



Making the move from TYPO3 to Drupal



❖ Why were clients looking to migrate

- Small TYPO3 developer community compared to Drupal globally
- Expensive and slow maintenance/upgrade process
- **Difficult to implement community oriented features**
- **Adding new functionality in Drupal is relatively easier and quicker**
- Consolidation of all extensions into a single system
- Documentation has been scarce
- Enterprise support missing

❖ Where do we see TYPO3 standout?

- Hierarchical representation Page structure
- Flexibility in controlling access to content
- **Internationalization**
- **Templating**
- Backend for website administration

❖ Work

- knr.gl – migration to OpenPublish



Kalaallit Nunaata Radioa
Greenlandic Broadcasting Corporation

- eastwestcenter.org (primary partner - Forum One Communications)



EAST - WEST CENTER

- TYPO3_migrate module

❖ Concerns we heard

- What all content can be migrated?
- Can all digital assets be migrated?
- Can the user relationships with galleries, pages, blogs etc be maintained?
- Comments on articles and images?
- Can categories be migrated?
- Incremental migration be done?
- How much downtime?

❖ Migrate module

- Provides a flexible framework
- **It is built for Drupal**
- Supports core Drupal objects
- Supports migration from XML, JSON, CSV, Databases
- Incremental migrations
- **Drush commands for import, listing, status, rollback etc**
- Migrate UI

❖ TYPO3_Migrate module

Migrating content from a TYPO3 website to Drupal using the Migrate module:

- Users(both frontend and backend).
- Standard typo3 pages along with their tt_content elements.
- News(tt_news) and news categories.

Using the TYPO3_migrate and migrate modules

DEVELOPMENT

ENABLED	NAME	VERSION	DESCRIPTION	OPERATIONS
<input checked="" type="checkbox"/>	Migrate	7.x-2.1	Import content from external sources Required by: Migrate Example (disabled), migrate_example_baseball (disabled), Migrate UI (enabled), Typo3 Migrate (enabled), Typo3 News Migrate (enabled), Typo3 Pages Migrate (enabled), Typo3 Users Migrate (enabled)	
<input type="checkbox"/>	Migrate Example	7.x-2.1	Example migration data. Requires: Taxonomy (enabled), Options (enabled), Field (enabled), Field SQL storage (enabled), Image (enabled), File (enabled), Comment (enabled), Text (enabled), Migrate (enabled), List (enabled), Number (enabled)	
<input checked="" type="checkbox"/>	Migrate UI	7.x-2.1	UI for managing migration processes Requires: Migrate (enabled)	Permissions

MIGRATION

ENABLED	NAME	VERSION	DESCRIPTION	OPERATIONS
<input checked="" type="checkbox"/>	Typo3 Migrate		Typo3 to drupal migration. Requires: Migrate (enabled) Required by: Typo3 News Migrate (enabled), Typo3 Pages Migrate (enabled), Typo3 Users Migrate (enabled)	Permissions
<input checked="" type="checkbox"/>	Typo3 News Migrate		Typo3 news to drupal migration. Requires: Taxonomy (enabled), Options (enabled), Field (enabled), Field SQL storage (enabled), Image (enabled), File (enabled), Comment (enabled), Text (enabled), Migrate (enabled), Typo3 Migrate (enabled)	
<input checked="" type="checkbox"/>	Typo3 Pages Migrate		Typo3 pages to drupal migration. Requires: Taxonomy (enabled), Options (enabled), Field (enabled), Field SQL storage (enabled), Image (enabled), File (enabled), Comment (enabled), Text (enabled), Migrate (enabled), Typo3 Migrate (enabled)	
<input checked="" type="checkbox"/>	Typo3 Users Migrate		Typo3 users to drupal migration. Requires: Taxonomy (enabled), Options (enabled), Field (enabled), Field SQL storage (enabled), Image (enabled), File (enabled), Comment (enabled), Text (enabled), Migrate (enabled), Typo3 Migrate (enabled)	

Configure

Dashboard Content Structure Appearance People Modules Configuration **Typo3 migration – Database settings** Reports Help Hello admin Log out

Add content Find content Edit shortcuts

Home » Administration

Typo3 migration – Database settings

TYPO3 MIGRATION – DATABASE SETTINGS TYPO3 NEWS SETTINGS

Database Name *

The Typo3 db must be accessible by the drupal db user and must reside on the same db server.

Save configuration

Dashboard Content Structure Appearance People Modules Configuration **Typo3 migration – Database settings** Reports Help Hello admin Log out

Add content Find content Edit shortcuts

Home » Administration » Typo3 migration – Database settings

Typo3 migration – Database settings

TYPO3 MIGRATION – DATABASE SETTINGS TYPO3 NEWS SETTINGS

News Folders

Enter the PIDs of the news folders to be migrated in comma separated format. By default all news will be migrated.

Save configuration



Migrate Dashboard

Home » Administration » Content

Migrate ⊕

CONTENT COMMENTS **MIGRATE**

<input type="checkbox"/>	STATUS	MIGRATION	TOTAL ROWS	IMPORTED	UNIMPORTED	MESSAGES	THROUGHPUT	LAST IMPORTED
<input type="checkbox"/>	Idle	Typo3BeUser	10	10	0	0	329/min	2011-12-05 13:56:10
<input type="checkbox"/>	Idle	Typo3FeUser	2	2	0	0	350/min	2011-12-05 13:56:11
<input type="checkbox"/>	Idle	Typo3NewsCategory	7	7	0	0	2857/min	2011-12-05 13:56:52
<input type="checkbox"/>	Idle	Typo3Pages	27	0	27	0	2367/min	2011-12-04 12:51:24
<input type="checkbox"/>	Idle	Typo3News	10	10	0	0	679/min	2011-12-05 13:58:00

OPERATIONS

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.
- 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.

❖ If you prefer the command line

drush migrate-status

```
Dev-Mac:typo7 srijan$ drush migrate-status
```

Name	Total	Imported	Unimported	Status	Last imported
Typo3BeUser	10	10	0	Idle	2011-12-07 16:16:58
Typo3FeUser	2	0	2	Idle	2011-12-05 20:08:22
Typo3NewsCategory	7	7	0	Idle	2011-12-07 16:19:51
Typo3Pages	27	0	27	Idle	2011-12-04 12:51:24
Typo3News	10	0	10	Idle	2011-12-07 05:40:13

❖ If you prefer the command line..

```
Dev-Mac:typo7 srijan$ drush --filter=migrate
```

```
All commands in migrate: (migrate)
```

```
migrate-descriptions (md) View descriptions for a migration and all its mappings.
```

```
migrate-fields-destination (mfd) List the fields available for mapping in a destination.
```

```
migrate-fields-source (mfs) List the fields available for mapping from a source.
```

```
migrate-import (mi) Perform one or more migration processes
```

```
migrate-reset-status (mrs) Reset a active migration's status to idle
```

```
migrate-rollback (mr) Roll back the destination objects from a given migration
```

```
migrate-status (ms) List all migrations with current status.
```

```
migrate-stop (mst) Stop an active migration operation
```

```
migrate-wipe (mw) Delete all nodes from specified content types.
```

```
Dev-Mac:typo7 srijan$ drush migrate-import --help
Perform a given migration
```

Examples:

```
migrate-import Article           Import new articles
migrate-import Article --update  Import new items, and also update previously-imported items
migrate-import Article --idlist=4,9 Import two specific articles. The ids refer to the value of the primary key in base table
migrate-import Article --limit="60 seconds" --stop --rollback  Import for up to 60 seconds after stopping and rolling back the Article migration.
migrate-import User --feedback="1000 items"  Display a progress message every 1000 processed items or less
migrate-import --all=User              Perform User migrations and all that follow it.
```

Arguments:

```
migration      Name of migration(s) to import. Delimit multiple using commas.
```

Options:

```
--limit        Limit on the length of each migration process, expressed in seconds or number of items
--feedback     Frequency of progress messages, in seconds or items processed
--idlist       A comma delimited list of ids to import or rollback. If unspecified, migrate imports all pending items or rolls back all items for the content set.
--all          Process all migrations that come after the specified migration. If no value is supplied, all migrations are processed.
--instrument   Capture performance information (timer, memory, or all)
--force        Force an operation to run, even if all dependencies are not satisfied
--update       In addition to processing unimported items from the source, update previously-imported items with new data
--needs-update Reimport up to 10K records where needs_update=1. This option is only needed when your Drupal DB is on a different DB server from your source data. Otherwise, these records get migrated with just migrate-import.
--stop         Stop specified migration(s) if applicable.
--rollback     Rollback specified migration(s) if applicable.
--file_function Override file function to use when migrating images.
```

```
Aliases: mi
```



Migrating users

Home » Administration » Content

Migrate **CONTENT** COMMENTS MIGRATE

TYPO3 backend user migration

<input type="checkbox"/>	STATUS	MIGRATION	TOTAL ROWS	IMPORTED	UNIMPORTED	MESSAGES	THROUGHPUT	LAST IMPORTED
<input type="checkbox"/>	Idle	Typo3BeUser	10	0	10	0	329/min	2011-12-05 20:08:23
<input type="checkbox"/>	Idle	Typo3FeUser	2	0	2	0	350/min	2011-12-05 20:08:22
<input type="checkbox"/>	Idle	Typo3NewsCategory	7	0	7	0	2857/min	2011-12-05 20:08:22
<input type="checkbox"/>	Idle	Typo3Pages	27	0	27	0	2367/min	2011-12-04 12:51:24
<input type="checkbox"/>	Idle	Typo3News	10	10	0	0	679/min	2011-12-05 13:58:00

OPERATIONS

Import

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.
- 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.

Users Mapping

Typo3BeUser

Overview

Destination

3 unmapped. 15 mapped.

Source

3 unmapped. 6 mapped.

Mapping: Done

By priority: 7 OK.

Mapping: DNM

By priority: 7 OK.

DESTINATION	SOURCE	DEFAULT	DESCRIPTION	PRIORITY
name	username			OK
created	crdate			OK
mail	email	test@test.in		OK
pass	password	1234		OK
roles		2		OK
status	disable			OK
signature		be		OK

Running the migration

Home » Administration » Content

Migrate

CONTENT

COMMENTS

MIGRATE

<input type="checkbox"/>	STATUS	MIGRATION	TOTAL ROWS	IMPORTED	UNIMPORTED	MESSAGES	THROUGHPUT	LAST IMPORTED
<input checked="" type="checkbox"/>	Idle	Typo3BeUser	10	0	10	0	329/min	2011-12-05 20:08:23
<input type="checkbox"/>	Idle	Typo3FeUser	2	0	2	0	350/min	2011-12-05 20:08:22
<input type="checkbox"/>	Idle	Typo3NewsCategory	7	0	7	0	2857/min	2011-12-05 20:08:22
<input type="checkbox"/>	Idle	Typo3Pages	27	0	27	0	2367/min	2011-12-04 12:51:24
<input type="checkbox"/>	Idle	Typo3News	10	10	0	0	679/min	2011-12-05 13:58:00

OPERATIONS

- Import
- Rollback
- Stop
- Reset

Execute

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.
- 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.

❖ Running the migration ...

```
Dev-Mac:typo7 srijan$ drush migrate-import Typo3BeUser  
Processed 10 (10 created, 0 updated, 0 failed, 0 ignored) in 2.1 sec (284/min) - done with 'Typo3BeUser'
```

```
Dev-Mac:typo7 srijan$ drush migrate-rollback Typo3BeUser  
Rolled back 10 in 0.2 sec (3466/min) - done with 'Typo3BeUser'
```



Username:


admin					
advanced_editor					
benjamin					
boxer					
mrjones					
napoleon					
news_editor					
oldmajor					
simple_editor					
snowball					

<input type="checkbox"/>	USERNAME	STATUS	ROLES	MEMBER FOR	LAST ACCESS	OPERATIONS
<input type="checkbox"/>	benjamin	active		1 day 17 hours	never	edit
<input type="checkbox"/>	boxer	active		1 day 17 hours	never	edit
<input type="checkbox"/>	mrjones	active		1 day 17 hours	never	edit
<input type="checkbox"/>	snowball	active		1 day 17 hours	never	edit
<input type="checkbox"/>	napoleon	active		1 day 17 hours	never	edit
<input type="checkbox"/>	oldmajor	active		1 day 17 hours	never	edit
<input type="checkbox"/>	typo3_admin	active		2 days 17 hours	never	edit
<input type="checkbox"/>	admin	active	<ul style="list-style-type: none">administrator	1 month 5 days	7 sec ago	edit
<input type="checkbox"/>	news_editor	active		2 years 2 weeks	never	edit
<input type="checkbox"/>	advanced_editor	active		2 years 2 weeks	never	edit
<input type="checkbox"/>	simple_editor	active		2 years 2 weeks	never	edit

❖ Migrating tt_news content - typo3_news module

- Taxonomy - News Category
- Content type - News

[Home](#) » [Administration](#) » [Structure](#) » [Content types](#) » [News](#)

News 

EDIT










MANAGE FIELDS

MANAGE DISPLAY

COMMENT FIELDS

COMMENT DISPLAY

[Show row weights](#)

LABEL	NAME	FIELD	WIDGET	OPERATIONS	
 Title	title	Node module element			
 Body	body	Long text and summary	Text area with a summary	edit	delete
 News Category	news_category	Term reference	Autocomplete term widget (tagging)	edit	delete
 News Image	field_news_images	Image	Image	edit	delete
 News File	field_news_files	File	File	edit	delete
 News Sub Header	field_news_sub_header	Text	Text field	edit	delete
 News Author	field_news_author	Text	Text field	edit	delete
 Author Email	field_news_author_email	Text	Text field	edit	delete
 Related Articles	field_news_related_articles	Node reference	Autocomplete text field	edit	delete

News categories

Home » Administration » Content

Migrate

CONTENT COMMENTS MIGRATE

<input type="checkbox"/>	STATUS	MIGRATION	TOTAL ROWS	IMPORTED	UNIMPORTED	MESSAGES	THROUGHPUT	LAST IMPORTED
<input type="checkbox"/>	Idle	Typo3BeUser	10	10	0	0	477/min	2011-12-05 21:43:36
<input type="checkbox"/>	Idle	Typo3FeUser	2	0	2	0	350/min	2011-12-05 20:08:22
<input type="checkbox"/>	Idle	Typo3NewsCategory	7	0	7	0	1203/min	2011-12-05 22:52:42
<input type="checkbox"/>	Idle	Typo3Pages	27	0	27	0	2367/min	2011-12-04 12:51:24
<input type="checkbox"/>	Idle	Typo3News	10	10	0	0	679/min	2011-12-05 13:58:00

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.
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WEB

- Page
- View
- List
- Workspaces
- Info
- Access
- Functions
- Template

News Admin

FILE

- Filelist

USER TOOLS

- Task center
- User settings

ADMIN TOOLS

- User Admin
- Extension Manager
- DB check
- Configuration
- Install
- Log
- Indexing
- Reports
- Scheduler

HELP

- About TYPO3
- About Modules

New TYPO3 site

- Home
 - Welcome to TYPO3
 - About TYPO3
 - Features
 - Customizing TYPO3
 - Resources
 - Examples
 - Any language, any character
 - Examples of Rich Text
 - Headers
 - Text and images
 - Images with links
 - Image groups
 - Image effects
 - Tables
 - Frames
 - Lists
 - File downloads
 - Forms
 - News
 - Site map
 - Feedback
 -
 - Special pages
 - Generated content
 - News entries
 - Frontend users and groups
 - TypoScript Templates

Show news from: all pages Path: /Home/Examples/ News [23]

Language: Default

- Expand all
- Show hidden categories
- Show edit icons in tree

News categories [from all pages]

- Animal Farm
 - Equines
 - Humans
 - Pigs
 - General
 - Internal
 - Research

Please select a category

Search String: Show records: 15 Search

Page:	ID:	Title:	Date/Time:	Archive date:	Last change:	Category:	Author:
18	1	TYPO3 celebrates 20th anniversary	16-06-17 21:03	25-05-15 (3 yrs)	04-12-11 16:04	General	test
18	12	Benjamin	05-12-11 13:30	04-12-11 (-2 days)	05-12-11 13:46	Animal Farm; Equines	Orwell
18	11	Boxer	05-12-11 13:29	04-12-11 (-2 days)	05-12-11 13:43	Animal Farm; Equines	Orwell
18	10	Snowball	05-12-11 13:27	04-12-11 (-2 days)	05-12-11 13:44	Animal Farm; Pigs	Orwell
18	9	Napoleon	05-12-11 13:25	04-12-11 (-2 days)	05-12-11 13:44	Animal Farm; Pigs	Orwell
18	8	Old Major	05-12-11 12:35	04-12-11 (-2 days)	05-12-11 13:44	Animal Farm; Pigs	Orwell
18	7	Internal news item	21-06-10 14:46	25-05-15 (3 yrs)	21-06-10 14:53	Internal	
18	3	T3UXW09 - The first TYPO3 User eXperience Week	16-11-09 22:03	25-05-15 (3 yrs)	22-06-10 15:53	General	
18	2	The TYPO3 Association is founded	16-09-04 21:03	25-05-15 (3 yrs)	25-04-10 03:47	Research	
18	4	TYPO3 - An idea is born	22-02-97 22:03	25-05-15 (3 yrs)	04-12-11 16:03	General	example

Running the migration

Migrate

CONTENT

COMMENTS

MIGRATE

<input type="checkbox"/>	STATUS	MIGRATION	TOTAL ROWS	IMPORTED	UNIMPORTED	MESSAGES	THROUGHPUT	LAST IMPORTED
<input type="checkbox"/>	Idle	Typo3BeUser	10	10	0	0	448/min	2011-12-07 16:16:58
<input type="checkbox"/>	Idle	Typo3FeUser	2	0	2	0	350/min	2011-12-05 20:08:22
<input checked="" type="checkbox"/>	Idle	Typo3NewsCategory	7	0	7	0	685/min	2011-12-07 05:40:03
<input type="checkbox"/>	Idle	Typo3Pages	27	0	27	0	2367/min	2011-12-04 12:51:24
<input type="checkbox"/>	Idle	Typo3News	10	0	10	0	1253/min	2011-12-07 05:40:13

OPERATIONS

- Import
- Rollback
- Stop
- Reset

Execute

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.
- 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.

```
Dev-Mac:typo7 srijan$ drush mi Typo3NewsCategory
```

```
Processed 7 (7 created, 0 updated, 0 failed, 0 ignored) in 0.2 sec (2505/min) - done with 'Typo3NewsCategory' [completed]
```

Migrated Categories

Home » Administration » Structure » Taxonomy

News Category

LIST

EDIT




MANAGE FIELDS

MANAGE DISPLAY

You can reorganize the terms in *News Category* using their drag-and-drop handles, and group terms under a parent term by sliding them under and to the right of the parent.

[+ Add term](#)

[Show row weights](#)

NAME	OPERATIONS
 Animal Farm	edit
 Equines	edit
 Humans	edit
 Pigs	edit
 General	edit
 Internal	edit
 Research	edit

Save

Reset to alphabetical

News articles

Home » Administration » Content

Migrate ⊕ CONTENT COMMENTS MIGRATE

<input type="checkbox"/>	STATUS	MIGRATION	TOTAL ROWS	IMPORTED	UNIMPORTED	MESSAGES	THROUGHPUT	LAST IMPORTED
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OPERATIONS

Import

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News Mapping

 News Category used as destination field in mapping but not in list of destination fields

Overview

Destination

7 unmapped. 15 mapped.

Source

8 unmapped. 12 mapped.

Mapping: Done

By priority: 12 OK.

Mapping: DNM

By priority: 3 OK.

DESTINATION	SOURCE	DEFAULT	DESCRIPTION	PRIORITY
title	title		title => title	OK
field_news_sub_header	short		short => field_news_sub_header	OK
field_news_author	author			OK
field_news_author_email	author_email			OK
field_news_images	image			OK
field_news_files	news_files			OK
News Category	newstags			OK
field_news_related_articles	related_list			OK
uid	uid	1		OK
body	bodytext			OK
created	crdate			OK
changed	tstamp			OK



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- Info
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 - Headers
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Show news from: all pages Path: /Home/Examples/ News [23]

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- Expand all
- Show hidden categories
- Show edit icons in tree

Create new category

News categories [from all pages]

- Animal Farm
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- General
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Please select a category

Search String: Show records: 15 Search

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18	10	Snowball	05-12-11 13:27	04-12-11 (-2 days)	05-12-11 13:44	Animal Farm; Pigs	Orwell
1	9	Napoleon	05-12-11 13:25	04-12-11 (-2 days)	05-12-11 13:44	Animal Farm; Pigs	Orwell
18	8	Old Major	05-12-11 12:35	04-12-11 (-2 days)	05-12-11 13:44	Animal Farm; Pigs	Orwell
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18	4	TYPO3 - An idea is born	22-02-97 22:03	25-05-15 (3 yrs)	04-12-11 16:03	General	example

drush migrate-import Typo3News

Add content **Find content** Edit shortcuts

+ Add content

SHOW ONLY ITEMS WHERE

status Filter

type

UPDATE OPTIONS

Update

<input type="checkbox"/>	TITLE	TYPE	AUTHOR	STATUS	UPDATED	OPERATIONS
<input type="checkbox"/>	Benjamin new	News	admin	published	12/05/2011 - 13:46	edit delete
<input type="checkbox"/>	Old Major new	News	mrjones	published	12/05/2011 - 13:44	edit delete
<input type="checkbox"/>	Napoleon new	News	boxer	published	12/05/2011 - 13:44	edit delete
<input type="checkbox"/>	Snowball new	News	benjamin	published	12/05/2011 - 13:44	edit delete
<input type="checkbox"/>	Boxer new	News	admin	published	12/05/2011 - 13:43	edit delete
<input type="checkbox"/>	TYPO3 celebrates 20th anniversary new	News	typo3_admin	published	12/04/2011 - 16:04	edit delete
<input type="checkbox"/>	TYPO3 - An idea is born new	News	news_editor	published	12/04/2011 - 16:03	edit delete
<input type="checkbox"/>	T3UXW09 - The first TYPO3 User eXperience Week	News	advanced_editor	published	06/22/2010 - 15:53	edit delete
<input type="checkbox"/>	Internal news item	News	snowball	published	06/21/2010 - 14:53	edit delete
<input type="checkbox"/>	The TYPO3 Association is founded	News	simple_editor	published	04/25/2010 - 03:47	edit delete

Navigation

▶ [Add content](#)

Benjamin

[View](#) [Edit](#)

published by [admin](#) on Mon, 12/05/2011 - 13:30

News Image:



Benjamin is a character in [George Orwell's](#) novella *Animal Farm*. He is the oldest of the animals and is alive in the last scene of the novel. He is less straightforward than most characters in the novel and a number of interpretations have been put forward.

It has been suggested that he represents the aged population of [Russia](#), or that he represents the [Menshevik](#) intelligentsia: as intelligent, if not more so, than the novel's pigs. He is very cynical about the Revolution and life in general. For the most part he represents the skeptical people who believed that [Communism](#) would not help the people of Russia, but who did not criticize it fervently enough to lose their lives. He is also quite significant in that he is not quite a horse (the working peasantry) and yet definitely not a leader like the pigs, although his intellect is equal to theirs. The fact that he also has a Biblical name could also imply that he also represents the [Jewish](#) populace of Russia whose lives were not remotely improved under [Stalin's](#) leadership. In fact, when asked if he was happier post-Revolution than before the Revolution, he simply remarks, "Donkeys live a long time. None of you has ever seen a dead donkey."

He is one of the wisest animals on the farm, and is able to "read as well as any pig".
[1] However, this is an ability he does not exercise until the end of the book, when Boxer is sent off to the slaughterhouse, and on one other occasion when Clover asks him to read the public display of the Seven

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He is one of the wisest animals on the farm, and is able to "read as well as any pig".^[1] However, this is an ability he does not exercise until the end of the book, when [Boxer](#) is sent off to the slaughterhouse, and on one other occasion when [Clover](#) asks him to read the public display of the Seven Commandments, as they seem to have changed (because of years of revisions by the pigs); Benjamin reveals that the Commandments now consist entirely of the message "All animals are equal, but some animals are more equal than others". Despite his age, he is never given the option of retirement. The pigs' betrayal of [Boxer](#) makes him more cynical than ever.

Seen from a wider perspective, Benjamin is a symbol of intelligence that during the times of revolution and its aftermath is very much aware about what is going on, but does nothing about it. The general (manipulated) masses are represented by the sheep, who are not aware about their misuse, but it is Benjamin who can see how the basic rules of their society are changing and does not involve himself in any way that would threaten his security. He is also one of the most commonsensical characters, understanding that the pigs are altering the Seven Commandments, and that [Boxer](#) was killed instead of peacefully dying at a hospital.

In the [1954 film](#), it is Benjamin who leads the other animals in a counter-revolution against [Napoleon](#) when his treatment of them finally goes too far, although the [1999 film](#) simply features him fleeing the farm with some of the other animals when their treatment under [Napoleon's](#) regime becomes too harsh to endure any longer.

News Category:
[Animal Farm](#) [Equines](#)

News Author:
 Orwell

Related Articles:
[Boxer](#)

❖ Incremental Migration

- Highwater mark field.
- Schedule(via cron) regular updates.



Steps for defining migration

Fetch source data



uid	username	email	disable
7	snowball	snowball@example.com	0
5	oldmajor	major@example.com	0



Map

TYPO3	Drupal
uid	uid
username	name
email	mail



Prepare



Save



uid	name	mail	status
3	snowball	snowball@example.com	1
4	oldmajor	major@example.com	1



Lets have a look at the code

❖ Step 1: implement hook

Define your own module and let the migrate module know about it.

Implement `hook_migrate_api`

```
function mymodule_migrate_api() {  
    return array(  
        'api' => 2,  
    );  
}
```

❖ Step 2: define migration class

- Description
- Let migrate know about the source of your content
- Let migrate know about the destination type
- Map the source and destination fields
- Massage the data

❖ Step 2(contd)

```
class Typo3NewsMigration extends Migration {  
    public function __construct() {  
        parent::__construct();  
        ...  
    }  
    public function prepare(stdClass $node, stdClass $row) {  
        ...  
    }  
}
```

❖ Functions

- *public function __construct() {..}*
 - Define the destination type(node, user, comment etc)
 - Describe the source(database, xml etc.)
 - Field mappings
- (optional) *public function prepare(stdClass \$node, stdClass \$row) {..}*
 - Massage the data that was pulled in – clean up text, links etc.

❖ Step 2a: Give Description

- Class description
 - *`$this->description = t('News migration from TYPO3');`*
- Dependencies
 - *`$this->dependencies = array('Typo3NewsCategory');`*

...

❖ Step 2b: Setup source query

```
$query = db_select(TYPO3_DATABASE_NAME . '.tt_news', 'tn')  
    ->fields('tn', array('uid', 'crdate', 'tstamp', 'pid', 'title', 'hidden', 'short',  
        'bodytext', 'author', 'author_email', 'image', 'imagecaption', 'links',  
        'ext_url', 'news_files'))  
    ->fields('catmm', array('sorting', 'uid_foreign')));  
$query->condition('tn.deleted', '0');  
$query->leftJoin( TYPO3_DATABASE_NAME . '.tt_news_cat_mm', 'catmm',  
    'catmm.uid_local = tn.uid');  
$query->leftJoin( TYPO3_DATABASE_NAME . '.tt_news_cat', 'newscat',  
    'newscat.uid = catmm.uid_foreign');  
// Related news articles  
$query->leftJoin(TYPO3_DATABASE_NAME . '.tt_news_related_mm', 'relatedmm',  
    'relatedmm.uid_local = tn.uid');  
  
$query->orderBy('tn.tstamp', 'ASC');  
$query->groupBy('tn.uid');  
$query->addExpression('GROUP_CONCAT(newscat.title)', 'newstags');  
  
...  
$this->source = new MigrateSourceSQL($query);
```

NOTE: *\$query = Database::getConnection('for_typo3_migration', 'default');*

Overview

Destination

7 unmapped. 15 mapped.

Source

8 unmapped. 12 mapped.

Mapping: Done

By priority: 12 OK.

Mapping: DNM

By priority: 3 OK.

These are the fields available from the source of this migration. The machine names listed here are those available to be used as the second parameter to \$this->addFieldMapping() in your Migration class constructor. **Unmapped fields are red.**

Query

```
SELECT tn.uid AS uid, tn.crdate AS crdate, tn.tstamp AS tstamp, tn.pid AS pid, tn.title AS title, tn.hidden AS hidden, tn.short AS short, tn.bodytext AS bodytext, tn.author AS author, tn.author_email AS author_email, tn.image AS image, tn.imagecaption AS imagecaption, tn.links AS links, tn.ext_url AS ext_url, tn.news_files AS news_files, catmm.sorting AS sorting, catmm.uid_foreign AS uid_foreign, GROUP_CONCAT(newscat.title) AS newstags, GROUP_CONCAT(catmm.uid_foreign) AS cat_list, GROUP_CONCAT(distinct relatedmm.uid_foreign) AS related_list
FROM
{typo3.tt_news} tn
LEFT OUTER JOIN {typo3.tt_news_cat_mm} catmm ON catmm.uid_local = tn.uid
LEFT OUTER JOIN {typo3.tt_news_cat} newscat ON newscat.uid = catmm.uid_foreign
LEFT OUTER JOIN {typo3.tt_news_related_mm} relatedmm ON relatedmm.uid_local = tn.uid
WHERE (tn.deleted = :db_condition_placeholder_0)
GROUP BY tn.uid
ORDER BY tn.tstamp ASC
```


MACHINE NAME	DESCRIPTION
uid (PK)	tn.uid
crdate	tn.crdate
tstamp	tn.tstamp
pid	tn.pid
title	tn.title
hidden	tn.hidden
short	tn.short
bodytext	tn.bodytext
author	tn.author
author_email	tn.author_email
image	tn.image

❖ Step 2c: Map the Data

- Let the migrate module know the type of source
 - *`$this->source = new MigrateSourceSQL($query);`*
- Similarly provide the destination handler
 - *`$this->destination = new MigrateDestinationNode('news');`*

❖ Step 2d: Map the fields

- Field mappings take the form:
 - *`$this->addFieldMapping('destination_field_name', 'source_field_name');`*
- Can define default values
 - *`$this->addFieldMapping('language')`
`->defaultValue('en');`*

 News Category used as destination field in mapping but not in list of destination fields

Overview

Destination

7 unmapped. 15 mapped.

Source

8 unmapped. 12 mapped.

Mapping: Done

By priority: 12 OK.

Mapping: DNM

By priority: 3 OK.

DESTINATION	SOURCE	DEFAULT	DESCRIPTION	PRIORITY
title	title		title => title	OK
field_news_sub_header	short		short => field_news_sub_header	OK
field_news_author	author			OK
field_news_author_email	author_email			OK
field_news_images	image			OK
field_news_files	news_files			OK
News Category	newstags			OK
field_news_related_articles	related_list			OK
uid	uid	1		OK
body	bodytext			OK
created	crdate			OK
changed	tstamp			OK

❖ Step 3: Massage the data

- On its way to Drupal!

```
public function prepare(stdClass $node, stdClass $row){  
    $node->status = ($row->hidden) ? '0' : '1';  
    $node->body = $this->processLinkTag($node->body);  
}
```



Migrate Example

<input type="checkbox"/>	STATUS	MIGRATION	TOTAL ROWS	IMPORTED	UNIMPORTED	MESSAGES	THROUGHPUT	LAST IMPORTED
<input type="checkbox"/>	Idle	BeerTerm	3	0	3	0	2903/min	2011-11-01 15:27:37
<input type="checkbox"/>	Idle	BeerUser	4	0	4	0	300/min	2011-11-01 15:27:11
<input type="checkbox"/>	Idle	Typo3BeUser	10	10	0	0	448/min	2011-12-07 16:16:58
<input type="checkbox"/>	Idle	Typo3FeUser	2	0	2	0	350/min	2011-12-05 20:08:22
<input type="checkbox"/>	Idle	Typo3NewsCategory	7	7	0	0	2500/min	2011-12-07 16:19:51
<input type="checkbox"/>	Idle	Typo3Pages	27	0	27	0	2367/min	2011-12-04 12:51:24
<input type="checkbox"/>	Idle	BeerNode	3	0	3	0	1714/min	2011-11-01 15:52:16
<input type="checkbox"/>	Idle	Typo3News	10	0	10	0	1253/min	2011-12-07 05:40:13
<input type="checkbox"/>	Idle	BeerComment	5	0	5	0	Unknown	
<input type="checkbox"/>	Idle	WinePrep	N/A	N/A	N/A	N/A	Unknown	
<input type="checkbox"/>	Idle	WineRegion	12	0	12	0	Unknown	
<input type="checkbox"/>	Idle	WineVariety	8	0	8	0	Unknown	
<input type="checkbox"/>	Idle	WineBestWith	3	0	3	0	Unknown	
<input type="checkbox"/>	Idle	WineFile	1	0	1	0	Unknown	
<input type="checkbox"/>	Idle	WineRole	2	0	2	0	Unknown	
<input type="checkbox"/>	Idle	WineUser	3	0	3	0	Unknown	
<input type="checkbox"/>	Idle	WineProducer	2	0	2	0	Unknown	
<input type="checkbox"/>	Idle	WineProducerMultiXML	2	0	2	0	Unknown	
<input type="checkbox"/>	Idle	WineProducerXML	1	0	1	0	Unknown	
<input type="checkbox"/>	Idle	WineWine	2	0	2	0	Unknown	
<input type="checkbox"/>	Idle	WineComment	5	0	5	0	Unknown	
<input type="checkbox"/>	Idle	WineFinish	N/A	N/A	N/A	N/A	Unknown	

❖ Resources

Download and install the modules

- <http://drupal.org/project/migrate>
- http://drupal.org/project/TYPO3_migrate