Component Based Development
A Training Workshop
Room 619, Level 6

Wi-fi: DrupalCon Seattle, Password: Seattle2019
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
About Mediacurrent
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.
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
Follow us on Twitter to stay updated on important announcements.

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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.

Source: https://en.wikipedia.org/wiki/Web_Components
Module hero heading
Experience

From Reno to Lake Tahoe: A Tour of Nevada’s Entertainment, Nature and Wild West History
Atomic Design
ATOMS → MOLECULES → ORGANISMS → TEMPLATES → PAGES
What defines Atomic Design?

Independent
Clearly Defined
Encapsulated
Reusable
Component-based Demos
Living 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:

```bash
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:

```bash
nvm install
```

Install npm dependencies with

```bash
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:

```html
<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>
```

<table>
<thead>
<tr>
<th>Location:</th>
<th>Atlanta, GA.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Region:</td>
<td>North America</td>
</tr>
<tr>
<td>Job Position Type:</td>
<td>US Employment</td>
</tr>
</tbody>
</table>
Training Docs & Exercises

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

Or

https://bit.ly/2OV0dnb
Integration
Node edit UI: article content type

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

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

node--article--teaser.twig.html
Render Arrays

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

Pluck the value I want from the render array?

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.

```twig
{% for item in items %}
{{ item.content }}
{% 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:

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

... or ...

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

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

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

/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
Thank you!

What did you think?

Take the Survey!
https://www.surveymonkey.com/r/DrupalConSeattle_Trainings