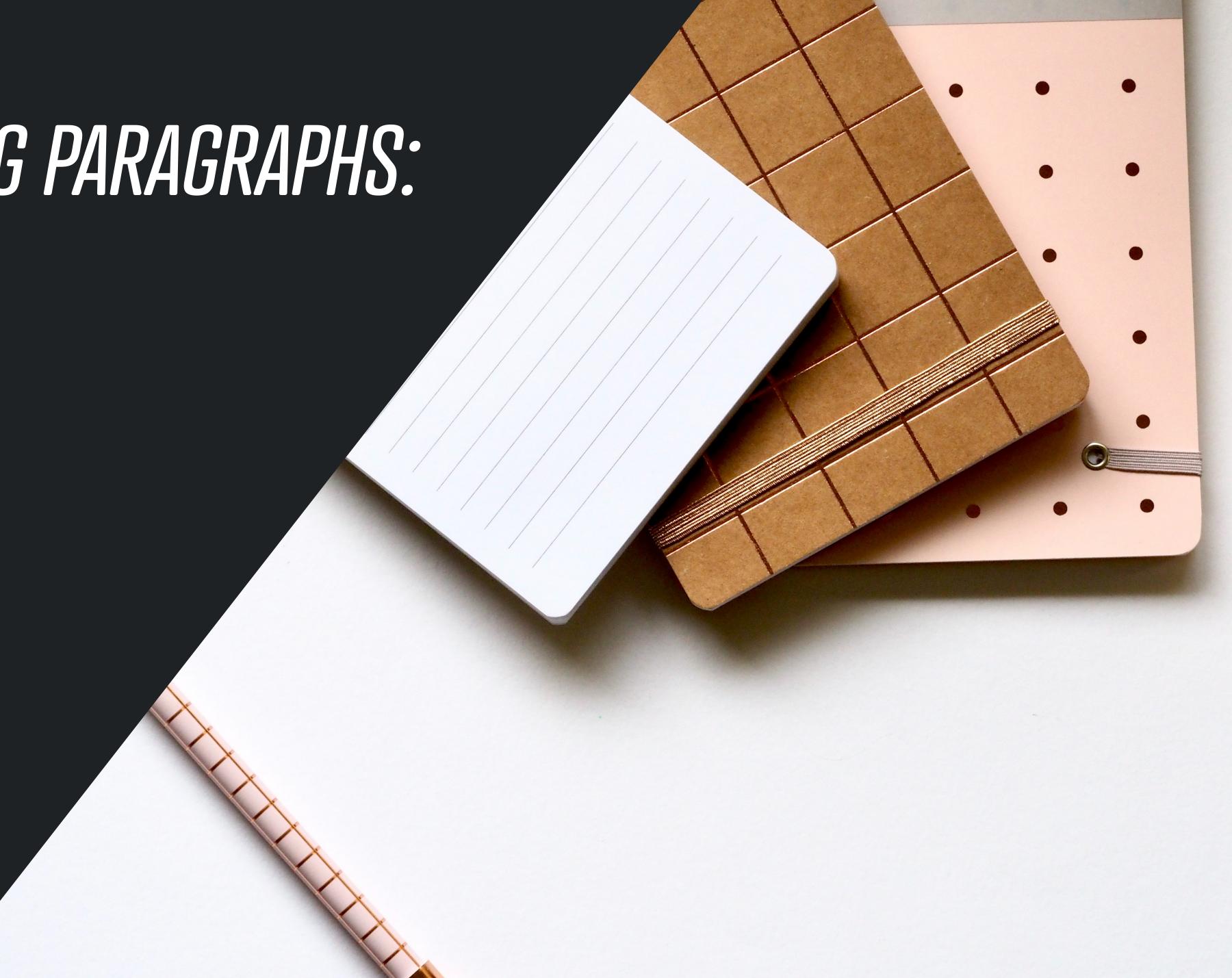


A BEGINNERS GUIDE

MIDCAMP 2019 FRIDAY: 1:35-2:05PM ROOM 314A









GITHUB REPO:

HTTPS://GITHUB.COM/WALANGITAN/CHROMATIC_PARAGRAPHS



OUTCOMES

- Preprocess paragraphs and structure your preprocessing methods.
- Create custom render arrays and override twig templates.
- Reference nested entities and pull data into paragraph twig templates.
- Debug your preprocessing and twig files without running out of memory.





PREREQUISITES

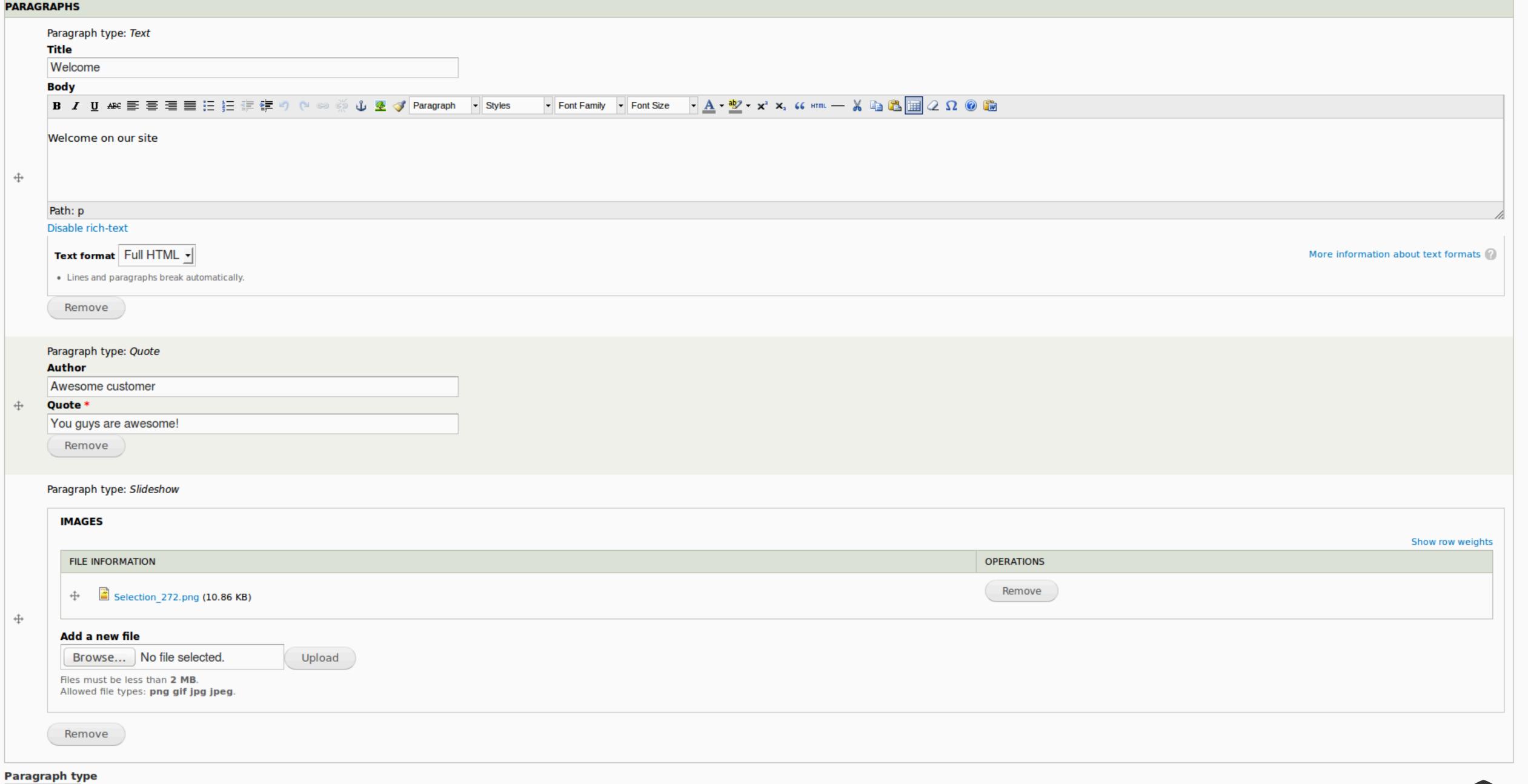
- Familiar with:
 - Drupal 8
 - Twig
 - PHP
 - Paragraphs Module



PARAGRAPHS

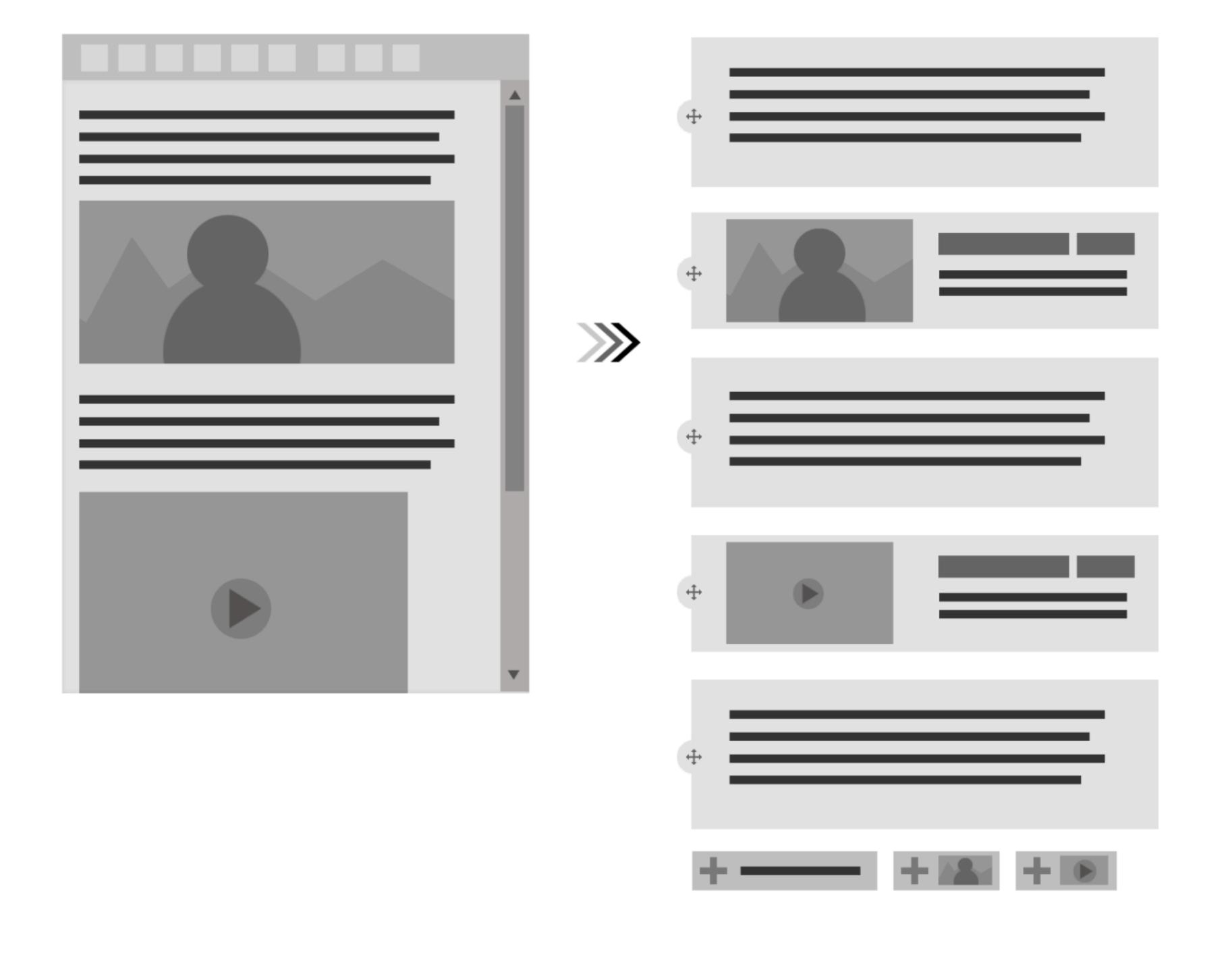
- An entity with configurable fields.
- Has different types
- Has view modes



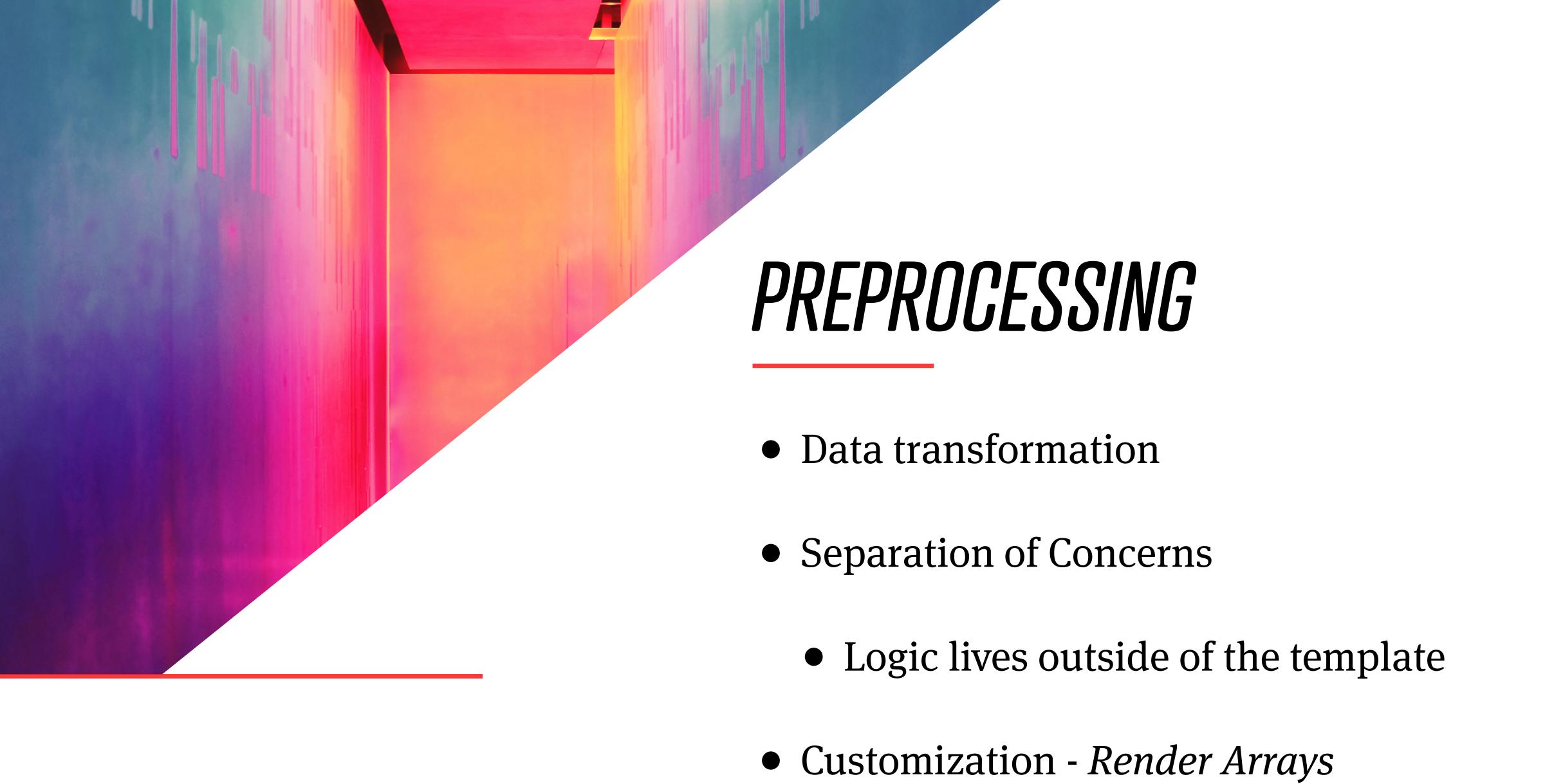


Slideshow - Add another paragraph











A PREPROCESSING RECIPE



01

Each *paragraph type* is defined in hook_theme.

02

All preprocessing handled by a **Class**.

03

Each *paragraph type* has a corresponding method.

04

Each *paragraph type* has a corresponding twig template.



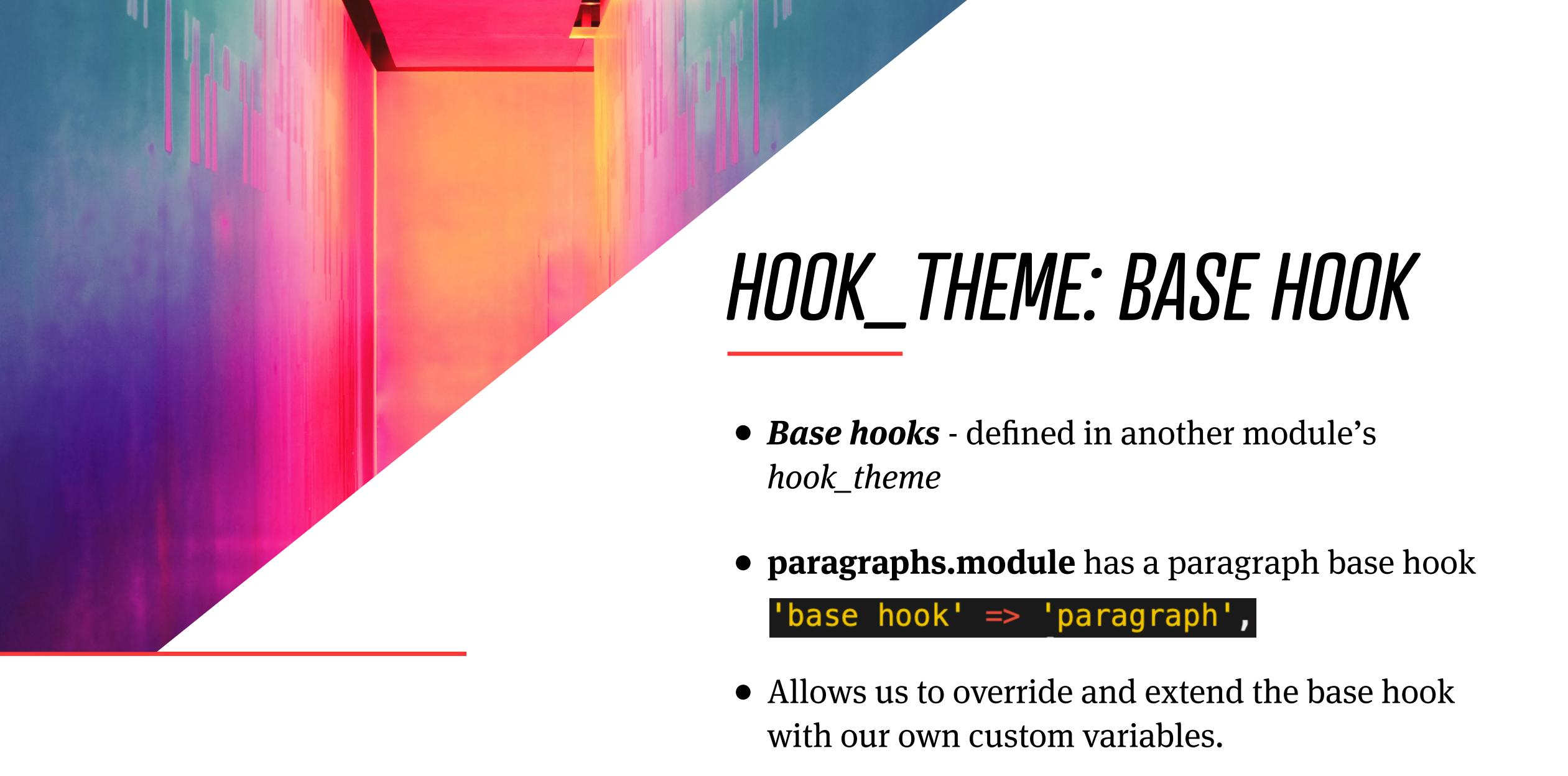




HOOK_THEME: SETUP

```
'paragraph__foo' => [
   'base hook' => 'paragraph',
   'variables' => [
      'header' => NULL,
      'text' => NULL,
      'path' => $path . '/templates/paragraph',
],
```







HOOK_THEME: VARIABLES

• *variables* - an array of custom variables and their default values.

```
'variables' => [
  'header' => NULL,
  'text' => NULL,
],
```







PREPROCESS CLASS

• src/paragraphPreprocessor.php

```
<?php
namespace Drupal\chromatic_paragraphs;
use Drupal\file\Entity\File;
/**
   * Custom Preprocessor methods for Chromatic Paragraphs.
   */
class ParagraphsPreprocess {</pre>
```







```
/**
* Custom Preprocessor methods for Chromatic Paragraphs.
class ParagraphsPreprocess {
 /**
  * Implements hook_preprocess_paragraph_ foo().
 public function preprocessFoo(array &$variables) {
   $content = $variables['content'];
   $variables['header'] = $content['field_header'][0]['#markup'];
   // {{ header }}
   $variables['text'] = $content['field_body'][0]['#text'];
   // {{ text }}
```





paragraph—foo.html.twig

```
<div class="foo">
  <h2 class="foo-header">{{ header }}</h2>
  <div class="foo-text">
      {{ text }}
  </div>
</div>
```



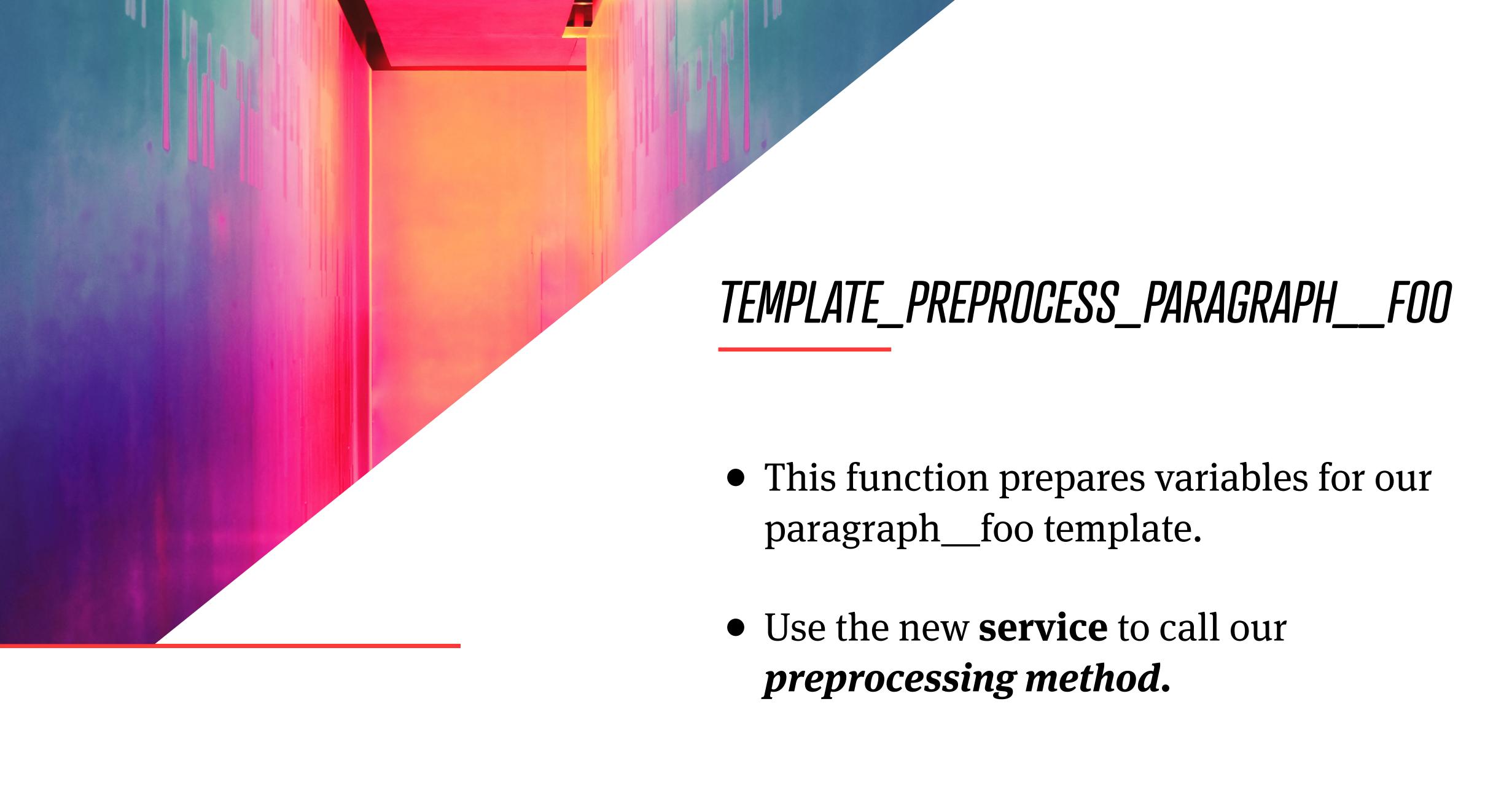




chromatic_paragraphs.services.yml >

services: chromatic_paragraphs.paragraphs_preprocess: class: Drupal\chromatic_paragraphs\ParagraphsPreprocess

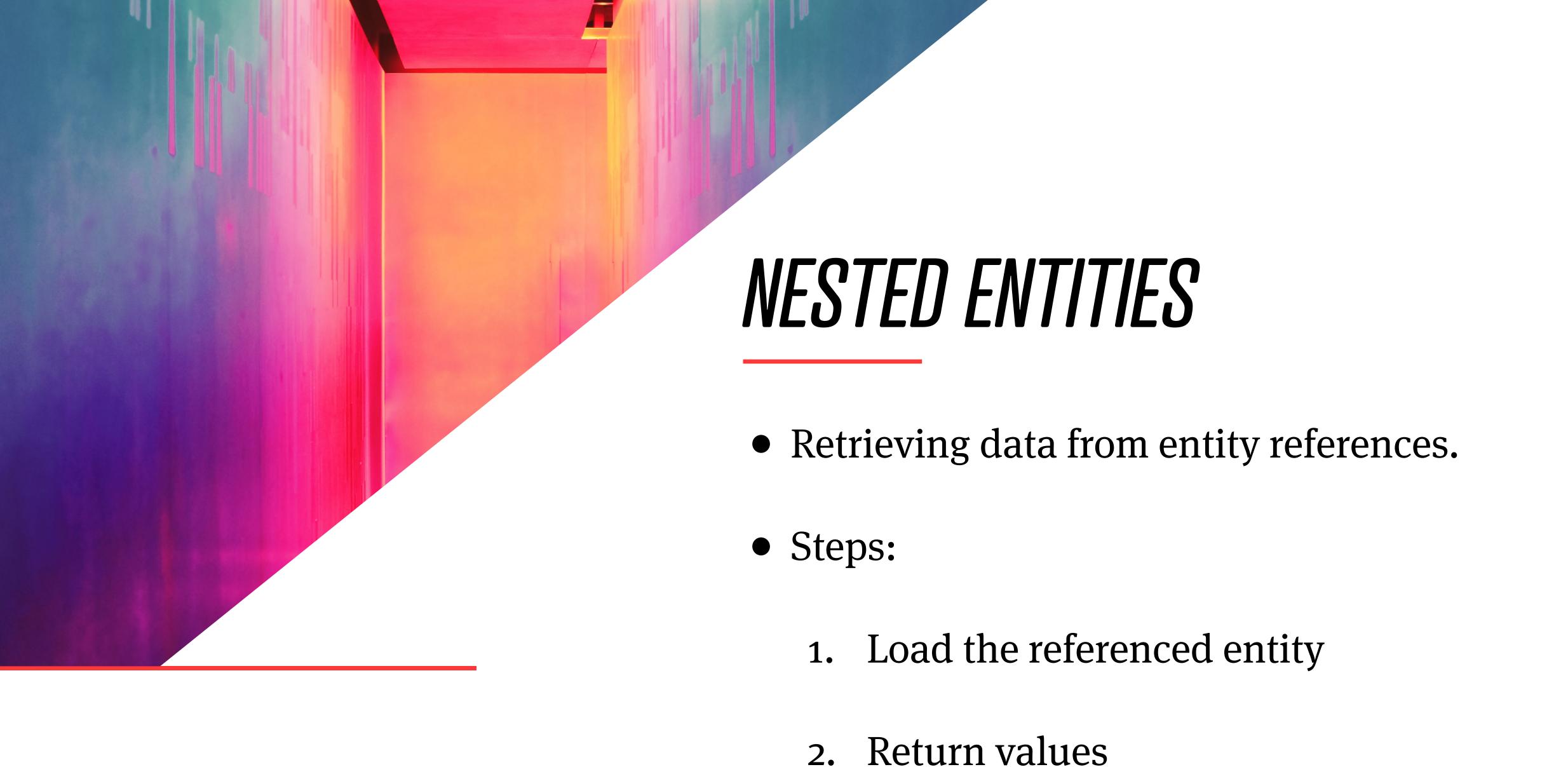






```
/**
   * Chromatic Paragraphs Preprocess Class.
   */
define('CHROMATIC_PARAGRAPHS_PREPROCESS_CLASS', 'chromatic_paragraphs.paragraphs_preprocess');
/**
   * Implements hook_preprocess_paragraph__foo().
   */
function template_preprocess_paragraph__foo(&$variables) {
   \Drupal::service(CHROMATIC_PARAGRAPHS_PREPROCESS_CLASS)->preprocessFoo($variables);
}
```







```
// Return an entity reference
$nested_entity = !empty($content['field_another_node'][0]['#node']) ? $variables['content']['field_another_node'][0]['#node'] : NULL;
if ($nested_entity) {
    // Return the field_header value of the entity reference.
    $variables['header'] = $nested_entity->field_header->value;
    // {{ header }}
}
```



PUTTING IT ALL TOGETHER



Each *paragraph type* is defined in hook_theme.

02

All preprocessing handled by a **Class**.

03

Each *paragraph type* has a corresponding method.

04

Each *paragraph type* has a corresponding twig template.



USE CASE



COMPONENT LIBRARIES



BLOCKQUOTE - <->

Since quoted content can itself contain citations, cite elements used for quote attribution should be wrapped in a footer element at the end of the blockquote. This ensures that only cite elements that make reference to source material are styled as such. Also, note that cite is used for the source material's title, but not the author. If you're just quoting an author without the specific work, just use the footer element without a cite.

When you are wrestling for possession of a sword, the man with the handle always wins.

Snow Crash, by Neil Stephenson



AUDIO PLAYER «





Download this episode



WHEN IT ALL GOES WRONG



DEBUGGING TOOLS

- Module: <u>Twig Vardumper</u>
- Symfony Component: <u>var_dumper</u>



```
{# Credit: MortonDK #}
{# Returns all available values for a template #}
<0l>
  {% for key, value in _context %}
   {| key }}
   {% if loop.index == 2 %}
     <{ dump(value) }}</pre>
   {% endif %}
  {% endfor %}
```



QUESTIONS & ANSWERS



GET INVOLVED!





CONTRIBUTION DAY - SATURDAY

- You don't have to know code to give back!
- New Contributor training 10am-12pm
 with AmyJune Hineline of Kanopi Studios
- 10am to 4pm



SESSION REVIEW: MID.CAMP/215

