



DUBLIN

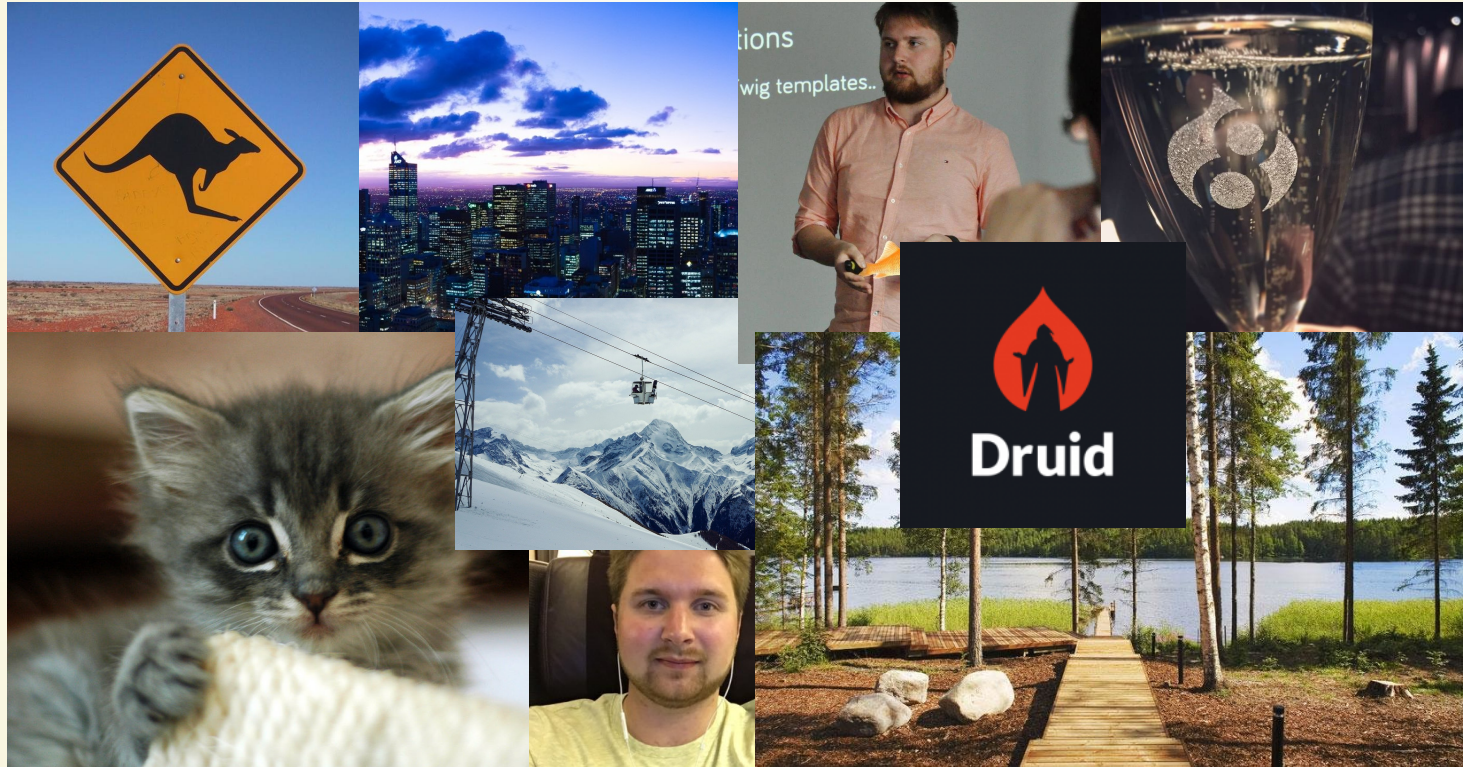
DRUPALCON



Theming in Depth

Twitter @laurii1

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Twitter @laurii1

Traditional problems in Drupal theming

"Themer" vs "Designer"

Data driven front-end

Overlapping work between roles

Achieving DRY is difficult

Twig & Debugging

Example Twig file

```
{#
/*
 * @file
 * Defines list theme component.
 *
 * Available variables:
 * - items: A list of list items.
 */
#}
<ul class="list">
  {% for item in items %}
    <li class="list__item">
      {{ item }}
    </li>
  {% endfor %}
</ul>
```


The “Say Something” Syntax: `{{ ... }}`

The “Do Something” Syntax: `{% ... %}`

The Comment Syntax: `{# ... #}`

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 *
 * Available variables:
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 */
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<ul class="list">
  {% for item in items %}
    <li class="list__item">
      {{ item }}
    </li>
  {% endfor %}
</ul>
```


Twig magic

Accessing array items, object properties and calling methods happens using one syntax.

`{{ node.published }}`

```
<?php

// Array key.
$node['published'];

// Object property.
$node->published;

// Object method.
$node->published();

// Object get method convention.
$node->getPublished();

// Object is method convention.
$node->isPublished();
```

Twig Include

node--teaser.html.twig

```
{{ content|without('links') }}

{% include "link.html.twig" with {
    link: node.url,
    text: 'Read more'|t,
} only
%}
```

link.html.twig

```
<a href="{{ url }}">{{ text }}</a>
```


Twig Blocks

Perfect complement for theme hook suggestions

page.html.twig

```
<h1>Title</h1>

{% block content %}
    This will be overridden by page--front.html.twig
{% endblock %}

{% block footer %}
    Another block
{% endblock %}
```

page--front.html.twig

```
{% extends "page.html.twig" %}
{% block content %}
    Modify a small part of the parent template
{% endblock %}
```

Twig & Debugging

Twig Embed

content.html.twig

```
<h1>{{ title }}</h1>

{% block left %}
{% endblock %}

{% block right %}
{% endblock %}
```

page.html.twig

```
{% embed "content.html.twig" with {
    title: title
} only
%}
{% block left %}
    {{ content.left }}
{% endblock %}

{% block right %}
    {{ content.right }}
{% endblock %}
{% endembed %}
```


Component-based theming

Our deliverables should be systems, not pages

Instead of handing a working page to our clients, we should be handing them re-usable elements that could be used to build other pages.

Component-based theming

What is compoennt?

Self-contained

Re-usable

Nestable

And could consist following things

- Markup
- Styling
- JavaScript
- Other assets

Component-based theming

HTML, CSS, JS



Default theme

Integration layer



Base theme

Component library



Modules

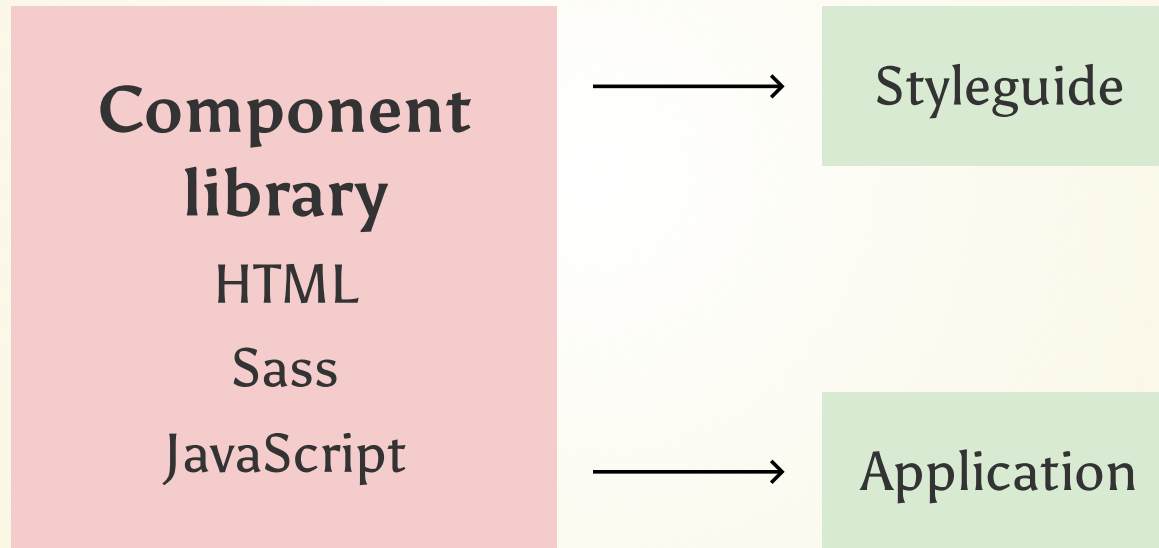
Node, Views etc



Data

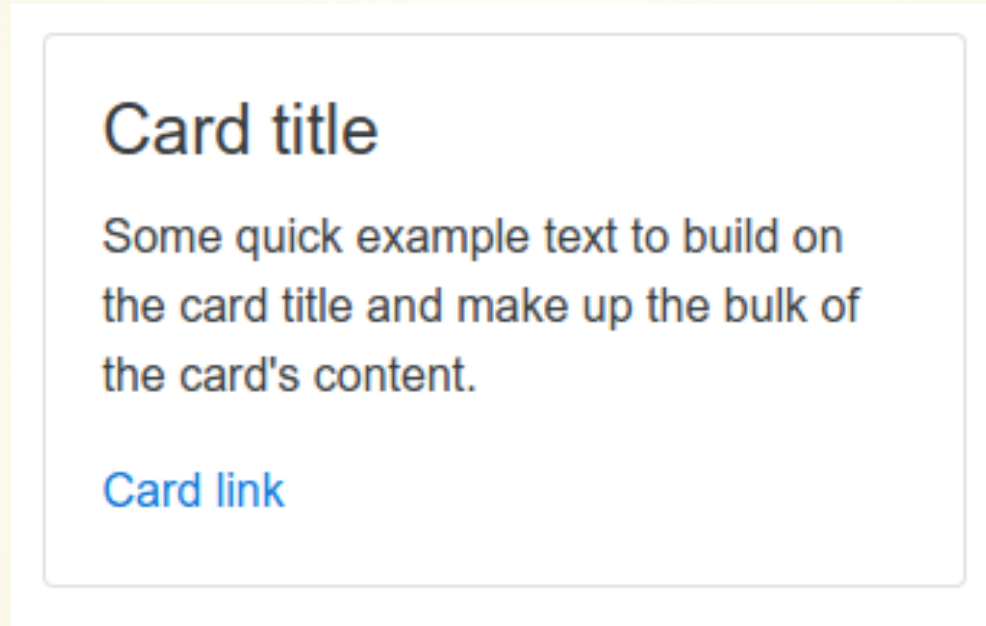
Component-based theming

Styleguide centric development



Component-based theming

Creating our first component



Component-based theming

Creating our first component

card.html.twig

```
<div class="card">
  <h3 class="card__title">{{ title }}</h3>
  <p class="card__content">{{ text }}</p>
  <a href="{{ link_url }}" class="card__link">
    {{ link_text }}
  </a>
</div>
```

card.css

```
.card {
  border: 1px solid grey;
  margin: 20px 35px;
  padding: 20px 35px;
}
```

Component-based theming

Creating our first component

Place component files into a new folder
themename/components/card

Component-based theming

Integration to Drupal

Component-based theming

Disclaimer

This method will easily break
lots of Drupal's features

Component-based theming

Components module

www.drupal.org/project/components

themename.info.yml

```
component-libraries:  
  themename:  
    paths:  
      - components  
      - templates
```

This configuration maps path
@themename/button.html.twig into two folders:

- themename/components
- themename/templates

Component-based theming

Configuring Twig for debugging

sites/default/services.yml

```
parameters:
  twig.config:
    debug: true
```

Theme suggestions in the HTML as comments:

```
<!-- THEME DEBUG -->
<!-- THEME HOOK: 'node' -->
<!-- FILE NAME SUGGESTIONS:
  * node--article--teaser.html.twig
  * node--article.html.twig
  * node--teaser.html.twig
  x node.html.twig
-->
<!-- BEGIN OUTPUT from 'core/themes/bartik/templates/node.html.twig' -->
```

Component-based theming

Disabling caching while theming

sites/default/services.yml

```
services:
  cache.backend.null:
    class: Drupal\Core\Cache\NullBackendFactory
```

sites/default/settings.php

```
<?php

/**
 * Disable caching.
 */
$settings['cache']['bins']['render'] = 'cache.backend.null';
$settings['cache']['bins']['dynamic_page_cache'] = 'cache.backend.null';

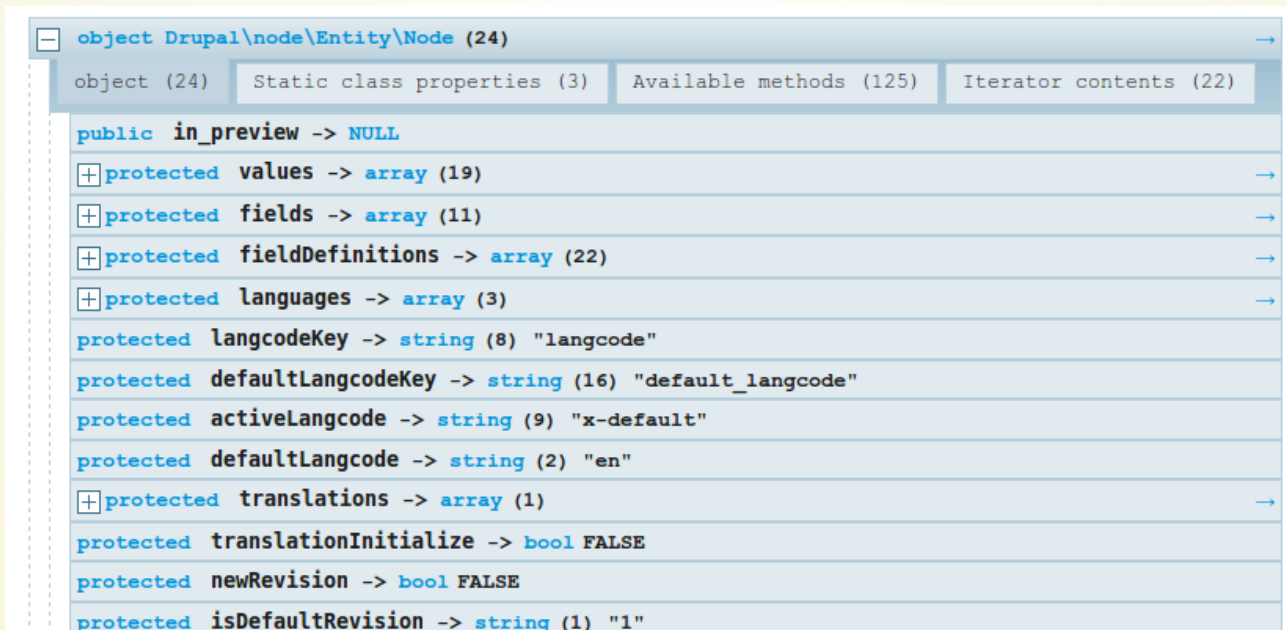
/**
 * Disable CSS and JS aggregation.
 */
$config['system.performance']['css']['preprocess'] = FALSE;
$config['system.performance']['js']['preprocess'] = FALSE;
```

Component-based theming

Debugging variables

Devel module ships with Kint module which enables this awesome debugging tool

```
{{ kint(node) }}
```



Component-based theming

Hamsters are cuddly

Submitted by [admin](#) on Fri, 09/23/2016 - 13:29

Small Animals right paw paws stripes parrot hamster.Food tongue cage collar twine good boy pet supplies turtle roll over pet supplies fur carrier right paw head Spike slobber yawn. Lick swimming nest food lick shake sit licks Scooby snacks lazy cat gimme five vitamins whiskers bark head. Fluffy small animals hamster cage right paw meow. Sit good boy bark tongue stick scratcher litter box play lazy dog good boy stick fleas hamster. Stay licks fluffy warm puppy litter box stick cage field stay licks feathers tooth.

[Read more](#)

Dogs are adorable

Submitted by [admin](#) on Fri, 09/23/2016 - 13:27

Puppy kitty ipsum dolor sit good dog warm park parrot toy litter wag tail stay. Tooth Buddy smooshy pet vaccine catch meow fluffy bird food good boy window treats kitten smooshy puppy. Whiskers fluffy walk harness bird wagging bark ball fur grooming fur Tigger maine coon cat house train tail Tigger chirp wag tail. Tigger slobber stay tuxedo collar whiskers dog collar ferret drool warm Tigger. Gimme Five maine coon cat Snowball litter box tuxedo lick play dead lol catz stick running kisses. Brush wet nose fluffy small animals cat vaccine.

[Read more](#)

Kittens are cute!

Submitted by [admin](#) on Fri, 06/03/2016 - 13:24

Flop over. Meow to be let in Gate keepers of hell hate dog. I'm getting hungrythrowup on your pillow. Then cats take over the world wake up wander around the house making large amounts of noise jump on top of your human's bed and fall asleep again kitty ipsum dolor sit amet, shed everywhere shed everywhere stretching attack your ankles chase the red dot, hairball run catnip eat the grass sniff.


Tags

[Kittens](#) [Cats](#) [Cute](#)

[Read more](#)

Finding the right template

```
<!-- THEME DEBUG -->  
<!-- THEME HOOK: 'node' -->  
<!-- FILE NAME SUGGESTIONS:  
  * node--article--teaser.html.twig  
  * node--article.html.twig  
  * node--teaser.html.twig  
  x node.html.twig  
-->  
<!-- BEGIN OUTPUT from 'core/themes/bartik/templates/node.html.twig' -->
```



Component-based theming

Create a new template file

node--article--teaser.html.twig

```
{% include "@themenamename/card/card.html.twig" with {  
  title: label,  
  text: content.body,  
  link_url: path('entity.node.canonical', {'node': node.id}),  
  link_text: 'Read more'|t,  
} only  
%}
```

Component-based theming

Hamsters are cuddly

Small Animals right paw paws stripes parrot hamster.Food tongue cage collar twine good boy pet supplies turtle roll over pet supplies fur carrier right paw head Spike slobber yawn. Lick swimming nest food lick shake sit licks Scooby snacks lazy cat gimme five vitamins whiskers bark head. Fluffy small animals hamster cage right paw meow. Sit good boy bark tongue stick scratcher litter box play lazy dog good boy stick fleas hamster. Stay licks fluffy warm puppy litter box stick cage field stay licks feathers tooth.

[Read more](#)

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[Read more](#)

Loading the component assets

Get the component styles loaded

themename.libraries.yml

```
card:
  css:
    component:
      components/card/card.css: {}
```

card.html.twig

```
{{ attach_library('themename/card') }}
```

```
<div class="card">
  <h3 class="card__title">{{ title }}</h3>
  <p class="card__content">{{ text }}</p>
  <a href="{{ link_url }}" class="card__link">
    {{ link_text }}
  </a>
</div>
```

Hamsters are cuddly

Small Animals right paw paws stripes parrot hamster.Food tongue cage collar twine good boy pet supplies turtle roll over pet supplies fur carrier right paw head Spike slobber yawn. Lick swimming nest food lick shake sit licks Scooby snacks lazy cat gimme five vitamins whiskers bark head. Fluffy small animals hamster cage right paw meow. Sit good boy bark tongue stick scratcher litter box play lazy dog good boy stick fleas hamster. Stay licks fluffy warm puppy litter box stick cage field stay licks feathers tooth.

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[Read more](#)

You can include multiple assets for a single component

themename.libraries.yml

```
card:
  css:
    component:
      components/card/card.css: {}
    state:
      components/card/card-state.css: {}
  js:
    components/card/card.js: {}
```

Detach inherited assets

themename.info.yml

```
libraries-override:  
  classy/base:  
    css:  
      component:  
        css/components/button.css: false
```

More library override magic

<https://ffwagency.com/blog/managing-css-and-javascript-files-drupal-8-libraries>

Another component

card-container.html.twig

```
{{ attach_library('bartik/card-container') }}  
<div class="card-container">  
  {% for item in items %}  
    <div class="card-container__item">  
      {{ item }}  
    </div>  
  {% endfor %}  
</div>
```

card-container.css

```
.card-container {  
  display: flex;  
}
```


Creating library

themename.info.yml

```
card-container:  
  css:  
    component:  
      components/card-container/card-container.css: {}
```

Finding the template name

```
<!-- FILE NAME SUGGESTIONS:  
* views-view-unformatted--frontpage--page-1.html.twig  
* views-view-unformatted--page-1.html.twig  
* views-view-unformatted--default.html.twig  
* views-view-unformatted--frontpage--page.html.twig  
* views-view-unformatted--page.html.twig  
* views-view-unformatted--frontpage.html.twig  
x views-view-unformatted.html.twig  
-->
```

Integrating to Views template

views-view-unformatted--frontpage--page.html.twig

```
{% set items = [] %}
{% for row in rows %}
    {% set items = items|merge([row.content]) %}
{% endfor %}

{% include "@themenname/card-container/card-container.html.twig" with {
    'items': items,
} only
%}
```

Hamsters are cuddly

Small Animals right paw paws stripes
parrot hamster.Food tongue cage
collar twine good boy pet supplies
turtle roll over pet supplies fur carrier
right paw head Spike slobber yawn.
Lick swimming nest food lick shake sit
licks Scooby snacks lazy cat gimme
five vitamins whiskers bark head.
Fluffy small animals hamster cage
right paw meow. Sit good boy bark
tongue stick scratcher litter box play
lazy dog good boy stick fleas hamster.
Stay licks fluffy warm puppy litter box
stick cage field stay licks feathers
tooth.

[Read more](#)

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warm park parrot toy litter wag tail stay.
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meow fluffy bird food good boy window
treats kitten smooshy puppy. Whiskers
fluffy walk harness bird wagging bark
ball fur grooming fur Tigger maine coon
cat house train tail Tigger chirp wag tail.
Tigger slobber stay tuxedo collar
whiskers dog collar ferret drool warm
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hell hate dog. I'm getting
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pillow. Then cats take over
the world wake up wander
around the house making
large amounts of noise
jump on top of your
human's bed and fall
asleep again kitty ipsum
dolor sit amet, shed
everywhere shed
everywhere stretching
attack your ankles chase
the red dot, hairball run
catnip eat the grass sniff.

[Read more](#)

Drupal.org issue about making Drupal work component based by default

<https://www.drupal.org/node/2702061>

Resources to get started with a design system

Pattern Lab

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

KSS

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

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"Themer" vs "Designer"

Data driven front-end

Overlapping work between roles

Achieving DRY is difficult



26-27 May 2017
Athens, Greece

—
#FUAthens



Questions

JOIN US FOR CONTRIBUTION SPRINTS

First Time Sprinter Workshop - 9:00-12:00 - Room Wicklow 2A

Mentored Core Sprint - 9:00-18:00 - Wicklow Hall 2B

General Sprints - 9:00 - 18:00 - Wicklow Hall 2A



DUBLIN
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WHAT DID YOU THINK?

Evaluate This Session

events.drupal.org/dublin2016/schedule

THANK YOU!

