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Hello!

I'm Sarah Campbell

I am a web developer at Coldfront Labs.



Overview

- Why we use twig
- ► Theme suggestions
- Twig syntax
- ► Reusable components
- ► Inheritance and block-based overwrites
- Debugging



Why use Twig?

- Secure
- ► Fast and Flexible
- Clean and maintainable code



Twig Environment

Twig Cache



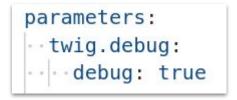
- Caching improves performance
- Parsed into PHP code
- Clear cache

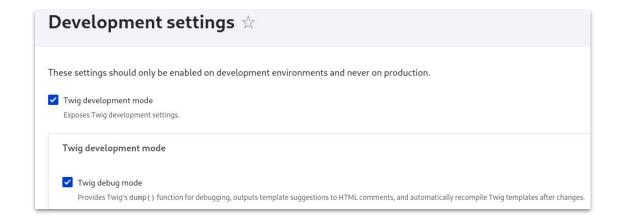
- Enable in services file OR
- Enable in Development config in the Drupal UI

```
parameters:
   twig.config:
    cache: false
```

Twig Debug

- Enable in services file OR
- Enable in Development config in the Drupal UI









2. Twig Templates

Naming Conventions



 Loads templates based on name Lowercase, hyphens to separate

 Allows us to override templates - .html.twig extension

http://www.example.com/node/1/edit

- page--node--edit.html.twig
- page--node--1.html.twig
- page--node.html.twig
- page.html.twig

Theme Suggestions



- File names used to override templates
- Listed most specific to least

Overriding templates



 Copy template file from base location into your theme folder Rename if targeting more specific subset of areas

<!-- BEGIN OUTPUT from 'themes/custom/flossy/templates/layout/page.html.twig' -->

Theme Hook Suggestions



 Add hook to module or theme and modify - Debug to see new theme suggestions

```
/**
| * Implements hook_theme_suggestions_HOOK_alter().
| **/
function hook_theme_suggestions_node_alter(array &$suggestions, array $variables) {
| * $logged_in = \Drupal::currentUser()->isAuthenticated();
| * if ($logged_in) {
| * * $suggestions[] = 'node_authenticated';
| * }
}
```



Twig Syntax

Identifiers



- {{ ... }} :
 Say something
- {% ... %} :
 Do something
- {# ... #} :
 Create comments

```
output: {{ name_of_variable }}
```

Identifiers



- {{ ... }} :
 Say something
- {% ... %} :
 Do something
- {# ... #} :
 Create a comment

```
{% for item in items %}<{{ item }}</li><{% endfor %}</li>
```

Identifiers

```
Coldfront
Labs Inc.
```

```
- {{ ... }} :
Say something
```

- {% ... %} :
 Do something
- {# ... #} :
 Create a comment

```
{# my comment #}
```

```
{# commented out code | ...{{ variable }} #}
```

Tags



- Control structures
- Conditionals
- Extend templates

```
{% set foo = 'bar' %}
```

```
{% apply upper %}
| This text becomes uppercase
{% endapply %}
```

Filters

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- Separated from variable by a pipe symbol
- May accept arguments
- Chain filters

```
{{ name_of_variable|name_of_filter }}

{{ var|default('var is not defined')}}

{{ variable|truncate(20)|title }}
```

Functions



- Generate content
- Accepts arguments
- Custom functions

```
{{ random(['bike', 'train', 'car']) }}
```

```
{{ block("title", "common_blocks.twig") }}
```

Drupals Twig Functions



 Drupal specific functions

```
{{ attach_library('classy/node') }}
```

```
<a href="{{ url('view.frontpage.page_1 }}">{{ 'Front Page'|t }}</a>
```

```
{{ link('Drupalize.Me', 'https://drupalize.me', {'class': ['external'], 'role':['link']}) }}

<!-- Output -->
<a href="https://drupalize.me" class="external" role="link">Drupalize.Me</a>
```

Custom Functions and Filters

Create file in modules src/twig directory

```
class AppExtension extends AbstractExtension {
../**
* {@inheritdoc}
public function getFunctions() {
· · · return [
new TwigFunction('custom function', [$this, 'customFunction']),
. . . . ] ;
../**
* Example of a custom function.
public function customFunction($param) {
···return "Processed: " . $param;
```



Custom Functions and Filters

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- Register the class as a new service
- Tag it with twig.extension
- Clear cache



4.
Twig Inheritance

Includes

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- Has access to active content variables
- Can add multiple includes to template

```
header.html.twig

<header>
--Here is our header content.
</header>

footer.html.twig

<footer>
--Here is our footer content.
</footer>
```

Includes



Can pass additional variables

Extend & Block Overrides



- First tag in template
- Modify existing templates
- Uses block tags to override certain blocks

```
block-news.html.twig

{% extends 'block.html.twig' %}

{% block headline %}

| ' < div class='headline-news'>{{ content.headline }}</div>
{% endblock %}
```

Embed

- Combines behaviors of include and extends
- Allows block overrides
- Takes same arguments as include tag

```
vertical_boxes.html.twig

<div class='top-box'>
|--{% block top %}
|--|--Top box default content.
|--{% endblock %}
| </div>

<div class='bottom-box'>
|--{% block bottom %}
|--|--Bottom box default content.
|--{% endblock %}
| </div>
```



Embed



- Embed can be used in conjunction with extends



5. Debug





 Use breakpoints with Xdebug

```
∨ Locals

\vee $context = array(34)
  > elements = array(28)
    theme_hook_original = "node"
 > attributes = Drupal\Core\Temp
  > title_attributes = Drupal\Core
  > content_attributes = Drupal\C
  > title_prefix = array(0)
  > title_suffix = array(0)
    db_is_active = true
    is_admin = false
    logged_in = false
    env = "local"
    username = "Anonymous"
```

- Use the dump function in the twig file

```
array:34 [▼
  "elements" => array:28 [▶]
  "theme hook original" => "node"
  "attributes" => Drupal\...\Attribute {#26326 ▶}
  "title_attributes" => Drupal\...\Attribute {#26425 ▶}
  "content_attributes" => Drupal\...\Attribute {#25666 ▶}
  "title_prefix" => []
  "title_suffix" => []
  "db_is_active" => true
  "is_admin" => false
  "logged_in" => false
  "env" => "local"
  "username" => "Anonymous"
  "user" => Drupal\...\AccountProxy {#24216 ▶}
```

Recap















THANKS!

Any questions?

You can contact me at scampbell@coldfrontlabs.ca



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