Drupal 8 Theming

Exploring Twig & Other Frontend Changes

CROWD

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About Me

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Agenda

- What is Twig & Why is it in D8
- Improving the Themer Experience
- Getting Involved
- Questions

Twig & D8

A New Template Engine

Drupal 7 = PHPTemplate

- Conflict between Back-end & Front-end
- Potential Security Issues
- 55 templates
  154 functions

Drupal 8 = Twig

- Keeps Back-end & Front-end Separated
- More Secure - Autoescaping
- 149 templates
  21 functions

a SENSIOLABS product

TWIG

The flexible, fast, and secure template engine for PHP

Crash Course

Comments & Vars

PHP

```
<?php

// My test variable
print $variable;
```

Twig

```
{# My test variable #}
{{ variable }}
```

Set Variables

```
{% set variable = 'result' %}
```

```
{%
    set array = [
      'foo',
      'bar',
    ]
%}
```

Arrays

PHP

```
<?php

  print $foo[‘bar’][‘und']->content['baz']['foo']['bar'];

?>
```

Twig

```
{{ foo.bar.content.baz.foo.bar }}
```

Finding Stuff in Twig

Print all available variables

```
{{ dump() }}
```

Print content of specific variable

```
{{ dump(foo) }}
```

Loops

```
<h2>Organizers</h2>
<ul>
  {% for user in users %}
     <li>{{ user.username}}</li>
  {% endfor %}
</ul>
```

```
<h2>Organizers</h2>
<ul>
  <li>David</li>
  <li>Peter</li>
  <li>Sean</li>
</ul>
```

Loops (Cont.)

```
{{ loop.length }}

{{ loop.first }}

{{ loop.last }}

{{ loop.index }}
```

```
{% if loop.first %}
  ...
{% elseif loop.index == 2 %}
  ...
{% elseif loop.last %}
  ...
{% endif %}
```

Loop with Empty Text

```
<h2>Organizers</h2>
<ul>
  {% for user in users %}
    <li>{{ user.username}}</li>
  {% else %}
    <li>no results found</li>
  {% endfor %}
</ul>
```

Filter

```
<p>
  {% filter upper %}
    uppercase for the win
  {% endfilter %}
</p>
```

|Filter

```
{% set name = 'Sean' %}
<span>
  {{ name|length }}
</span>
```

```
<span>
  4
</span>
```

Filters Reference

- abs
- batch
- capitalize
- convert_encoding
- date
- date_modify
- default
- escape
- first
- format
- join
- json_encode
- keys
- last
- length
- lower
- merge
- nl2br
- number_format
- raw
- replace
- reverse
- round
- slice
- sort
- split
- striptags
- title
- trim
- upper
- url_encode

Twig Blocks

page.html.twig

```
{% block headerblock %}
  <h2>DrupalCamp NJ</h2>
{% endblock %}
```

page--front.html.twig

```
{% extends "page.html.twig" %}
{% block headerblock %}
 {{ parent() }}
 <h4>Fourth Annual</h4>
{% endblock %}
```

Other Drupal 8 Theme Changes

HTML

CSS

Good Riddance

IE6
(<1%)

IE7
(<1%)

IE8
(~10%)

CSS Built on SMACSS & BEM

CSS

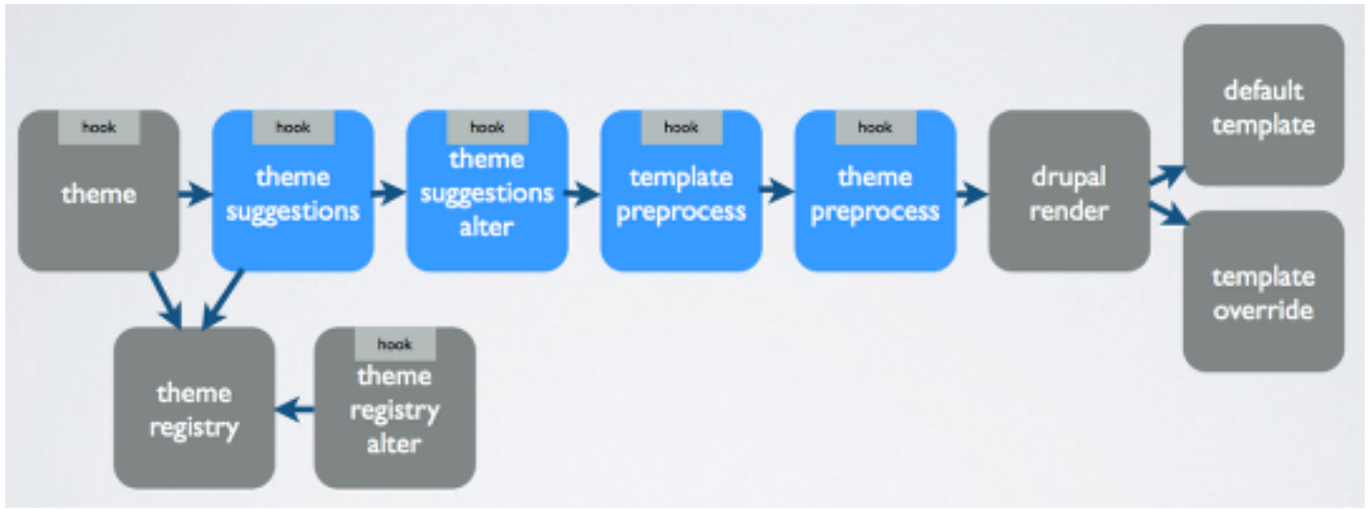
```
.field {
  margin: 20px 15px;
}
.field.field—name {
  color: orange;
}
```

HTML

```
<div class="field field--name">DCNJ</div>
```

Extra Bits

- Themes in /themes folder
  no more /sites/all/themes/…
- Templates are auto-loaded with hook_theme implementation key!
- Drupal 8 Theme Layer



theme.info.yml

- Formerly theme.info *(same data)*
- No more **stylesheets** or **scripts** properties
  (still have stylesheets-override & stylesheets-remove)
- Need to define CSS & JS in *.libraries.yml

```
why-slider:
  version: 1.x
  css:
    theme:
      css/why-slider.css: {}
  js:
    js/why-slider.js: {}
  dependencies:
    - core/jquery
```

Twig FTW!

Drupal Specific Functionality

Filters

```
{% set class_name = 'dcnj/2015' %}

{%
  set organizers = [
    'davidhernandez',
    'pwolanin',
  ]
%}

{{ class_name|clean_class }}
{{ organizers|without('pwolanin') }},
{{ attendees|placeholder('you') }}
```

```
dcnj-2015
davidhernandez
you
```

Other Methods

addClass / removeClass

```
<div{{ attributes.addClass('field-item-' ~ name|clean_class) }}>

<div{{ attributes.removeClass('foo', 'bar').addClass('baz') }}>
```

setAttribute / removeAttribute

```
<div{{ attributes.setAttribute('id', 'camp').setAttribute('I-Love', 'NJ') }}>

<div{{ attributes.removeAttribute('id') }}>
```

Translate

```
{{ 'Author: @username'| t({'@username':username}) }}
```

or

```
{% trans %}
  Author {{ username }}
{% endtrans %}
```

Twig Debug

```
<!-- THEME DEBUG -->
<!-- CALL: _theme('page') -->
<!-- FILE NAME SUGGESTIONS:
  * page--front.html.twig
  * page--node.html.twig
  x page.html.twig
-->
<!-- BEGIN OUTPUT from 'core/themes/bartik/templates/page.html.twig' -->
```

Enable in /sites/default/services.yml

Improving the Themer Experience

CONSENSUS BANANA

Phase 1
Move classes from preprocess to templates

Phase 2
Move templates from Core to the new Classy base theme

Consensus Banana

Phase 1 Example

node.html.twig

```
{%
  set classes = [
    'node',
    'node--type-' ~ node.bundle|clean_class,
    node.isPromoted() ? 'node--promoted',
    node.isSticky() ? 'node--sticky',
    not node.isPublished() ? 'node--unpublished',
    view_mode ? 'node--view-mode-' ~ view_mode|clean_class,
    'clearfix',
  ]
%}
<article{{ attributes.addClass(classes) }}>
  {{ content }}
</article>
```

I WANT YOU
TO STAY CLASSY

SEVEN

BARTIK

CLASSY

CLASSES & MARKUP SENSIBLE DEFAULTS

STARK

CORE

Getting Involved

- FREE Mentoring & Collaboration Day
  Sunday, Feb. 1 @ Tigerlabs
- Monthly Mentoring & Collaboration
  Third Tuesday 7-9pm @ Tigerlabs
- IRC #drupal-twig #drupal-contribute
- Bi-weekly Twig Hangouts (alt. 7am/pm)
  Next is Thursday, Feb. 12 @ 7pm

Questions?

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