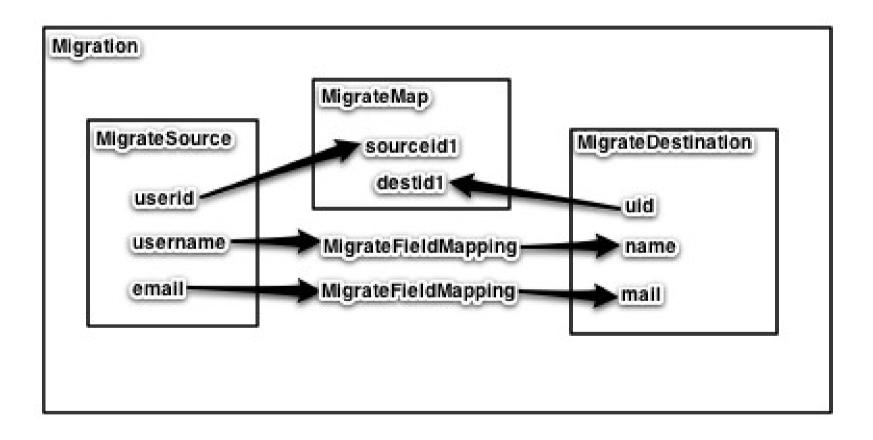


I'm on D6. Let's do this the easy way:

drush sup

How Migrate works:

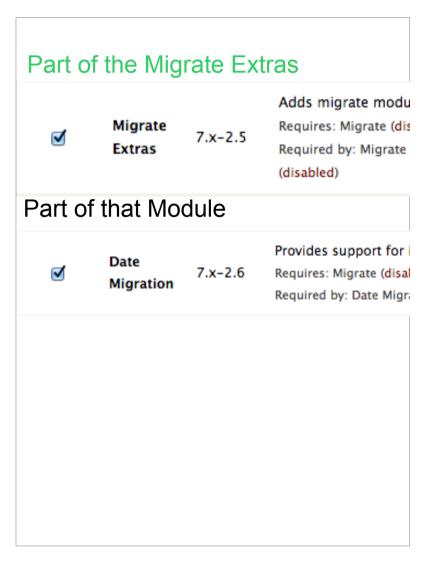


Ok, that didn't work. Now what?

- Migrate http://drupal.org/project/migrate
- Migrate Extras http://drupal.org/project/migrate_extras

Migrate Extras - Gotcha

	Drupal 6	Drupal 7
Address Field	N/A	√
Automatic Nodetitles	Requested	
CiviCRM	Requested	
Commerce	N/A	Built-in
Countries	N/A	Built-in
Date	Built-in	Built-in
Content Taxonomy	✓	N/A
Domain Access	Requested	
Email Field	Requested	Built-in
Embedded Media Field	✓	Requested
Entity API	N/A	✓
Entity Reference	N/A	Built-in
Field collection	N/A	Requested
Fivestar	Requested	
Flag	✓	✓
Formatted Number CCK	✓	N/A
Interval	N/A	✓



How to use and write your first Migrate Module!

- Download / Enable Migrate, Migrate Extras, and module specific Migrate Extensions (Date)
 - migrate
 - migrate_extras
 - date_migrate
 - migrate ui
- Create / Enable your migration module
- Enable your content migration types in the Migrate UI
- Migrate it!

Creating our first migrate module: Pre-Reqs

Migrate uses PHP Classes heavily:

```
class cats {
  protected $type = ";
  protected $adult = TRUE;
  public function __construct($type) {
    $this->type = $type;
  }
}
class kittens extends cats {
  protected $adult = FALSE;
}
```

Creating our first migrate module: Pre-Reqs

Migrate uses DBTNG:
 \$query = db_select('node', 'n')
 ->fields('n', array('nid', 'uid', 'title', 'body')
 ->condition('n.created', '1361224788', '>')
 ->orderBy('n.nid', 'DESC');

Creating our first migrate module: migrate_cats.info

```
name = "Migrate Cats"
description = "Example Cat Migration."
package = "Migration"
core = 7.x
dependencies∏ = taxonomy
dependencies[] = image
dependencies∏ = comment
dependencies∏ = migrate
dependencies∏ = list
dependencies[] = number
files[] = migrate cats.module
files[] = cats.inc
```

Creating our first migrate module: migrate_cats.module

```
/**

* @file

* THIS SPACE INTENTIONALLY LEFT BLANK.

*

* Yes, there is no code in the .module file. Migrate

* operates almost entirely through classes.

*/
```

Creating our first migrate module: migrate_cats.migrate.inc

```
<?php
function migrate_cats_migrate_api() {
 $api = array(
  'api' => 2,
  'migrations' => array(
   'CatNode' => array('class name' => 'catNodeMigration')
 return $api;
```

Creating our first migrate module: cats.inc

```
<?php
class catNodeMigration extends Migration {
 /* Set up migration / mapping */
 public function construct() {
  parent:: construct();
  $this->description = t('Migrate them cats.');
  $this->map - MigrateMap Class instance
  $this->source - MigrateSource Class instance
  $this->destination - MigrateDestination Class instance
  $this->addFieldMapping - Field Mappings
 /* Finesse data / fix it before saving. */
 public function prepareRow($current row) {
  $current row->{property}
  return TRUE;
```

Creating our first migrate module: Map the information

```
<?php
class catNodeMigration extends Migration {
 /* Set up migration / mapping */
 public function construct() {
  parent:: construct();
 $this->map = new MigrateSQLMap($this->machineName,
   array(
     'fid' => array(
      'type' => 'int',
      'not null' => TRUE,
      'description' => 'Feline ID.',
      'alias' => 'c',
   MigrateDestinationNode::getKeySchema()
```

Creating our first migrate module: Setting up the source (MySQL).

- MigrateSourceCSV
- MigrateSourceList
- MigrateSourceMSSQL
- MigrateSourceMultiItems

- MigrateSourceOracle
- MigrateSourceSQL
- MigrateSourceXML

Creating our first migrate module: XML Source.

```
<?xml version="1.0" encoding="UTF-8"?>
<cats>
 <cat>
  <felineid>0001</felineid>
  <name>Felix</name>
  <age>2</age>
 </cat>
 <cat>
  <felineid>0002</felineid>
  <name>Grumpy</name>
  <age>15</age>
 </cat>
</cats>
```

Creating our first migrate module: Setting up the source (XML).

```
<?php
class catNodeMigration extends Migration {
 /* Set up migration / mapping */
 public function construct() {
  parent:: construct();
  $fields = array(
   'name' => t('Cat name'),
   'age' => t('Actual Age')
  $xml folder = drupal get path('module', 'migrate cats') . '/xml/';
  $cats url = $xml folder . 'cats.xml';
  $cat xpath = '/cats/cat';
  $cat_ID_xpath = 'felineid';
  $this->source = new MigrateSourceXML($cats url, $cat xpath,
$cat ID xpath, $fields);
```

Creating our first migrate module: Setting up the destination (Node).

```
<?php
class catNodeMigration extends Migration {
   /* Set up migration / mapping */
   public function __construct() {
     parent::__construct();
   // Set up our destination - nodes of type cats
   $this->destination = new MigrateDestinationNode('cats');
```

- MigrateDestinationComment
- MigrateDestinationFile
- MigrateDestinationNode
- MigrateDestinationTerm
- MigrateDestinationUser

- MigrateDestinationProfile2
- MigrateDestinationPrivateMsg
- MigratePathautoHandler

Creating our first migrate module: Setting up the Field Mapping.

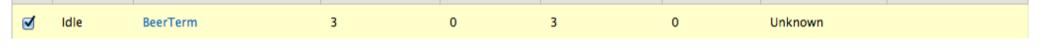
```
<?php
class catNodeMigration extends Migration {
   /* Set up migration / mapping */
   public function __construct() {
     parent::__construct();
     $this->addFieldMapping('title', 'name')
        ->description(t('Mapping cat name in source to node title'));

// Unmapped destination fields
   $this->addUnmigratedDestinations(array('age'));
```

Creating our first migrate module: Finesse the data.

```
<?php
class catNodeMigration extends Migration {
   /* Finesse data / fix it before saving. */
   public function prepareRow($current_row) {
      $current_row->created = time();
   // Make sure those pesky yard diggers don't get in!
   if($current_row->name == 'Dog') {
      return FALSE;
   }
   return TRUE;
}
```

Running our first migrate module: admin/content/migrate



OPERATIONS Import Execute

Choose an operation to run on all migrations selected above:

- Import Imports all previously unimported records from the source, plus any records marked for update, into destination Drupal objects.
- · Rollback Deletes all Drupal objects created by the migration.
- · Rollback and import Performs the Rollback operation, immediately followed by the Import operation.
- Stop Cleanly interrupts any import or rollback processes that may currently be running.
- Reset Sometimes a migration process may fail to stop cleanly, and be left stuck in an Importing or Rolling Back status. Choose Reset to clear the status and permit other operations to proceed.

OPTIONS

Migrate Classes

- MigrateSource
 - http://drupalcontrib.org/api/drupal/contributions%21migrate%21includes%21sour
- MigrateDestinationEntity
 - http://drupalcontrib.org/api/drupal/contributions%21migrate%21plugins%21destir

Migrate Resources

- Migrate Examples:
 - migrate_example
 - migrate_example_baseball
 - migrate_example_oracle
- XDEB Migration (dated 2011):
 - http://xdeb.org/node/1539
- RedCat Migration (dated 2011):
 - http://btmash.com/article/2011-02-25/migrating-content-using-migrate-module