

The background image is a wide-angle aerial photograph of the Golden Gate Bridge in San Francisco, California. The bridge's iconic red towers and cables stretch across the frame, leading the eye towards the city skyline in the distance. The water below is a deep blue-green, with sunlight reflecting off the surface. The overall atmosphere is bright and airy.

Component-Based Development

A Hands-On Training Workshop



BADCamp 2019

Today's Agenda

- 9:00 - 9:30 - Introductions & Local Environment Setup
- 9:30 - 10:00 - Component-driven approach & Atomic Design
- 10:00 - 10:15 - Break
- 10:15 - 11:45 - Building Components
- 11:45 - 1:00 pm - Lunch break
- 1:00 - 2:30 pm - More Component Building and Integrations

Today's Agenda

- 2:30 - 3:00 pm - Break
- 3:00 - 5:00 pm - Integrations and wrap up



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.**

Your Instructors



Melissa Bent

Senior Drupal Developer



Mario Hernandez

Head of Learning



Becky Cierpich

UI/UX Designer

Local Environment Setup

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.**

What is a component?

Independent
Encapsulated
Clearly Defined
Reusable



HIGHER. FURTHER. FASTER.

CAPTAIN MARVEL!

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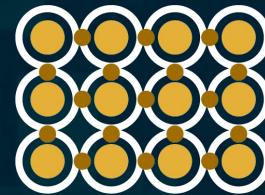
Atomic Design



Atoms



Molecules



Organisms



Templates

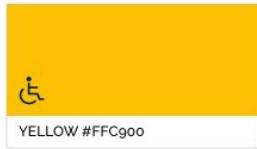


Pages

Style Tile

Colors

Main Colors



Accent Colors



Style Tile

Typography

Fonts

Aa

Gnuolane

Aa

Libre Franklin Regular

Aa

Libre Franklin Bold

Aa

Libre Franklin Light

Global Line Heights

Heading line height = 1.2

Body copy line height - 1.5

Desktop Headings

H1

This is an H1 Desktop Heading

m

Style Tile

Buttons & Form Elements

Default Buttons

Desktop



60px

Gnuolane | All Caps | Letter Spacing 1px | 30px
Mercy Blue #002A54 on Yellow #FFC900

Width can grow if more characters are entered

Mobile



46px

Gnuolane | All Caps | Letter Spacing 1px | 24px
Mercy Blue #002A54 on Yellow #FFC900

Width can grow if more characters are entered

Default Button Hover

Desktop



60px

Gnuolane | All Caps | Letter Spacing 1px | 30px
Black #000000 on Green #6BA645

Width can grow if more characters are entered

Mobile



46px

Gnuolane | All Caps | Letter Spacing 1px | 24px
Black #000000 on Green #6BA645

Width can grow if more characters are entered

Card

1. Eyebrow: H6 Heading
Recommended Characters: 10-20
2. *H2 Heading
• Recommended Characters: 20-30
3. Summary: body text
• Recommended Characters: 150-175
4. CTA button (optional, default style)
5. Image
Custom Aspect Ratio
Largest size: 1280px X 625px (desktop)



Desktop

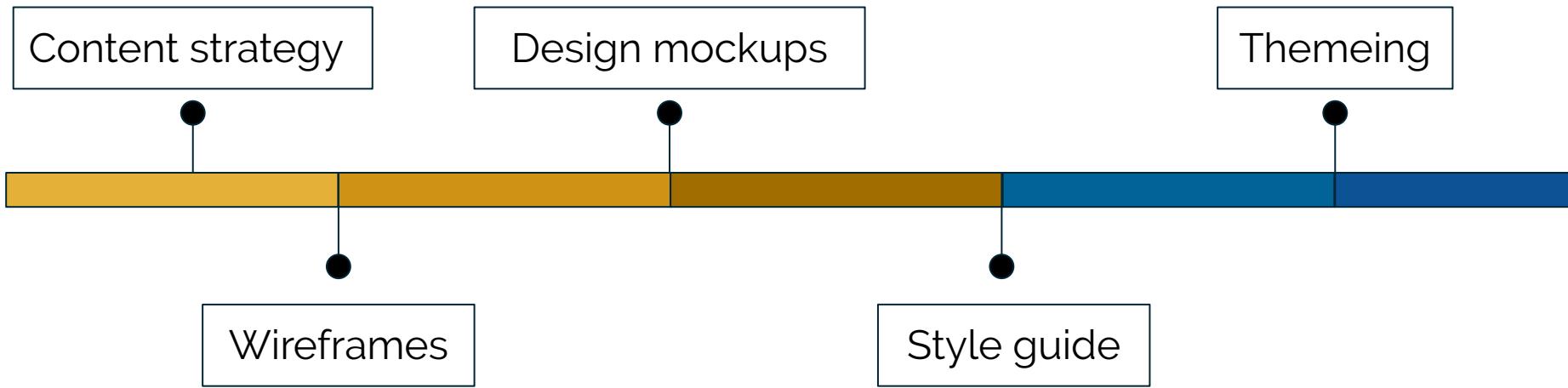


Tablet



Mobile

Components throughout the project timeline



*Discuss nav dev options

Home

MAIN NAVIGATION

Admissions
& Aid

APPLY

LEGEND

Pages

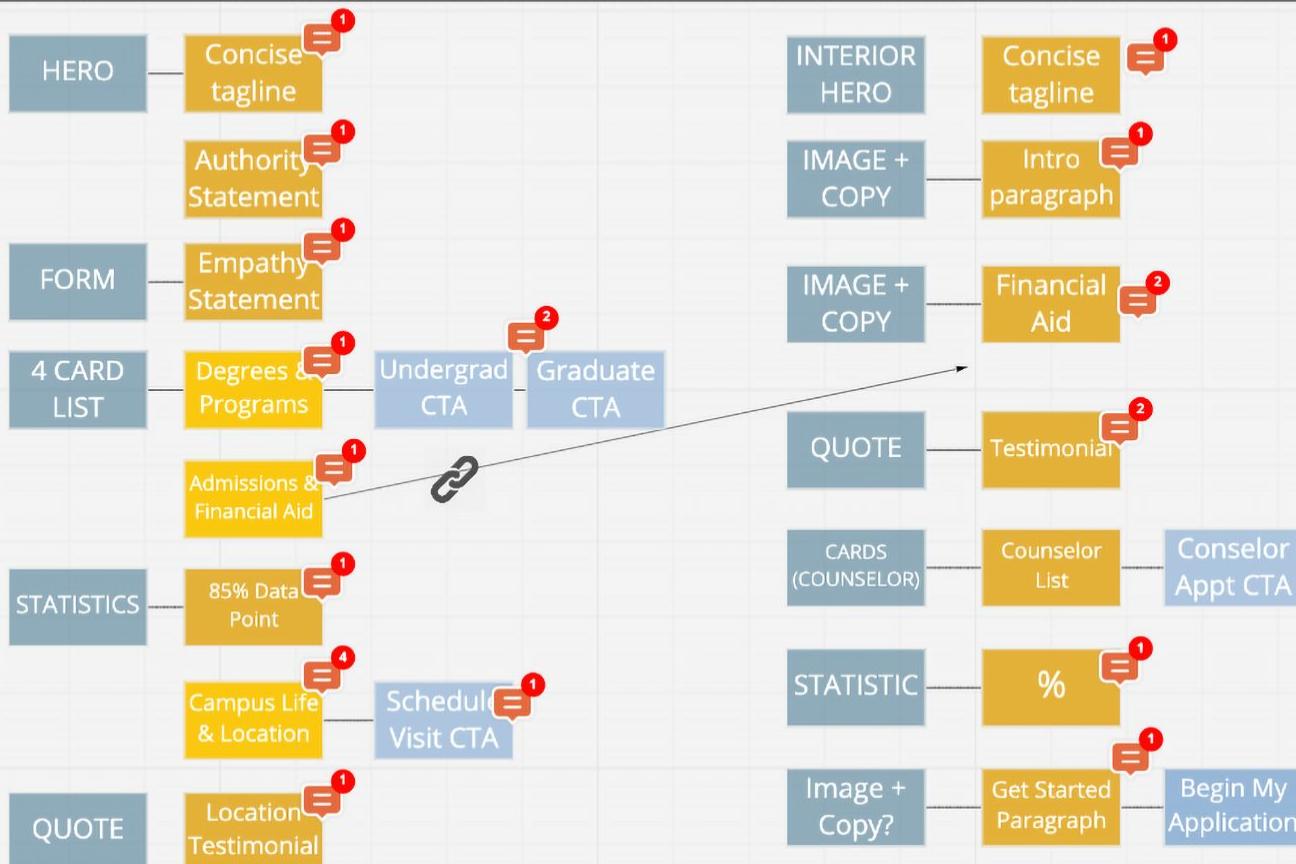
Sub Pages

Core Content

Component

User Action

Backend



Common Components



Accordion/FAQ



Breaker



Card



Card List



Carousel



Form



Gallery



Hero



Map



Media



Quote

ABOUT RAIN

HOW RAIN WORKS

PARTNER WITH US

INTRODUCING RAIN

An open source installation to put your best content forward. With the power of Drupal 8 and GatsbyJS, Rain keeps site builders and content creators on pace with the speed of digital innovation.

SCROLL DOWN

IMAGE OR VIDEO

DATA SOURCE SOLUTIONS

RAIN Can Help

Budget vs. Time vs. Quality vs. Quantity

We get it. There's a constant pressure to ship faster processes. We also understand the challenges of juggling several websites and delivering consistent user experience across multiple contexts.

RAIN + Gatsby = Better Websites

EVO ICON 1.1

EVO ICON 1.2

EVO ICON 1.3

EVO ICON 1.4

Performance

Dramatically improved site speed, resulting in overall user experience

Editing Experience

Includes 11 content components, media library,拖拽, and drag-and-drop.

Cost Savings

No server-side rendering is needed, dramatically reducing licensing costs.

Security

Without server-side processes, backdoors for attacks are reduced.

MORE ABOUT RAIN

INNOVATING FOR THE GREATER GOOD

Our Digital expertise, accompanied by our dedication to open source contribution, drives us to create time-saving tools that simplify processes and benefit everyone.

Partner with us ↗

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First & Last Name*

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Subject*

Message*

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230 North Point Parkway
Building 100, Suite 208
Athens, Georgia 30605
Phone: 770.360.8776

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Last | Home | Accessibility



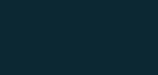
This is a teaser that includes a large image or video. Sometimes used with the carousel plugin.

Hero



Serves as a teaser to local or external piece of content.

Card



Feature a list of any number of Cards displayed in a column. Size and spacing is dictated by the number of Cards added.

Card List



Webform integration. Each form field is created separately before they are added to a page as a component.

Form

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BEHIND RAIN

IMAGE OR VIDEO

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Breaker

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BY MEDIACURRENT

Introducing RAIN

Introducing Rain, a new way to deliver your digital content forward. It's the power of Gatsby and React, which merges site stability and content delivery with the speed of digital innovation.

Rain + Gatsby = Better Websites

USER PROFILE
Editing Experience
Handles all content components to make them ready, rendering & more.

PERFORMANCE
Performance
Chronically improved site speed, providing a better user experience.

COST SAVINGS
Cost Savings
No server-side rendering is needed, dramatically lowering hosting costs.

SECURITY
Security
Without a server-side processor, Rain ensures site is more secure.

RAIN CAN HELP
Budget vs. Time vs. Quality vs. Quantity
We get it. There's a constant pressure to streamline processes. We also understand that there's a balance between cost, time, and quality. That's why Rain can help you achieve a better user experience across multiple domains.

WE ARE INNOVATING
Innovating for the Greater Good
Our mission is to continuously push the boundaries of open source technology to benefit our clients and their users. We believe that some things can't be simplified, so why not make them better?

CONTACT US!
What are your challenges?
We can show you how Rain and other open source technologies can increase efficiency within your organization.

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Feature a list of any number of Cards displayed in a column. Size and spacing is dictated by the number of Cards added.



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Webform integration. Each form field is created separately before they are added to a page as a component.

Rain + Gatsby = Better Websites

UNLOCK FREQUENTLY
Editing Experience
Includes all content components, media library, drafts, scheduling & more.

PERFORMANCE
Performance
Dramatically improved site speed, providing an optimal user experience.

MICROSERVING
Cost Savings
No server-side rendering is needed, dramatically lowering hosting costs.

SECURITY
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SECURITY
Security
Without server-side processors, Rain ensures site is more secure.

Cost Savings
Cost Savings
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Microservices
Microservices
Without server-side processors, Rain ensures site is more secure.

Performance
Performance
Dramatically improved site speed, providing an optimal user experience.

Security
Security
Without server-side processors, Rain ensures site is more secure.

Cost Savings
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Microservices
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Component-based Demos

Streaming Service Landing Page

DrupalCon Seattle 2019

You think you've seen it all, but you ain't seen nuthin' yet!

PG-13



Every year, DrupalCon is the largest gathering of people who belong to this community.

[Watch now](#)



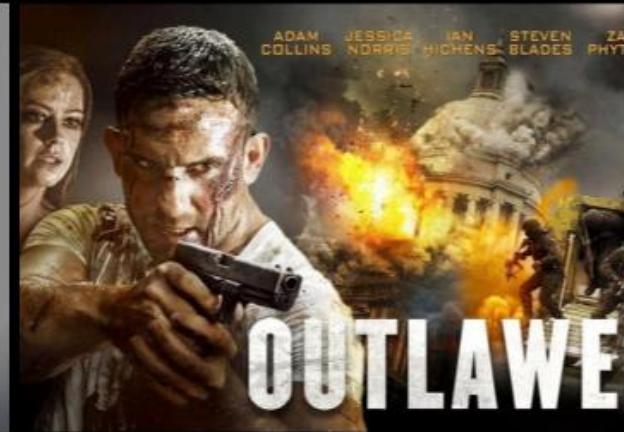
ACTION PACKED FEATURES



Vehicula Purus Tellus Inceptos

PG-13

Donec ullamcorper nulla non metus auctor
fringilla. Nulla vitae elit libero, a pharetra
augue. Cras mattis consectetur purus sit
amet fermentum.



The Process

1- Build Components

2- Drupal Back-End Architecture

3- Components Integration

Integration

Integration Workflow

Node edit UI: article content type

The screenshot shows the 'Create Article' page in Drupal's admin interface. It includes fields for 'Title' (with a red asterisk), 'Image' (with a file upload input showing 'No file chosen'), 'Dateline' (set to '01/28/2018'), and 'Teaser Intro Text' (a large text area). Below the text area is a note: 'Provide intro text for the teaser version.'

```
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
```

Sample: node--article--teaser.twig.html

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

```
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
```

Sample:

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--value-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:

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

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

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

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

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



Let's Build Some Components!



Thank you!



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