



Getting Stuff Into Drupal

Basics of Content Migration

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Who am I?

- Michael Anello
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- Drupal trainer and developer
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For most of us, when
we first learn Drupal...



Content types



Taxonomy



Views

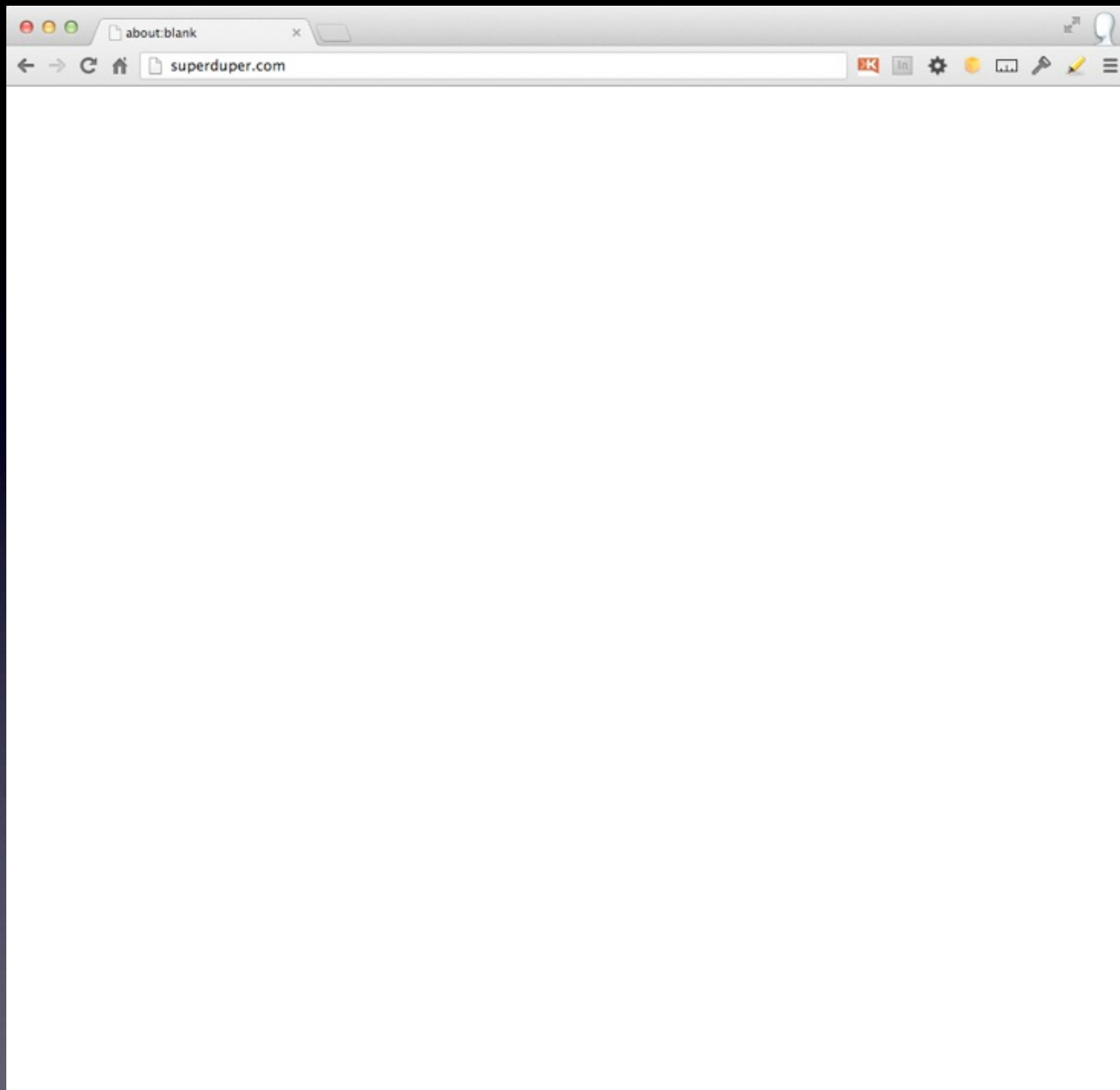


Theming









What options are there
for getting existing
content onto a new site?









Comparison of some of the Drupal import/export tools:
<https://groups.drupal.org/node/21338>

http://www.pozadzides.com/photos/bladesmithing/hammers_medres.jpg



Feeds

<http://www.drupal.org/project/feeds>



Migrate

<http://www.drupal.org/project/migrate>



Drupal-to-Drupal data migration

http://www.drupal.org/project/d2d_migrate

(Migrate D2D)



???





<http://x.annihil.us/u/prod/marvel/i/mg/7/40/4f43f483396fe/detail.jpg>



Not too much content	Manual
Content in flat files (.xls, .csv, .xml)	Feeds/Migrate
Content in non-Drupal database	Migrate
Content in previous version of Drupal	Migrate D2D



Data migration project assumptions



Migration Assumptions

1. The data is never as clean as it is claimed to be.
2. Data will almost always need to be “massaged” during migration.
3. You don’t know half of what you need to know to complete the migration until you’re in the middle of the migration.



The Process



The Process

- Analyze - understand the legacy data
- Map - line up the pegs with the holes
- Iterate - implement, test, refine, repeat
- Launch!

Communication is key!



The Process



Feeds Module



Feeds Module

- Takes a flat file as input (periodically or on-demand)
- Imports from URL or file upload
- Parses file (.csv, .xml)
- Processes data (maps data to user, taxonomy, or node fields)



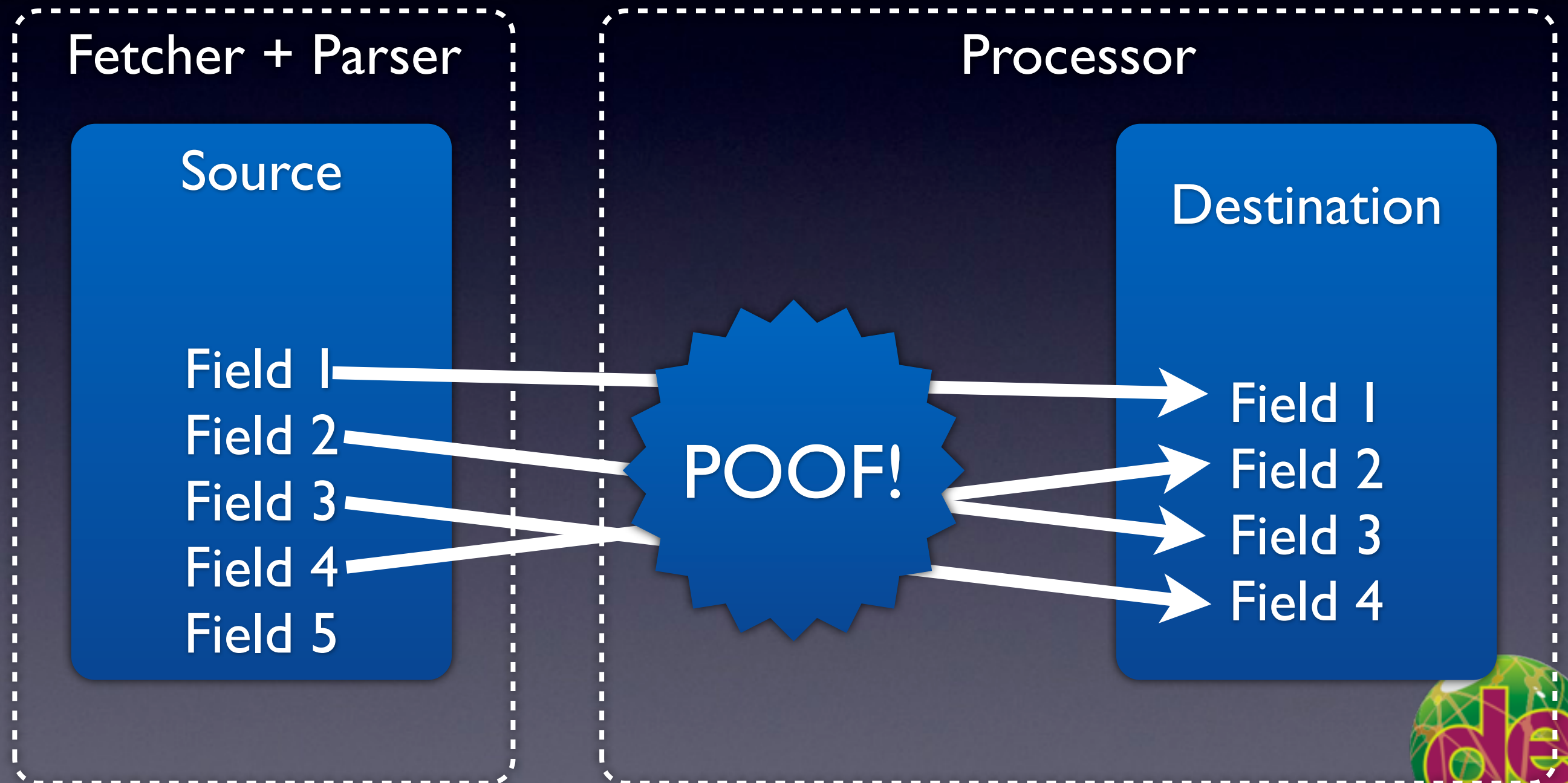
Feeds Module

- Flexible
- Works with any well-defined .xml
- Numerous options for parsers
- Data can be “massaged”
 - Rules integration
 - Feeds Tamper module
- No code*

*depending on level of “massaging”



The Process - Feeds



Feeds Module Example

Farmers' Markets



Migrate Module



Migrate Module

- A custom module must be written
- Better for data that references itself
- Create “migration classes” to identify source, destination, mapping, massaging
- Migrations can be rolled-back
- Continuous migration available
- Extensible



Migrate Module

- Unbelievably flexible
- Best for importing data from other databases
- Significant learning curve
- Great Drush integration
- Used for giant data migration projects
- Lots of (object-oriented) code

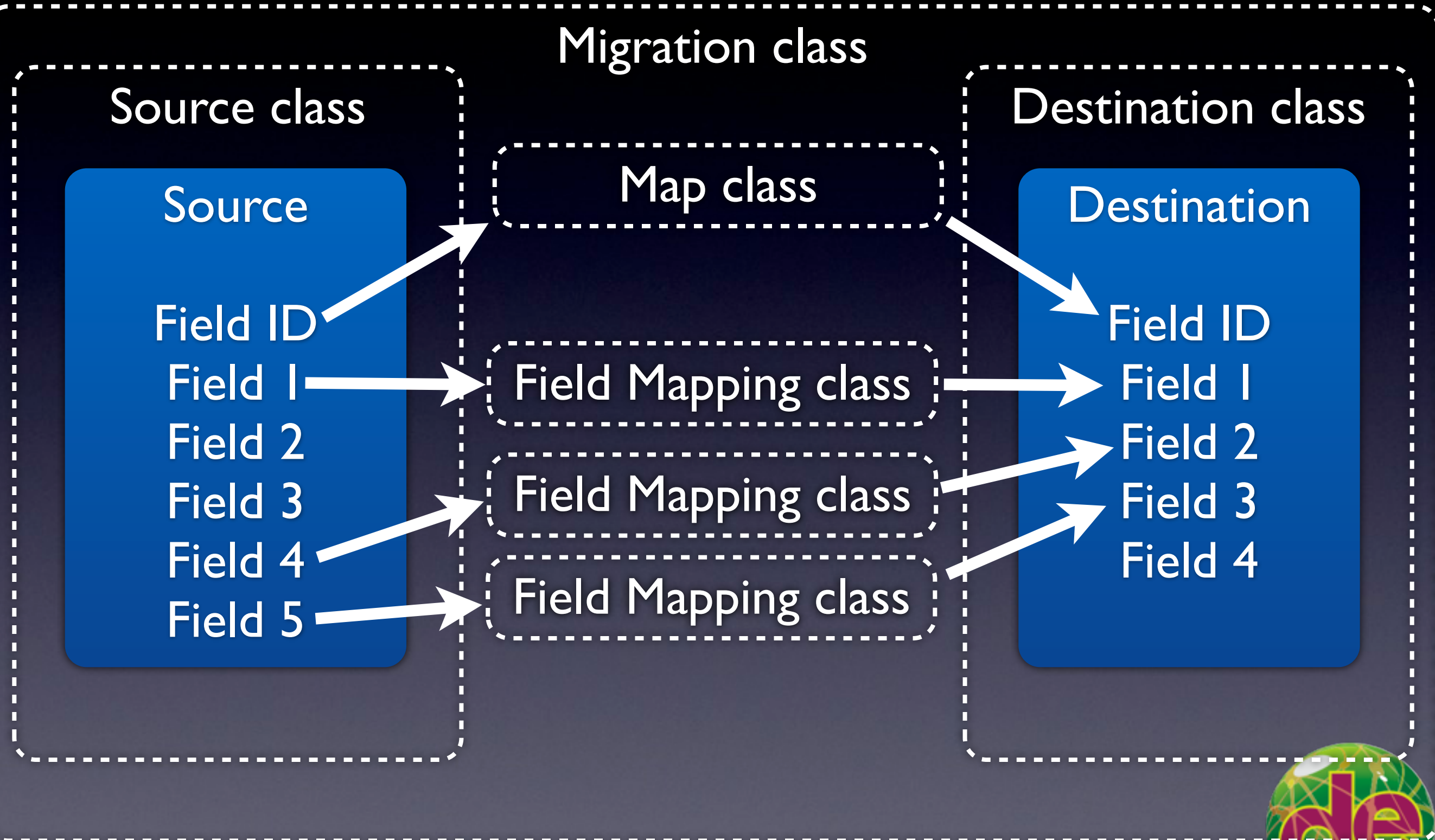


Migrate Module - Drush

- migrate-import [*migration_name*]
- migrate-import --rollback --all
- migrate-import --update [*migrationname*]
- migrate-rollback [*migration_name*]
- many others at <https://drupal.org/node/1561820>



The Process - Migrate



From Andrew Morton's "Getting it into Drupal with Migrate" DrupalCon Denver 2012 session.

<http://denver2012.drupal.org/sites/default/files/Migrate.pdf>



The Process - Migrate

```
class FirstMigration extends Migration {  
    public function __construct() {  
        parent::__construct();  
  
        $query = db_select(...);  
        $this->source = new MigrateSourceSQL($query);  
  
        $this->destination = new  
MigrateDestinationNode('basic_page');  
  
        $this->map = new MigrationSQLMap(...);  
  
        $this->addFieldMapping('dest_name',  
'source_name')->defaultValue(1);  
    }  
}
```

From Andrew Morton's "Getting it into Drupal with Migrate" DrupalCon Denver 2012 session.

<http://denver2012.drupal.org/sites/default/files/Migrate.pdf>



Migrate Module Example

JeepNewsNow.com



Migrate Module - Gotchas!

- Don't "drush migrate-deregister" a migration without rolling back first.
- Rollback prior to making any major changes to your migration class - especially if you're modifying the source query.
- Clear caches after creating new migration classes.



Migrate D2D Module



Migrate D2D Module

- A great way to migrate and rebuild an older Drupal site
- All the same benefits of the Migrate module
- Provides migration classes specific to migrating from older versions of Drupal



Migrate D2D Module Example

DrupalEasy.com



Thank you!

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