



# Paragraphs in Drupal 8

Some Practical Examples

Austin Drupal Users Group - February 15, 2017

Jeff Cardwell

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# Presentation Resources

[https://github.com/jeff-cardwell/adug\\_paragraphs\\_demo.git](https://github.com/jeff-cardwell/adug_paragraphs_demo.git)

[https://github.com/jeff-cardwell/adug\\_paragraphs\\_demo\\_main\\_theme.git](https://github.com/jeff-cardwell/adug_paragraphs_demo_main_theme.git)

[https://github.com/jeff-cardwell/adug\\_paragraphs\\_demo\\_admin\\_theme.git](https://github.com/jeff-cardwell/adug_paragraphs_demo_admin_theme.git)

# Drupal Modules Used

<https://www.drupal.org/project/paragraphs>

<https://www.drupal.org/project/components>

[https://www.drupal.org/project/field\\_group](https://www.drupal.org/project/field_group)

[https://www.drupal.org/project/entity\\_reference\\_revisions](https://www.drupal.org/project/entity_reference_revisions)

# Where are we going?

- What is a Paragraph?
- Why should you care?
- Sounds great! Now what? (examples)
- How do we style them?
- Paragraph components?

# What is a “paragraph” in Drupal?

<https://www.drupal.org/project/paragraphs>

- Revisionable Entity type (not content type)
- Fields can and should be attached
- Designed to be referenced by another entity (including other paragraphs)

# Why should you care?

- Paragraphs can ease content creation and management
- Content can be more easily understood as “components” of the site
- Paragraphs can be easier to style, compartmentalize, and “author” than other methods to reference content from “within” other content

# Sounds Great!

## Now what?

Demonstrate 3 different paragraph “types”

- Image with a quote and citation overlay
- Block of text wrapped around an inset block (ex. image)
- Multi-column grouping of content teasers

Diagrams, because diagrams help.

# Image with Quote

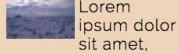
Content - All  
Submitted by [admin](#) on Sun, 02/12/2017 - 18:28



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*Cicero*

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Content - Inset Wrapped with Text  
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Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labo

Content - Image with Quote  
Submitted by [admin](#) on Sun, 02/12/2017 - 18:24

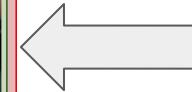


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Content - Inset Wrapped with Text 2  
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Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor in

[Read more](#)



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# Image with Quote

**Content Type - Demo Article**

Reference to **Paragraph Types -  
Multi Column Chunk, Image with  
Quote, Inset Wrapped with Text**

**Paragraph Type - Image with Quote**

Field - Image  
Field - Quote  
Field - Citation

# Image with Quote

## Field Definitions

### Manage fields

[Edit](#)[Manage fields](#)[Manage form display](#)[Manage display](#)

[Home](#) » [Administration](#) » [Structure](#) » [Paragraphs types](#) » [Image with quote 4](#)

[+ Add field](#)

LABEL	MACHINE NAME	FIELD TYPE	OPERATIONS
IWQ4 Citation	field_iwq4_citation	Text (formatted)	<a href="#">Edit</a> ▾
IWQ4 Image	field_iwq4_image	Image	<a href="#">Edit</a> ▾
IWQ4 Quote	field_iwq4_quote	Text (formatted, long)	<a href="#">Edit</a> ▾

# Image with Quote Display Modes

Manage display

Edit Manage fields Manage form display Manage display

Default Preview Teaser – Multi Column Chunk

Home » Administration » Structure » Paragraphs types » Image with quote 4

+ Add group

Show row weights

FIELD	LABEL	FORMAT	
Region 1		HTML element	Extra CSS classes: image-with-quote-overlay__image Element: div
IWQ4 Image	- Hidden -	Image	Image style: Image With Quote – Crop
Region 2		HTML element	Extra CSS classes: image-with-quote-overlay__quote Element: div
IWQ4 Quote	- Hidden -	Default	
Region 3		HTML element	Extra CSS classes: image-with-quote-overlay__citation Element: div
IWQ4 Citation	- Hidden -	Default	

# Inset Wrapped with Text

Content - All  
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Content - Inset Wrapped with Text  
Submitted by [admin](#) on Sun, 02/12/2017 - 18:22

A small inset image of a landscape. To its right is a block of text in a serif font: "Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labo".

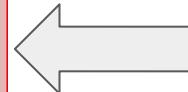
Content - Image with Quote  
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Content - Inset Wrapped with Text 2  
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# Inset Wrapped with Text

**Content Type - Demo Article**

Reference to **Paragraph Types** -  
**Multi Column Chunk**, **Image with  
Quote**, **Inset Wrapped with Text**

**Paragraph Type - Inset Wrapped with Text**

Field - Horizontal Alignment  
Field - Image  
Field - Text

# Inset Wrapped with Text Field Definitions

## Manage fields

[Edit](#)[Manage fields](#)[Manage form display](#)[Manage display](#)

Home » Administration » Structure » Paragraphs types » Inset wrapped with text 1

[+ Add field](#)

LABEL	MACHINE NAME	FIELD TYPE	OPERATIONS
IWWT1 Horizontal Alignment	field_iwwt1_horizontal_alignment	List (text)	<a href="#">Edit</a> ▾
IWWT1 Image	field_iwwt1_image	Image	<a href="#">Edit</a> ▾
IWWT1 Text	field_iwwt1_text	Text (formatted, long, with summary)	<a href="#">Edit</a> ▾

# Inset Wrapped with Text field\_iwwt1\_horizontal\_alignment

*Edit Demo Article Content – Inset Wrapped with Text*

[View](#) [Edit](#) [Delete](#) [Revisions](#)

[Home](#) » Content – Inset Wrapped with Text

**Title \***

Content – Inset Wrapped with Text

[Show row weights](#)

**DEMO ARTICLE PARAGRAPHS**

⊕ Type: Inset Wrapped With Text – Using Component Library

[Collapse](#)

- None -

✓ Left

Right



Alternative text \*

# Inset Wrapped with Text Display Modes

Manage display

Edit Manage fields Manage form display Manage display

Default Preview Teaser – Multi Column Chunk

Home » Administration » Structure » Paragraphs types » Inset wrapped with text 1

+ Add group

Show row weights

FIELD	LABEL	FORMAT		
IWWT1 Horizontal Alignment	- Hidden -	Default		
IWWT1 Image	- Hidden -	Image	Original image	⚙
IWWT1 Text	- Hidden -	Default		

# Multi Column Layout

## Content - All

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### Content - Inset Wrapped with Text

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Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labo

### Content - Image with Quote

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### Content - Inset Wrapped with Text 2

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### Content - Inset Wrapped with Text

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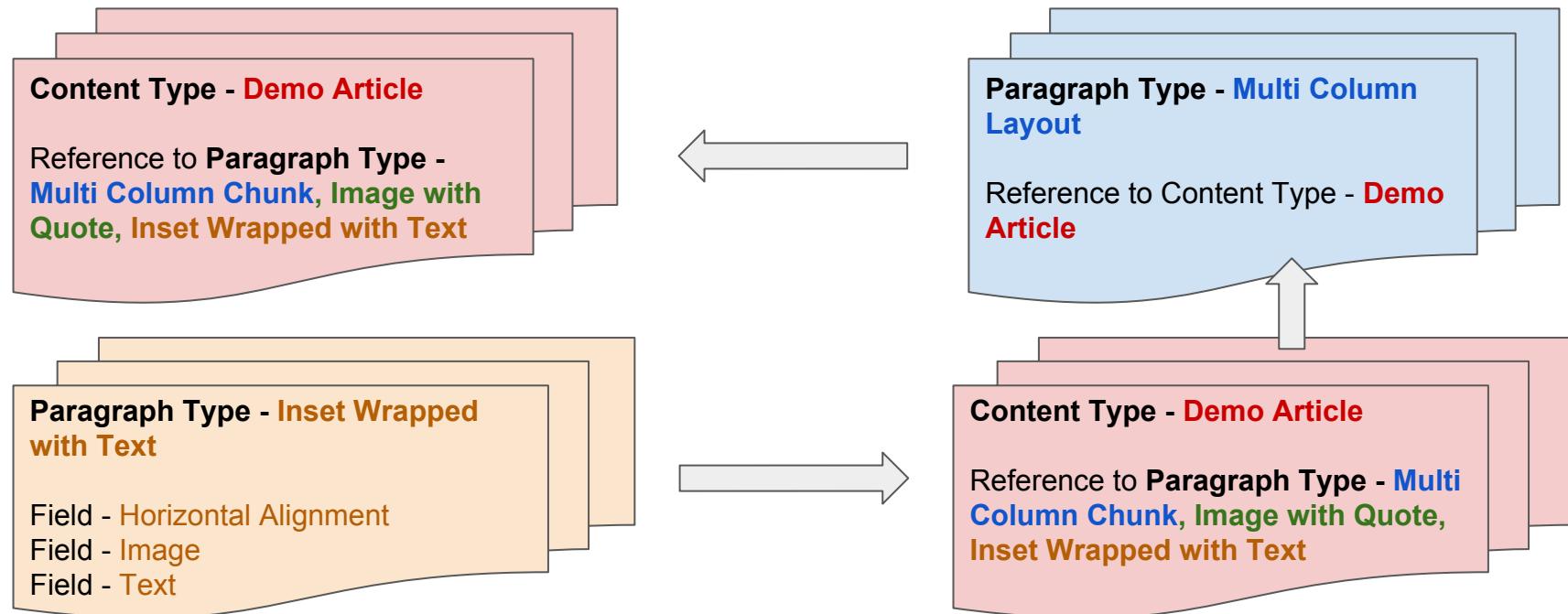
### Content - Inset Wrapped with Text 2

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Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor in



# Multi Column Layout



# Multi Column Layout

## Field Definitions

The screenshot shows a modal or dropdown menu with a light gray background and a white header. It contains two sections:

- Reference revisions**
  - Paragraph
  - Other...**
- Text**
  - List (text)
  - Text (formatted)
  - Text (formatted, long)
  - Text (formatted, long, with summary)
  - Text (plain)
  - Text (plain, long)

The second dropdown menu is also titled "Reference" and has a similar structure:

- Content**
  - File
  - Image
  - Taxonomy term
  - User
  - Other...
- Reference revisions**
  - Paragraph
  - Other...
- Text**
  - List (text)
  - Text (formatted)

The screenshot shows the "Manage fields" interface with a table of fields and a detailed configuration dialog.

**Manage fields**

LABEL	MACHINE NAME	FIELD TYPE	OPERATIONS
MCC1 Entity Ref Content	field_mcc1_entity_ref_content	Entity reference revisions	<button>Edit</button>
MCC1 Ref Content Type	field_mcc1_ref_content_type	Entity reference	<button>Edit</button>

**Detailed Configuration Dialog: MCC1 Entity Ref Content**

**▼ REFERENCE TYPE**

**Reference method \***  
Default

Create referenced entities if they don't already exist

**Content types \***

Article

Basic page

Demo Article

**Sort by**  
- None -

# Entity Reference Revisions

Drupal Module [https://www.drupal.org/project/entity\\_reference\\_revisions](https://www.drupal.org/project/entity_reference_revisions)

- Paragraphs dependency
- Do you want a specific revision or the most recent revision?

# Entity Reference Revisions

Entity Reference

Entity Reference Revision

## Content - Multi Column Chunk

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### Content - Inset Wrapped with Text 2

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# Multi Column Layout

## Display Modes

Manage display

Edit Manage fields Manage form display Manage display

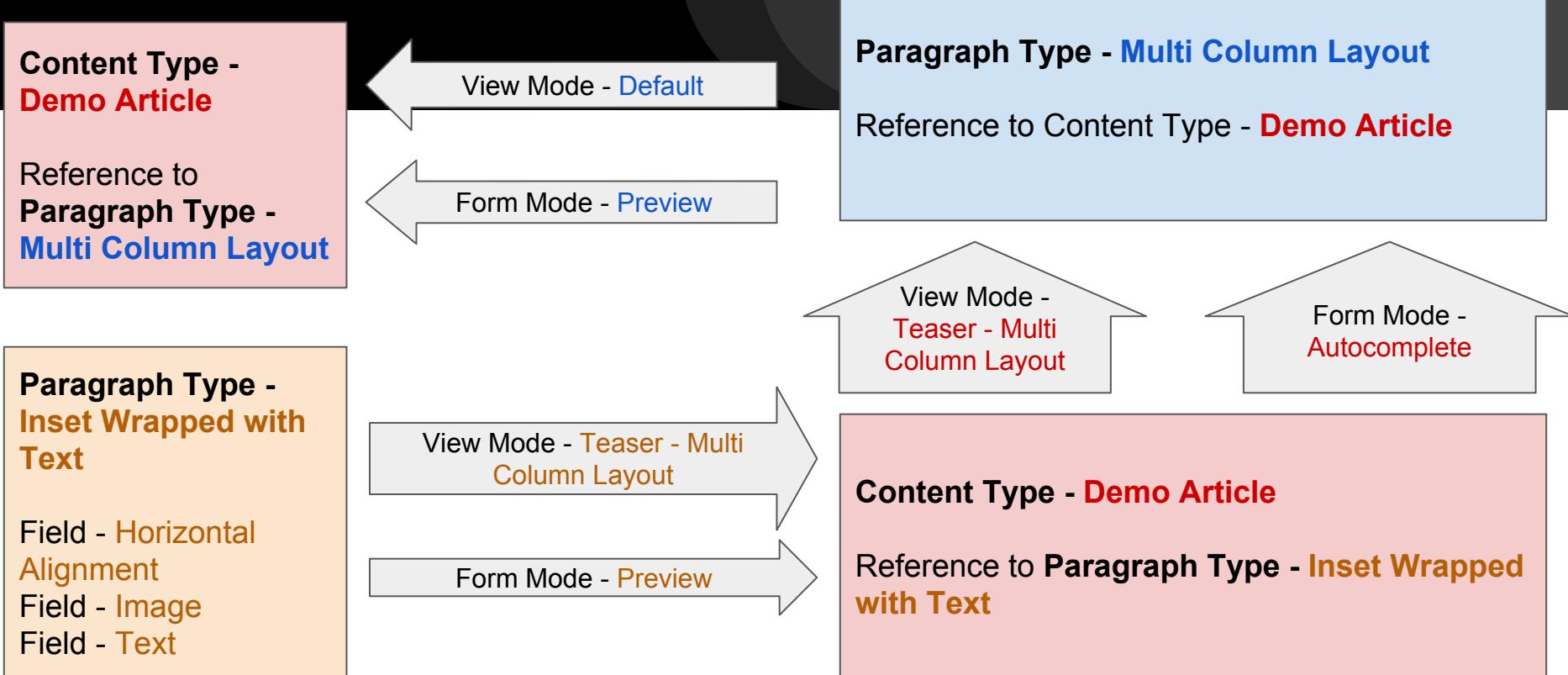
Default Preview

Home » Administration » Structure » Paragraphs types » Multi column chunk 1

+ Add group Show row weights

FIELD	LABEL	FORMAT	
⊕ MCC1 Ref Content Type	- Hidden -	Rendered entity ▾	Rendered as Teaser – Multi Column Chunk
⊕ MCC1 Entity Ref Content	- Hidden -	Rendered entity ▾	Rendered as Teaser – Multi Column Chunk

# Teaser - Multi Column Chunk



## Demo Article View Display - Default

## Multi Column Layout View Display - Default

## Demo Articles View Display - "Teaser - Multi Column Chunk"

## Inset Wrapped with Text View Display - "Teaser - Multi Column Chunk"

Content - All  
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Content - Inset Wrapped with Text  
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Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labo

Content - Image with Quote  
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Content - Inset Wrapped with Text 2  
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Content - Inset Wrapped with Text  
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Content - Inset Wrapped with Text 2  
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# Teaser - Multi Column Chunk

# Teaser - Multi Column Chunk

## Content - Inset Wrapped with Text

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## Content - Image with Quote

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## Content - Inset Wrapped with Text 2

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**NEWEST REVISION** Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor in

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## Content - Image with Quote

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# Demo Article

## Demo Article - 1

### Image With Quote

### Inset Wrapped With Text

### Multi Column Chunk

#### Demo Article - 2

Inset Wrapped  
With Text

#### Demo Article - 3

Image With  
Quote

#### Demo Article - 4

Inset Wrapped  
With Text

### Content - All

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#### Content - Inset Wrapped with Text

Submitted by [admin](#) on Sun,  
02/12/2017 - 18:22

 Lorem  
ipsum dolor  
sit amet,  
consectetur  
adipiscing elit, sed  
do eiusmod tempor  
incididunt ut labo

#### Content - Image with Quote

Submitted by [admin](#) on Sun,  
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#### Content - Inset Wrapped with Text 2

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**NEWEST  
REVISION**  Lorem  
ipsum dolor sit  
amet, consectetur  
adipiscing elit, sed  
do eiusmod tempor  
incididunt ut labo

[Read more](#)

# Demo Article

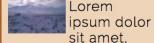
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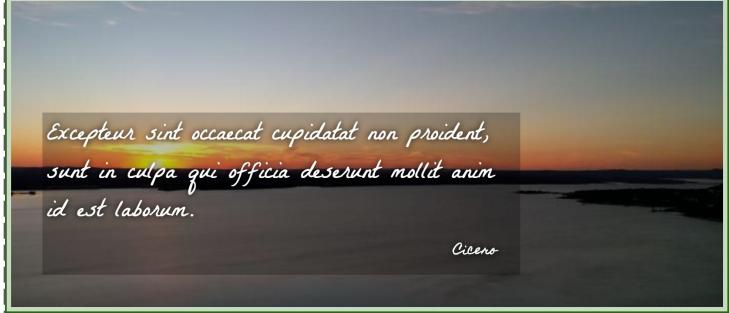
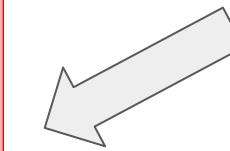


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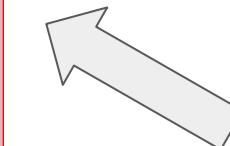
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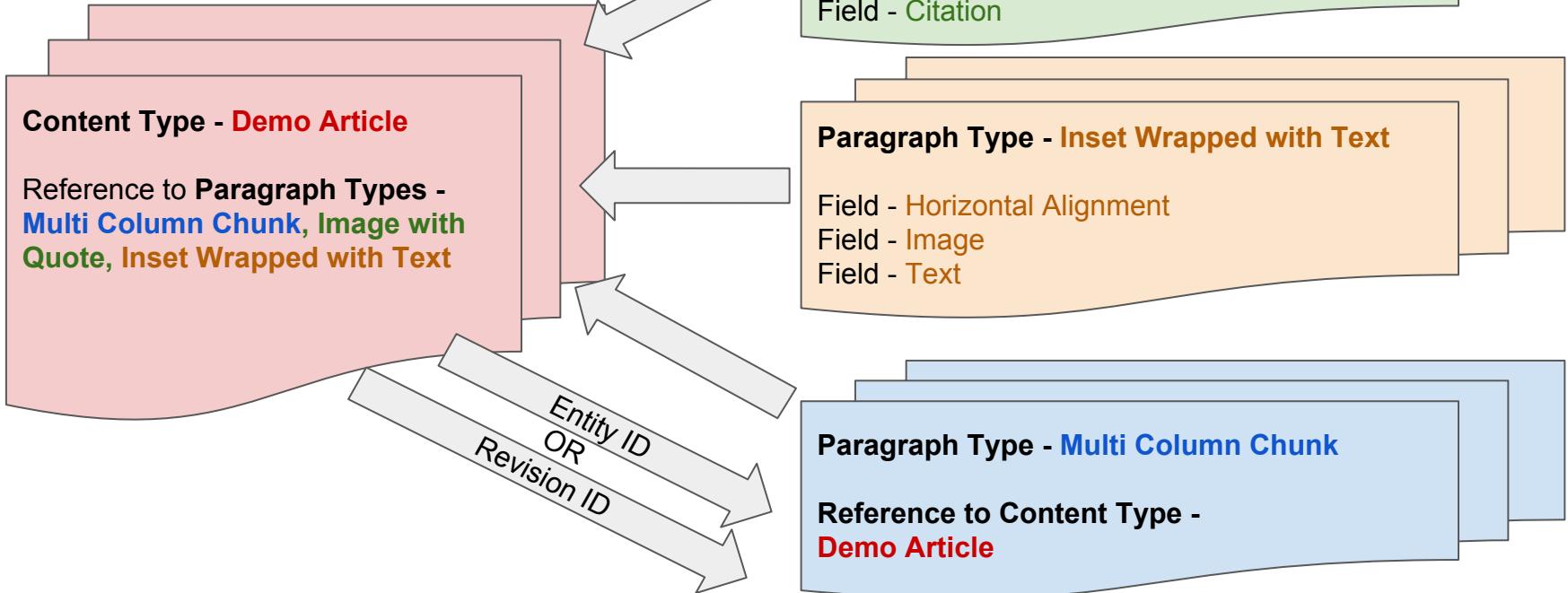


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**Content - Inset Wrapped with Text 2**  
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**NEWEST REVISION**  
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor in

# Demo Article



# Demo Article

## Field Definitions

Manage fields

Edit Manage fields Manage form display Manage display

Home » Administration » Structure » Content types » Demo article

+ Add field

LABEL	MACHINE NAME	FIELD TYPE	OPERATIONS
Demo Article Paragraphs	field_da_paragraphs	Entity reference revisions	<button>Edit</button>

Reference revisions

- ✓ Paragraph
- Other...

Text

- List (text)
- Text (formatted)
- Text (formatted, long)
- Text (formatted, long, with summary)
- Text (plain)
- Text (plain, long)

▼ REFERENCE TYPE

Reference method \*

Default

Paragraph types

TYPE

C

B

A

- Multi Column Chunk – Using Component Library
- Inset Wrapped With Text – Using Component Library
- Image with Quote – Using Component Library and Field Groups

The paragraph types that are allowed to be created in this field. Select none to allow all paragraph types.

# Demo Article Form Display

## Manage form display

Edit   Manage fields   Manage form display   Manage display

Home » Administration » Structure » Content types » Demo article

Content items can be edited using different form modes. Here, you can define which fields are shown and hidden when *Demo Article* content is edited in each form mode, and define how the field form widgets are displayed in each form mode.

+ Add group

Show row weights

FIELD	WIDGET	
⊕ Demo Article Paragraphs	Paragraphs ▾	Title: Paragraph Plural title: Paragraphs Edit mode: Preview Add mode: Dropdown button Form display mode: default

⊕ Demo Article Paragraphs

Widget settings: **Paragraphs**

**Paragraph Title \***  
  
Label to appear as title on the button as "Add new [title]", this label is translatable

**Plural Paragraph Title \***  
  
Title in its plural form.

**Edit mode \***  
  
The mode the paragraph is in by default. Preview will render the paragraph in the preview view mode.

**Add mode \***  
  
The way to add new paragraphs.

**Form display mode \***  
  
The form display mode to use when rendering the paragraph form.

# Demo Article

Home > Content - All

Title: Content - All

Show row weights

DEMO ARTICLE PARAGRAPHS

Type: Image with Quote – Using Component Library and Field Groups

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Cicero

Type: Inset Wrapped With Text – Using Component Library

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Type: Multi Column Chunk – Using Component Library

Content - Inset Wrapped with Text

Submitted by admin on Sun, 02/12/2017 - 18:22

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labo

Content - Image with Quote

Submitted by admin on Sun, 02/12/2017 - 18:24

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Content - Inset Wrapped with Text 2

Submitted by admin on Sun, 02/12/2017 - 18:23

NEWEST REVISION

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Add Multi Column Chunk – Using Component Library ▾ to Demo Article Paragraphs

Save and keep published ▾ Preview Delete

Content - All

Submitted by admin on Sun, 02/12/2017 - 18:28

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Read more

# Styling Paragraphs

- Adding classes through the UI
- Adding classes using twig templates
- Mix of both
- Making style “components” that can be referenced by @namespace in an admin theme for content editing/creation

# Styling Paragraphs - Adding Classes

1. Through the UI
  - a. One way is using the Field Group module [https://www.drupal.org/project/field\\_group](https://www.drupal.org/project/field_group)
2. Using Twig Templates

```
{% extends "paragraph.html.twig" %}  
{% set attributes = attributes.addClass('multi-column-layout') %}
```

# RECAP

## Image with Quote

### Display Modes

Manage display

Edit Manage fields Manage form display Manage display

Default Preview Teaser – Multi Column Chunk

Home » Administration » Structure » Paragraphs types » Image with quote 4

+ Add group

Show row weights

FIELD	LABEL	FORMAT	
Region 1		HTML element	Extra CSS classes: image-with-quote-overlay__image Element: div
IWQ4 Image	- Hidden -	Image	Image style: Image With Quote – Crop
Region 2		HTML element	Extra CSS classes: image-with-quote-overlay__quote Element: div
IWQ4 Quote	- Hidden -	Default	
Region 3		HTML element	Extra CSS classes: image-with-quote-overlay__citation Element: div
IWQ4 Citation	- Hidden -	Default	

# Main Theme

Simple demo theme extended from “bartik” theme

# Creating Paragraph Components

Component Libraries Module <https://www.drupal.org/project/components>

- “Namespace” a directory so that we don’t have to keep our templates in the “templates” directory of the theme.
- Allows fun with pattern-lab etc.
- Lets us reference the component from “anywhere,” including our admin theme

# Components



# Creating Paragraph Components

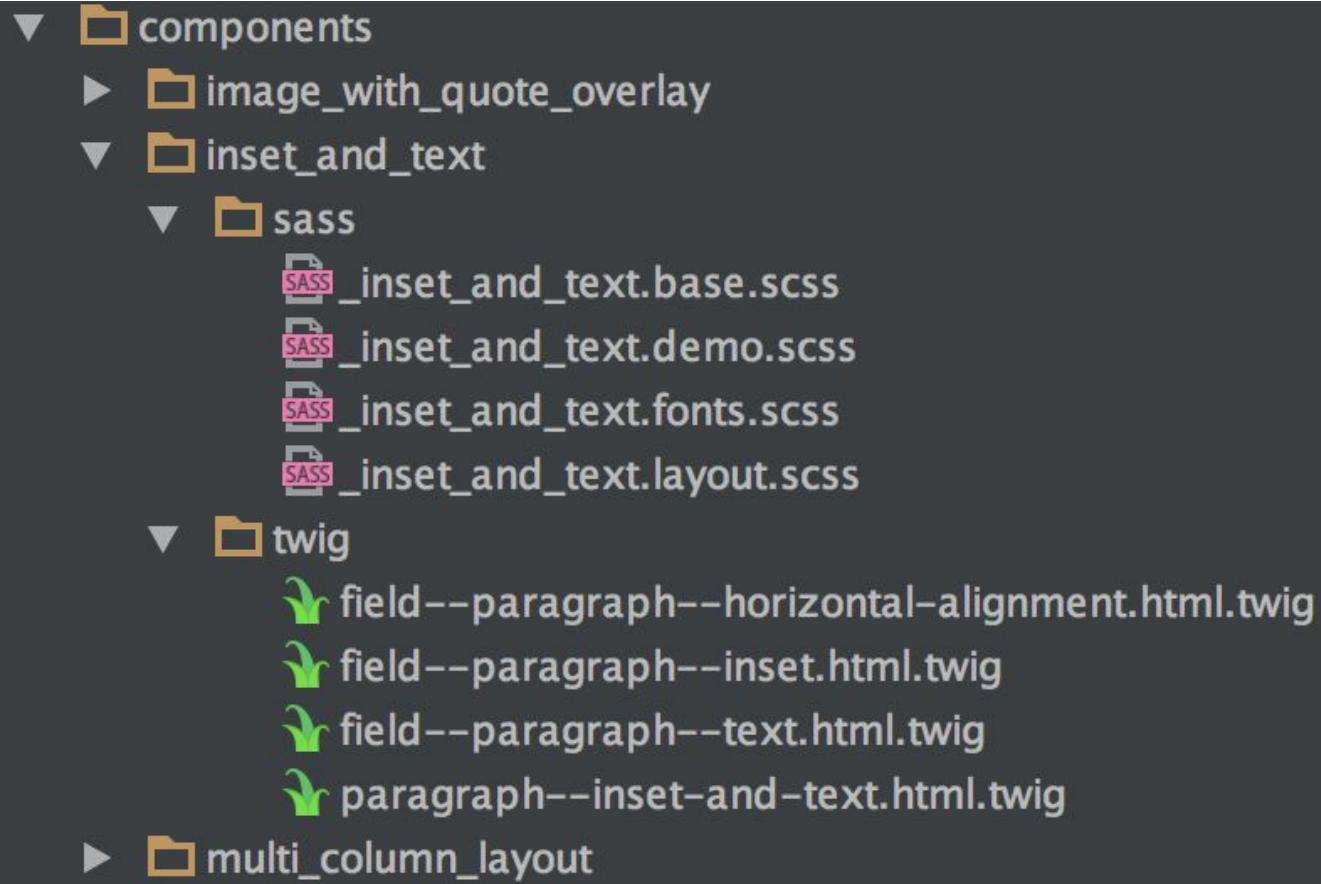
“Component Libraries” are defined in the theme.info.yml file  
apdmt.info.yml

```
component-libraries:
  image_with_quote_overlay:
    paths:
      - components/image_with_quote_overlay/twig
  inset_and_text:
    paths:
      - components/inset_and_text/twig
  multi_column_layout:
    paths:
      - components/multi_column_layout/twig
```

# Creating Paragraph Components

Other libraries are defined in the theme.libraries.yml file  
apdmt.libraries.yml

```
inset-and-text-fonts:  
  license:  
    name: SIL Open Font License, 1.1  
    url: http://scripts.sil.org/cms/scripts/page.php?site_id=nrsi&id=OFL  
  css:  
    theme:  
      '//fonts.googleapis.com/css?family=Raleway:100,200,300,400': { type: external }  
  
inset-and-text-css:  
  css:  
    theme:  
      css/inset_and_text.styles.css: {}
```



# Components - inset\_and\_text



```
# Intentionally left blank so that this field does not display  
# Field value will be used in parent "calling" template
```

```
{% extends "@inset_and_text/field--paragraph--horizontal-alignment.html.twig" %}
```

## Components - inset\_and\_text

field--paragraph--inset.html.twig



```
[#]  
... Extends 'field.html.twig' following the rules of theme inheritance, see  
... https://www.drupal.org/node/2387069 for details
```

```
Adds css class inset-and-text_inset to the attributes variable
```



```
{% extends "field.html.twig" %}  
{% set attributes = attributes.addClass('inset-and-text_inset') %}
```

field--paragraph--field-iwtt1-image.html.twig

```
{% extends "@inset_and_text/field--paragraph--inset.html.twig" %}
```

# Components - inset\_and\_text

field--paragraph--text.html.twig x

```
{#  
  . Extends 'field--text.html.twig' following the rules of theme inheritance, see  
  . https://www.drupal.org/node/2387069 for details  
  . Adds css class inset-and-text_text to the attributes variable  
#}  
  
{% extends "field--text.html.twig" %}  
{% set attributes = attributes.addClass('inset-and-text_text') %}
```

field--paragraph--field-iwwt1-text.html.twig x

```
{% extends "@inset_and_text/field--paragraph--text.html.twig" %}
```

# Components - inset\_and\_text

paragraph--inset-and-text.html.twig

```
[#  
... Extends 'paragraph.html.twig' following the rules of theme inheritance, see  
... https://www.drupal.org/node/2387069 for details  
... Adds css class inset-and-text to the attributes variable  
#]  
  
{% extends "paragraph.html.twig" %}  
{% set attributes = attributes.addClass('inset-and-text') %}
```

paragraph--inset-wrapped-with-text-1.html.twig

```
 {{ attach_library('apdmt/inset-and-text-fonts') }}  
 {{ attach_library('apdmt/inset-and-text-css') }}  
  
{% set attributes = attributes.addClass('inset-and-text') %}  
  
{{ if content.field_iwtt1_horizontal_alignment }}  
  {% set alignment_class = 'align-' ~ content.field_iwtt1_horizontal_alignment.0['#markup']|clean_class %}  
  {% set attributes = attributes.addClass(alignment_class) %}  
{{ endif }}  
  
{% include "@inset_and_text/paragraph--inset-and-text.html.twig" %}
```

# Components - inset\_and\_text

node--teaser-multi-column-layout.html.twig



```
{#
... Extends 'node.html.twig' following the rules of theme inheritance, see
... https://www.drupal.org/node/2387069 for details

... Adds css class link-container to the title_attributes variable. Please see
... ./sass/_multi_column_layout.base.scss for details.

#}

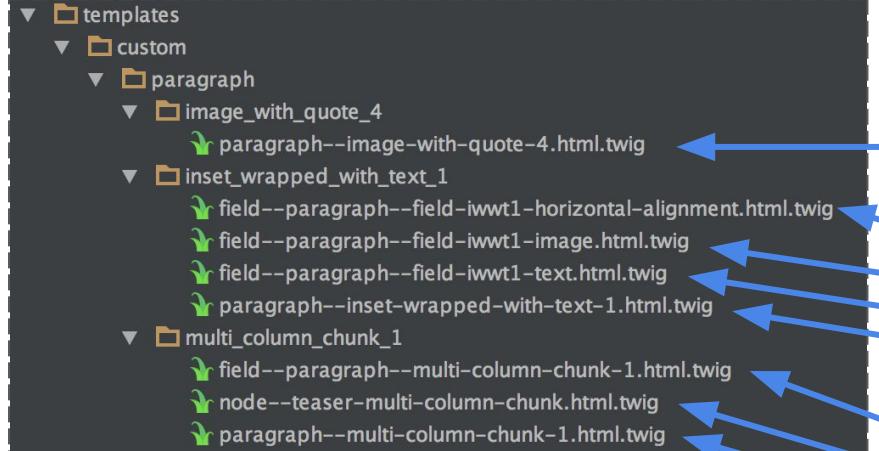
{% extends "node.html.twig" %}
{% set title_attributes = title_attributes.addClass('link-container') %}
```

node--teaser-multi-column-chunk.html.twig

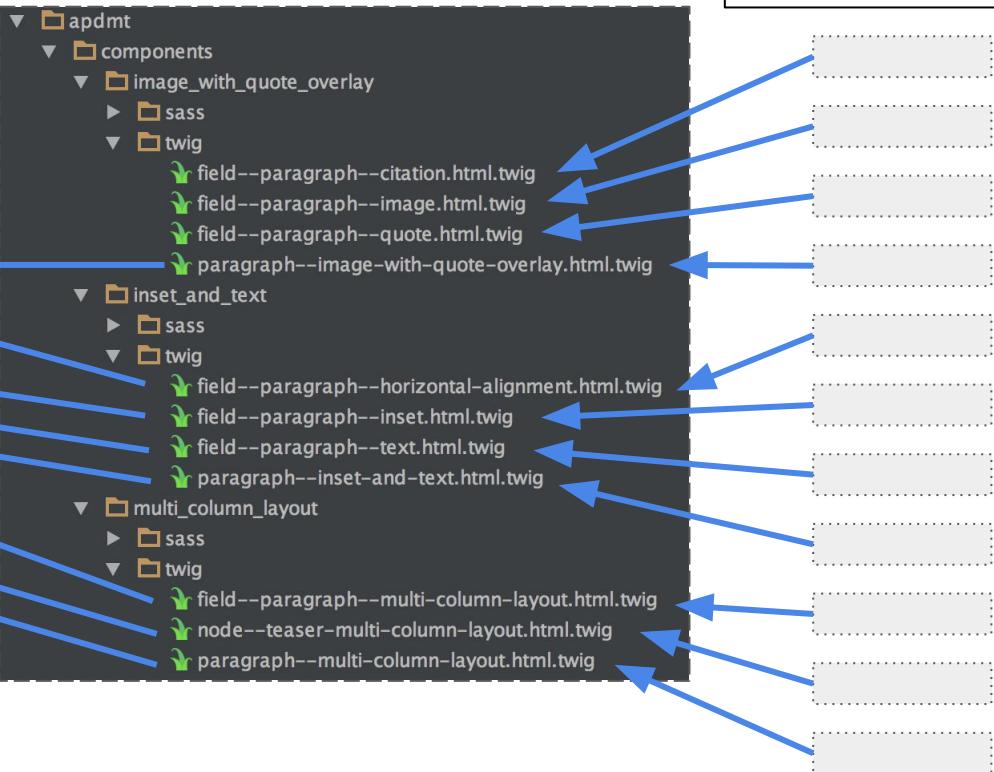
```
{% set title_prefix = "" %}
{% set display_submitted = FALSE %}
{% set content = content.field_da_paragraphs[0] %}
{% include "@multi_column_layout/node--teaser-multi-column-layout.html.twig" %}
```

## Components - multi\_column\_layout

## templates Directory



## components Directory



Somewhere else...

“Wiring up” Components

# Admin Theme

Simple admin theme by extending “seven”

Block configuration should probably be included and transported to theme config

The screenshot shows the 'Block layout' configuration page for the 'ADUG Paragraphs Demo Admin Theme'. The page has a header with tabs for 'Block layout' (selected) and 'Custom block library'. Below the tabs is a navigation bar with links: 'ADUG Paragraphs Demo Main Theme', 'Bartik', 'Seven', and 'ADUG Paragraphs Demo Admin Theme'. The main content area displays the breadcrumb: 'Home » Administration » Structure » Block layout'. A message states: 'Block placement is specific to each theme on your site. Changes will not be saved until you click Save blocks at the bottom of the page.' A link 'Demonstrate block regions (ADUG Paragraphs Demo Admin Theme)' is present. A table lists block configurations:

BLOCK	CATEGORY	REGION	OPERATIONS
Header <a href="#">Place block</a>			
⊕ Page title	core	Header ▾	<a href="#">Configure ▾</a>
⊕ Primary Tabs	core	Header ▾	<a href="#">Configure ▾</a>
Pre-content <a href="#">Place block</a>			

# Admin Theme

- All component libraries and theme libraries can be referenced.
- If css files for components are defined in separate libraries, it is possible to only import the css that is relevant to the component.

```
 {{ attach_library('apdmt/image-with-quote-overlay-fonts') }}  
 {{ attach_library('apdmt/image-with-quote-overlay-css') }}  
 {% include "@image_with_quote_overlay/paragraph--image-with-quote-overlay.html.twig" %}
```

- Copy the templates/custom directory from your main theme to the admin theme

# Admin Theme

Home > Content - All

Title: Content - All

Show row weights

DEMO ARTICLE PARAGRAPHS

Type: Image with Quote – Using Component Library and Field Groups

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Cicero

Type: Inset Wrapped With Text – Using Component Library

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Save and keep published ▾ Preview Delete

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NEWEST REVISION

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Read more

# More Fun with Paragraphs

Check out the [Block Field](#) project for adding blocks to a paragraph. You can then attach just about any block from Drupal's block system to a paragraph. View blocks can be added this way. You can also use Block Field to attach a form from core contact module using [Contact Block](#).

# Paragraph Issues

“[META] Reuse paragraphs / Library”

<https://www.drupal.org/node/2414865>

Twig templates [do] not respect theme inheritance

<https://www.drupal.org/node/2387069>

“Allow paragraph type deletion if content exists”

<https://www.drupal.org/node/2764681>

“Trouble deleting and removing Paragraphs - can't uninstall”

<https://www.drupal.org/node/2609782>

# Further Reading about Twig

## Twig Docs - Embed vs. Include vs. Extends

<http://twig.sensiolabs.org/doc/2.x/tags/embed.html>

<http://twig.sensiolabs.org/doc/2.x/tags/include.html>

<http://twig.sensiolabs.org/doc/2.x/tags/extends.html>

## Articles about Twig Extending/Including/Embedding

<http://running-on-drupal8.co.uk/blog/twig-extends-twig-block-base-theme>

<http://running-on-drupal8.co.uk/blog/twig-blocks-drupal>

<https://atendesigngroup.com/blog/template-inheritance-drupal-8-twig-extend>

<https://ffwagency.com/digital-strategies-blog/power-extending-twig-templates>

Video Series about Component Based Theming

<https://www.fourkitchens.com/blog/article/component-based-theming-drupal-8-video-series>

Kss-node

<https://github.com/fourkitchens/kss-with-drupal>

Drupal 8 - Pattern Lab Starter

<https://www.drupal.org/project/emulsify>

Multi-part tutorial about integrating components into drupal

<https://www.mediacurrent.com/blog/integrating-components-drupal-8-part-1>

Article about component based theming

<http://www.mediacurrent.com/blog/component-based-theming-drupal-8>

Link to demo theme

<https://github.com/mariohernandez/components-demo>

Presentation about Pattern Lab and Drupal 8

<http://www.evanlovely.com/notes/pattern-lab/integrating-pattern-lab-into-drupal-workshop.pdf>

Article about Pattern Lab and Drupal 8

<https://www.phase2technology.com/blog/introducing-pattern-lab-starter-8/>

Drupal 8 - Pattern Lab Starter

<https://github.com/phase2/pattern-lab-starter>

# Thank you

The End