

# Migrating into Drupal 8

Ryan Weal // Novella Chiechi

Kafei Interactive Inc.

Montréal QC

[ryan@kafei.ca](mailto:ryan@kafei.ca) // [novella@kafei.ca](mailto:novella@kafei.ca)

Drupal.org :

<https://www.drupal.org/node/2348505>

Twitter : [http://twitter.com/ryan\\_weal](http://twitter.com/ryan_weal)

# What is migrate?

- A collection of templates to process data that gets pulled into a new Drupal site
- Old site database / files left in-place and not altered in any way

# The original “drupal-to-drupal” templates

- Were built for Drupal 7
- Package of templates that included support for most core components of D5, D6 and D7
- Extendable through OOP
- Was developed as a prototype of alternative upgrade path

# Migrate is now in core! (goodbye upgrading)

- Upgrade system has been dropped. Important data transformations now all happen during migration
- Skipping over core versions is now built-in and will be supported
- All core elements are to be supported
- Probably not 100% there in 8.0.0, expect it to be feature complete near 8.1.x

# The Swan Song of Drupal 6

- With the release of Drupal 8 support for D6 will stop\*
- Priority has been to get D6 → D8 path built-in ✓
- D8 → D8 was priority two
- D7 → D8 is in progress

\*maybe not

# What is going to be migrated?

- Everything supported in D8 core will get pulled in from D6 (even from contrib if it is now core)
  - Configuration: yes (new!)
  - Content: yes (imports i18n too)
  - in total about 100 built-in migrations for D6
  - Views templates in development
  - D7 templates in development

# What will need customization?

- Only custom entities should need porting
- Data cleanup tasks (housekeeping)
- Adapting to your new fancy layouts, placing the blocks in your new theme

# How will customizations be implemented?

- Manifest file can specify which migrations to run
- Most things can be handled in the new hook
  - reject items you don't want to import
  - remove problem text and artifacts from weird modules
  - populate unsupported fields with data
- Custom entities / “handlers” will go into a D8 plugin



# What is a plugin?

- Single file with a migration class
- No registration necessary, copy an example that is close to what you want
- Make sure to update the annotation / comments!
- Put it in the right subfolder
- Blocks are a good starter to try

# How it works! Let's migrate

- Install Drupal 8 on host with access to your D6 database
- Enable the core modules that will be necessary for your site (translation support, aggregator, etc)
- Enable migrate and migrate\_drupal modules

File Edit View History Bookmarks Tools Help

Extend | mojito

mojito/imp/admin/modules

DuckDuckGo

Désactiver Cookies CSS Formulaires Images Infos Divers Entourer Fenêtre Outils Code Options

Back to site Manage Shortcuts Ryan

Content Structure Appearance **Extend** Configuration People Reports Help

# Extend

List Uninstall

[Home](#) » [Administration](#)

Download additional [contributed modules](#) to extend Drupal's functionality.

Regularly review available updates to maintain a secure and current site. Always run the [update script](#) each time a module is updated. Enable the Update Manager module to update and install modules and themes.

## Search

▼ CORE

NAME	DESCRIPTION
<input checked="" type="checkbox"/> <b>Migrate</b>	▶ Handles migrations
<input checked="" type="checkbox"/> <b>Migrate Drupal</b>	▶ Contains migrations from older Drupal versions.

# The migration runner

- Go to /upgrade in your browser
- Input database credentials for the D6 site
- Put an http URL where migration can find public files
- Filesystem path for private files
- *Go!*

## Drupal Upgrade: Source site information ☆

[Home](#)

This form is used for importing configuration and content from a previous version of your Drupal site. Make sure you have backups of your destination site before submitting this form. Also, ensure that the source database and files are accessible to the destination site. For more details, see [upgrading from previous versions](#).

### ▼ SOURCE SITE

#### Source site address

Enter the address of your current Drupal site (e.g. "http://www.example.com"). This address will be used to retrieve any public files from the site.

### ▼ SOURCE DATABASE

Provide credentials for the database of the Drupal site you want to migrate.

#### Database type \*

MySQL, MariaDB, Percona Server, or equivalent

#### Database host \*

#### Database name \*

#### Database username \*

**Database host \***

localhost

**Database name \***

**Database username \***

lunes8

**Database password**

\*\*\*\*\*

▶ **ADVANCED OPTIONS**

▼ **FILES**

**Private file directory**

If you have private files on your current Drupal site which you want imported, please copy the complete private file directory to a place accessible by your new Drupal 8 web server. Enter the address of the directory (e.g., "/home/legacy\_files/private" or "http://private.example.com/legacy\_files/private") here.

**Perform upgrade**

# *Run, migrate, run!*

- Grouped into two types: config and content
  - config runs first (need to create content types, etc first), then imports content
- PrepareRow hook runs after load and before write



Home

Imported Drupal 6 global field coninstance configuration







# multilingual d6

*the translated content of yesteryear*

Home

✓ Content import complete.  
9 migrations succeeded  
9 migrations failed  
[Review the detailed migration log](#)  
Congratulations, you upgraded Drupal!

Search

## Frontpage English

View Edit Delete

Published status type:  Title:

Filter

With selection:

Apply

<input type="checkbox"/>	TITLE	CONTENT TYPE	AUTHOR	STATUS	UPDATED	OPERATIONS
<input type="checkbox"/>	<a href="#">Default language / Language neutral</a>	Page	Ryan	Published	05/02/2014 - 16:38	<a href="#">Edit</a> ▾
<input type="checkbox"/>	<a href="#">English 2</a>	Page	Ryan	Published	05/02/2014 - 16:38	<a href="#">Edit</a> ▾
<input type="checkbox"/>	<a href="#">French 2</a>	Page	Ryan	Published	05/02/2014 - 16:38	<a href="#">Edit</a> ▾
<input type="checkbox"/>	<a href="#">Frontpage English</a>	Page	Ryan	Published	05/02/2014 - 16:38	<a href="#">Edit</a> ▾
<input type="checkbox"/>	<a href="#">Frontpage French</a>	Page	Ryan	Published	05/02/2014 - 16:38	<a href="#">Edit</a> ▾

Apply

# To drush, or not to drush?

- Historically there has been a recommendation to use drush
- Officially we must support the UI now, 100%
- It is still possible to use command line
  - Until April 2014 it was really the only way

# Doing it with drush

- manifest.yml in the root
  - d6\_user\_role
  - d6\_user
  - d6\_filter\_format
  - d6\_locale\_settings
  - d6\_language\_negotiation
  - d6\_language\_types
  - d6\_language
- # run “drush config-list|grep migrate” to see all templates
- drush migrate-manifest --legacy-db-url=mysql://d6user:d6pass@localhost/d6 manifest.yml

# How to use the customization hook

```
/**
```

```
* Allows adding or altering data to a row
```

```
* before processing it.
```

```
*
```

```
* hook_migrate_MIGRATION_ID_prepare_row is also  
available.
```

```
*/
```

```
function hook_migrate_prepare_row(Row $row,  
MigrateSourceInterface $source, MigrationInterface  
$migration) {}
```

# What still needs some polish

- D6 migrations may have some “small” bugs
- Templates need to be created for D8 → D8 and D7 → D8
- Rollbacks, incremental, other advanced migrate features now on the roadmap 2015-01
- ***EXPECT*** to re-migrate when the final version of migrate-in-core is ready

# Getting involved

- Join <http://groups.drupal.org/imp>
- Chat on IRC in #drupal-migrate (freenode.net)
- Participate in weekly G+ hangout for progress updates at 21h00 (9pm) EST (-0500) every Wednesday
- Create plugins for your custom contrib entities
- Test, test, test! Run against your most complex sites. Report problems.

# Reporting issues

- Drupal core → Migration system :  
<https://drupal.org/project/issues/drupal>
  - Migration runner
  - D6 → D8 issues, particularly i18n
  - Some D7 work will happen in a separate sandbox repository



# Multilingual migrate

- If you use multilingual, *test, test, test!*
- My blog post from NYCcamp will get you started with importing multilingual data:

<http://www.verbosity.ca/migrating-multilingual-data-drupal-8>

# Things to keep in mind

- Migrate path to D8 will not likely be official until 8.1.x (at least for the UI)
- You may need to re-migrate at the drop of a hat until then
- Sites that have been upgraded multiple times have riskiest (potentially corrupted) data, please test these as much as possible

# Other options

- Copy and paste for small brochure sites?
- Use a deployment module to create some of your (new) configuration
  - Create nodes programmatically for small sites

Questions ?