

Spatial Path



Lingotek

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# Building Healthy Multilingual Relationships

Correctly Nest Entities





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- Owner & Architect of Spatial Path
- Previous CEO, Co-Founder, & Principal Architect of Hook 42
- Relevant Experience:
  - Enterprise site auditor: ML, A11y, Migration, Standards
  - ML Enterprise websites since 1997
  - Author of Drupal 8 Multilingual training assets
  - Enterprise-scale Drupal for 12 years!
- Certifications:
  - Management: PMP, SCPM, CSM, CSPO
  - Accessibility: CPWA
  - Drupal: D8 Acquia Certified Site Builder

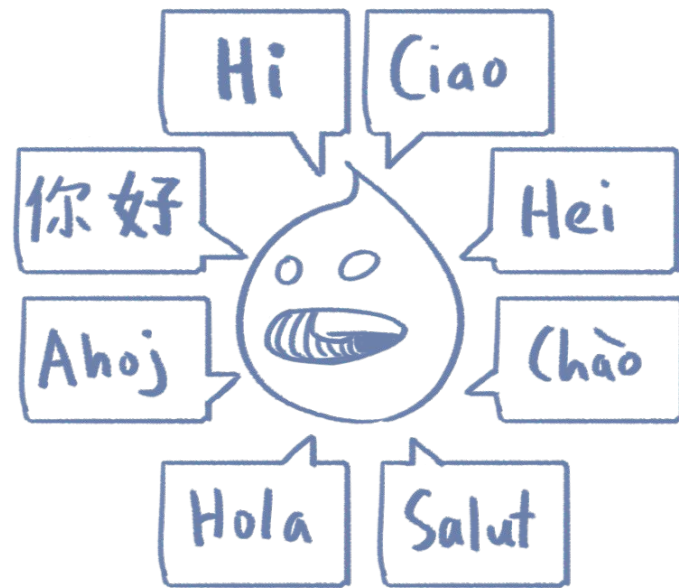


## Christian López Espínola

- penyaskito on Drupal.org and elsewhere
- Software developer at Lingotek
- Relevant Experience:
  - Drupal 8/9 integration Development for the Lingotek TMS, dealing with translating Drupal on a daily basis.
  - Drupal contributor with a focus on Drupal Multilingual support
  - Drupal Event organizer and speaker.
  - Contributor to the localize.drupal.org team

# Thank yous

- DrupalCon Europe 2020 organizers
- Global Drupal Multilingual Team
- Pantheon Systems
- Lingotek
- Hook 42, Inc.



*Some image assets and multilingual doodles are provided by Hook 42, Inc.*



# About the scope

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## Primarily focused on Drupal 8+.

- We can't cover everything.
- Multilingual nesting is complex.
- Focus on common use cases and Content Entities.
- We will cover configurations and their expected outcomes.
- Every site is different, but use similar configuration patterns.
- Configuration patterns can be applied to your site.
- Acquia Site Studio and Cohesion is not covered.

This session is recorded and the presentation deck will be shared. :)



# Information flow

We are covering a lot topics.  
Slides will be covered quickly to  
allow time for questions.



# Why are we really here?

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# Drupal is a powerful platform

There are a lot of moving parts  
to make a functional website!

- Feature-rich
- Extensible
- Scalable
- Flexible
- Multilingual





# Expectations vs. Reality

Prevent unhappiness with clear expectations and provide a predictable, functional website.



# Reality

With great flexibility comes complexity.

So many permutations...

- Site-building approaches
- Content editing interfaces
- Display and theme layer
- Content publication
- Customization
- Integrations
- Evolving best-practices



Multilingual support  
exponentially increases test  
cases and complexity.



“Where there is great power there  
is great responsibility.”

- *Winston Churchill, 1906*
- *Uncle Ben Parker, Spiderman*

# Getting Started

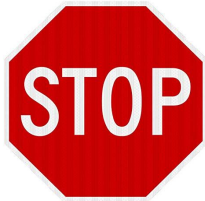
Understanding Multilingual  
Content & Site Strategy



# Translation vs. Localization

## Translation

The process of **translating** words or text from one language to another.



## Localization

The process of **adapting** a product, application or document to meet the language, cultural and or other requirements of a specific target market (a locale).



# Symmetrical vs. Asymmetrical

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## Symmetrical

Layout display is the same between the source and locales of the same content entity.

### **Example:**

Node 1 in English is directly translated to other languages.

**Each translated locale for Node 1 looks the same.**



## Asymmetrical

Layout display and translated versions of content differ between locales of the same content entity.

Content translations are not strictly tied to the source language are often decoupled from the source language, even though they are stored in the same content entity.

**Translated locales can look different from the source locale.**



# Define content business rules

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Use a realistic, language-first approach through discovery.

## Key topics:

- **Resources:** Initial budget & time, ongoing support, people.
- **Markets:** Language, locale, and translation expectations.
- **Purpose:** Content types, products, use cases, frequency.
- **Interface:** Design and UI of the site, all locales.
- **Creation:** Content editing tools and workflows.
- **Storage:** Per-field content needs.





# Define display expectations

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## Key questions:

- Is the whole page **structure** the same across languages?
- Does **any region** of the page's structure change per locale?
- Does the page structure change **drastically** across locales?
- Does **any part of the content** need to change per locale?
  - Page content is 90% the same as source language.
  - 10% of page has locale specific content



# Define content creation system (people & tools)

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## Key questions:

- Who updates content? Who translates content?
- What control does an editor have? Copy? Layout?
- What responsibilities do the translators have?
- Are some people combination editors and translators?
- What is required for content approval?
- How and when does **content** change per locale?
- What is the proposed Drupal layout approach?



# Content storage and field planning

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Questions to ask for each **field** of a content entity:

- Does the field content stay the same for each language?
- Does the field content value(s) stay the same, but need to display in a translated language?
- Does the field content contain non-translated or language specific information?
- How will the field content be displayed?



# Overcoming challenges in the discovery phase

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## Education & full team involvement

- Define what translation and localization mean to the project.
- Define lifecycle of **every type of content**, including translation.
- Teach everyone about multilingual basics (based on role).
- Define expected content differences across locales.
- Define content types, workflow, and translation needs.
- Define media content needs very early.
- **Document everything!**



“If you fail to plan, then you are  
planning to fail!”

- *Benjamin Franklin*

# Multilingual & Nesting Fundamentals



# Expectations

Drupal's multilingual system will work all the time because it is in core.

**Drupal 8+ was built with a language first approach.**

- Content entities are language aware.
- Content entities have fallback rules.
- Entity management APIs have multilingual support.
- Modules can build off the consistent ML system.



# Reality

Functional multilingual configuration is not just content.

- Language detection
- Language fallback
- Display and theme layer logic
- Extensions from contrib
- Site customizations
- Interaction with content editing interfaces





# Multilingual Pillars in Drupal 8+

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## Language

Base services for all modules dealing with data.

Not just multilingual.

## Interface

Interface translation has a built-in update feature and improves usability.

## Content

Field translation in a built-in API for all entities.

Content translation provides a user interface.

## Config

Common configuration system handles blocks, views, field settings.

Unified translation.



# Multilingual Pillars in use

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## Language

Detection  
Available languages  
Custom languages  
URLs

**Module:**  
Language

## Interface

UI Text  
Theme text  
Layout

**Module:**  
Interface  
Translation

## Content

Nodes  
Users  
Images  
Comments  
Taxonomy Terms  
Blocks (content)

**Module:**  
Content  
Translation

## Config

URLs  
Contact form  
Roles  
Blocks (structure)  
Vocabularies  
Views

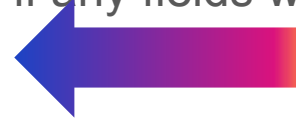
**Module:**  
Configuration  
Translation



# Content entities (our focus)

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- **Many:** Node, Taxonomy Term, Media, Custom Blocks, Paragraphs, Custom Entities, and more...
- Content entities can be **translated** or **not translated**.
- Content entities have **language display fallback** rules.
- Content entities **have fields** that can be translated, if desired.
- A content entity must be configured for translation if **any** fields within the content entity need to be translated.



# Field-level multilingual configurations

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Each field can be configured for translation **ONLY IF** the content bundle is configured for translation.

A field can be one of two types:

- Field contains content.
- Field points to another content entity (Entity Relationship) or even a concrete revision (Entity Reference Revision)!



# Content fields vs. Reference fields

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## Content field types:

- Text:
  - Text
  - Textarea
  - List (select, checkbox, radio)
  - Check-boxes/radio buttons
- Number
- Boolean
- Link

## Entity reference types:

- Image/File
- Taxonomy
- Media
- Node
- Blocks
  - System
  - Layout builder
- User
- Custom entities (yours)
- Custom entities (contrib)
  - Commerce products
  - Paragraphs



## Field-level multilingual configurations

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When a field is **translated**, the field's value **can change** across locales.

If a field is **not translated**, the value **stays the same** across locales.

Rules apply to **every** field and to **every** nesting depth.



# Field-level considerations

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- Don't just mark every field translatable on your site.
  - It can cause confusion to the content team.
  - It can create unexpected site bugs during translation.
- If a text field or list is used to define layout, don't translate it.
- Field constraints: character limits and required status.
- Field reuse across content bundles & global configurations.
- Use of content moderation and locale-specific publication status.



# Content-field multilingual configurations

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## Translated Content (text field):

source en: green

translation spanish: verde

## Expected behavior:

- Content for Spanish will be a **translation** of the English source.
- A translation of Spanish must exist to display in Spanish.
- If no Spanish translation exists, content is displayed using language fallback rules.





# Entity reference field (translation overview)

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## Non-translated Entity Reference:

Source en value: entity1, entity2.

Parent entity es value: entity1, entity2

## Expected behavior:

- Content for Spanish will be a **translation** of the English source.
- Parent entity displays **Spanish versions of entity1 and entity2**.
- Content for Spanish must exist in Spanish to display in Spanish.
- If no Spanish translation exists, the language fallback rules of the referenced entity apply.

## Translated Entity Reference:

Source en: entity1, entity2 - Product Variant 1 and 2

Translation es: entity3, entity4 - Product Variant 3 and 4

## Expected behavior:

- Content for Spanish will be **different** than the English source.
- Content for Spanish must exist in Spanish to display in Spanish.
- If no Spanish translation exists, the language fallback rules of the referenced entity apply.



# Widgets

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Field widgets are used to render the field inside forms. They are a plugin.

**Why is this important?** Some widgets alter the data model on form save and other form interactions.

BUG: Widgets that alter nested entities can lose track of language.

- Inline Entity Form (Simple, Complex)
- Client-side hierarchical select
- Entity browser
- Asymmetric paragraphs



# Nesting

- To include one or more Content Entities within another content entity, either by an Entity Reference field or extended entity manager (Entity Browser).
- All multilingual content bundle and field level configuration expectations apply for each nested entity bundle.



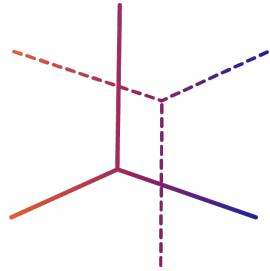
Plan.

Test.

Don't Assume.

Revisit.

Translate.



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# Multilingual Site Debugging

## Common Issues with Multilingual Sites



# Dealing with common issues - configs

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## Why is the wrong language showing?

- Are translations configured correctly?
- Check configs again! Settings must be correct on every nested entity bundle and field.
- Check for field reuse and misaligned configurations.
- Do translations exist? Are they published?
- Are the permissions correct?



# Dealing with common issues - bugs

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## Why is the wrong language showing?

- Many modules and widgets manipulate content during editing and can create unexpected behaviors and/or bugs.
- Nested entities do not get the correct language passed from parents in content edit mode.
- Symptoms:
  - Nested entity language does not match intended translation language.
  - Nested entities display in source language.
  - Nested entities display in direct-parent language.
  - Nested entities are created in the default language.



# Common issues of core + config + customization

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People use content choices + display logic to drive multilingual display beyond what is provided in core. Each language-specific display customization can cause unexpected results and/or bugs.

- Display logic within views.
- Display logic at theme layer (Twig, preprocessors).
- Display logic driven by content fields (locale choosers).
- With many site-building permutations, edge cases exist.





# Common issues: decreased site performance

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- Complexity impacts page performance (in edit and display).
- High number of loaded entities per rendered page.
- Multiple revisions stored on each edit (large db size).
- Exponentially larger number of revisions and storage.
- Revisions multiply by the number of supported locales.
- Revisions multiply by revision frequency.



# First rule of Entity Nesting:

Don't Nest.

# Second rule of Entity Nesting:

Don't use a data model for layout.

# Third rule of Entity Nesting:

Keep it simple and consistent.

# Which entities are the worst nesting offenders?

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**Who?:** Paragraphs, Node references, Block references, Custom Content entities.

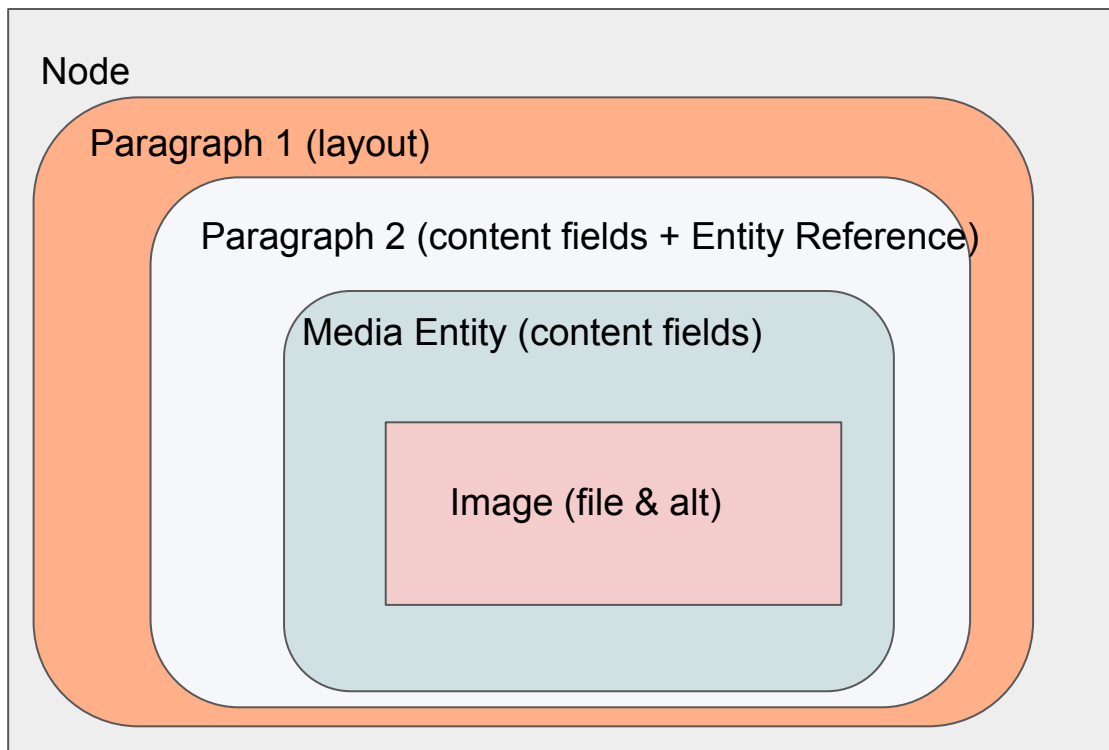
**Why?:** There wasn't anything else available for editors to control layouts!

**Is there any hope?:** Layout management for end users is improving!

**But what about my site?** Some sites may still use deep nesting approaches. Transitioning approaches may take migration efforts.



# Common deep-level nesting cases



**Yes, these nesting levels are really used!**

Node > Paragraph 1 (layout) > Paragraph 2 (content fields) > Media Reference > Media Fields > Image



# Common deep-level nesting cases

Landing Page Node

Paragraph 1 (layout)

Paragraph 2 (content fields + Entity Reference)

Product Page Node (content + Entity References)

Media Entity (content fields)

Image (file & alt)

Landing Page >  
Paragraph 1 (layout)  
> Paragraph 2  
(content fields) >  
Product page >  
Media Reference >  
Media Fields > Image



# Using entities inside entities

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## Working with the many other entities.

- Fields should follow the same multilingual configuration basics.
- Questions to ask yourself for configuring translatability:
  - Is the nested entity reference different between locales?
  - Is the nested entity re-used somewhere else?
  - Is the nested entity used on its own? (e.g. can be navigated to?)
- This also applies to *headless* sites using Drupal as a backend.







# Common Nesting Examples

# Single Entity Reference

Node with Taxonomy Term  
Entity Reference

## Is the taxonomy field used for Display Rules/CSS Styles?

- Don't translate the taxonomy terms.
- Only translate the Entity Reference if you want the display to change per locale.
- Expected behavior: terms passing classes will not be translated/changed



# Single Entity Reference

Node with Taxonomy Term  
Entity Reference

## Is the taxonomy field used for Content Categorization?

- Create the taxonomy terms and translate them in a separate workflow.
- Entity Reference field is non-translated.
- Expected behavior: term applied to source language stays the same in all languages; translation is displayed.



# Single Entity Reference

Node with Taxonomy Term  
Entity Reference

**Is the taxonomy field used for free-form tagging and User Generated Content?**

- Consider not translating the terms.
- Requires a richer context-based analysis to define the “best” configuration.



# Single Entity Reference

## Node with Taxonomy Term Entity Reference

### Taxonomy Example - EN

Term ER is Not Translated

Blue

Green

Not Translated 1

Small

Term ER is translated

Yellow

Large

Not Translated 2

### Taxonomy Example - ES

Term ER is Not Translated

Azul

Verde

Not Translated 1

Small

Term ER is translated

Amarillo

Small

Not Translated 1

### Taxonomy Example - FR

Term ER is Not Translated

Bleu

Vert

Not Translated 1

Small

Term ER is translated

Juane

Large

Small



# Repeat the process for each content element

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- The taxonomy example quickly surfaces Entity Reference translation configuration in combination with parent content translation and referenced entity translation.
- Each content entity type does have unique questions and content specific considerations to address in your content strategy.
- See the appendix of this deck for Custom Blocks and Media examples.



# Common Entity Reference Field Widgets

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- Inline Entity Form (IEF)
- Entity browser
- Media browser
- Taxonomy term picker
- Multiple fields





# Complex Nesting

Component-based site-building  
approaches



# Symmetrical vs. Asymmetrical

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## Symmetrical

Layout display is the same between the source and locales of the same content entity.

### **Example:**

Node 1 in English is directly translated to other languages.

**Each translated locale for Node 1 looks the same.**



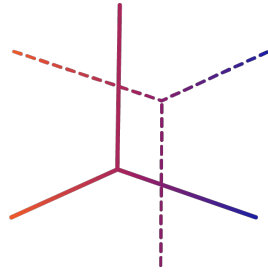
## Asymmetrical

Layout display and translated versions of content differ between locales of the same content entity.

Content translations are not strictly tied to the source language are often decoupled from the source language, even though they are stored in the same content entity.

**Translated locales can look different from the source locale.**





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# Multilingual Paragraphs

## Overview



# Paragraphs Overview

Req's from core:

- 4 Multilingual modules

Req's from contrib: ERR + Paragraphs

Extensions for ML support:

[paragraphs asymmetric translation widgets](#)

Considerations: needs migration if changing translatability

(\* unsupported) Paragraphs fields do not support translation. See the [online documentation](#).

## Paragraphs asymmetric translation widgets

[View](#) [Version control](#) [View history](#) [Automated testing](#)

By [efpapado](#) on 21 March 2018, updated 13 November 2019

This module is offering asymmetric translations to paragraphs based in the paragraphs Classic widget. Support for the experimental widget is on our radar, but currently not being implemented.

To enable the functionality:

1. Install the module
2. Navigate to the paragraphs field on the entity type where you want to enable it ("Manage fields")
3. Enable "Users may translate this field". Note that the paragraphs module has added a big red warning here, that this won't work. But it will, that's what this module does
4. Navigate the the form mode settings for the paragraphs field on this entity type ("Manage form display") and choose the "Paragraphs Classic Asymmetric" widget.



# Single Entity Reference

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## Node with Paragraphs (Entity Reference Revisions)

- Paragraphs goal is to provide flexible structure of content.
  - It was not conceived as a layout tool.
- Are different translations going to allow different paragraphs?
  - Requires good planning beforehand to define the “best” configuration.
  - Only translate the Entity Reference Revision field if you want the content to change per locale.



# Asymmetrical Considerations

## Paragraphs

If you do NOT have the extra contrib module, then don't translate the ER field for paragraphs.

Default behavior assumes all paragraphs are the same and will only show translated field data.

If you use the asymmetric module, the ER field **must** be marked for translation.



# Single Entity Reference

## Node with a single-level Paragraph (Entity Reference Revisions) - English source

The way paragraphs were intended to use.

Business expected behavior compared to configuration settings:

If we consider this a flexible component structure: can be customized per language?



[Home](#)

[View](#) [Edit](#) [Delete](#) [Revisions](#) [Translate](#) [Lingotek Metadata](#) [Manage Translations](#)

Submitted by [admin](#) on Wed, 07/15/2020 - 12:41

This is the body of my landing page. Some components below.

**Logo**



**Name**

DrupalCon Global 2020

**Location**

Everywhere

**Logo**



**Name**

DrupalCon Barcelona 2020

**Location**

Barcelona, Catalonia



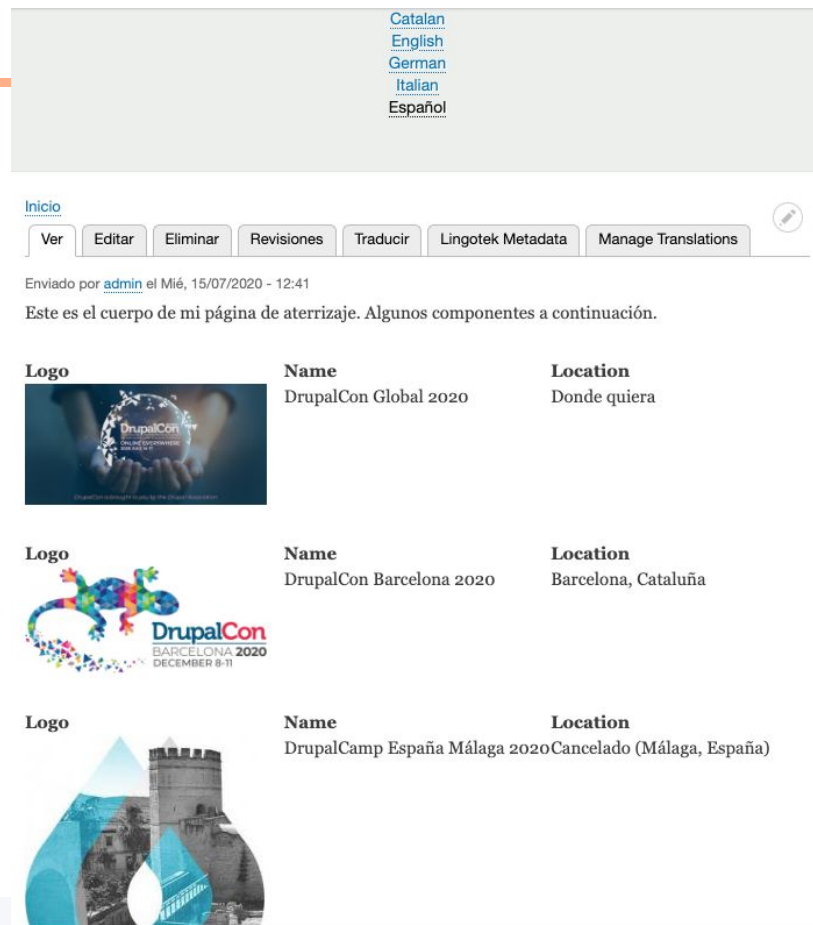
# Single Entity Reference

## Node with a single-level Paragraph (Entity Reference Revisions) - Spanish translation (asymmetric)




The way paragraphs were intended to use.

Business expected behavior compared to configuration settings:

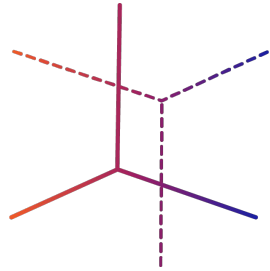
If we consider this a flexible component structure: can be customized per language?



The screenshot shows a Drupal node page in Spanish. At the top right, there are language links: [Catalan](#), [English](#), [German](#), [Italian](#), and [Español](#). Below the language links is a navigation bar with buttons: [Inicio](#), [Ver](#), [Editar](#), [Eliminar](#), [Revisiones](#), [Traducir](#), [Lingotek Metadata](#), and [Manage Translations](#). The page content shows a paragraph with the text: "Este es el cuerpo de mi página de aterrizaje. Algunos componentes a continuación." Below this text is a table of paragraphs with entity references:

Logo	Name	Location
	DrupalCon Global 2020	Donde quiera
	DrupalCon Barcelona 2020	Barcelona, Cataluña
	DrupalCamp España Málaga 2020	Cancelado (Málaga, España)





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# Multilingual Layout Builder

## Overview





# Layout builder basics

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- Provided in core.
- Provides a user interface for layout configuration.
- Stores block and layout information in the content entity.
- Custom blocks created within Layout Builder are **non-reusable blocks** that only exist **within the scope of the content entity**.
- Enabling Layout Builder allows for **default display layouts**.
- **Layout Builder Overrides** provide layout edits per content entity.



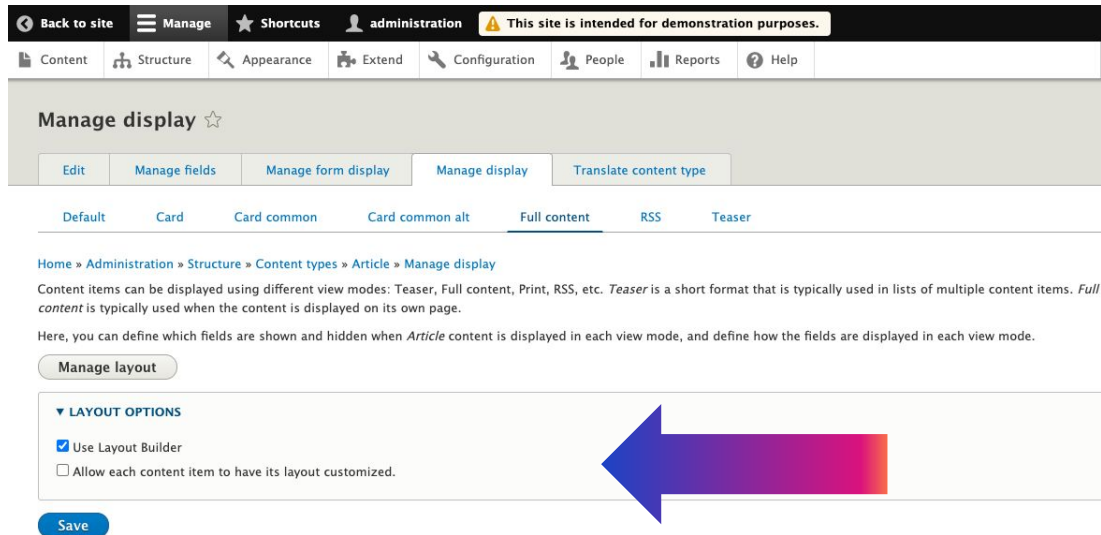
# Layout builder for default display structure

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Layout builder is used define default display structures within a View Mode.



# Layout builder for default display structure



The screenshot shows the Drupal administration interface for managing the display of an Article content type. The breadcrumb trail is: Home » Administration » Structure » Content types » Article » Manage display. The 'Full content' view mode is selected. The 'Manage layout' section is expanded, showing the 'LAYOUT OPTIONS' with the 'Use Layout Builder' checkbox checked. A large blue arrow points to this checkbox.

Back to site Manage Shortcuts administration ⚠ This site is intended for demonstration purposes.

Content Structure Appearance Extend Configuration People Reports Help

## Manage display ☆

Edit Manage fields Manage form display Manage display Translate content type

Default Card Card common Card common alt Full content RSS Teaser

Home » Administration » Structure » Content types » Article » Manage display

Content items can be displayed using different view modes: Teaser, Full content, Print, RSS, etc. *Teaser* is a short format that is typically used in lists of multiple content items. *Full content* is typically used when the content is displayed on its own page.

Here, you can define which fields are shown and hidden when *Article* content is displayed in each view mode, and define how the fields are displayed in each view mode.

Manage layout

▼ LAYOUT OPTIONS

- Use Layout Builder
- Allow each content item to have its layout customized.

Save



# Layout builder for default display structure

The screenshot shows the 'Edit layout for Article content items' interface. At the top, there are navigation links: 'Back to site', 'Manage', 'Shortcuts', and 'administration'. Below this is a toolbar with icons for 'Content', 'Structure', 'Appearance', 'Extend', 'Configuration', 'People', 'Reports', and 'Help'. The main area is titled 'Edit layout for Article content items' and contains a 'Save layout' button, a 'Discard changes' button, and a 'Show content preview' checkbox. A message states: 'You are editing the layout template for all Article content items.' Below this is a warning: 'You have unsaved changes.' The layout consists of three sections, each with an '+ Add section' button. The first section is expanded to show 'Configure Section 1' with two '+ Add block' buttons. A sidebar on the right lists available blocks: 'Banner block', 'Basic block', 'Disclaimer block', 'Footer promo block', and 'Back'. A large blue arrow points from the right towards the main layout area.

The screenshot shows the default display structure for an article. At the top, there is a navigation bar with 'Home', 'Articles', and 'Recipes'. The article title is 'Give it a go and grow your own herbs' by Holly Foat, dated 17th May 2020. The article content includes a 'Sample Block' with the text 'This is a Sample Block' and tags: 'Grow your own', 'Seasonal', and 'Herbs'. A large blue arrow points from the right towards the article content. To the right of the article is a 'More featured articles' section with a featured article titled 'Dairy-free and delicious milk chocolate' and a 'VIEW ARTICLE >' link. The bottom of the article features a large image of fresh herbs.



# Layout builder for default display structure

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- Content entities and fields follow all translation rules.
- If translation exists and field is displayed in Layout Builder, the field displays in the correct language.
- Use of Reusable Custom Blocks will follow the basic blocks pattern.



# Layout builder for entity level overrides (core)

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Layout Builder provides layout tools and a content creation interface configurable per content entity (e.g., node, block).



# Layout builder for entity level overrides (core)

Back to site Manage Shortcuts administration ⚠ This site is intended for demonstration purposes.

Content Structure Appearance Extend Configuration People Reports Help

## Manage display ☆

Edit Manage fields Manage form display **Manage display** Translate content type

Default Card Card common Card common alt **Full content** Teaser

Home » Administration » Structure » Content types » Recipe » Manage display

✖ There is a security update available for your version of Drupal. To ensure the security of your server, you should update immediately! See the [available updates](#) page for more information and to install your missing updates.

Content items can be displayed using different view modes: Teaser, Full content, Print, RSS, etc. *Teaser* is a short format that is typically used in lists of multiple content items. *Full content* is typically used when the content is displayed on its own page.

Here, you can define which fields are shown and hidden when *Recipe* content is displayed in each view mode, and define how the fields are displayed in each view mode.

Manage layout

▼ LAYOUT OPTIONS

- Use Layout Builder
- Allow each content item to have its layout customized.

Save



# Layout builder for entity level overrides (core)

The screenshot shows the layout builder interface for editing the 'Crema catalana' recipe page. The top navigation bar includes 'Content', 'Structure', 'Appearance', 'Extend', 'Configuration', 'People', 'Reports', and 'Help'. The main menu has 'View', 'Edit', 'Delete', 'Layout', 'Revisions', and 'Translate'. The breadcrumb trail is 'Home » Crema catalana » Edit layout for Crema catalana'. Below the breadcrumb are buttons for 'Save layout', 'Discard changes', 'Revert to defaults', and a checkbox for 'Show content preview'. The current state is 'Published', and the change to is 'Published'. A warning message states: 'You are editing the layout for this Recipe content item. Edit the template for all Recipe content items instead.' The main content area shows a dashed box for '+ Add section' and a section titled 'Configure Section 1' containing a dashed box for '+ Add block'. Below this is another '+ Add section' button and a section titled 'Configure Section 2'. The 'Recipe category' is set to 'Desserts'. A 'Configure block' sidebar is open on the right, showing the block description 'Basic Block - Recipe Node Crema Catalana (English)', the title 'Basic Block - Recipe Node Crema Ca', and the body content 'body p'. The sidebar also includes a 'Text format' dropdown set to 'Basic HTML' and a 'Language' dropdown set to 'English'. An 'Add block' button is at the bottom of the sidebar.

The screenshot shows the live website for 'umami FOOD MAGAZINE'. The top navigation bar includes 'English', 'Español', a search bar, and 'My account', 'Log out'. The main menu has 'Home', 'Articles', and 'Recipes'. A green confirmation message states: 'The layout override has been saved.' Below this is the layout builder interface for editing the 'Crema catalana' recipe page. The breadcrumb trail is 'Home » Recipes » Crema catalana'. The main content area shows the title 'Crema catalana', the subtitle 'Basic Block - Recipe Node Crema Catalana', the 'Recipe category' 'Desserts', and the 'Tags' 'Egg Vegetarian'. The main text reads: 'Enjoy this sweet recipe for one of the oldest desserts in Europe. It requires very few ingredients!'. A large blue arrow points from the right towards the 'Recipe category' and 'Tags' section.





## Layout builder for entity level overrides (core)

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- If only fields on the content entity are used, then translated language should display OK.
- All locales of the entity will have the same layout.
- Creation of custom blocks within Layout Builder maintain their source language.
- Using a reusable block will follow the blocks entity reference pattern. If translated, then block should show the correct language.



# Layout builder multilingual extensions (contrib)

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Layout Builder contrib provides two models for managing layout and content translation for **overrides**. You can only use **ONE** method per **site**. **Choose mindfully.**

- **Asymmetric Translations (layout\_builder\_at):**
  - **Pros:** Each locale can support localized content.
  - **Cons:** After the first translation from the source language, content and display are completely decoupled per locale.
- **Symmetric Translations (layout\_builder\_st):**
  - **Pros:** Source and translated locales are kept in sync
  - **Pro/Con:** Display is the same across all locales.



# Asymmetrical Considerations

## Layout Builder

Translated locales can look different from the source locale.

Each translation forks off of the source language and becomes its own layout.

You can choose only one method!

Switching methods after content exists may lead to content loss.



# Ongoing multilingual tooling efforts

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- Consistent Multilingual configuration patterns for each content entity, use case, and nesting approach.
- Enhanced editor tools, language switchers, workflow management.
- Switching asymmetrical to symmetrical models without a migration.
- Modules to clean up bloated revisions in the database.
- Testing! There many multilingual edge cases with contrib.
- Testing! Don't only use the Drupal interface.



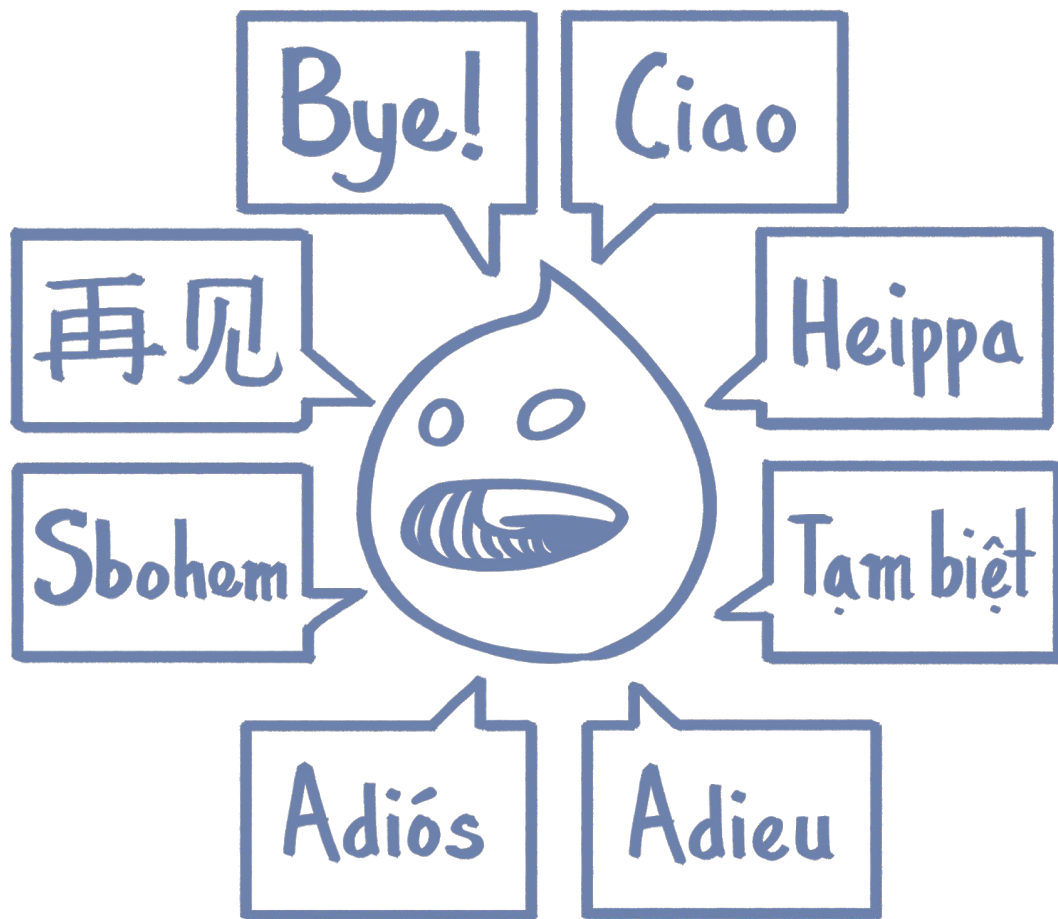
Plan.

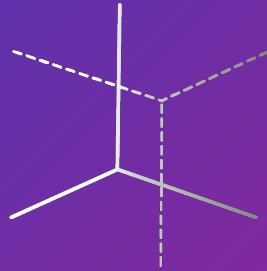
Test.

Don't Assume.

Revisit.

Translate.





The End.

Thank you!

# Resources

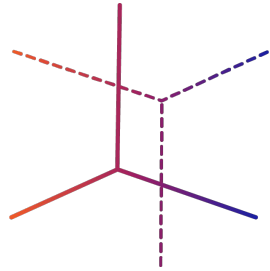
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- **This presentation:** <https://bit.ly/dcg-2020-ml-nesting>
- **Entity references gone wild (Jakob Perry):**  
<https://drupal.tv/external-video/2018-08-24/entity-references-gone-wild-how-relationships-can-sink-your-project>
- **Your data model is terrible! (Kris Vanderwater):**  
<https://www.midcamp.org/2020/topic-proposal/your-data-model-terrible-let-me-show-you-why>

**Connect with us!:** [aimee@spatialpath.com](mailto:aimee@spatialpath.com) & [clopez@lingotek.com](mailto:clopez@lingotek.com)







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# Appendix: additional field info

## Overview



# Text (list) multilingual configurations

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- Available list values are actually configuration translation!
- If you change a list value with existing content, old values exist in the database if used!
- These are key-label pairs. Consider any logic using the key value. The key value will stay in the original source language.

## **Expected behavior:**

If you translate a list field, the VALUE surfaced by the list can change, but the language will not be visible until the TRANSLATION is done via config translation.



# Link multilingual configurations

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- It is a compound field, like image.
- URL field and a Text field.
- Each can be configured for translation separately.

## **Expected behavior:**

- Follows basic field expectations.
- Best-practice depends on usage of link within content strategy.
- Internal links, external links, etc.
- Compounded by use of modules and widgets like LinkIt.



# Single Entity Reference

Node with a reusable Custom  
Block Entity Reference

Is the block used across multiple  
entities?

- **Examples:** sitewide info block, advertisement, footer block
- Translate the block through its own separate workflow.



# Single Entity Reference

Node with a reusable Custom  
Block Entity Reference

**Is the referenced block the same  
across translations?**

- Do not translate the Custom Block Entity Reference field.
- All language/locale permutations are managed at the Block entity level.
- **Expected behavior:** shared/reusable custom blocks should have their own translation workflow



# Single Entity Reference

Node with a reusable Custom  
Block Entity Reference

## Are the Blocks language/locale specific?

- Consider translating the Custom Block Entity Reference field, it will allow different reusable Custom Block entities to be chosen per locale.
- **Sample:** Locale-specific blocks for promotion. Each promotion block is a single block entity with a specific language. The translated page can reference the correct locale block.



# Single Entity Reference

Node with Media Entity  
Reference

**Is the Media asset file is the same for all languages?**

- A picture without embedded text.
- Do not translate the Media Entity Reference field.



# Single Entity Reference

Node with Media Entity  
Reference

**Are the Media assets translated? For example, the image and all associated language variants are translated.**

- Do not translate the Media Entity Reference field.
- All language/locale permutations are managed at the Media entity level.
- Expected behavior: Media assets should have a separate translation workflow.





# Single Entity Reference

## Node with Media Entity Reference

### Are the Media assets language/locale specific?

- Consider translating the Media Entity Reference field, it will allow different Media entities to be chosen per locale.
- **Sample:** Language-specific PDF manuals. Each manual is a single Media Entity with a specific language. The translated page can reference the correct manual.
- The “**right way**” would be to translate the actual file and bind all language manuals together.



# Common issues with media

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- Migration from old site, media assets are a mess.
- Working with a Digital Asset Management Systems
- Accessibility - context specific alt-text
- Multiple additional team members
- Mixture of translated and untranslated media states

