



Component Based Development

A Training Workshop
Room 619, Level 6

Wi-fi: DrupalCon Seattle, Password: Seattle2019



DrupalCon
SEATTLE 2019
APRIL 8-12

Today's Agenda

- 8:30 - 9:00 Coffee and light breakfast in 6E lobby
- 9:00 - 9:30 - Introductions & Local Environment Setup
- 9:30 - 10:15 - Component-driven approach & Atomic Design
- 10:15 - 10:30 Coffee break in 6E lobby
- 10:15 - 11:45 - Building Components
- 11:45am - 1:00pm Lunch* available in 6E lobby, take meals

back to training room

Today's Agenda

- 1:00 - 3:00 pm - More Component Building and Integrations
- 3:00pm - 3:30pm Coffee and snack break in 6E Lobby
- 3:00 - 5:00 pm - Integrations and wrap up
- Q&A
- 5:00pm - 7:00pm Opening reception - Exhibit Hall | Level 4

Introductions

- Name
- Who you work for
- Title or role
- Favorite movie



Kelly Dassing
Director of Project
Management



Eric Huffman
Senior Front-End
Developer



Mario Hernandez
Senior Front-End
Developer



Markie Casias
Senior Drupal
Developer



Tobias Williams
Front-End Engineer



About Mediacurrent

Who We Are

Mediacurrent is a full-service digital agency that implements world class open source software development, strategy, and design to achieve defined goals for enterprise organizations seeking a better return on investment.



DECOUPLED DAYS 2019

New York City
July 17–18, 2019

Call for papers

The Decoupled Days 2019 call for papers is **extended** until *May 3, 2019 at 11:59pm EST.*

Sponsorships

For sponsorship information, reach out to our team at *decoupleddays@gmail.com.*

@decoupleddays

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Components

Development approach

1. Building components in living styleguide with Twig
2. Building Drupal's Architecture and Back-End (Content Types, Paragraph Types, Views, Image Styles, Taxonomy, etc.)
3. Integrating Components with Drupal (Passing Drupal data to components)

Allow for the creation of **reusable widgets** or components in web documents and web applications. The components model allows for **encapsulation and interoperability of individual HTML elements.**



Component hero heading

Filter item 1

Filter item 2

Filter item 3

Filter item 4



Gallery

Upstate New York—
Enjoying wine, water and
wonders



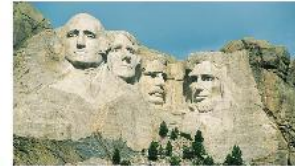
Gallery

Lake Tahoe, Nevada:
Dream beach holiday
and the wild west



Gallery

Golf and the great
outdoors in Myrtle Beach



Gallery

To the beach! Virginia
Beach

[View more galleries](#)



Module hero heading

Filter item 1

Filter item 2

Filter item 3

Filter item 4



Experience

From Reno to Lake Tahoe: A Tour of Nevada's Entertainment, Nature and Wild West History

[View more galleries](#)

Component hero heading

Filter item 1

Filter item 2

Filter item 3

Filter item 4



Gallery

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Enjoying wine, water and
wonders



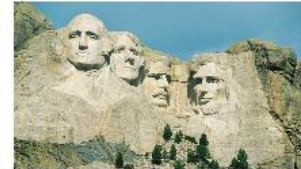
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Gallery

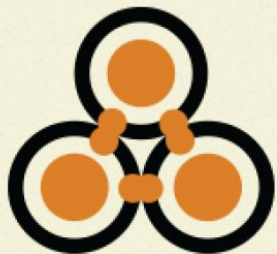
To the beach! Virginia
Beach

[View more galleries](#)

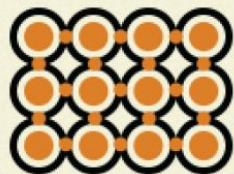
Atomic Design



ATOMS



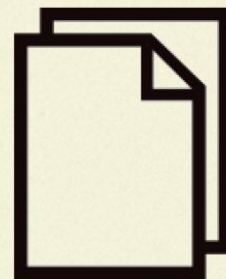
MOLECULES



ORGANISMS



TEMPLATES



PAGES

What defines Atomic Design?

Independent

Clearly Defined

Encapsulated

Reusable

Component-based Demos

Living Style Guide

Overview

1.0 Components ▾

2.0 General ▾

Style Guide

Overview

Nitflex Theme Style Guide

This application is a living style guide, generated from KSS documented styles.

Getting Started

If you haven't yet, install nvm: <https://github.com/creationix/nvm>

Run the following commands from the theme directory

Use the right version of node with:

```
nvm use
```

This command will look at your `.nvmrc` file and use the version `node.js` specified in it. This ensures all developers use the same version of node for consistency.

If that version of node isn't installed, install it with:

```
nvm install
```

Install npm dependencies with

```
npm install
```

This command looks at `package.json` and installs all the npm dependencies specified in it. Some of the dependencies include `gulp`, `autoprefixer`, `gulp-sass` and others.

Runs default task

Drupal 8 Live Components

Blockquote

A Blockquote component displayed within a swipe. This component is not used in WYSIWYG output.

Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt.
– Justo Ornane CEO, National Corporation

Social Icons

The social icons displayed in the header.



Components with Example Markup

Basic Row

The Basic Row is used for rows of data with striping. If a more complicated structure is needed, `basic-row--odd` and `basic-row--even` modifiers are available.

Example:

```
<div class="basic-row basic-row--even">
  <div class="basic-row__label">Label</div>
  <div class="basic-row__data">Title</div>
</div>
<div class="basic-row basic-row--odd">
  <div class="basic-row__label">Label</div>
  <div class="basic-row__data">Title</div>
</div>
```

Location:	Atlanta, GA.
Region:	North America
Job Position Type:	US Employment

Training Docs & Exercises

<https://mariohernandez.gitbook.io/components/>

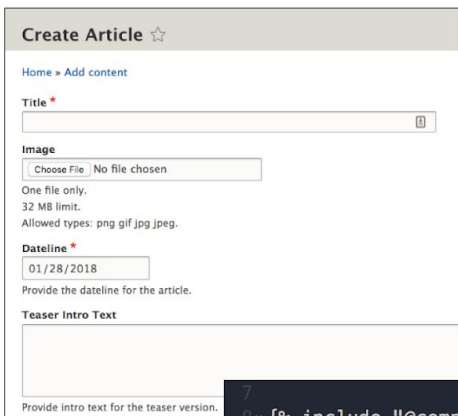
Or

<https://bit.ly/20V0dnb>

Integration

Integration Workflow

Node edit UI: article content type



Create Article ☆

[Home](#) > [Add content](#)

Title *

Image

No file chosen

One file only.
32 MB limit.
Allowed types: png gif jpg jpeg.

Dateline *

Provide the dateline for the article.

Teaser intro Text

Provide intro text for the teaser version.

We pull our component into the theme template, and map Drupal's fields to the variables in the component.

```
7
8- {% include "@components-directory/article-teaser.twig with {
9   title: label,
10  image: content.field_image,
11  dateline: content.dateline,
12  intro: content.field_intro,
13  url: url,
14  } only %}
15
```

node--article--teaser.twig.html

```
4
5- <article class="article-teaser-{{ modifier_class ? ' ' ~ modifier_class }}">
6-   <div class="article-teaser_top">
7     <div class="article-teaser_image">
8       {{ image }}
9     </div>
10    <h2 class="article-teaser_title">{{ title }}</h2>
11  </div>
12  <div class="article-teaser_body">
13    <div class="article-teaser_dateline">{{ dateline }}</div>
14    <p class="article-teaser_intro">{{ intro }}</p>
15  </div>
16  <div class="article-teaser_cta">
17    <a class="article-teaser_cta-link" href="{{ url }}">Read More</a>
18  </div>
19 </article>
20
```

src/components/article-teaser/article-teaser.twig

Render Arrays

```
<p class="article-teaser__intro">  
<!-- THEME DEBUG -->  
<!-- THEME HOOK: 'field' -->  
<!-- FILE NAME SUGGESTIONS:  
  * field--node--field-intro--article.html.twig  
  * field--node--field-intro.html.twig  
  * field--node--article.html.twig  
  * field--field-intro.html.twig  
  * field--string-long.html.twig  
  x field.html.twig  
-->  
<!-- BEGIN OUTPUT from 'core/themes/classy/templates/field/field.html.twig' -->  
  <div class="field field--name-field-intro field--type-string-long field--  
auctor fringilla. Nulla vitae elit libero, a pharetra augue.</div>  
<!-- END OUTPUT from 'core/themes/classy/templates/field/field.html.twig' -->  
</p>
```

Wait... what's this, now?

When Drupal renders its fields, it wraps the field value in “helpful” markup.

Render Arrays

```
intro: content.field_intro.0['#context'].value
```

Pluck the value I want from the render array?

```
intro: content.field_intro|field_value
```


Use Twig Field Value module?

https://www.drupal.org/project/twig_field_value

Render Arrays

Create a custom field template for the field with only the markup you want.

```
<!-- THEME DEBUG -->  
<!-- THEME HOOK: 'field' -->  
<!-- FILE NAME SUGGESTIONS:  
* field--node--field-intro--article.html.twig  
* field--node--field-intro.html.twig  
* field--node--article.html.twig  
* field--field-intro.html.twig  
* field--string-long.html.twig  
x field.html.twig  
-->
```



```
31 {% for item in items %}  
32     {{ item.content }}  
33 {% endfor %}
```

/templates/field/field--node--field-intro--article.html.twig

Render Arrays

If you experience cache invalidation issues, invoke a render of the full content variable:

```
{{ content|without('field_foo', 'field_bar') }}
```

... Or ...

```
{% set rendered_content = content|render %}
```

<https://www.drupal.org/project/drupal/issues/2660002#comment-12252143>

<https://www.previousnext.com.au/blog/ensuring-drupal-8-block-cache-tags-bubble-up-page>

Render Arrays

If you experience false positives in your component template when checking for an empty value of content fed from Drupal, try:

```
text: content.field_subtitle|render|trim is not empty ?  
      content.field_subtitle
```

<https://www.drupal.org/project/drupal/issues/2547559>

Drupal Attributes

```
29
30 <article class="article-teaser"{{ attributes.class ? ' ' ~ attributes.class"{{ attributes|without('class') }}"}}>
31   <div class="article-teaser_top">
32     <div class="article-teaser_image">
33       {% include "@atoms/media/image--16-9.twig" with {
34         image: img,
35         placeholder: img_sample
36       } only %}
37     </div>
38     {{ title_prefix }}
39     {% include "@atoms/text/heading-2.twig" with {
40       class: 'article-teaser_title',
41       text: title
42     } only %}
43     {{ title_suffix }}
44   </div>
45   <div class="article-teaser_body">
```

/src/component/article-teaser/article-teaser.twig

```
74
75 <article{{ attributes }}"}}>
76
77   {{ title_prefix }}
78   {% if not page %}
79     <h2{{ title_attributes }}"}}>
80       <a href="{{ url }}" rel="bookmark">{{ label }}"}}</a>
81     </h2>
82   {% endif %}
83   {{ title_suffix }}"}}
84
```

/core/themes/stable/templates/content/node.html.twig

Contribution Opportunities

Join Us!

★ ★ ★ Friday, April 12, 2019 ★ ★ ★

Mentored Contribution

9:00-18:00
Room: 602

First Time Contributor Workshop

9:00-12:00
Room: 606

General Contributions

9:00-18:00
Room: 6A

#DrupalContributions



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Thank you!

What did you think?

Take the Survey!

https://www.surveymonkey.com/r/DrupalConSeattle_Trainings

<https://bit.ly/2UuEHLu>



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