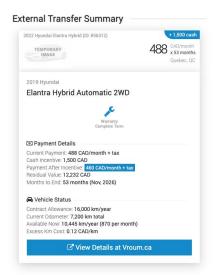
#### **TYPES OF DRUPAL MIGRATIONS**



#### TYPES OF DRUPAL MIGRATIONS \*leasecosts





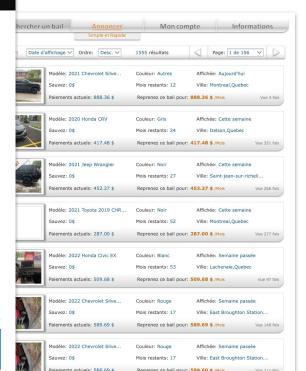


#### More Hyundai Takeovers in Québec





TRANSFER my Car Lease → in less than 30 days.



## The "ghost" migration

Potential modules to be used:

- Migrate: provides the APIs for importing data to Drupal 9 from any data source.
- → Feeds: importing or aggregating data into nodes, users, taxonomy terms and other content entities using a web interface without coding a migration. Data can be imported from various formats, such as CSV, JSON, XML and RSS feeds.



# **BONUS: Migrating** more data to Drupal

## Migrating "anything" to D9

If your data source is not a website, there are lots of things you can do:



## Migrating "anything" to D9

If your data source is not a website, there are lots of things you can do:

- Migrate Plus: allows fetching data in JSON, XML, and SOAP formats.
- Migrate Source CSV: allows fetching data from CSV files.
- Migrate Google Sheets: leverages Migrate Plus functionality to allow fetching data from Google Sheets.



## Migrating "anything" to D9

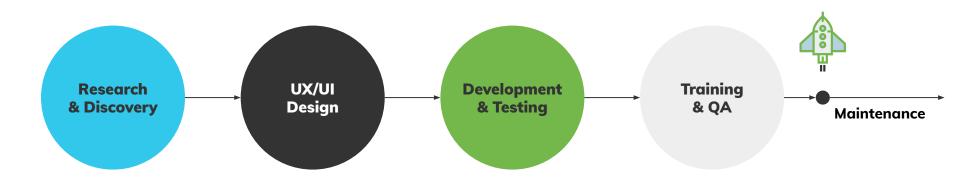
If your data source is not a website, there are lots of things you can do:

- Migrate Spreadsheet: allows fetching data from Microsoft Excel and LibreOffice Calc files.
- Migrate Source YAML: allows fetching data from YAML files.



# Estimating a Drupal 9 migration project.

#### THE OVERALL MIGRATION PROCESS



- ✓ Website audit
- ✓ Requirements gathering
- ✓ Content migration planning
- ✓ User journey mapping

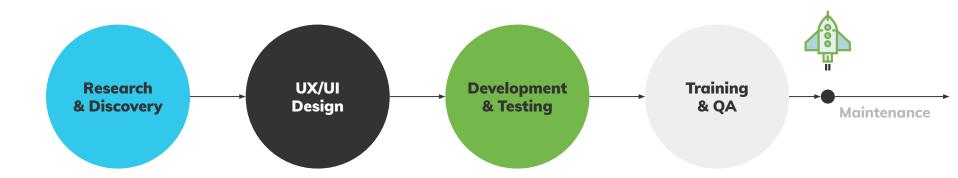
- ✓ Site map
- Wireframes and prototypes
- ✓ Art Direction
- ✓ Mockups
- ✓ Style guide

- / Development on Drupal 9
- Automated content migration
- Module upgrades as needed
- Usability testing

- ✓ Internal QA
- Technical training & documentation
- ✓ Content training
- User acceptance testing



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## Average migration time?

Time varies, depending on the complexity of the source website.

- → A Blog with no theme requirements: ~30 hours of work.
- → A Blog with light theme requirements: ~30 hours + (theming development time)
- → A corporate regular website with a light IA (some basic pages) & theme requirements: ~150 to ~450
- → Won't go further today :)



# Get a professional D9 Migration Estimate (courtesy of Evolving Web)

### **Get a D9 Estimate**

We have migrated so many websites to D9 that we can ballpark estimate yours too.

- Website URL
- Information Architecture breakdown with sample pages.
- Any additional non-obvious information that you need to migrate.





# Any Content Site can be Migrated to Drupal: I'll show you How

Prepared with ♥ by Evolving Web



## Want to learn more Drupal?

### **Upcoming Courses:**

Advanced Drupal Themina (May 31 - June 16, 2022)

<u>Drupal Web Accessibility</u> (June 21 - 23, 2022)

Atomic & Molecular Design (June 28 - July 7, 2022)

### **Training Tracks Starting September 2022**

<u>Content Creator Track</u> <u>Site Builder Track</u>

<u>Front-end Track</u> <u>Back-end Track</u>





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#### INTRODUCTION

## Let's talk about a real Drupal Project

WDBA	PHP	XML	JSON	JS	TWIG	CSS	YAML	Lines of Code	
Drupal Core	692,298	8,078	6,751	66,370	15,499	61,749	112,720	963,465	
vendor (libraries)	515,695	40,271	23,409	20,460	18,492	6,627	4,521	629,475	
Contrib modules	389,352	19,902	9,719	28,410	3,958	12,653	419,301	883,295	
Theme libraries		43,135	525,426	1,665,168		47,164	5,713	2,286,606	99.55%
Custom modules	2,149					121	1,814	4,084	
Custom theme			1,157	3,742	10,518	1,944		17,361	0.45%
TOTAL								4,784,286	



#### INTRODUCTION

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Config Tracking							111,689	111,689	2.72%
TOTAL								4,895,975	

