

MIGRATE ALL THE THINGS!

Better Drupal workflows, using Migrate

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@vasi on drupal.org, github



Our **expertise**, your digital DNA | evolvingweb.ca | [@evolvingweb](https://twitter.com/evolvingweb)

ABOUT ME

- Doing Drupal since 2008
- Love open source and the Drupal community
- Contributor to Migrate in core (eg: multilingual nodes in D6 → D8 upgrades)

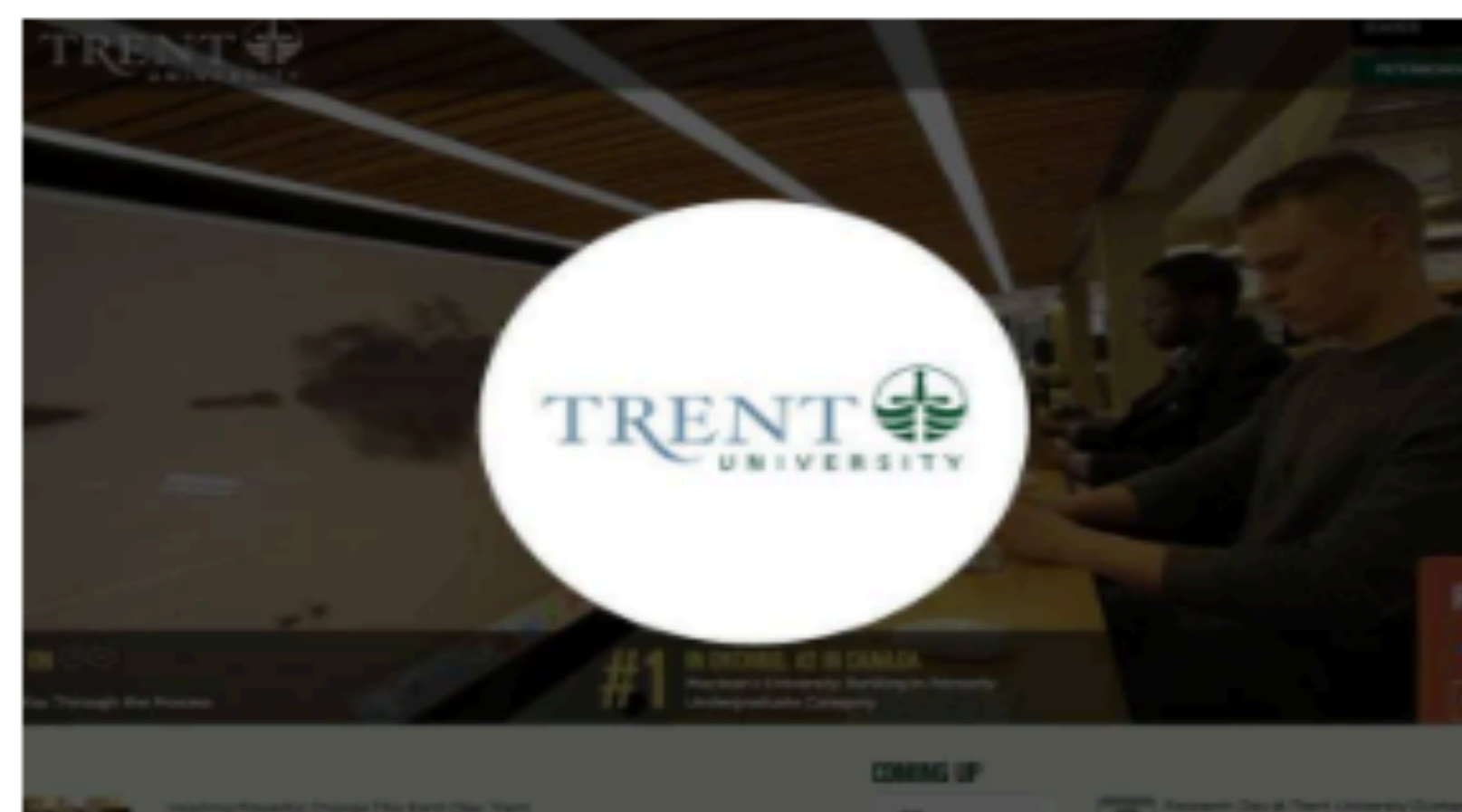
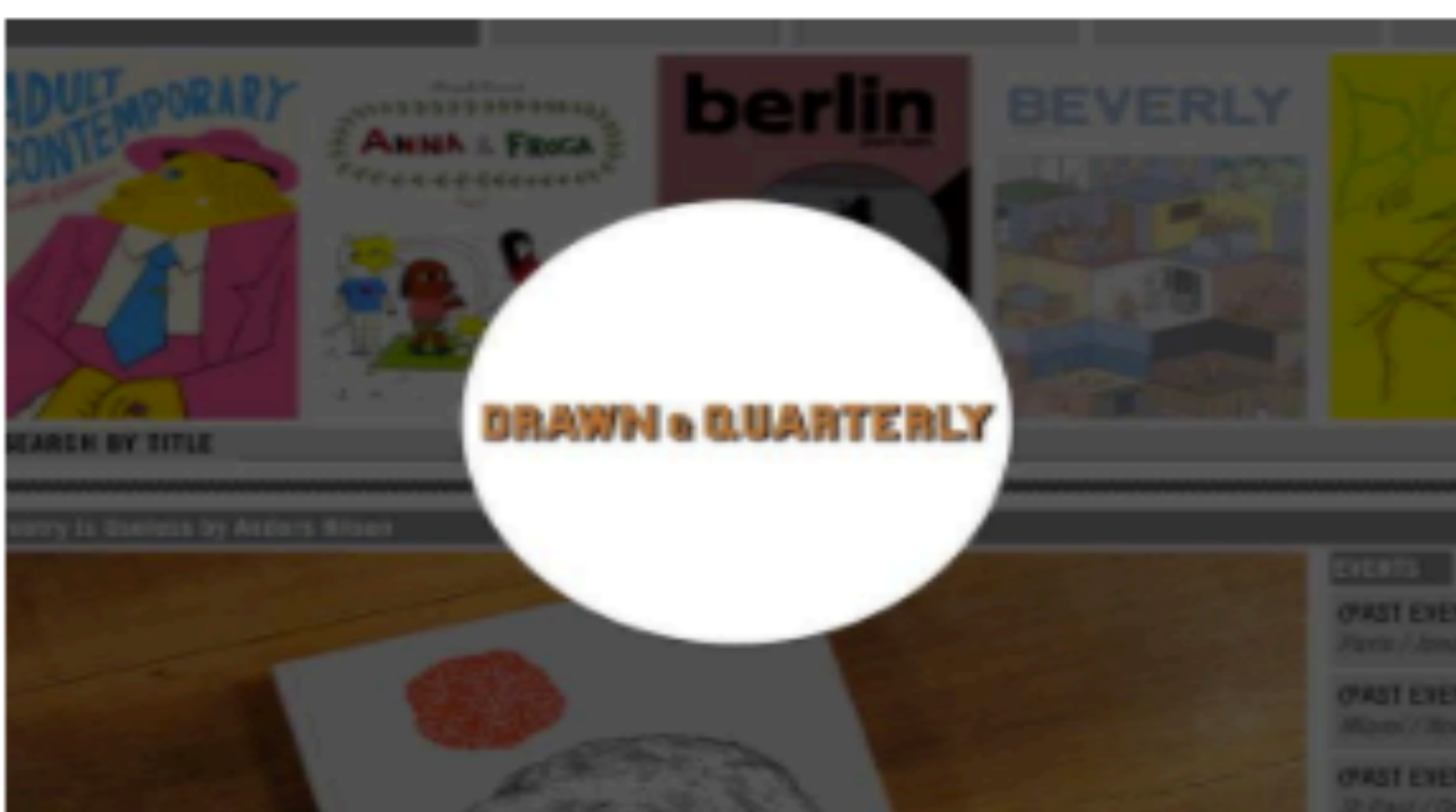
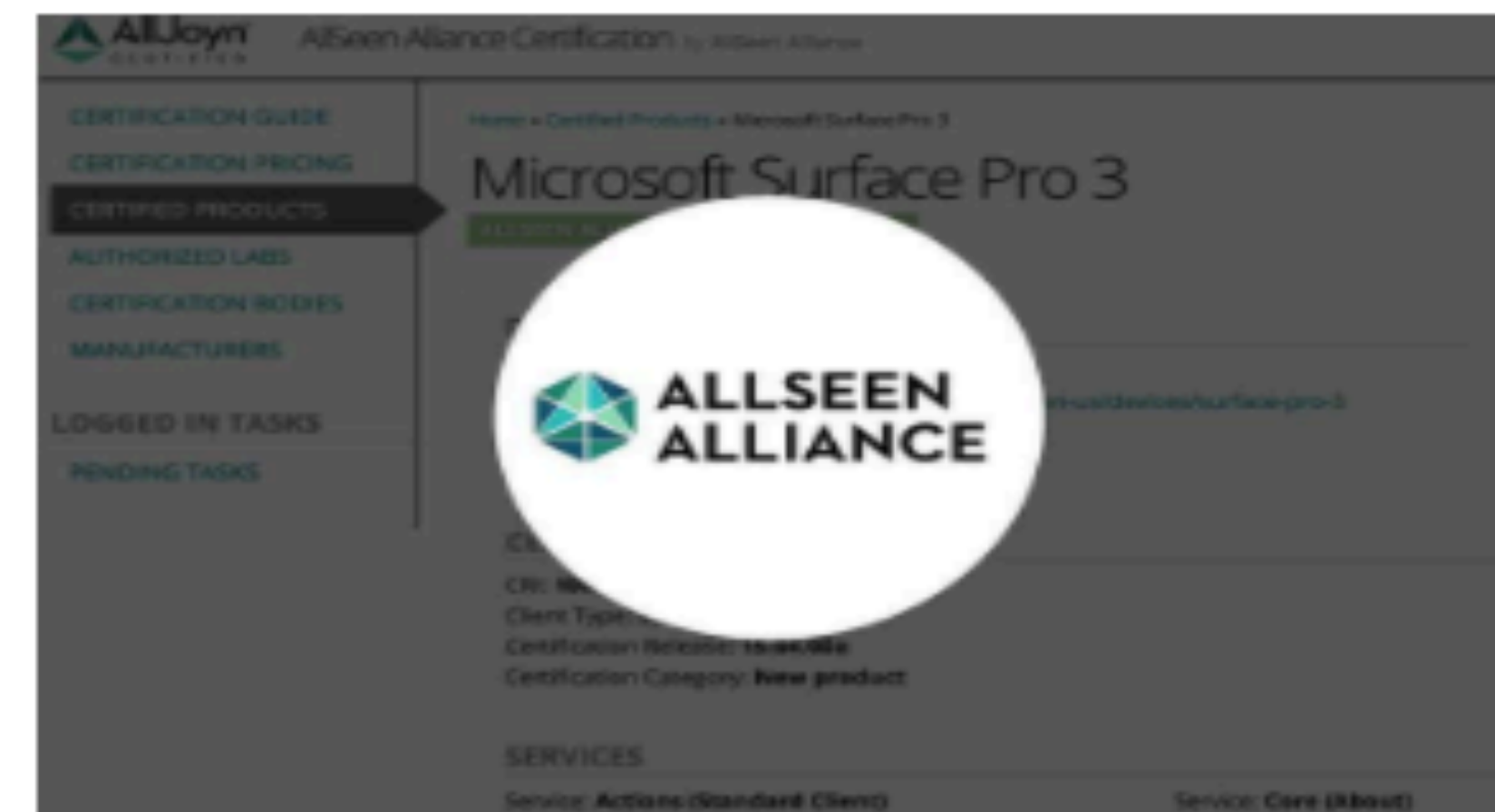
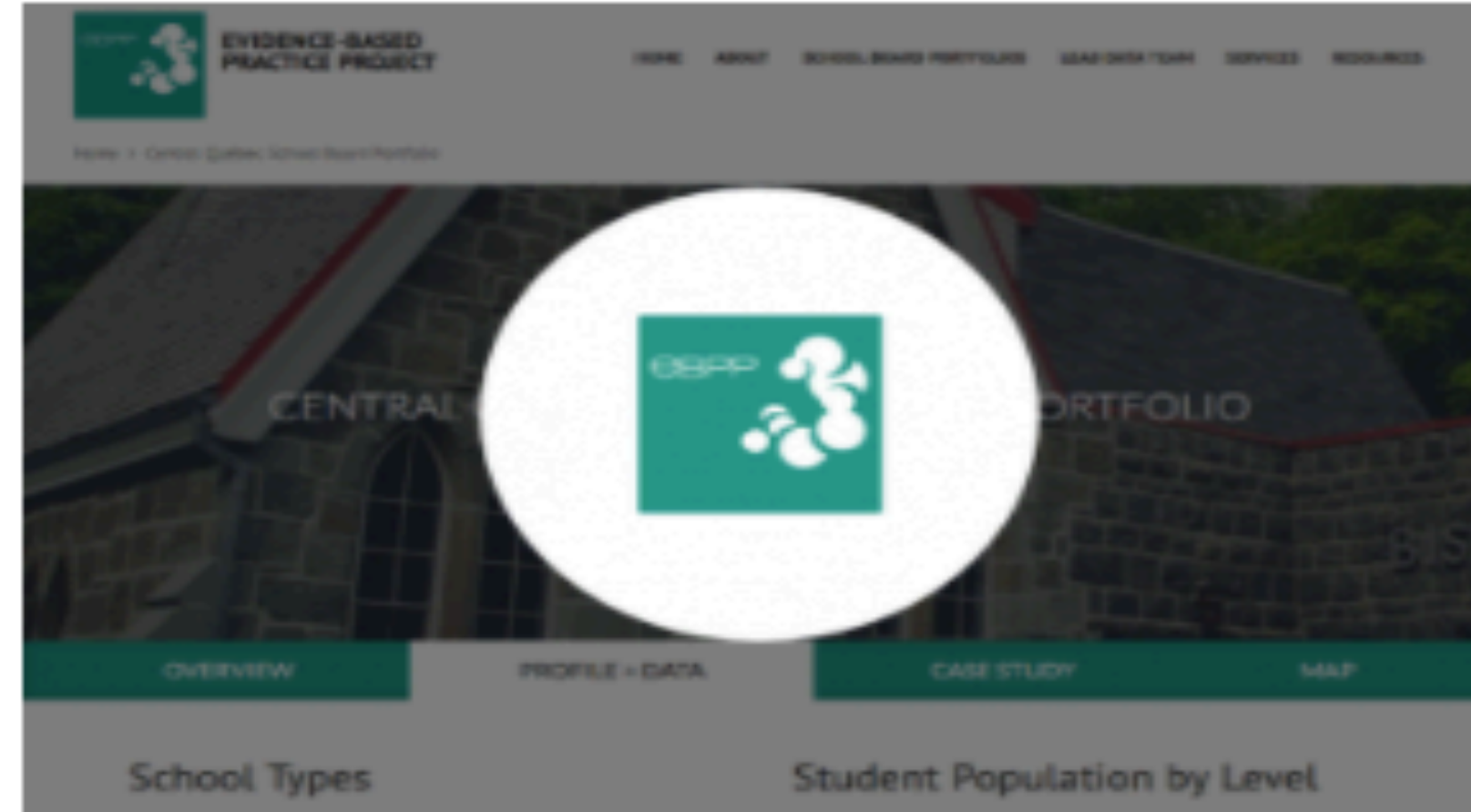


<http://evolvingweb.ca>

- Drupal development, consulting and training since 2007
- Based in Montreal, clients all over Canada and USA
- Very involved in the Drupal community

Our specialties

Multilingual	Solr search	Testing
Custom Drupal applications	Responsive themes	and of course... Migrate



ONCE UPON A TIME...

ONCE UPON A TIME...

“We’re going to save some money. You just build the site—we’ll add all the content ourselves.”

- The Client

ONCE UPON A TIME...

A beautiful site, only missing content



ONCE UPON A TIME...

A beautiful site, only missing content

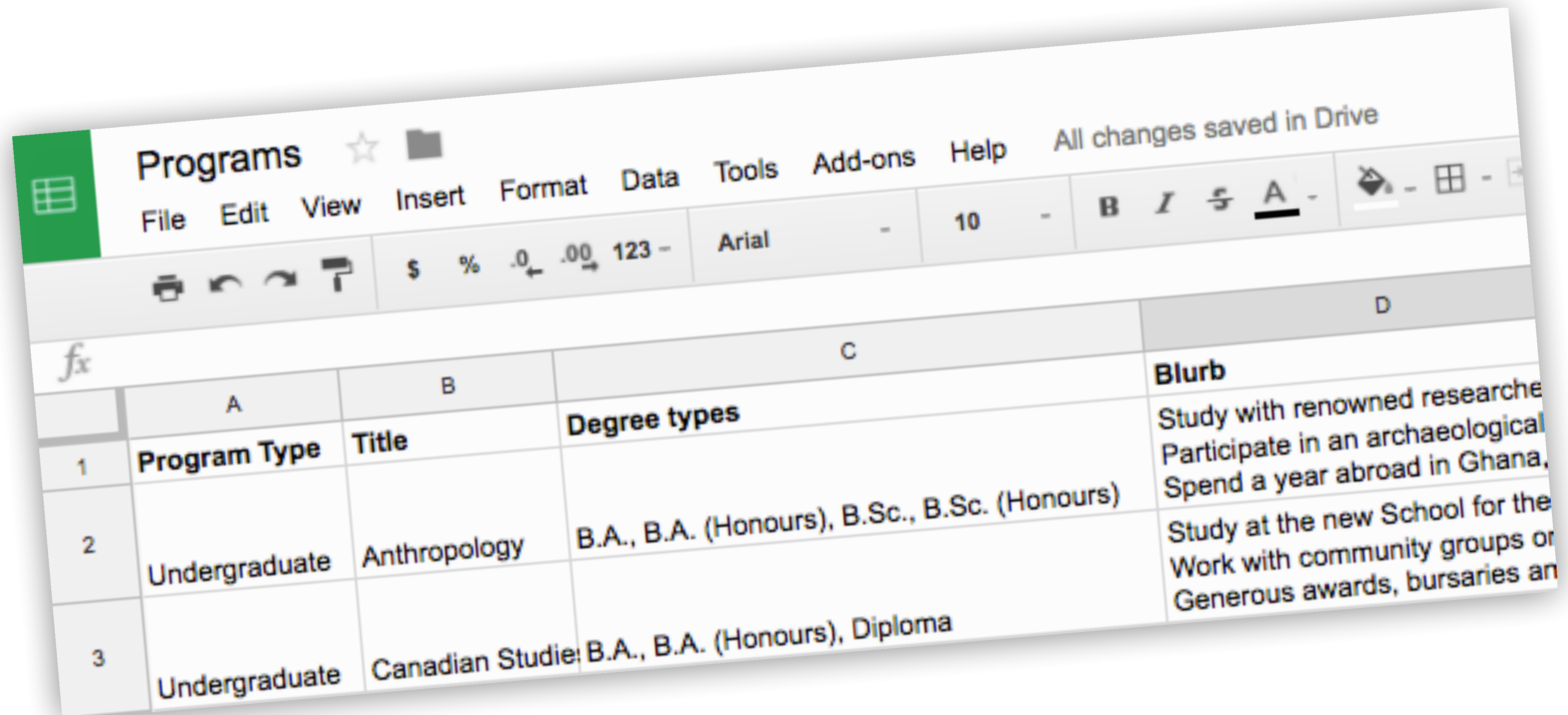


ONCE UPON A TIME...

So many things can go wrong!

- Bodies that are only images or tables
- Relationships or tags that weren't identified
- Much shorter or longer text than expected
- Many more or fewer nodes than expected

EX: TRENT UNIVERSITY



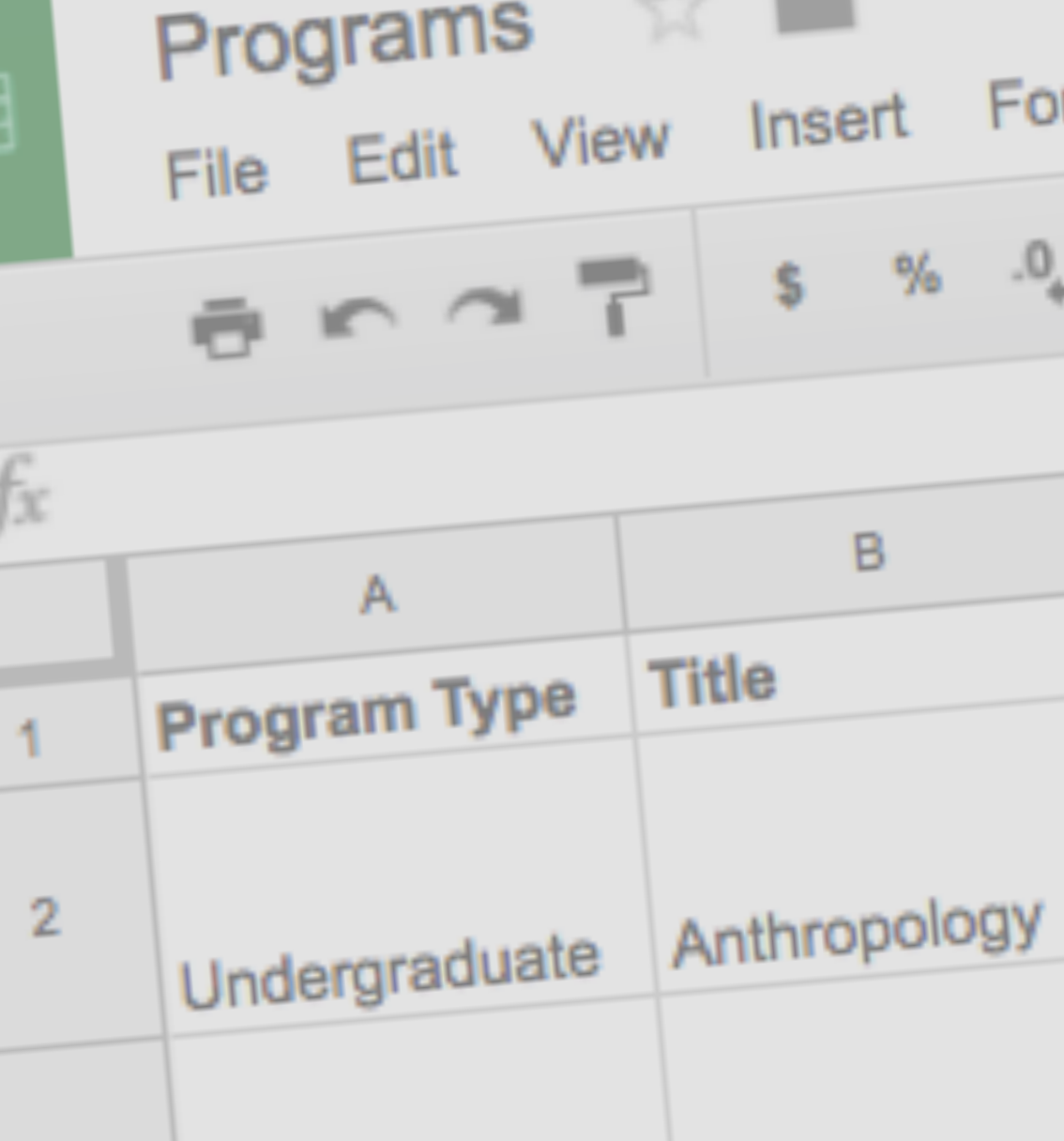
Programs

File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive

fx

	A	B	C	D
1	Program Type	Title	Degree types	Blurb
2	Undergraduate	Anthropology	B.A., B.A. (Honours), B.Sc., B.Sc. (Honours)	Study with renowned researchers Participate in an archaeological Spend a year abroad in Ghana,
3	Undergraduate	Canadian Studies	B.A., B.A. (Honours), Diploma	Study at the new School for the Work with community groups or Generous awards, bursaries and

EX: TRENT UNIVERSITY



The screenshot shows a spreadsheet application window titled "Programs". The menu bar includes "File", "Edit", "View", "Insert", and "Format". The toolbar contains icons for printing, undo, redo, and a text tool, along with currency and percentage formatting options. The spreadsheet has a header row with columns A and B. The data rows are numbered 1, 2, and 3. Row 1 contains "Program Type" and "Title". Row 2 contains "Undergraduate" and "Anthropology". Row 3 contains "Undergraduate" and "Canadian Studies".

	A	B
1	Program Type	Title
2	Undergraduate	Anthropology
3	Undergraduate	Canadian Studies

The image is a screenshot of a university website for the Anthropology program. The top navigation bar is dark green with white text for 'UNDERGRADUATE', 'FUTURE STUDENTS', 'PROGRAMS', 'REQUIREMENTS', 'TUITION & AWARDS', 'UNIVERSITY LIFE', and 'APPLICANTS'. Below this is a breadcrumb trail: 'HOME / FUTURE STUDENTS / UNDERGRADUATE / PROGRAMS / ANTHROPOLOGY'. The main heading 'Anthropology' is in a large, dark green font. To the left is a photograph of an archaeological excavation site with stone walls and a person standing for scale. To the right is a paragraph of text defining anthropology. Below the text is a list of degree types. On the right side of the page are several teal and orange buttons with icons and text: 'ANTHROPOLOGY FACULTY', 'ANTHROPOLOGY WEBSITE PETERBOROUGH | DURHAM', 'APPLY NOW', 'OPEN HOUSE, TOURS & EVENTS', and 'OUR 2017 VIEWBOOK'. At the bottom left, there is a green banner with the text 'THE TRENT ADVANTAGE'.

A SOLUTION

- Force client to actually write content quickly, improves likelihood of launch on-time
- Client can use tools they know, even without Drupal training
- Can check if IA is correct, and adjust before it's too late
- Each developer can import data on their own computer

MIGRATE?

- Yes, it's about migrate. So what's migrate?

MIGRATE?

- Yes, it's about migrate. So what's migrate?
- A system that allows importing structured data into Drupal, usually as entities: nodes, users, terms...
- Data can come from many different places: DB, CSV, XML...
- Very extensible
- Included in Drupal 8 core (experimental)
- What is migrate **not**?

MIGRATE?

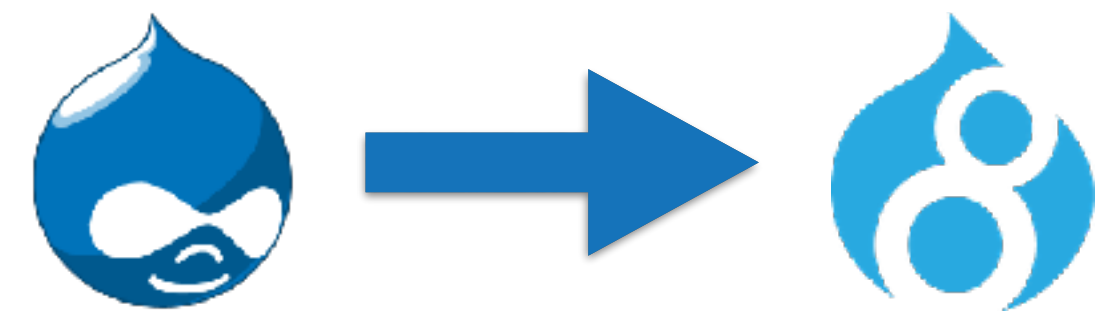
- There's already lots of info about what migrations are, how to write a migration:
- Michael Anello at DCNJ 2017: <http://tiny.cc/ultimikeMigrate>
- Evolving Web blog series: <http://tiny.cc/ewMigrate>
- These aren't the focus of the talk

MIGRATE?



- This talk isn't just about **how to start**. More about **why and when**.
- Common impression is that migrate is only for:

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MIGRATE?

- But there are also many **new content workflows** that migrate enables
- So don't just migrate things that feel like migrations—migrate **all the things**

MIGRATE?

- But there are also many **new content workflows** that migrate enables
- So don't just migrate things that feel like migrations—migrate **all many of the things**

WORKFLOW: CONTENT FIRST

Implementation



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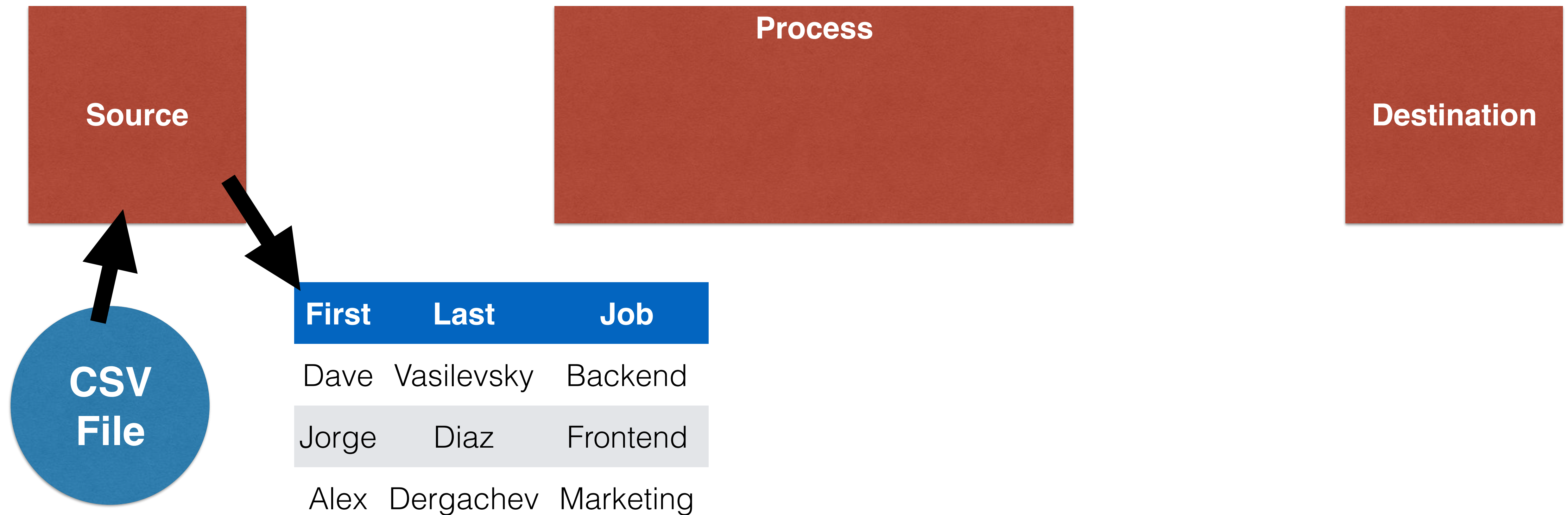
THE PARTS OF MIGRATE

Source

Process

Destination

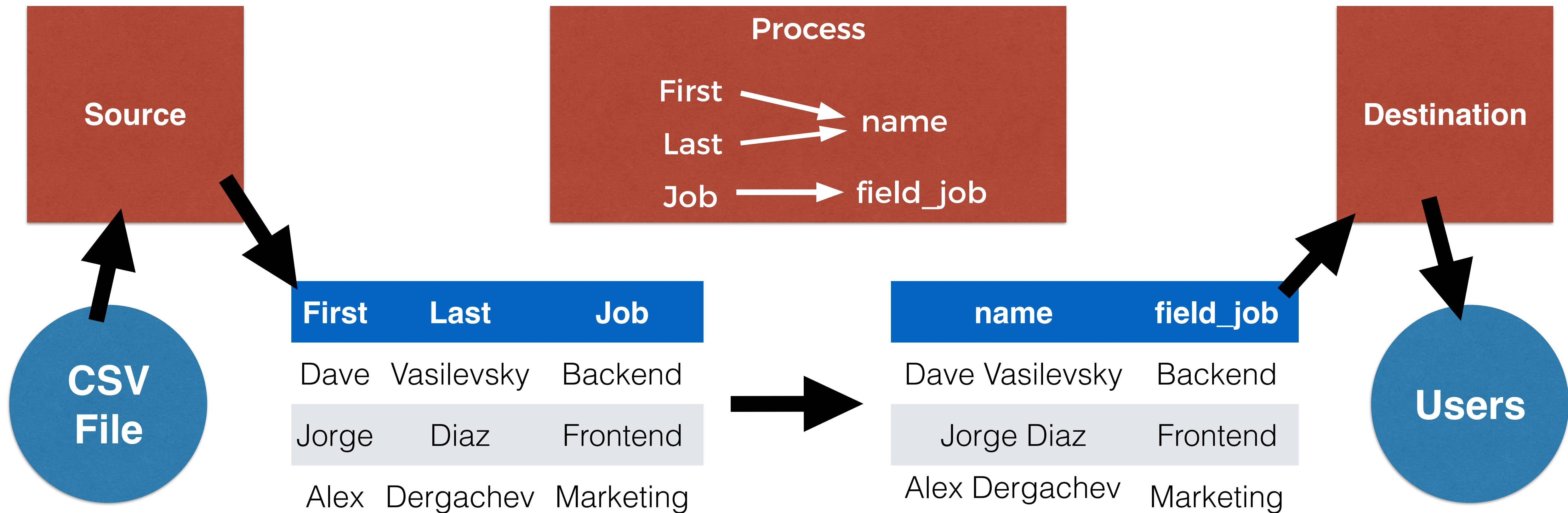
THE PARTS OF MIGRATE



THE PARTS OF MIGRATE



THE PARTS OF MIGRATE



THE PARTS OF MIGRATE

Contrib modules

- `migrate_plus`: Allows a migration to be defined with YAML config file
 - 'Migration': Definition of source + process + destination
- `migrate_tools`: Allows running migrations using drush

test.csv

Title	Body
About	Evolving Web...
Careers	If you're interested...
Projects	We work with...

migrate_plus.migration.test.yml

```
id: test
label: Test CSV migration
source:
  plugin: csv
  path: public://test.csv
  header_row_count: 1
  keys: [Title]
destination:
  plugin: entity:node
  default_bundle: page
process:
  title: Title
  body: Body
```


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A SOLUTION

What we gain

- Force client to actually write content quickly, improves likelihood of launch on-time
- Client can use tools they know, even without Drupal training
- Can check if IA is correct, and adjust before it's too late
- Each developer can import data on their own computer. No database sharing!

WORKFLOW: CONTENT FIRST

⚠ **DANGER** ⚠

- Only migrate when it's worth it
- Spreadsheets are too simple
 - Images are hard
 - Related content is hard

WORKFLOW: CONTENT FIRST, IN DRUPAL

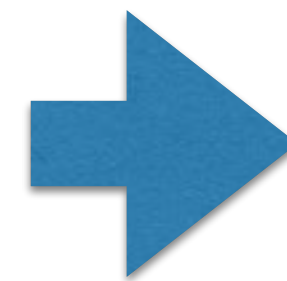
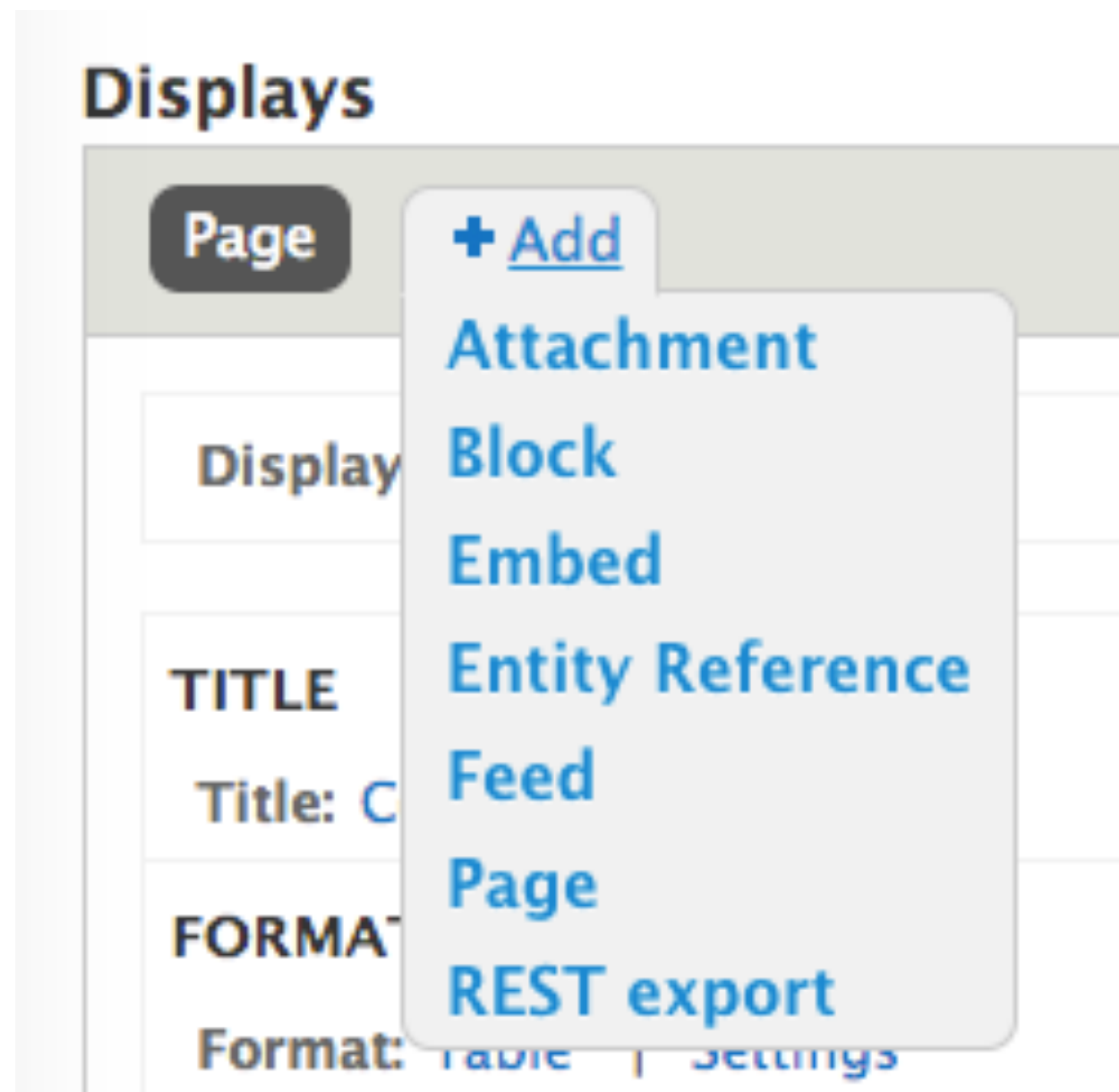
- Drupal has great content management UI
 - Rich text editor
 - Images
 - References
- Don't need complete theme and behaviour to create content, just content type definitions

WORKFLOW: CONTENT FIRST, IN DRUPAL

- Provide client a content staging site
- They can build all the content there
- Migrate it into Drupal, just like before
 - Same advantages of “Content first” workflow

WORKFLOW: CONTENT FIRST, IN DRUPAL

REST module to export content as JSON



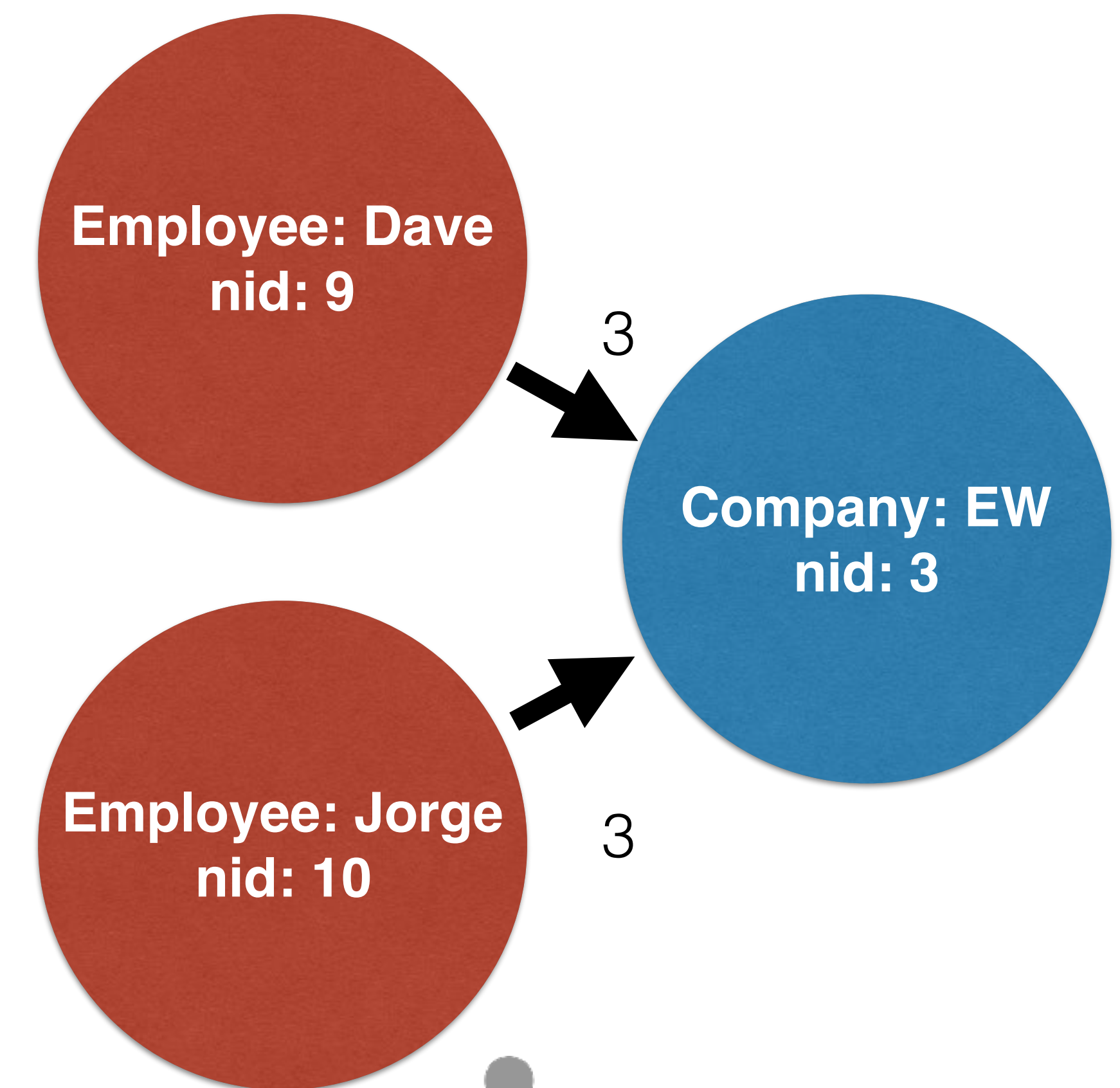
```
[
  {
    "title": "My node",
    "path": "/node/1",
    "body": "<p>This is a
sample node.</p>\n"
  },
  {
    "title": "Another node",
    ...
  },
  ...
]
```

WORKFLOW: CONTENT FIRST, IN DRUPAL

Relationships

Company
Evolving Web
IBM
Apple

User	Company
Dave	Evolving Web
Jorge	Evolving Web



WORKFLOW: CONTENT FIRST, IN DRUPAL

Relationships

- Migrate supports more complex mappings: “process plugins”
- There’s a list of ones in core:
<https://www.drupal.org/docs/8/api/migrate-api/migrate-process>

```
process:  
  field_name:  
    plugin: concat  
    delimiter: " "  
    source:  
      - firstname  
      - lastname
```

WORKFLOW: CONTENT FIRST, IN DRUPAL

Relationships


Company
Evolving Web
IBM
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```
process:  
  field_employer:  
    plugin: migration  
    source: employer  
    migration: companies
```

EX: EVOLVING WEB SITE


Project Screenshot












Alternative text *

GAP screenshot


This text will be used by screen readers, search engines, or when the image cannot be loaded.

 review-page.png (57.8 KB) Remove

Pre-image body (Edit summary)

B **I** **S** x^2 x_2 I_x         

Format



Source

from each department, rather than programmers, could update the application form. They also wanted to move the entire process to a web-based reference forms and evaluation system currently in place.

Why Drupal?

McGill is in the process of moving a large number of its web properties to Drupal, including their homepage [McGill.ca](#). McGill is basically a bilingual institution. The application portal needed to support both English and French. Drupal 7 has improved support for making it a great fit to meet this requirement. The university also wanted to allow administrators as much control as possible over the form would be complex, the interface for updating it would have to be relatively simple. Drupal excels in flexibility and the amount of control administrators. Drupal + Universities = Great! As more and more universities are using Drupal, it makes sense for an organization to put all their eggs behind the tool.

Text format

Full HTML

EX: EVOLVING WEB SITE

Project Screenshot

Graduate Application Form

Alternative text *

GAP screenshot

This text will be used

review-page.php

Pre-image body (

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from each department
based reference for

Why Drupal?

McGill is in the p
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Text format F


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courses Projects About Us Blog Contact Us

FAQ

Graduate Admissions Portal

Project Thumbnail




Project description

We overhauled the online admissions process to make it easier for users to apply to grad school.

The Challenge

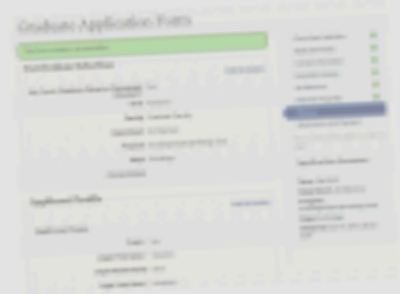
University admissions are complicated, especially when requirements vary based on program, and a lot of administrators and professors. McGill University has a complex application process. McGill University wanted to move its graduate admissions platform to Drupal and was looking for a more flexible system, where content could be updated by administrators rather than programmers, could update the site.

Project Hero



EX: EVOLVING WEB SITE

Project Screenshot



Alternative text *

GAP screenshot

This text will be used

review-page.pn

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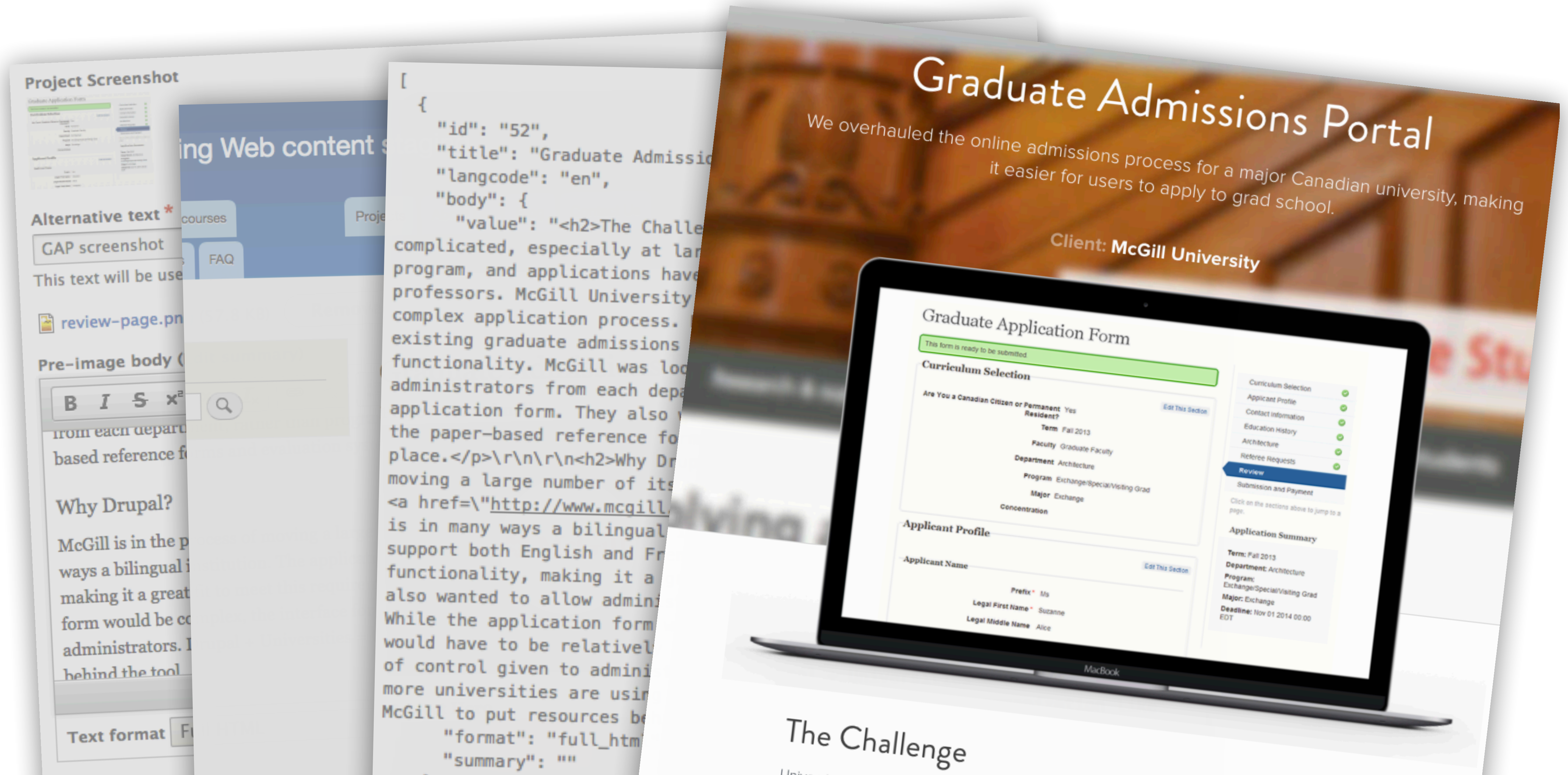
courses

Proje

FAQ

```
[
{
  "id": "52",
  "title": "Graduate Admissions Portal",
  "langcode": "en",
  "body": {
    "value": "<h2>The Challenge</h2>\r\n\r\n<p>University admissions are
complicated, especially at large institutions where requirements vary based on
program, and applications have to be assessed by a range of administrators and
professors. McGill University is such a large institution, and they have a
complex application process. McGill came to us looking to convert their
existing graduate admissions platform to Drupal and improve some of its
functionality. McGill was looking for a more flexible system, where
administrators from each department, rather than programmers, could update the
application form. They also wanted to move the entire process online, removing
the paper-based reference forms and evaluation system currently in
place.</p>\r\n\r\n<h2>Why Drupal?</h2>\r\n\r\n<p>McGill is in the process of
moving a large number of its web properties to Drupal, including their homepage
<a href=\"http://www.mcgill.ca\">McGill.ca</a>. McGill is based in Quebec and
is in many ways a bilingual institution. The application portal needed to
support both English and French. Drupal 7 has improved support for multilingual
functionality, making it a great fit to meet this requirement. The university
also wanted to allow administrators as much control as possible over the site.
While the application form would be complex, the interface for updating it
would have to be relatively simple. Drupal excels in flexibility and the amount
of control given to administrators. Drupal + Universities = Great! As more and
more universities are using Drupal, it makes sense for an organization like
McGill to put resources behind the tool.</p>\r\n\r\n<ul>\r\n</ul>\r\n",
    "format": "full_html",
    "summary": ""
  }
}
```


EX: EVOLVING WEB SITE



WORKFLOW: CONTENT FIRST, IN DRUPAL

What we gain

- Users can gather complex content, early
- Use polished Drupal UI to do so

WORKFLOW: CONTENT FIRST, IN DRUPAL

Complications

- Authentication: `Shield + migrate_plus`
- Translations: Two migrations
- No built-in export: Menus, custom blocks

WORKFLOW: CONTENT FIRST, IN DRUPAL

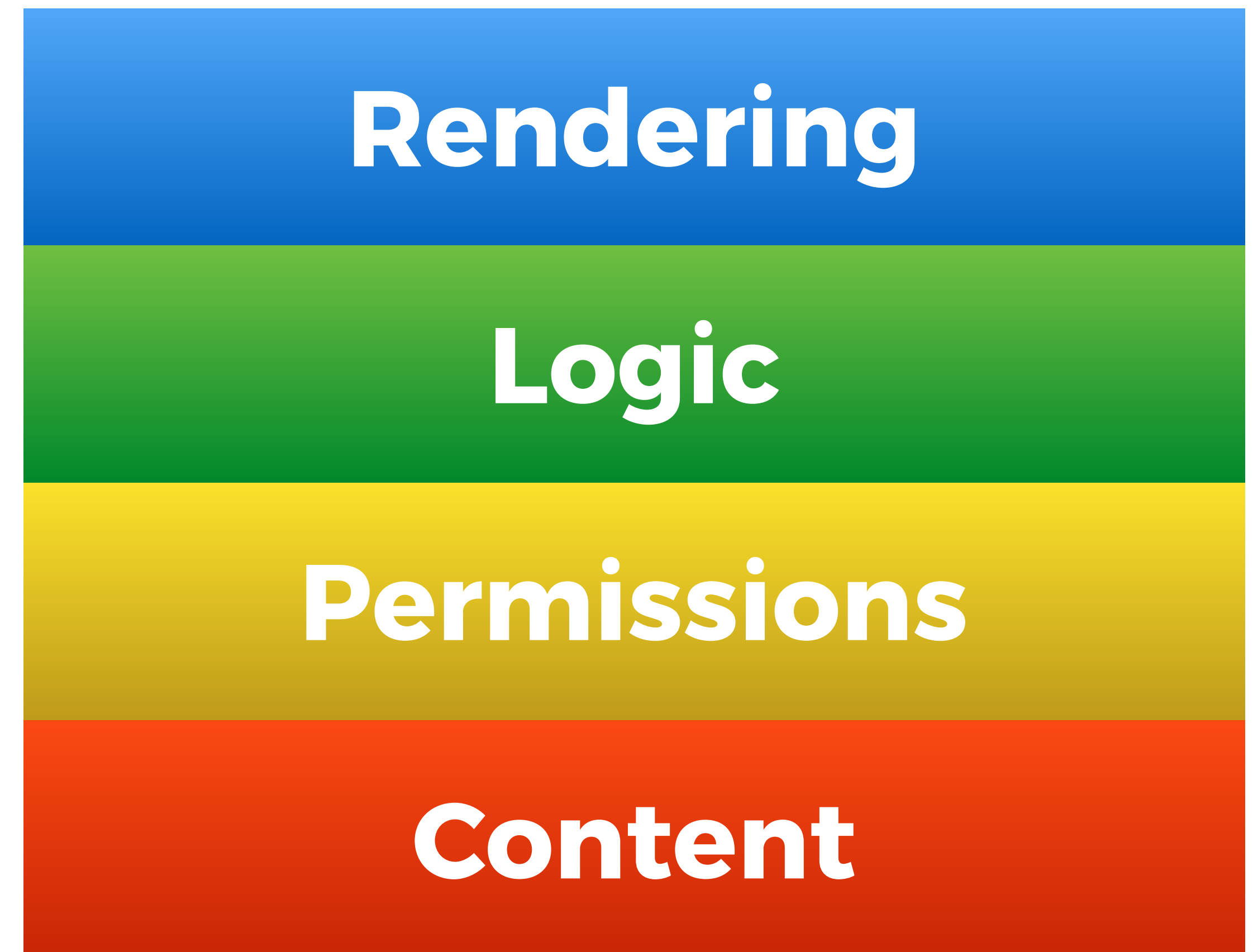
⚠ **DANGER** ⚠

- Site doesn't look pretty
- Once the IA is nailed down—stop!

WORKFLOW: MIRROR

- External tool may be better than Drupal for managing certain content. Eg:
 - Membership management system
 - Image management systems
 - Tools specific to data type, like course catalog
- Manage data with external system
- Keep Drupal in sync

WORKFLOW: MIRROR



WORKFLOW: MIRROR



WORKFLOW: MIRROR

**Headless
Drupal**

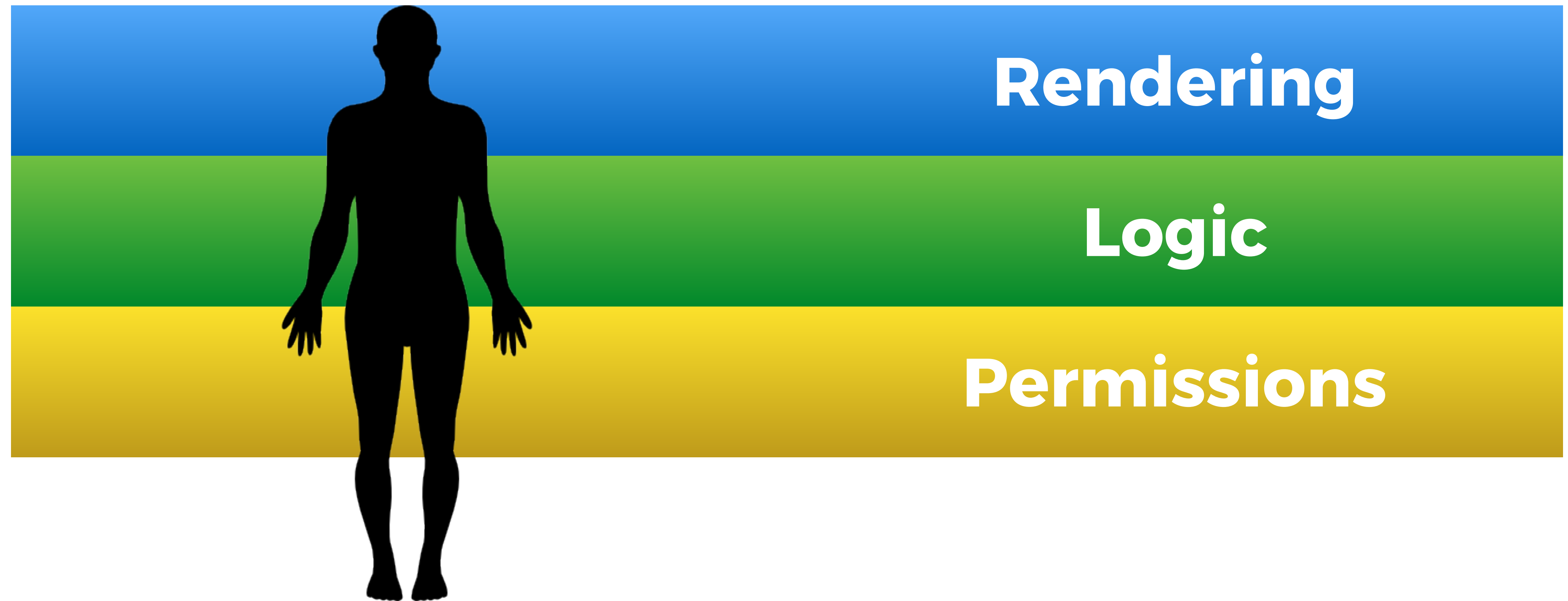


Logic

Permissions

Content

WORKFLOW: MIRROR



WORKFLOW: MIRROR




**Footless
Drupal?**

EX: COUNCIL FOR RESPONSIBLE NUTRITION

User import ☆

CSV file to import *

 `crn-user-import.csv`

One file only.
Allowed types: csv.


Remove

Submit

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 crn-user-import.csv

One file only.
Allowed types: csv.


Submit

Remove

User import ☆

✓ 3 users created
9 users blocked

CSV file to import *

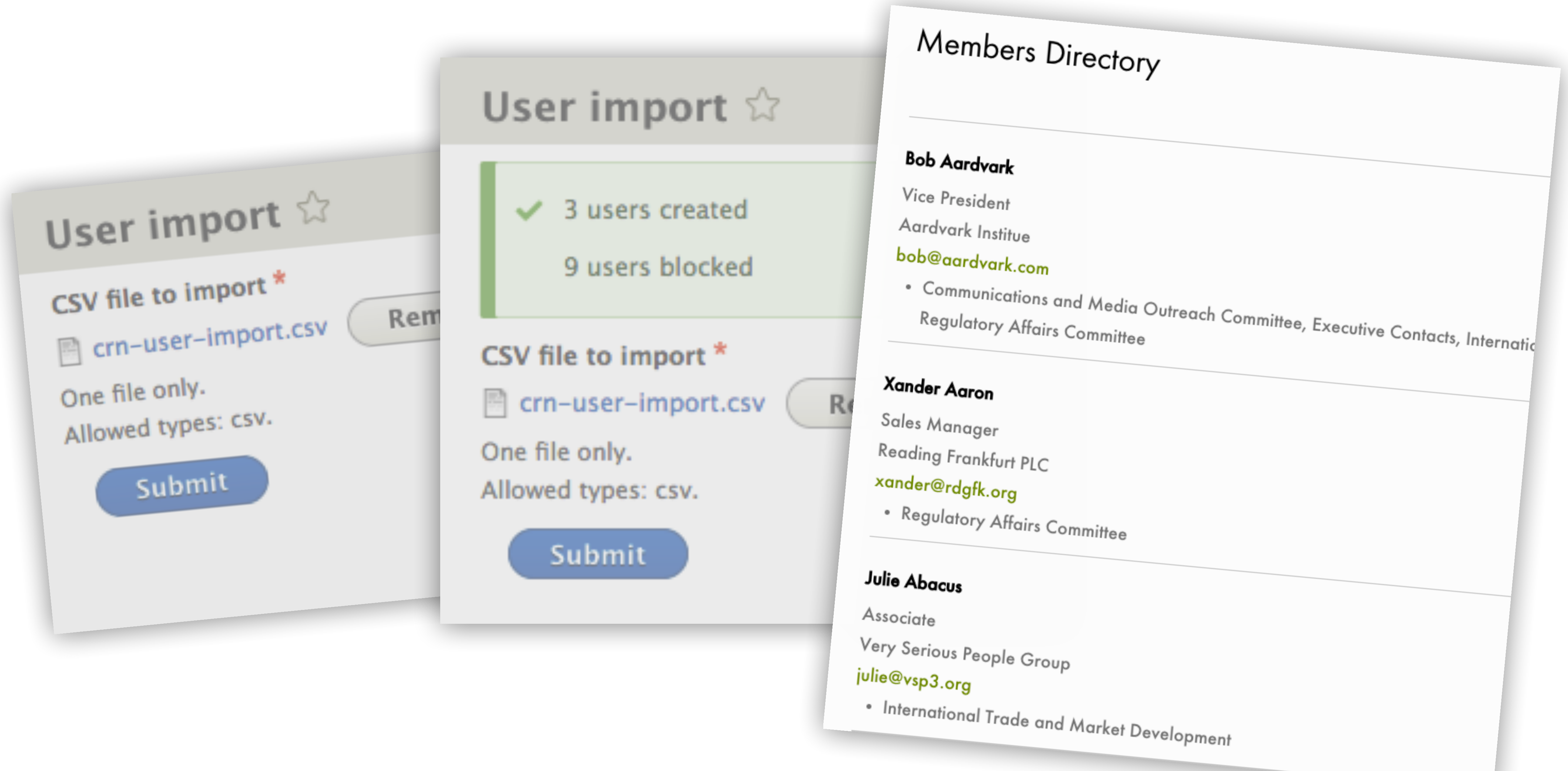
 crn-user-import.csv

One file only.
Allowed types: csv.

Submit

Remove

EX: COUNCIL FOR RESPONSIBLE NUTRITION



WORKFLOW: MIRROR

Recurring migrations

- Update what's changed, and only what's changed
- Delete entities that are no longer in source
- Trigger without drush
- Make it hard to make mistakes

WORKFLOW: MIRROR

- Only update what's changed: incremental migration

```
source:  
  track_changes: true
```


WORKFLOW: MIRROR

Triggering migrations without drush

- Trigger on cron, or via UI

```
$migration_manager = \Drupal::service('plugin.manager.config_entity_migration');  
$migration = $migration_manager->createInstance('my_migration');  
$executable = new MigrateExecutable($migration, new MigrateMessage());  
$executable->import();
```

WORKFLOW: MIRROR

Dynamic source

- If users are uploading data files, we need to tell migrate about them.

```
$path = $form_state->getValue(['source', 0])->getFileUri();  
  
$source = $migration->getSourceConfiguration();  
$source['path'] = $path;  
$migration->set('source', $source);
```

WORKFLOW: MIRROR

- Users want to know what's about to happen, check if it's expected
- We can look at the Migrate source object, and check what's new/updated/deleted: <http://tiny.cc/migrateDryRun>

```
term$ drush scr dry_run.php  
UPDATED: 2  
UPDATED: 4  
NEW: 5  
DELETED: 3
```

WORKFLOW: MIRROR

Delete

- In core, migrate will never delete items that have been removed from source.
- But now we know what needs deletion, so we can add a hook to do that too.
- **BE CAREFUL!** Validate your data

WORKFLOW: MIRROR

Debugging

- `migrate_devel` module will print every row before migrating it
- Look at `migrate_map_foo` and `migrate_message_foo` DB tables
- Use XDebug and step through!

WORKFLOW: MIRROR

What we gain

- Use the right tool for the right job: Data can live in external tool if it's better for the job
- Don't need to write any weird integrations (eg: `external_entities`)

WORKFLOW: MIRROR

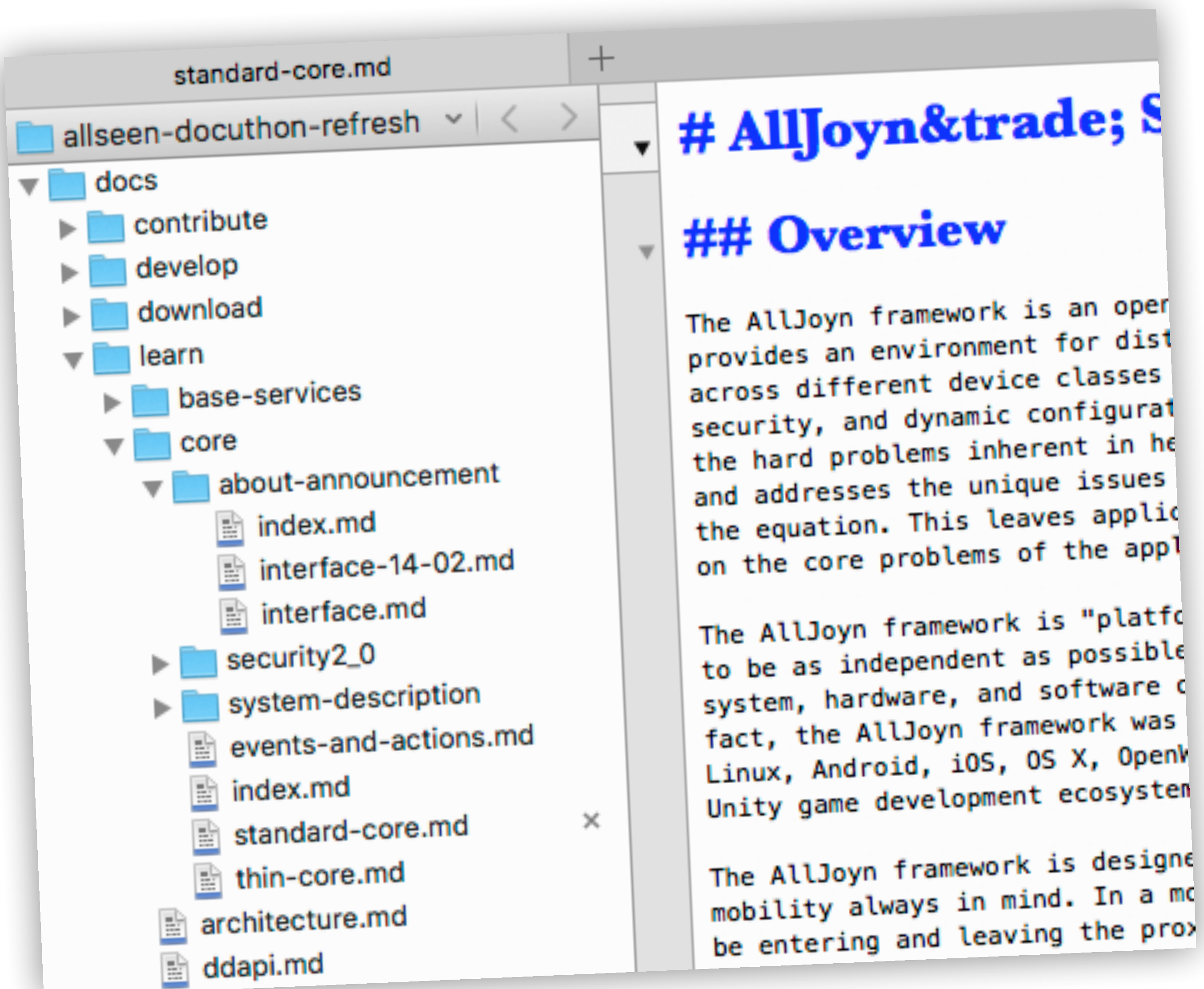
⚠ **DANGER** ⚠

- Validate your data!
- Data will be overwritten
- **Never** do bidirectional sync. It will break.

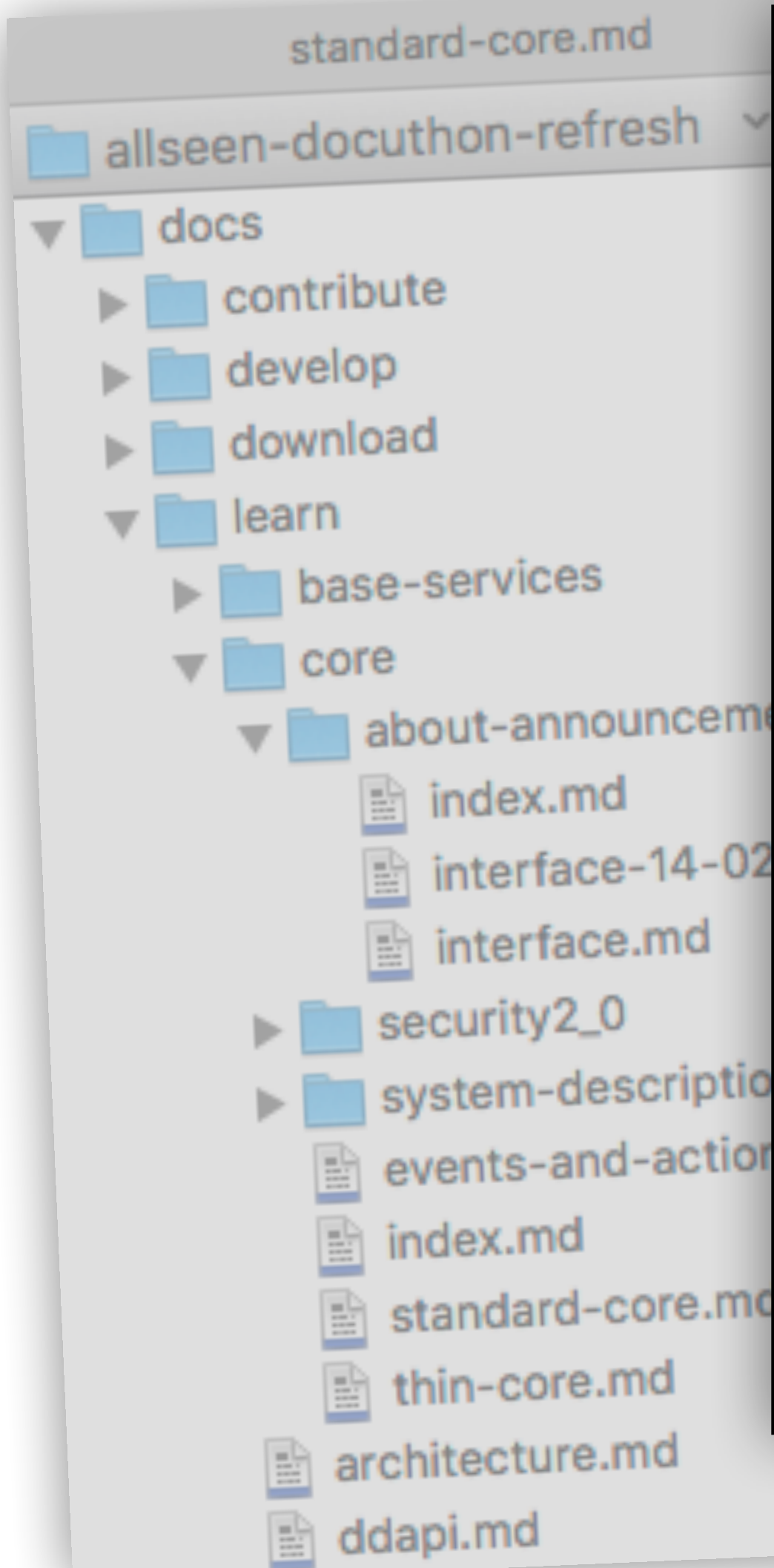
WORKFLOW: CONTENT IN GIT

- Example of an external system: Markdown files in a git repo

EX: ALLSEEN DEV DOCS



EX: ALLSEEN DEV DOCS



```
term$ git log
commit 944c5ff6d776c0c2b40af0b4e6e3a519ddde9dc8
Author: xxxx <xxx.com>
Date: Thu Jul 16 15:57:52 2015 -0400

    generate_scripts.js fixups to work in Refresh, refs #11506

commit df54b1a275d6a6f4aab70c4180fe146b383cd14a
Merge: 76fe40a af2fd60
Author: xxxx <xxx.com>
Date: Thu Jun 25 19:31:41 2015 +0000

    Merge "ASADOC-51: figure 2-4 in the security 2.0 HLD is incorrect"

commit af2fd60b9e2668255dce27be769bb21d5fd14722
Author: xxxx <xxx.com>
Date: Tue Jun 23 16:42:22 2015 -0700

    ASADOC-51: figure 2-4 in the security 2.0 HLD is incorrect

    Move ConfigureWiFi call after claim process block

    Change-Id: I1afa5334092fc0431fc7d709a202c3a6a55ff72e
```


EX: ALLSEEN DEV DOCS



WORKFLOW: CONTENT IN GIT

Getting all the files

- In Drupal 8, almost everything is just a plugin
- That goes for Migrate sources and process plugins too
 - They're pretty well-designed, don't be afraid to write one


```

/**
 * @MigrateSource(
 *   id = "markdown"
 * )
 */
class Markdown extends SourcePluginBase {

    public function initializeIterator() {
        $found = file_scan_directory($this->configuration['path'], './.md$/');
        foreach ($found as $item) {
            yield (array) $item;
        }
    }

    public function __toString() {
        return $this->configuration['path'];
    }

    public function fields() {
        return ['uri' => $this->t('URI')];
    }

    public function getIds() {
        return ['uri' => ['type' => 'string']];
    }
}

```


WORKFLOW: CONTENT IN GIT

Source data can be weird

- Our client kept a hierarchical YAML file, to turn into a menu
- But migrate wants a list of rows, not a tree!
- RecursiveIteratorIterator makes this simple: <http://tiny.cc/Reclterlter>

WORKFLOW: CONTENT IN GIT

Validation

- Catch problems early: Check the resulting entities, see if they make sense
 - Are there broken links? Orphan nodes, without a menu item?
- Compare generated test site with Drupal: <https://github.com/evolvingweb/sitediff>

WORKFLOW: CONTENT IN GIT

What we gain

- Best tools for the job
 - Git comes with: branches, merging, global ID, blame...
 - Can use whichever Markdown editor they like
- Can revert to earlier version of site!

WORKFLOW: PARTIAL UPGRADES

- A D6/7 to D8 upgrade by default includes complete config/content
 - This leaves cruft, eg; obsolete fields
 - Things have changed in ten years! You probably want new content
- Building the new site from scratch means rewriting all your content

WORKFLOW: PARTIAL UPGRADES

- Build upgraded site from scratch, using new best-practices
- But keep some content. Only what you need!

WORKFLOW: PARTIAL UPGRADES

There's a shortcut!

```
term$ drush migrate-upgrade --configure-only --legacy-db-url=mysql://localhost/test
Exporting d7_dblog_settings as upgrade_d7_dblog_settings
Exporting d7_filter_format as upgrade_d7_filter_format
Exporting d7_filter_settings as upgrade_d7_filter_settings
Exporting d7_global_theme_settings as upgrade_d7_global_theme_settings
Exporting d7_image_settings as upgrade_d7_image_settings
Exporting d7_image_styles as upgrade_d7_image_styles
Exporting d7_language_types as upgrade_d7_language_types
Exporting d7_node_settings as upgrade_d7_node_settings
...
```

WORKFLOW: PARTIAL UPGRADES

- Export config, delete almost all the migrations.
- Only keep what you want to save, eg:
 - Some content types: `upgrade_d7_node_page`
 - Tags: `upgrade_d7_taxonomy_term_tags`
- These contain everything you need to migrate those types, even the hard parts of the migration
- Modify as needed.
 - Eg: If you don't migrate users, don't keep the `uid` in the migrations

WORKFLOW: PARTIAL UPGRADES

Filtering files

- The D6/7 to D8 migrations include every file on the site. Could be many GBs!
- It can be worth only keeping the ones referred to by content you're keeping:
 - <http://tiny.cc/migrateFilterFiles>

WORKFLOW: PARTIAL UPGRADES

Broken links

- URLs that break hurt SEO a lot
 - Keep the URL alias migration. Migrate redirects as well.
- Since you're throwing out some content, some links will die
 - Have a plan for adding redirects
- Check your site afterwards for broken links
 - Proactive: Sitediff <https://github.com/evolvingweb/sitediff>
 - Reactive: Google Webmaster Tools

EX: EVOLVING WEB SITE



Blog



March 14th, 2016

Drupal 8 Theming Foundations: Using Stable vs. Classy as a Base Theme

For themers, there are lots of exciting new features in Drupal 8: the Twig tempting system, libraries for loading assets, and the replacement of theme functions with templates. There are also a new set of core themes that come with Drupal 8.



March 8th, 2016

Evolving Web at DrupalCon Asia 2016

Asia. On day 1 of the conference, we



EX: EVOLVING WEB SITE

```
id: d7_blog
label: 'Nodes (Story)'
process:
  uid:
    plugin: migration
    migration: d7_user
    source: node_uid
  revision_timestamp: timestamp
body/0/value:
  -
    source: body/0/value
    plugin: regex
    pattern: 'http://evolvingweb\.ca/sites/
default/files/([^\"]*)'
    replace: '/sites/default/files/d7/\3''
```

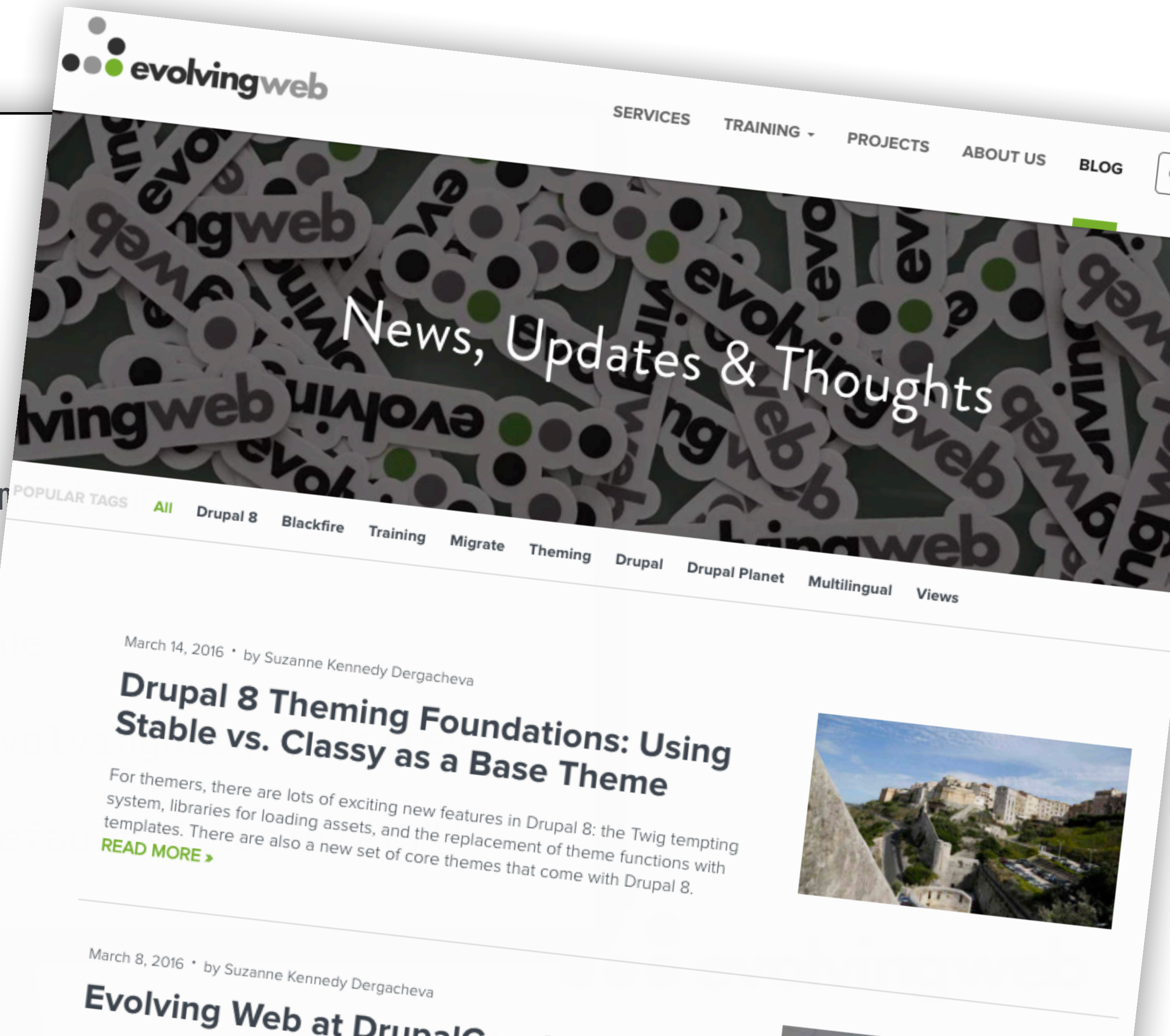
EX: EVOLVING WEB SITE

```
id: d7_blog
label: 'Nodes (Story)'
process:
  uid:
    plugin: migration
    migration: d7_user
    source: node_uid
  revision_timestamp: timestamp
body/0/value:
  -
    source: body/0/value
    plugin: regex
    pattern: 'http://evolvingweb\.ca/sites/default/files/([^\"]*)'
    replace: '/sites/default/files/d7/\3''
```


EX: EVOLVING WEB SITE

```
id: d7_blog
label: 'Nodes (Story)'
process:
  uid:
    plugin: migration
    migration: d7_user
    source: node_uid
    revision_timestamp: time
  body/0/value:
```

```
  -
    source: body/0/value
    plugin: regex
    pattern: 'http://[^\s]*'
    replace: '/sites/'
```



WORKFLOW: PARTIAL UPGRADES

What we gain

- Keep the content that's worth keeping
 - Keep URLs working
- Throw out the junk, build a beautiful new site
- Can merge data, as long as there are no shared references

WHAT YOU JUST SAW

- Intro to migrate
- Workflows
 - Content first
 - Content first, in Drupal
 - Mirror
 - Content in git
 - Partial upgrades

WHAT YOU JUST SAW

Migrate can improve your content workflow!



Our **expertise**, your digital DNA | evolvingweb.ca | [@evolvingweb](https://twitter.com/evolvingweb)

WHAT TO DO NOW

- Find me on Twitter [@djvasi](#)
- Learn more about migrate
- Try out these content workflows

WHAT TO DO NOW

Evolving Web training

- Public: Chicago, Montreal, Toronto, NJ, NYC
- Private: Health Canada, McGill University, remote
- For new content editors, new developers, teams starting on D8...



JOIN US FOR CONTRIBUTION SPRINTS

Friday, April 28, 2017

**First-Time Sprinter
Workshop**
9:00am-12:00pm
Room: 307-308

Mentored Core Sprint
9:00am-12:00pm
Room:301-303

General Sprints
9:00am-6:00pm
Room:309-310

#drupalsprints



WHAT DID YOU THINK?

- Anything I got wrong?
- Any new ideas I should look into?
- How should migrate evolve?
- Slides: <https://events.drupal.org/baltimore2017/sessions/migrate-all-things>
- Survey: <https://www.surveymonkey.com/r/drupalconbaltimore>