What we've learned about (not) using Migrate

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undpaul

who's this?

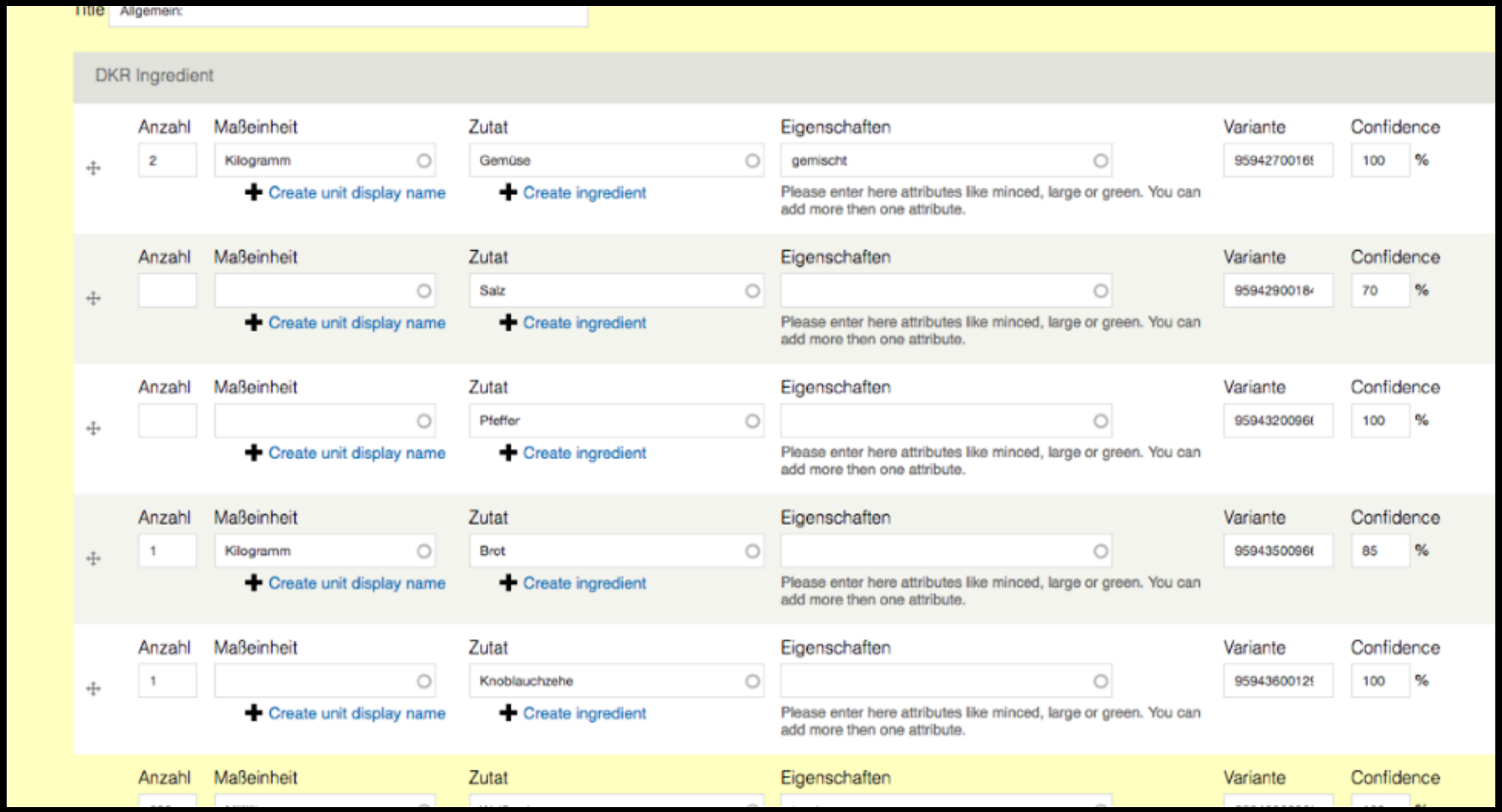
Stefan Borchert

- Addicted to Drupal since 2005
- Co-founder of undpaul
- The one who builds the search and migration in nearly all of our projects

Migrate

- Import data from wherever into new site
- Sometimes done using automatic update
- Structure of data often changes during upgrades
- Custom migrations necessary

example of old structure



example of new structure

ZUTATEN

Type: Zutat — Entfernen

Menge	Zutat	Maßeinheit	Attribute
2	Gemüse (28751)	Kilogramm (1016)	gemischt (2156)

Type: Zutat — Entfernen

Menge	Zutat	Maßeinheit	Attribute
	Salz (24421)		

Type: Zutat — Entfernen

Menge	Zutat	Maßeinheit	Attribute
	Pfeffer (24426)		

Type: Zutat — Entfernen

Menge	Zutat	Maßeinheit	Attribute
1	Brot (26956)	Kilogramm (1016)	

Type: Zutat — Entfernen

Menge	Zutat	Maßeinheit	Attribute
1	Knoblauchzehe (24706)		

nested structure

Recipe (*content type*)

-> includes recipe steps (*paragraphs*)

-> includes ingredient lists (*paragraphs*)

-> includes ingredient (*paragraphs*)

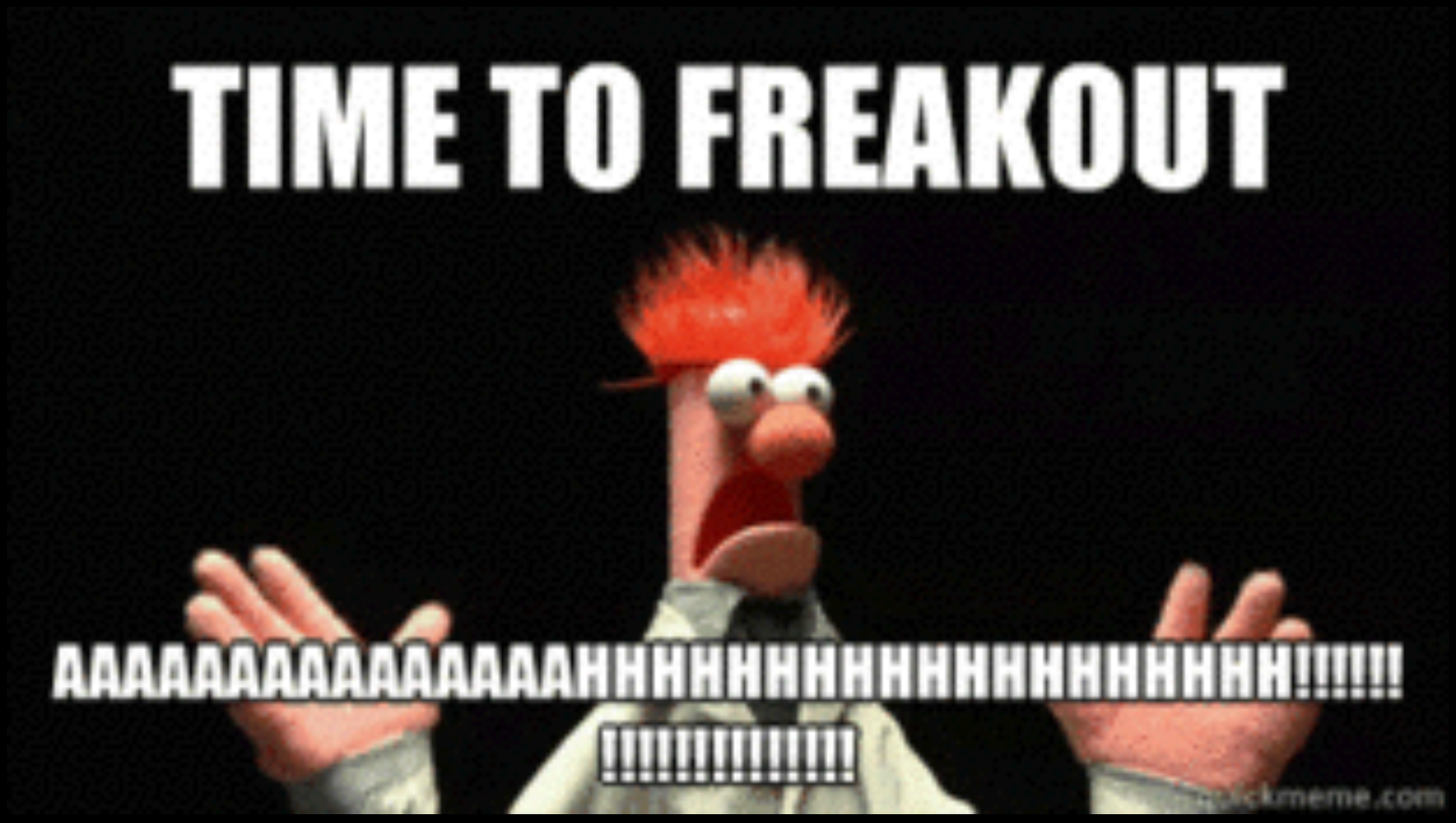
migrating the data

- 1.000 entities per minute
- Feels rather fast

- 1.100.000 items total
- ... "fast" is relative

- 1.100 min ... ~ 18,5 hours

now what?


TIME TO FREAKOUT
AAAAAAAAAAAAAAAAHHHHHHHHHHHHHHHHHHH!!!!!!
!!!!!!!!!!!!!!!
quickmeme.com

now what?

image credits: http://blueseatblogs.com/

reduced migrations

```yaml
id: node__recipe__base
label: Base migration for recipe nodes
migration_group: dkr
destination:
  plugin: entity:node
source:
process:
  type: 'constants/bundle'
  title: title
  status: status
  langcode: language
  created: created
  changed: changed
  promote: promote
  sticky: sticky
  uid:
    -
      plugin: migration
      migration: user_accounts
      no_stub: true
      source: uid
    -
      plugin: default_value
      default_value: 1
  field_recipe_servings: servings
  field_recipe_difficulty: difficulty
  field_recipe_price: price_category
  'field_recipe_note/format': 'constants/format'
  'field_recipe_note/value': note
  field_recipe_bread_units: bread_units
migration_dependencies:
```

```yaml
id: node__recipe__fields_simple
label: Add values of simple fields to recipe nodes
migration_group: dkr
destination:
  plugin: entity:node
source:
process:
  nid:
    plugin: migration
    migration: node__recipe__base
    source: nid
    no_stub: true
  field_recipe_baking_time: bake_time
  field_recipe_cooling_time: cool_time
  field_recipe_prep_time: preparation_time
  field_recipe_cooking_time: cooking_time
  field_recipe_kcal: kcal
  field_recipe_kj: kj
  field_recipe_carbs_g: carbohydrates
  field_recipe_protein: protein
  field_recipe_fat: fat
  field_recipe_approved: approved
  field_recipe_legacy_cat_best: category_push
  field_recipe_legacy_child_best: child_push
  field_recipe_top_recipe: top_recipe
migration_dependencies:
```

```php
/**
 * {@inheritdoc}
 */
public function process($limit = 1, $options = []) {
  $query = $this->getRemainingItemsQuery();
  if ($limit > 0) {
    // Limit number of items to process.
    $query->range(0, $limit);
  }

  $this->insertIgnore('paragraph__field_ingredients')
    ->fields(['entity_id', 'revision_id', 'field_ingre
    ->from($query)
    ->execute();
  $this->insertIgnore('paragraph_revision__field_ingre
    ->fields(['entity_id', 'revision_id', 'field_ingre
    ->from($query)
    ->execute();

  return ($limit > 0) ? $limit : 1;
}

/**
 * {@inheritdoc}
 */
public function cleanup($options = []) {
  $database = \Drupal::database();
  $database->query('UPDATE IGNORE {paragraph__field_in
    . 'SET deleted = 0, langcode = :langcode', [':lang
  $database->query('UPDATE IGNORE {paragraph_revision__
    . 'SET deleted = 0, langcode = :langcode', [':lang

  return TRUE;
}
```

custom processing

- Collects necessary data
- Uses custom mapping tables
- Dump into field table
- Multiple times faster than migration

- Disadvantages?
  - paragraph parent
  - file_usage
  - taxonomy_index

summary

- Migrate is great! Really
- For data structures with lots of migration-references consider custom scripts
- Always run (final) tests with complete data set
- Consider buying a specialized computer for migration tasks

image credits: @ollyginal

feedback

- Questions?
- Your stories?

- Twitter: #drupalmountaincamp
- https://www.undpaul.de/