



**Igniting  
Digital  
Possibilities.**

# Drag & Drop Content Management For Drupal Websites

Aaron Couch  
Chris O'Donnell



# Speakers

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Aaron Couch - Dir. of Technology



Chris O'Donnell - Digital Strategist



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# Contribution Day

Saturday, February 20, 2021

12:00pm - 3:30pm

First-time contributor workshop • Mentored contribution • General contribution

#DrupalContributions

<https://www.fldrupal.camp/conference/contribution-day>



# Contribution Day

Saturday, February 20, 2021

12:00pm - 3:30pm

## Planned Workshops

- First-time contributor workshop
- Introduction to Merge Requests
- Mentored Tooling

## Planned Initiatives

- Olivero Theme
- SimplyTest
- Drupal Recipes

<https://www.fldrupal.camp/conference/contribution-day>

# Who is Promet?

- **Founded in 2003**, we are a full service web design and development agency with a passion for Drupal, WordPress and open source solutions.
- **Headquartered in Chicago**, we attract talent from around the world, and are adept at leveraging the technologies that drive collaborative excellence.
- **Our dedicated support** team offers full coverage 24/7.
- **We have launched hundreds** of Drupal sites since 2009.
- **We are a SBA certified** small business.
- **Currently hiring Senior Drupal Developer**
- **and Solution Architect**





# Thesis

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- Organizations often have complex data models that do not fit into SAAS solutions such as WIX or Squarespace
- Content creators often like the drag and drop editing interfaces on WIX or Squarespace like services
- Organizations need to maintain control of brand presentation online while providing editors flexibility on content creation
- Open source provides the best values, features, outcomes
- Drupal can provide best of both worlds
  - Bespoke content models
  - Drag and Drop content creation
  - Brand governance and consistency





# Our Example

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We are going to show our strategy for achieving this value using:

- Emulsify
  - Component Driven theme
- Provus
  - Our Drupal kickstarter with reusable components

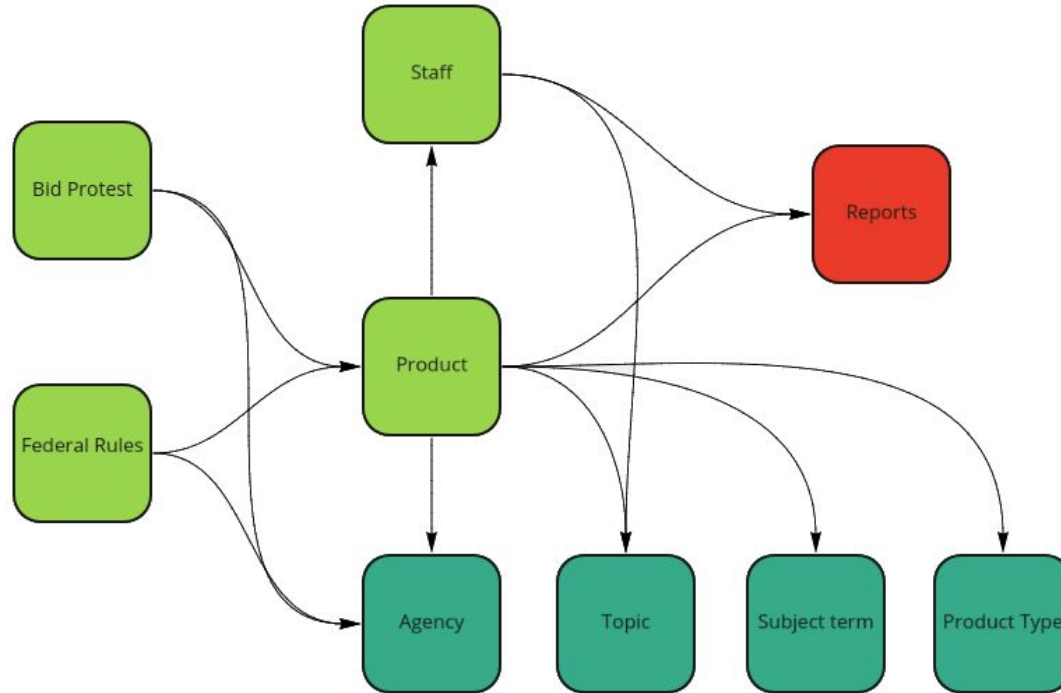
# Organizational Needs

- Improve digital services
- Push more transactions / interactions online
- Do more with less
- Meet increasingly high customer expectations
- React to changes quickly
- Make sure right constraints are in place on website to protect brand
- Create Once Publish Everywhere (COPE)





# Some organizations are totally unique



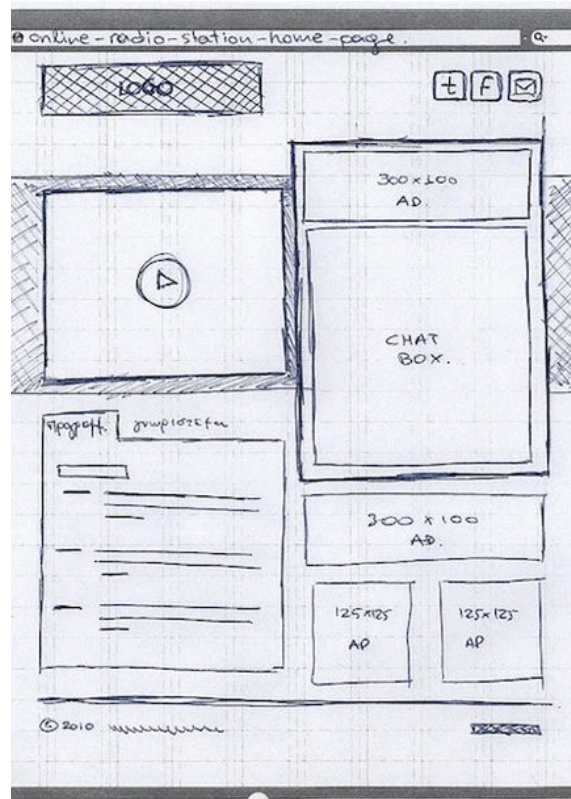
# Agencies with Similar Mandate can be Different



- Parking in Philadelphia has its own agency
- Parking in NYC managed by DOT

# We put the same “things” in most sites

- Media galleries
- Lists of content
- Cards
- Search
- Maps
- Social media

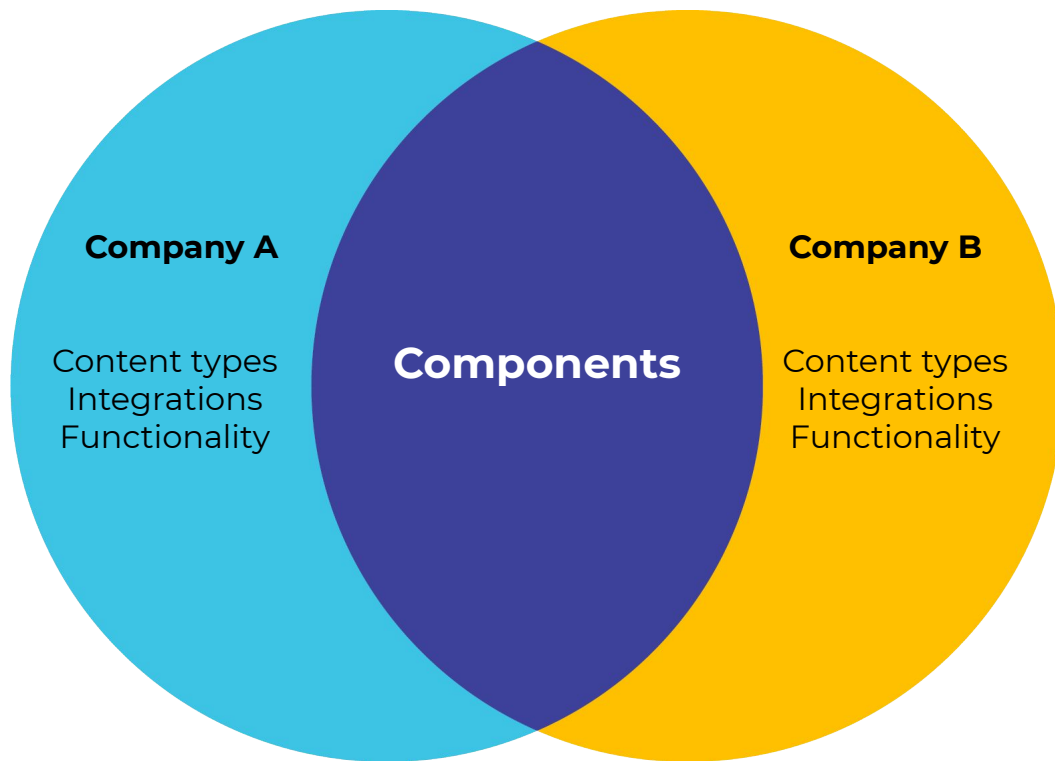


We can call these “components”



# Overlap

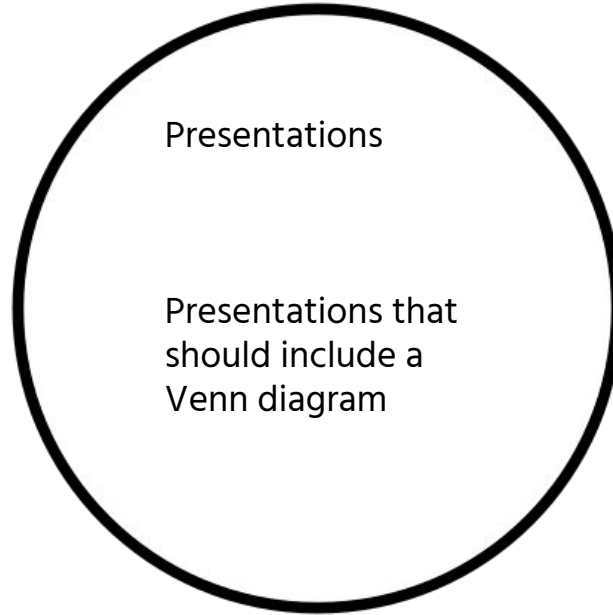
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# Obligatory

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# The Ideal

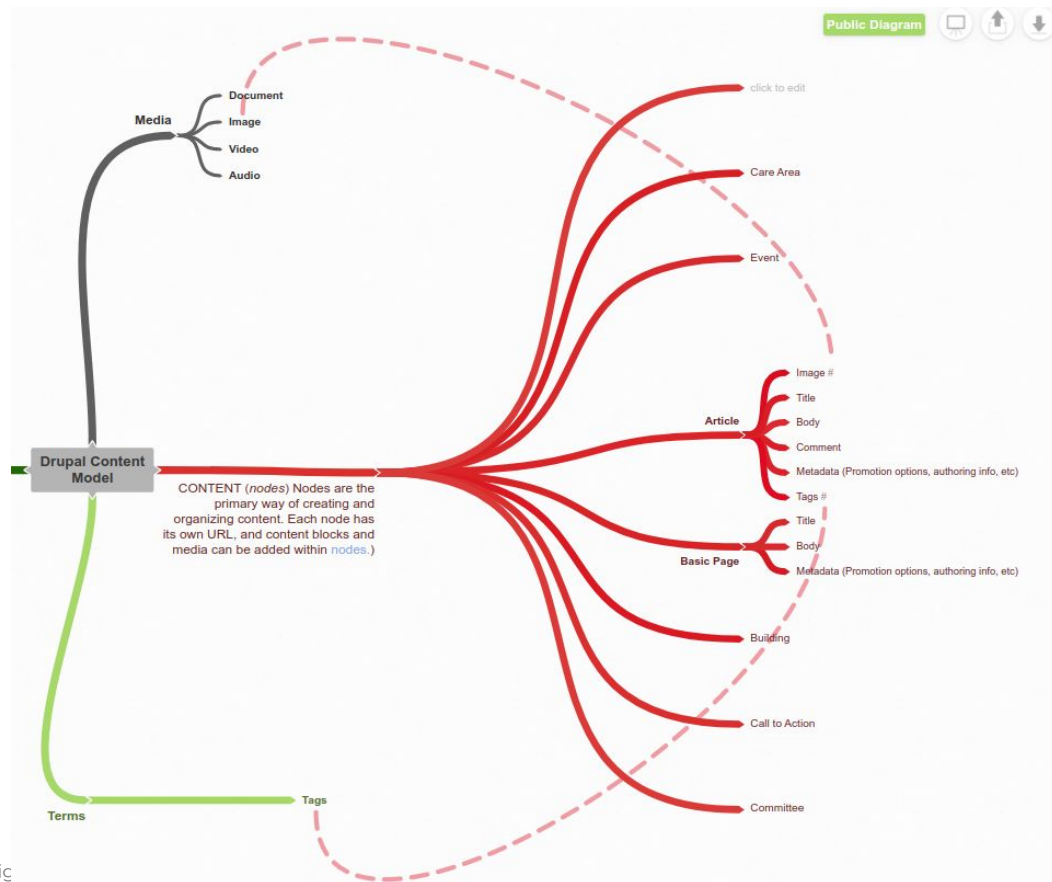
---

- Flexible content model that fit industry needs
- Reusable components and features
  - Components that can be ready at the start of a project
  - Components that are easily “themable” for organizational brand
  - Components that can easily utilize bespoke content models



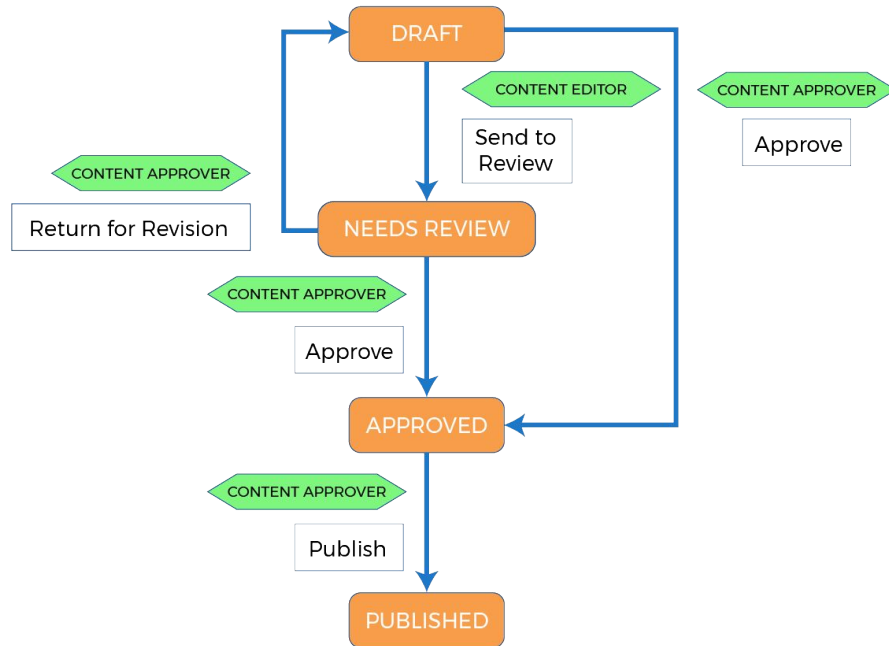


# Drupal is Great at Content Modeling





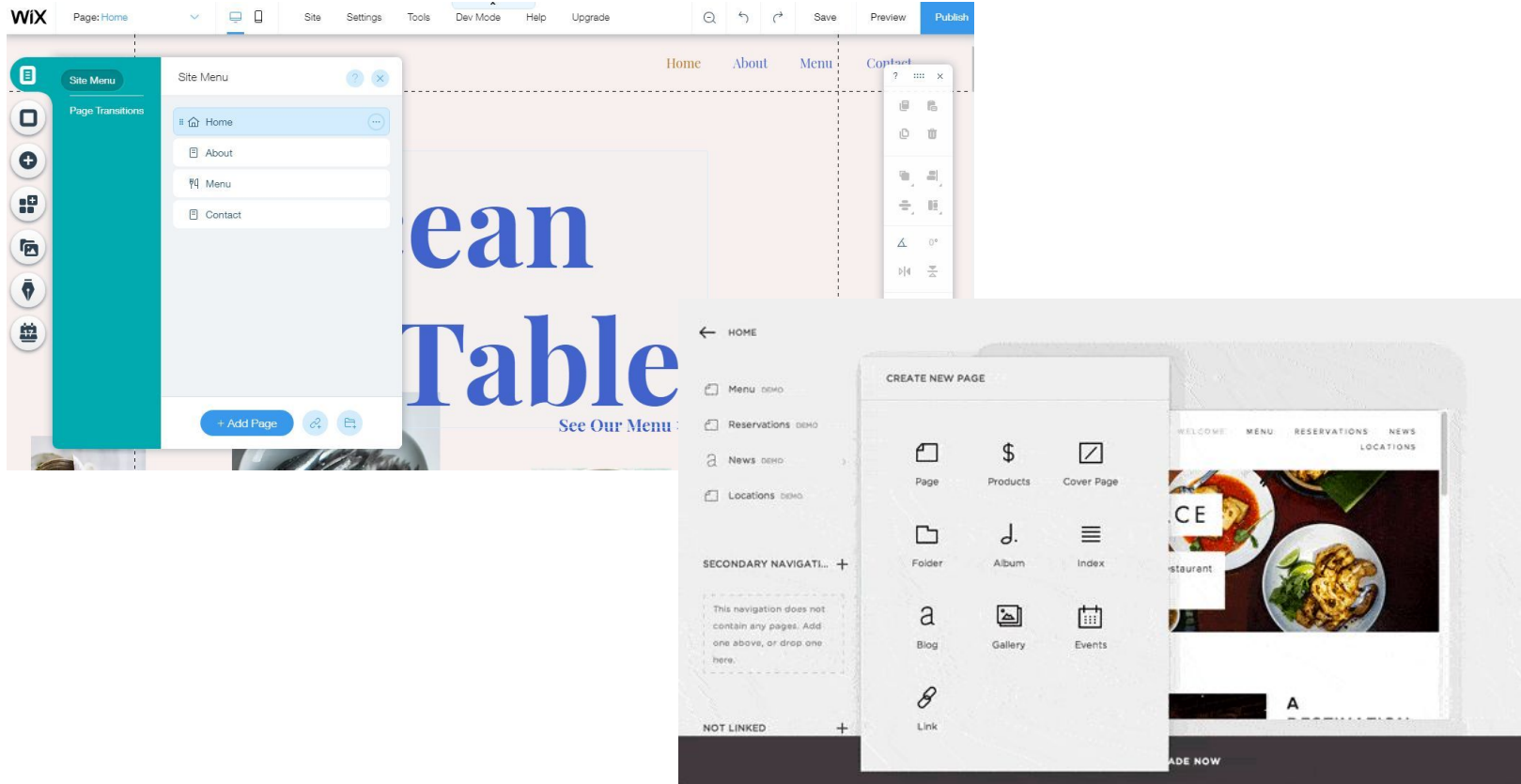
# Drupal is Great at Users and Workflows



Different organizations have different needs for content access



# Click-together Websites Save Time and \$



# Click-together Empower Users

[images of Wix, godaddy]

## Drupal Can Do Both

Drupal's CMS features combined with Layout Builder and Component Driven Theming deliver a Wix or Squarespace like site building experience.





# Our Approach

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Emulsify

Library of Flexible Blocks

Layout Builder

Provus “kickstarter”





# Emulsify

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Drupal 8+ (and Wordpress) Starter theme

Storybook component library

Supports both Twig and React components

**Emulsify**<sup>®</sup>  
**DESIGN SYSTEM**



# Component Driven Theming

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## The problem:

- Brittle CSS and JS
  - Selectors tied to context (where we put it on the page)
  - Selectors tied to backend (paragraphs vs views vs blocks)
- "Theming for the page design"
  - Globals are an anti-pattern
  - What happens when we want to do something the designer didn't design
- Can't re-use across projects
  - Theme files tied to Drupal implementation





# Component Driven Theming

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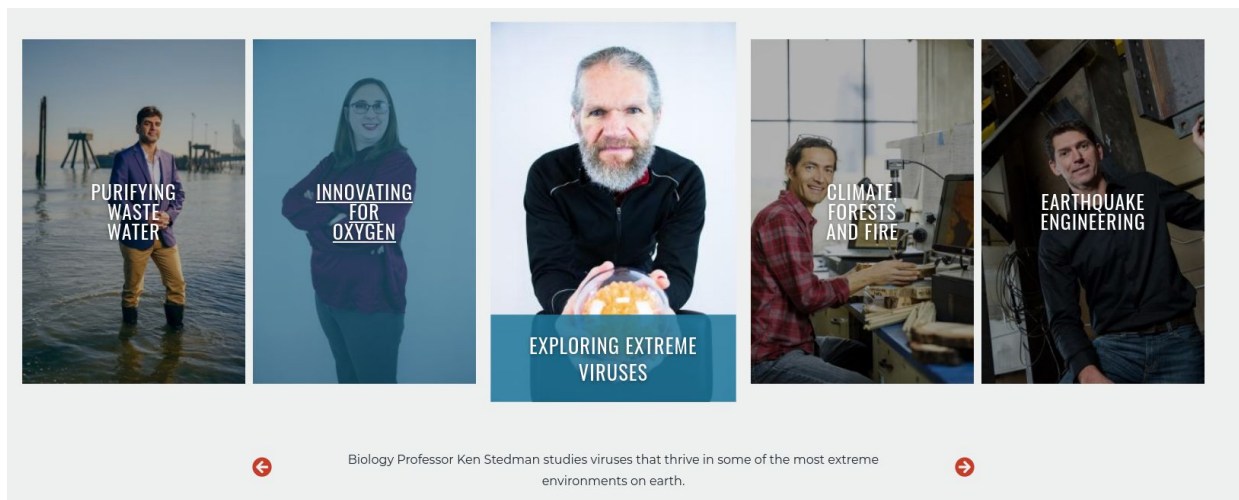
## The solution:

- Methodology
  - Atomic design
- Isolation
  - Styles namespaced, isolated and limited to one selector
- Tools
  - Storybook component library



# Illustration

A carousel component:





# Traditional Drupal Theming

## CSS:

/scss/partials/\_paragraphs.scss

## template:

/templates/field/field--**paragraph**--field-multiple-carousel-items--multiple-dis

## Javascript:

/js/theme.js


```
32 .paragraph--type--multiple-lists,
33 .paragraph--type--iframe-tour-calendar,
34 .paragraph--type--multiple-display-carousel,
35 .paragraph--type--multiple-display,
36 .paragraph--type--media-with-text,
37 .paragraph_featured_news_article,
38 .paragraph-featured-blog,
39 .paragraph--type--link-group-4-plus-with-images,
40 .paragraph--type--link-group-8-with-image,
41 .paragraph--type--link-group-4-with-images,
42 .paragraph--type--blog-twitter-facebook-block,
43 .paragraph-feature-stats,
44 .paragraph--type--feature-image-carousel,
45 .paragraph--type--featured-profile-block,
46 .paragraph--type--a-day-in-the-life-slider,
47 .paragraph--type--featured-news,
48 .paragraph--type--full-width-image-link,
49 .paragraph-4-cta-text-blocks,
50 .paragraph--type--short-hero,
51 .paragraph--type--page-title-block,
52 .paragraph--type--link-group-8-with-images {
53   padding-top: $padding-40;
54   padding-bottom: $padding-40;
55 }
56 &.events_vertical {
57   background-color: $psu-gray-100;
58   padding: $padding-30;
59 }
60 }
61
62 .paragraph--type--multiple-carousel-without-image h2.carousel-without-image--title,
63 .paragraph--type--a-day-in-the-life-full h2.paragraph-title,
64 .paragraph--type--quicklinks-no-images h2.paragraph-title,
65 .paragraph--type--quicklinks h2.paragraph-title,
66 .paragraph--type--news-twitter-facebook-block h2.paragraph-title,
67 .paragraph--type--multiple-lists h2.paragraph-title,
68 .paragraph--type--multiple-display-carousel h2.paragraph-title,
```







# Component Solution

All of the stuff and things are in one place:

Branch: **develop** ▾ / [components](#) / [03-organisms](#) / [group](#) / [carousel](#) / **3-item** /

 **prometjohn** OCDEV02-188: Add bg section styles to blocks. Fix link on card backgr... ...

..

 <a href="#">_carousel-3-item.scss</a>	OCDEV02-188: Add bg section styles to blocks. Fix link on card
 <a href="#">carousel-3-items.js</a>	OCDEV02-97 Fix for width of promo cards and other carousels
 <a href="#">carousel-3-items.twig</a>	OCDEV02-184 block integration cleanup (#58)
 <a href="#">carousel-3-items.yml</a>	OCDEV02-75 Fixes items in carousels (#32)

# What Does that Look Like?

In Drupal you are just embedding:

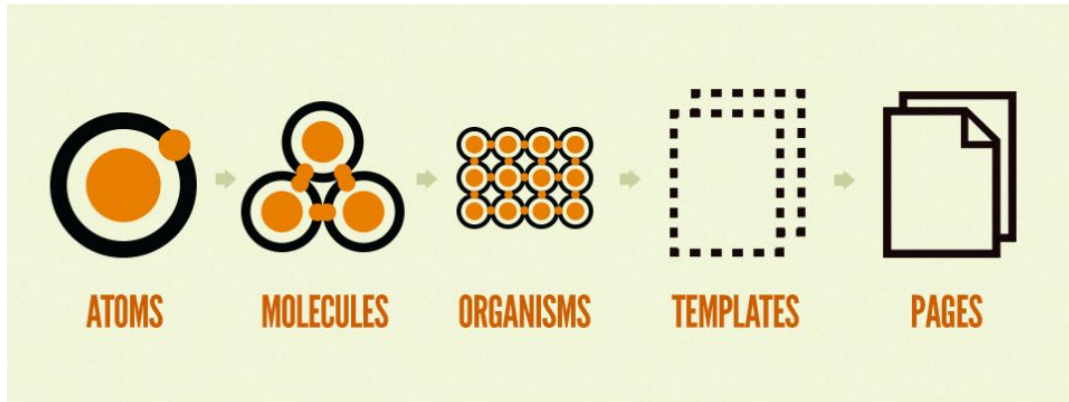
Branch: **develop** ▾ / [templates / block / block--link-group--carousel-3.html.twig](#)

43 lines (42 sloc) | 1.59 KB

```
1  {#
2  /**
3   * @file
4   * Theme override to display a block.
24  */
27  #}
28  {% set group_base_class = 'carousel-3' %}
29  {% set section_style_class = 'section-bg-' ~ section_style %}
30
31  <div {{ bem('block', [group_base_class, section_style_class]) }}>
32  {% embed "@organisms/group/carousel/3-item/carousel-3-items.twig" with {
33    carousel_heading: label,
34  } %}
```

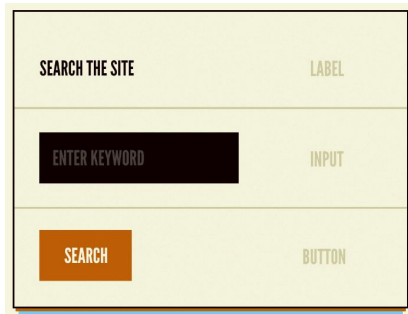
# Atomic Design

- Methodology for creating design systems
- <http://atomicdesign.bradfrost.com/>

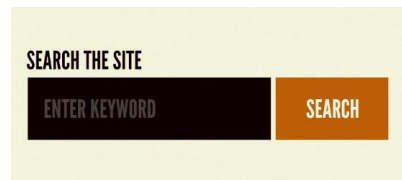




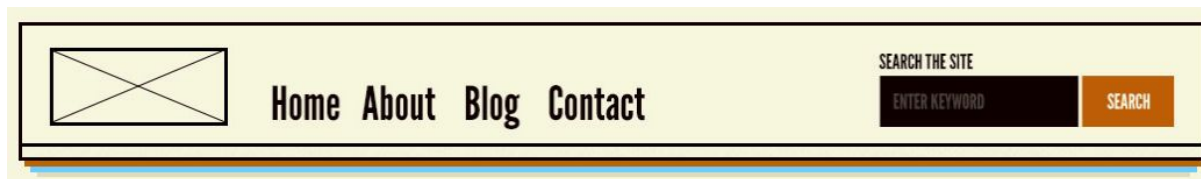
# Atomic Design



atoms




molecules



organisms



# Storybook



promet  
source

Press "/" to search...

- Base
- Atoms
- Molecules
- Organisms
  - Banner
  - Content
  - Footer
  - Grids
  - Group
    - By The Number
    - Link Group Multicard Carousel
    - Link Group Carousel 3 Items**
    - Four Card Featured Group

## LINK GROUP CAROUSEL

**Cal Optima Recruitment 1**

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim

**Lactation Rooms 1**

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**Stigma Free OC 1**

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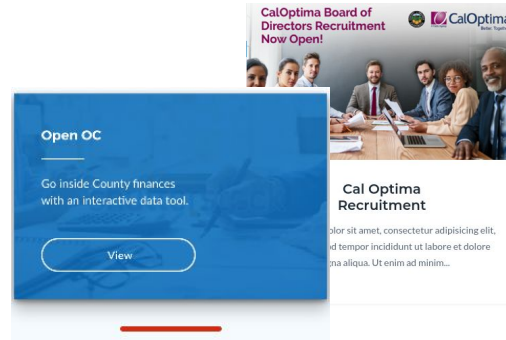


# The New Workflow

Front-end dev creates components:



**atoms**



**molecules**



ABOUT

EVENTS

MAP

NEWS

CONTACT



**organisms**



# New Workflow

---



**FRONT END DEVS DON'T  
HAVE TO TOUCH DRUPAL**



# QA Right Away

Accessibility and other QA outside of CMS:

Press "/" to search...

- Base
- Atoms
- Molecules
  - Cards
  - CTA
  - Info
  - Menus
  - Person
  - Search
  - Status
  - Tabs
- Organisms
  - Banner
  - Content
  - Footer
  - Grids
  - Group
    - By The Number
    - Link Group Multicard Carousel
    - Link Group Carousel 3 Items**
    - Four Card Featured Group
    - Quicklinks List
    - Quicklinks List Icons
    - Tabbed List
    - Column Row
    - Promo Card

### LINK GROUP CAROUSEL

**Cal Optima Recruitment 1**

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**Stigma Free OC 1**

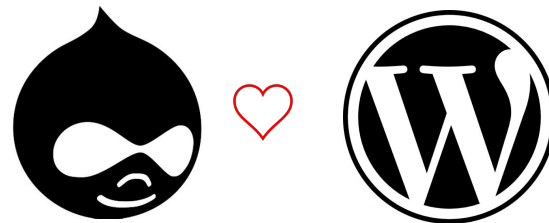
Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim

# Why Emulsify?

- Component Library “setup”
- Component Library tool (storybook)



<https://emulsify.info/>





# What Does that Look Like?

In Drupal you are just embedding:

Branch: **develop** ▾ / [templates](#) / [block](#) / **block--link-group--carousel-3.html.twig**

43 lines (42 sloc) | 1.59 KB

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32  {% embed "@organisms/group/carousel/3-item/carousel-3-items.twig" with {
33    carousel_heading: label,
34  } %}
```




# What Does that Look Like?

Live preview in Storybook.js:

🔍 Press "/" to search...

- Base
- Atoms
- Molecules
  - Cards
  - CTA
  - Info
  - Menu
  - Person
  - Search
  - Status
  - Tab
- Organisms
  - Banner
  - Content
  - Footer
  - Grid
  - Group
    - By The Number
    - Link Group Multicard Carousel
    - Link Group Carousel 3 Items**
    - Four Card Featured Group
    - Quicklinks List
    - Quicklinks List Icons
    - Tabbed List
    - Column Row
    - Promo Card


## LINK GROUP CAROUSEL



**Directors Recruitment Now Open!**


**Cal Optima Recruitment 1**

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**Lactation Rooms 1**

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**Take a step to be Stigma Free OC**

You are invited to participate in **Stigma Free OC** by making a **Statement of Support** for creating a stigma-free environment for individuals and families living with mental illness and substance use disorders.

**Join the movement.**

**Stigma Free OC 1**

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◀ ▶

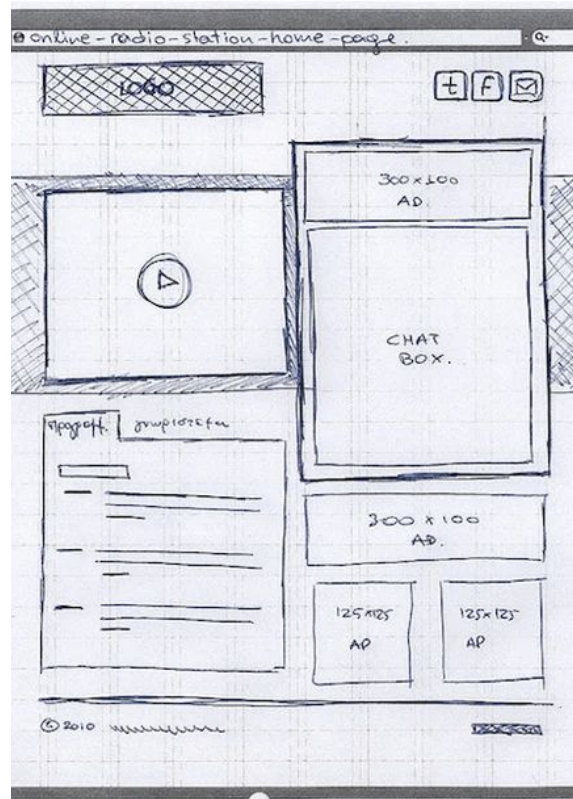
● ○ ○



# Drupal Implementation is Flexible

We built components not pages

Content editors can place items in contexts that weren't designed for





# Paragraphs vs Blocks

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- Blocks
  - In core, less code overhead
  - Can be applied to node edit form like paragraphs
- Paragraphs
  - Currently support better versioning
- Who cares?





# Consistent View Modes

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- View modes represent component type
- Applied to all content types
- Consistent field name for media types
  - Avoid “field\_staff\_image” and “field\_event\_image”



# Layout Builder

The screenshot shows a layout builder interface with a blue border. It contains three dashed boxes representing sections. The top section is a light gray box with a plus sign and the text '+ Add section'. The middle section is a dashed box with a blue border, containing a plus sign and the text '+ Add section' and a sub-section with a blue border and a plus sign and the text '+ Add block'. The bottom section is a light gray box with a plus sign and the text '+ Add section'. A small 'x' icon and the text 'Configure Section 1' are visible in the top left corner of the middle section.

The sidebar contains a search bar with the text 'Filter by block name'. Below it is a dark gray header with a white arrow pointing down and the text 'Design'. The main list includes: 'Line Separator' with a minus sign icon, 'Columns' with a vertical bar icon, 'Tabs' with a tab icon, 'Button' with a square icon, 'Media' with a right-pointing arrow icon, and 'Text' with a right-pointing arrow icon. Below this is another dark gray header with a white arrow pointing down and the text 'Widgets'. The main list includes: 'Banner' with a banner icon, 'Link Group' with a link icon, and 'Simple Instagram Feed' with an Instagram icon.



# Provus

Open Source  
"kickstarter"

Packages default  
components with  
common content  
types and features



## SOUTHPORT HIGHLIGHTS



Count Recruitment

Lorem ipsum dolor sit amet



Some Manual Block 2

Lorem ipsum dolor sit amet



Some Manual Block 3

Lorem ipsum dolor sit amet



# Content Model

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## › Alert

*Alerts* appear at the top of every page or selected pages.

---

## › Article

Use *articles* for time-sensitive content like news, press releases or blog posts.

---

## › Page

Use pages for your static content, such as an 'About us' page.

---

## › Event

*Events* put on or supported by the organization.

## › FAQ

*FAQs* provide a question / answer format for common questions.

---

## › Landing Page

Use *Landing Pages* for home pages and other landing pages.

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## › Location

*Locations* are facilities, buildings, parks or other location based spaces.

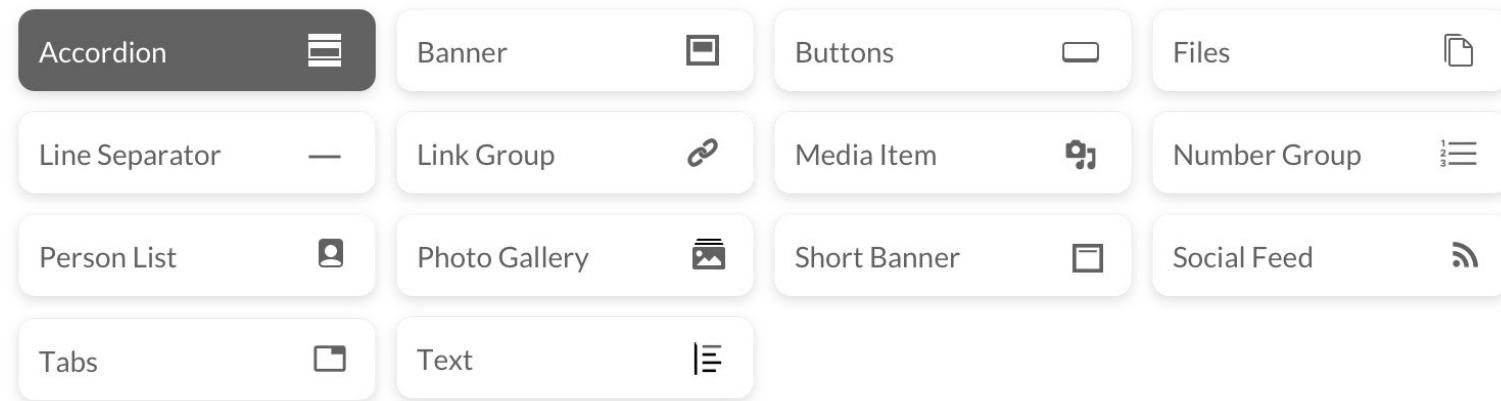
---

## › Person

A staff member or member of the organization.



# Provus Component Library





# Demo

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- Pre-recorded walk through of
  - Bespoke page creation
  - Creating a new content type
  - Using new content type with list group



# Other Examples

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Other similar projects in the Drupal community:

- [Site Studio](#)
- [Gutenberg](#)
- [Varbase](#)
- Others



# Provus

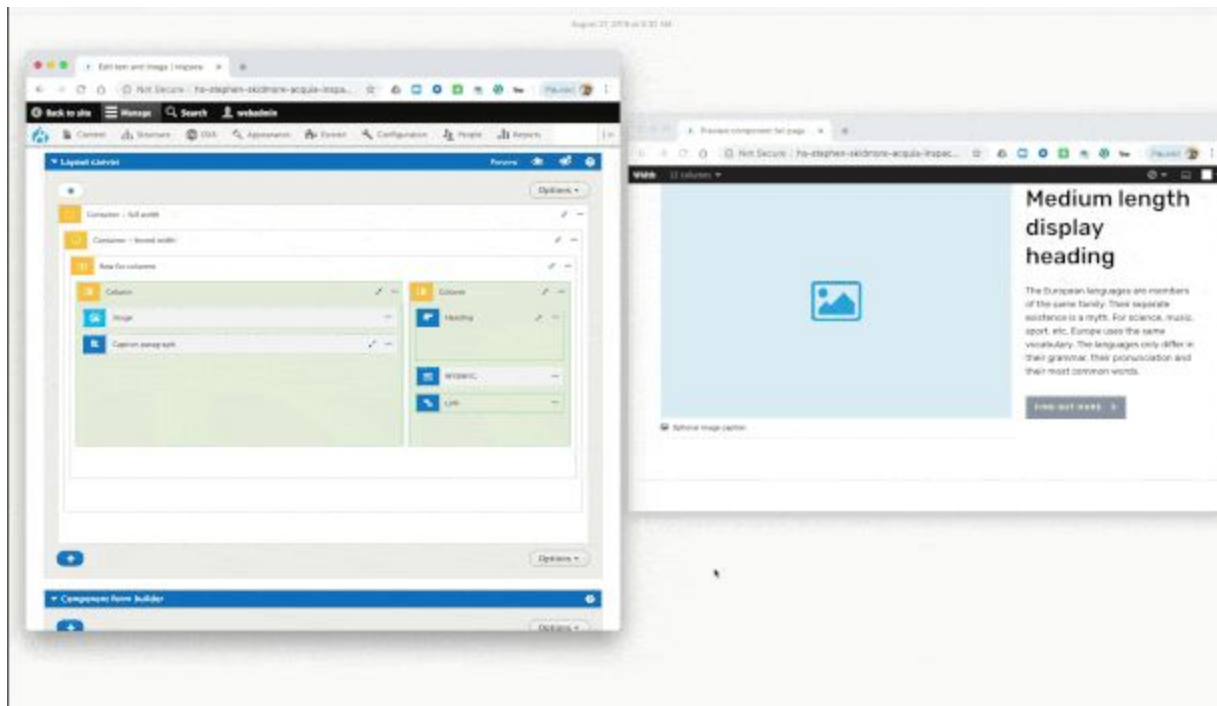
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- Very close to Drupal core
- Deliver award winning designs (no editing css)
- Flexible content model
- Focus on reusable components
- Early “dev”





# Site Studio





# Varbase

☰ DIGITAL NEWS

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- 360** DIGITAL NEWS
- WORLD
- BUSINESS
- SCIENCE & TECH
- LIFESTYLE
- SPORTS
- OPINIONS
- IN PICTURE
- VR
- VIDEOS



- Kim Jong Nam trial: Judge rules women's lawyers must mount defense
- Cape Town anger over slave quarter gentrification
- Bobi Wine: Uganda's Afrobeats MP standing up to Museveni

## LATEST NEWS

- WORLD**  
Marine Le Pen's Presence Deemed 'Disrespectful' At Web Summit
- LIVE BUSINESS**  
**UBER**  
Uber's Move Into Bikes And Food Delivery Deepens Losses
- LIVE WORLD**  
US Arrests Iraqi Refugee Wanted Over IS Killing
- WORLD**  
Sweden Muslim Woman Who Refused Handshake At Job Interview Wins Case
- WORLD**  
Trump's 'Dirty War' On Media Draws Editorials In 300 US Outlets

Change Layout
 Manage Content
 Edit
 Save
 Cancel



# Drupal Gutenberg

You might have heard of this pre-are wondering what it means for workflows? Everyone, and every dozen inconsistent ways of custom web initiatives. These content blocks make web content easier and more in

It's great that so many people talk of Drupal if you know how to write

revolutionized publishing — but change for your everyday content, replacing a half-dozen, and aligning with open standards, and aligning with open standards through Drupal to make building rich content, regardless of technical ability.

It's easy to unlock the power of Gutenberg.

Discover the new experience


Image

Manage Shortcuts admin  
Content Structure Appearance



# Resources

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-  Drupal Twig Slack
  - <https://drupaltwig-slack.herokuapp.com>
  - #storybookjs
  - #components
- List of Drupal Component Resources
  - [Resources for Component Based Theming](#)
- [Provus](#)
- Emulsify Docs
  - <https://docs.emulsify.info>



**Questions?**



# THANK YOU

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