## Migrating into Drupal 8 Migrando a Drupal 8

Ryan Weal // Novella Chiechi Kafei Interactive Inc. Montréal Québec Canada

ryan@kafei.ca // novella@kafei.ca

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

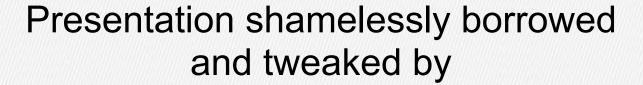
http://twitter.com/ryan\_weal

http://twitter.com/italiatina





# Migrating into Drupal 8 Migrando a Drupal 8



Michael Anello @ultimike

for

Florida DrupalCamp 2015







#### The Big Picture

- Upgrading between major versions of Drupal is hard.
- Previous Drupal core upgrade paths migrated configuration and content.
- Previous Drupal core upgrade paths were not extensible.
- Most people opted to "migrate and rebuild".







#### The Big Picture

- We have a robust data migration tool (Migrate module).
- The Drupal-to-Drupal Migration (7.x)
  module can migrate content from D5 and
  D6 to D7.
- Move them into core as the default upgrade path.







#### But...

- The Migrate and Migrate D2D modules are only for content.
- We have a lot of Drupal 6 sites that need to be upgraded.







#### The Solution

- Port the Migrate and Drupal-to-Drupal Migration modules to Drupal 8.
- Extend them to migrate both configuration and content.
- Provide upgrade paths from Drupal 6 and Drupal 7!
- Make them extensible!







#### The Plan

- Port Migrate to Drupal core 8.x.
- Re-write Migrate D2D for Drupal core 8.x (migrate\_drupal)
- Write Drupal 6 to Drupal 8 migrations.
- Write Drupal 7 to Drupal 8 migrations.
- Migrations are plugins, so they are extendable!





## What is migration? ¿Que significa migrar?



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







- Built for Drupal 7
- Package of templates that includes support for most core components of D5, D6 and D7
- Extendable through OOP
- Developed as a prototype of alternative upgrade path





Migrate is now in core! (goodbye upgrading)
¡Migrate ya esta en el core! (adios actualizaciones)

- 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 (D6→D8)
- All core elements are to be supported
- Probably not 100% ready in 8.0.0, expect it to be feature complete near 8.1.x





#### The Swan Song of Drupal 6 La última canción de Drupal 6



- With the release of Drupal 8 support for D6 will stop\*
- Priority is D6→D8 path built-in ✓
- D7 → D8 is in progress
- D8  $\rightarrow$  D8 to come

\*maybe not (may be extended)







- 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 also)
  - in total about 100 built-in migrations for D6
  - Views templates in development
  - D7 templates in development





#### Multilingual migrate Migrate multilenguaje



- If you use multilingual: test, test, test!
- D8 has all multilingual modules built in
- Migration will change nodes to entity translation
  - One node = all translations!
- Configuration translations get imported!





#### How it works! Let's migrate Cómo funciona - ¡Vamos a migrar!

- 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











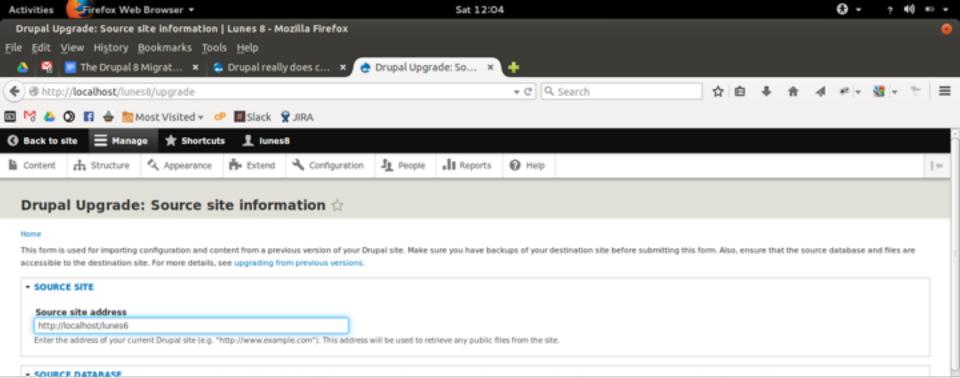
### The migration runner UI El motor de migraciones



- Install migrate\_upgrade contrib module
- 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!



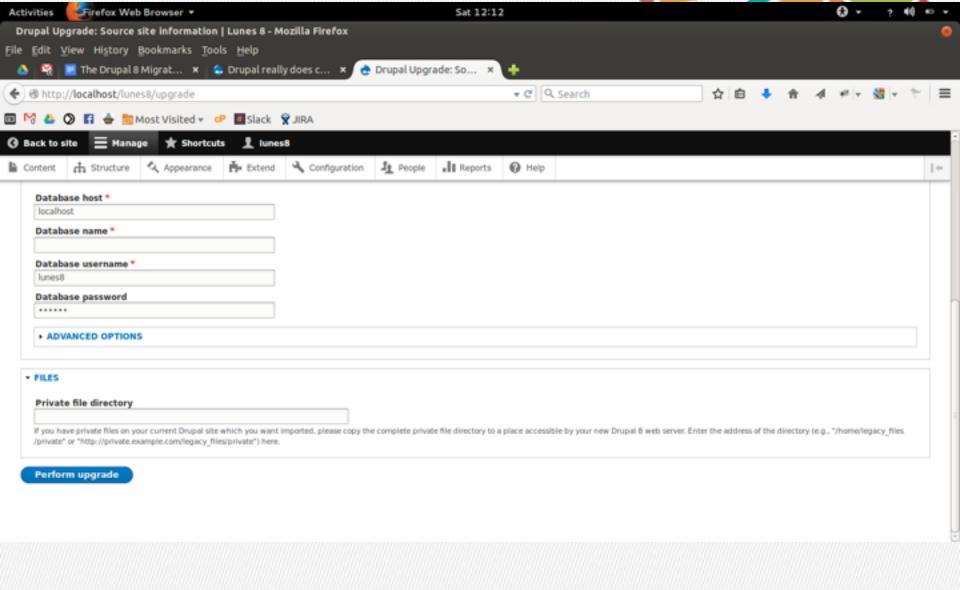




\* SOURCE DATARAS







### DRUPALCON LATIN AMERICA



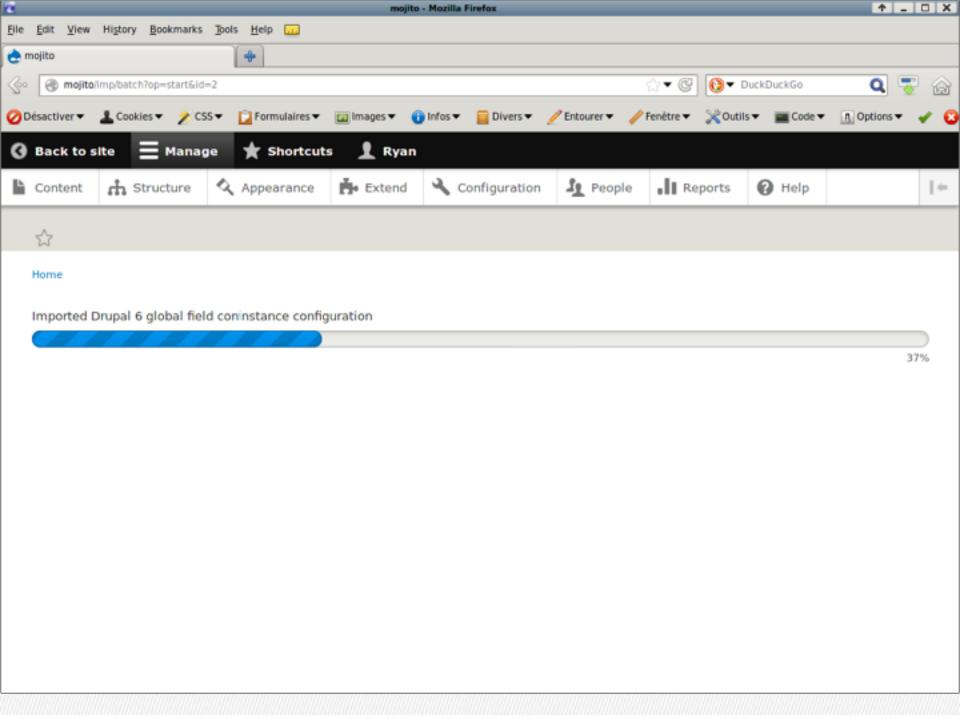
### Run, migrate, run! ¡Corre, migrate, corre!

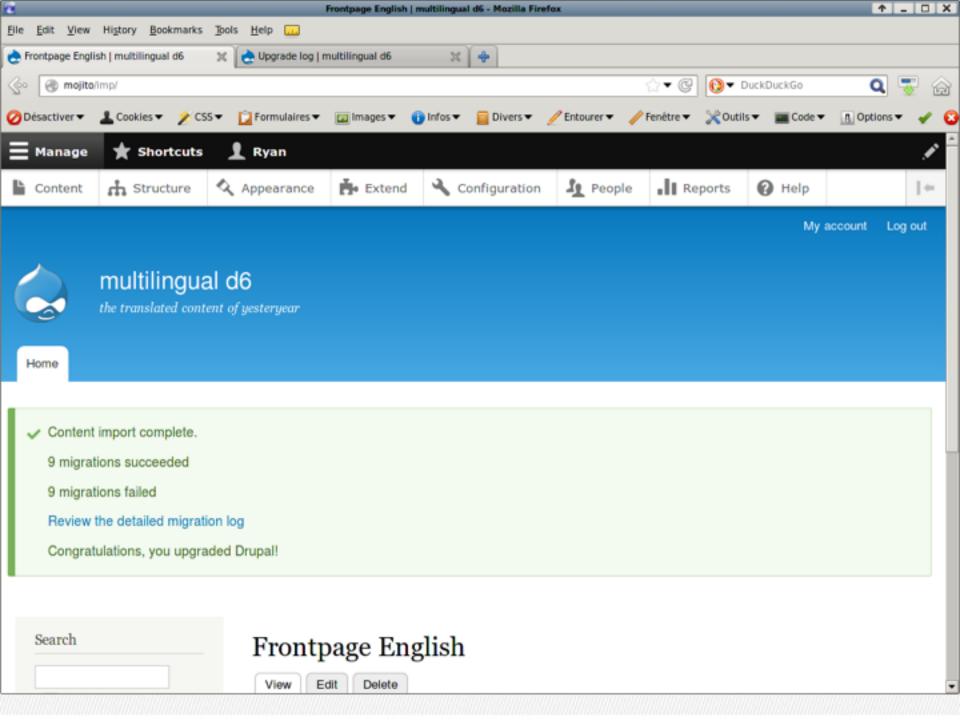


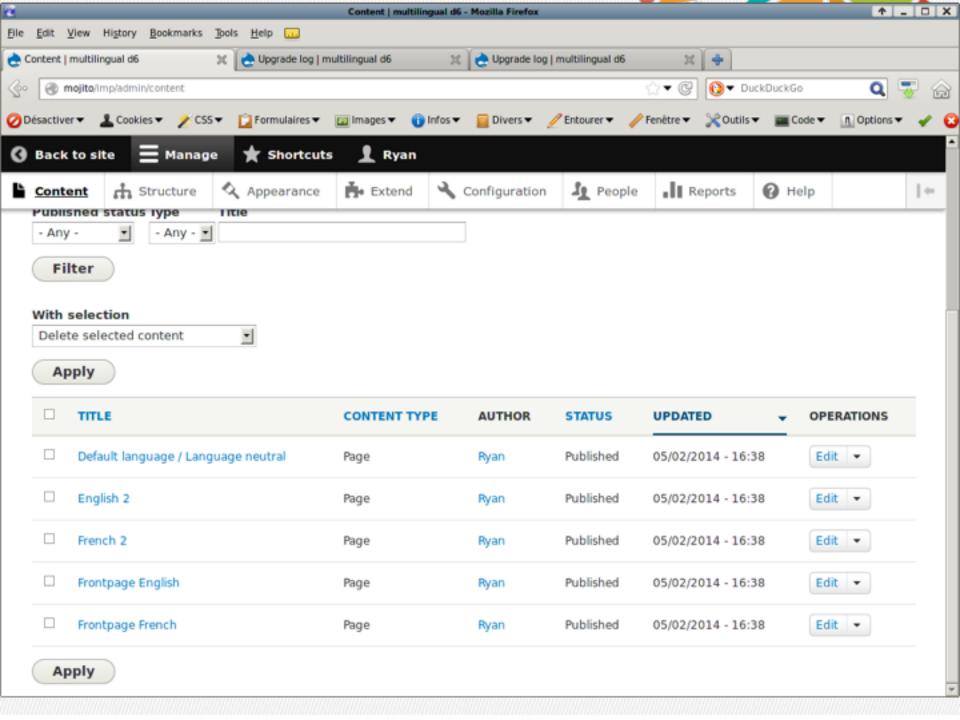
- Config runs first (will create content types, etc first), then import content
- PrepareRow hook runs after load and before write (use this to override)











### To drush, or not to drush? ¿Usar drush o No?



- 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
  - Some people prefer to use drush always because it is easy to customize





### How will customizations be implemented? ¿Cómo implementar las personalizaciones?

- Manifest file can specify which migrations to run (similar to old Drupal-to-Drupal process)
- 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





### Doing it with drush Haciendolo con 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





### What will need customization? ¿Qué va a necesitar personalización?

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





### How to use the customization hook Cómo usar hook personalizado

```
/**
* 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) { // customizations here }
```





## What is a plugin? ¿Qué es un 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 subfolder of your module
- Blocks are a good example plugin





### What still needs some polish Lo que todavía necesita mejorar

- 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 new version of core is ready





#### Getting involved Cómo contribuir



- Join <a href="http://groups.drupal.org/imp">http://groups.drupal.org/imp</a>
- 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! Run against your most complex sites. Report problems.





#### Reporting issues Cómo informar issues



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





## Things to keep in mind Cosas para tener presente



- Migrate path to D8 will not likely be "official" until 8.1.x (at least for the UI)
- Migrate is in core now
- You may need to re-migrate with each new core version until then
- Sites that have been upgraded multiple times have riskiest (potentially corrupted) data, please test these as much as possible (D4.7→D5→D6→D8)





### Other options Otras opciones



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





#### Resources Herramientas



- Developer guide <a href="https://www.drupal.org/">https://www.drupal.org/</a>
   developing/api/8
- Examples module <a href="https://www.drupal.org/">https://www.drupal.org/</a>
   project/examples
- Drupal 8 API docs <a href="https://api.drupal.org/api/drupal/8">https://api.drupal.org/api/drupal/8</a>
- Change records for d8: <a href="https://www.drupal.org/list-changes">https://www.drupal.org/list-changes</a>





Questions? Preguntas?



### Find me tomorrow

I'll get you started!



