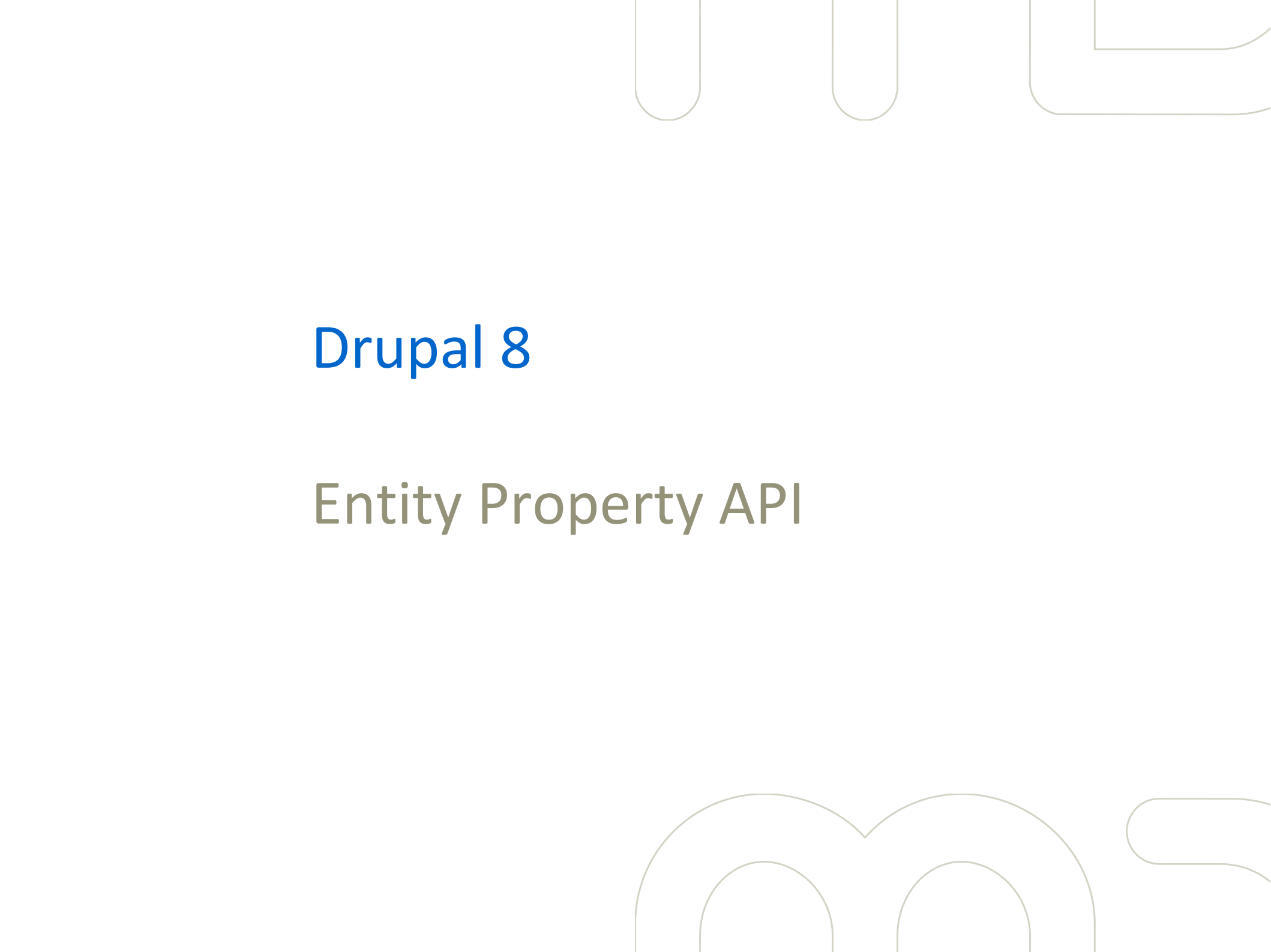






Drupal 8

Entity Property API

Latest changes in Drupal 8

- Symfony Kernel
- Plugin System
- Twig
- CMI: YAML
- CMI: Localization
- Entity

Field API Drupal 7

- \$node->field_example[LANGUAGE_NONE][0]['value']
- field_get_items() but no field_set_items()
 - <http://drupal.org/node/1260640> Will add a field_set_raw_items()
- Entity Wrapper

Goal

- Improve DX!
- Allow multi-value, translatable properties, not just fields
- Separate Storage from API
- Introspection
 - Get information about available information

Proposed Solution: Property API

- Standardized access to Fields and Properties
- Uses `ArrayAccess` and PHP magic methods
- Looks like direct property access, but it is routed through methods
 - Allows for lazy loading
 - Assume defaults (Language, first index)

Definition and Terms

- Always 4 levels
 - PropertyContainer
 - Property
 - PropertyItem
 - Primitive Value (or another PropertyContainer)
 -

How does it look

- `$node->field_something[0]->value`
- `$node->field_something->value`
- `$node->created->value`
- `$node->author->name`
- `$node->author->entity->created->value`
- `$node->get('field_something', 'de')->get('value')`

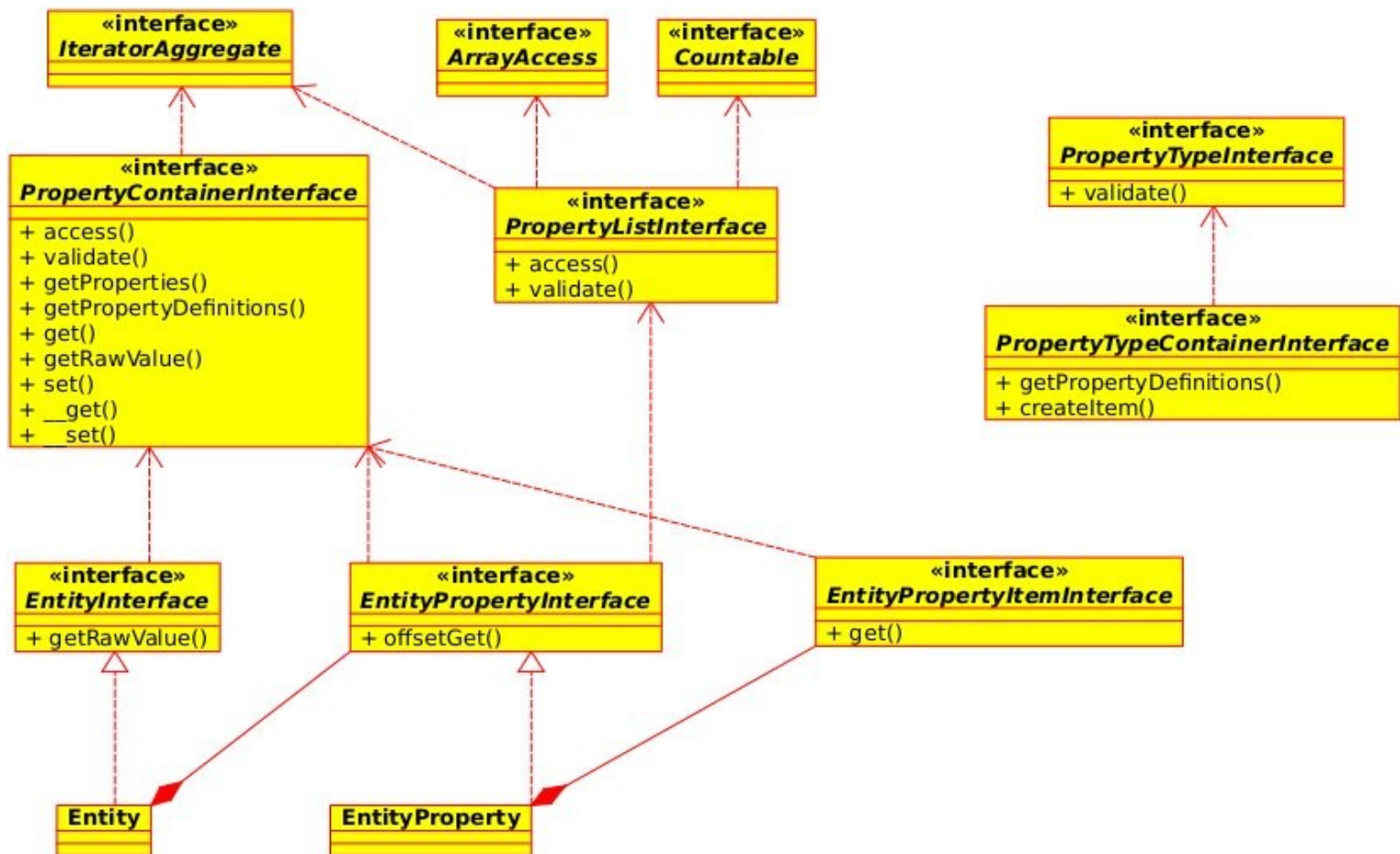
Behind the scenes #1

- `$field_something = $node`
 `->__get('field_something')`
 `->get('field_something');`
- `$field = $field_something`
 `->offsetGet(0);`
- `$field`
 `->__get('value')`
 `->get('value');`

Behind the scenes #2

- `$field_something = $node`
 `->__get('field_something')`
 `->get('field_something');`
- `$item = $field_something`
 `->__get('value')`
 `->offsetGet(0);`
- `$item`
 `->__get('value')`
 `->get('value');`

Class Diagram



Introspection

- Ability to ask what properties exist
- On any level
 - `$node->getPropertyDefinitions();`
 - `$field->getPropertyDefinitions();`
 - `$item->getPropertyDefinitions();`
- Replaces `hook_entity_property_info()`



Questions?

