

Move Fast, Don't Break Things

Trends in Modern Web Development

December 7, 2018

Today's Agenda

- I. About Me / Mediacurrent
- II. CMS + Front End
- III. Industry Trends: Decoupling
- IV. Case Study: City of Sandy Springs, GA
- V. Decoupling + Dev Process
- VI. Decoupling + Organizations

I:
About Me and
Mediacurrent





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Front End Developer

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 $@banquos_ghost$

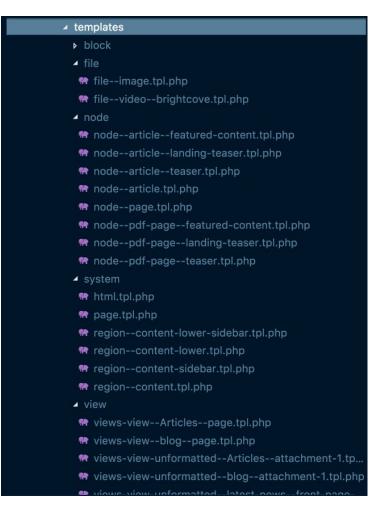
Mediacurrent is a full-service digital agency that implements world class open source software development, strategy and design to achieve defined goals for enterprise organizations seeking a better return on investment.



Template Overrides

- Very specifically named files

 (views-view-unformatted--articles-attachment-1.tpl.php)
- Unfamiliar terminology
 - Blocks?
 - o Views?
 - o regions?





Template Overrides

- What are these preprocess functions?
- Where are they?
- Where are the classes defined?

```
* - $id: Same output as $block_id but independent of any block region.
 * - $is_front: Flags true when presented in the front page.
 * - $is_admin: Flags true when the current user is an administrator.
 * - $block_html_id: A valid HTML ID and guaranteed unique.
* @see bootstrap_preprocess_block()
 * @see template preprocess()
* @see template preprocess block()
 * @see bootstrap_process_block()
 * @see template_process()
<div id="<?php print $block_html_id; ?>" class="<?php print $classes; ?> block--sidebar"
 <?php print render($title prefix); ?>
 <?php if ($block→subject): ?>
    <h2<?php print $title_attributes; ?>><?php print $block \rightarrow subject; ?></h2>
 <?php endif;?>
 <?php print render($title_suffix); ?>
 <div class="content body-text"<?php print $content_attributes; ?>>
    <?php print $content ?>
 </div>
</div>
```

Template Overrides

- Where are the styles?
- How do you maintain CSS when the markup is split up and reused over dozens or hundreds of files?
- Where is the JavaScript?
 - o How does it hook into these templates?



Component Driven Approaches

SMACSS



• BEM - Block Element Modifier CSS

React



Style guides / pattern libraries (KSS, Pattern Lab)





Drupal + KSS Node

```
·hero
assets
         -hero.scss
                    hero.json
Components
  components
                    hero.twig
        -hero.js
```

Mediacurrent Theme generator:

https://github.com/mediacurrent/theme_generator_8



Drupal + KSS = Synergy



Drupal + KSS Node

```
1%
                       /components/
                                         -hero/components.
  include 'a
                                                               -hero.twig' with {
  "image": image_attr(item.field_image),
  'featured_video': {
    'src': featured_video_link['#url'].toString(),
    'title': featured_video_link['#url'].toString() = video_link['#title'] ? "" : video_link['#title'],
  },
  'video': {
    'src': video_link['#url'].toString(),
    'title': video_link['#url'].toString() = video_link['#title'] ? "" : video_link['#title'],
  "cta": subtitle.0 ? subtitle.0['#markup'] : "",
  "intro": item.field_title.0['#text'],
  "smart_tv_links": hero_devices
} only
%}
```



Problems

- Integration
 - Where does the logic go? PHP? Twig templates?
- Drupalisms / Domain specific problems
 - How much drupal knowledge do front enders need?
- Performance
 - How can we avoid breaking caching?



III: Industry Trends + Decoupling

Front end complexity

- Accessibility, performance
- Responsive design
- Web applications rivaling native app functionality
- Push notifications
- Serviceworkers + offline functionality
- Web workers, Web assembly, future stuff





Why decouple?

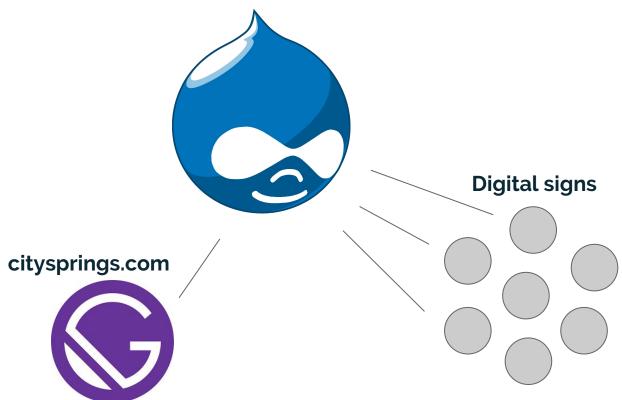
To unleash the full potential of the front end and back end.





The Ask

Unified Platform





CITY SPRINGS

TICKETS AND **EVENTS**

PERFORMING **ARTS CENTER**

CITY GREEN CONFERENCE CENTER

RESTAURANTS AND RETAIL

SANDY SPRINGS CITY HALL

LIVING AT CITY **SPRINGS**





BOSTON BRASS: CHRISTMAS BELLS ARE SWINGIN'

Boston Brass have teamed up with allstar brass players from around the globe to produce an unmatched sound that will light a fire for your holiday season. Experience fiery big band arrangements of classics like the Stan Kenton Christmas Carols, Greensleeves, and Motown Jingle Bells.

Saturday, December 22

Byers Theatre

View Event



UPCOMING EVENTS



SPARKLE SANDY SPRINGS Showing: December 1-31



ELF THE MUSICAL Showing: December 7-16



THE SOUNDS OF CHRISTMASTIME Showing: Saturday, December 15



MOUNT VERNON CHRISTMAS ARTS SHOWCASE Showing: Monday, December 17

VIEW ALL EVENTS AT CITY SPRINGS



EXPLORE CITY SPRINGS

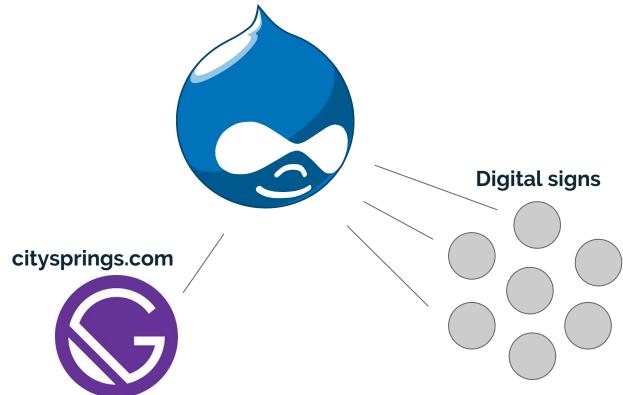
Promotion / Tagging

- Destination
 - What site the content should live on
- Tagging
 - Filtering events on citysprings.com
 - Custom RSS feed for each city sign
- Promotion
 - Embedding iframes on other sites
 - Promoting content to menus / sidebars



Recap

Unified Platform





Benefits to Sandy Springs

- Manage any amount of signs throughout the city
- Manage the content for a single web property
- Eventually manage the content for any number of other web properties.
- Manage content that is embeddable on any web property
- On time
- On budget



Benefits of Gatsby to Sandy Springs

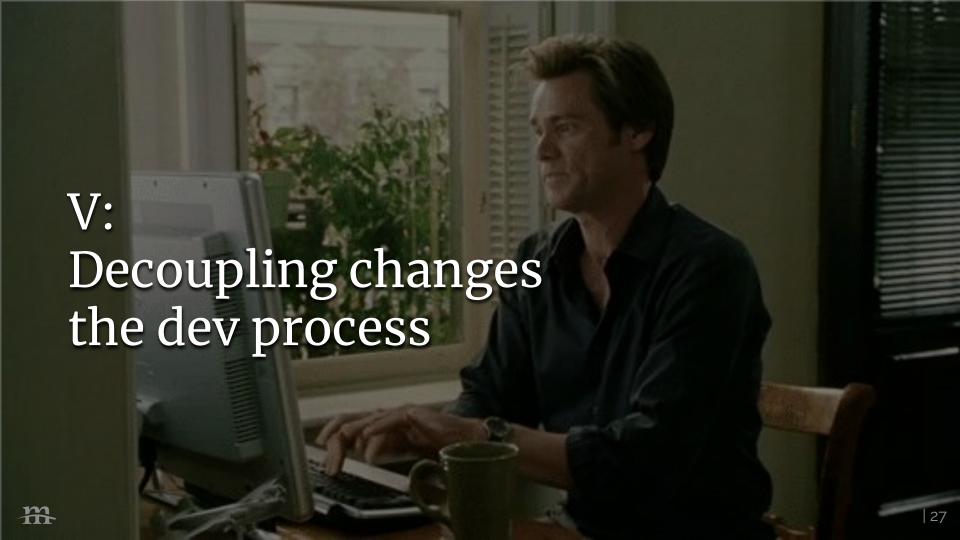
- Fast reliable site
- Latest front end best practices
- Ease of development for their team
- \$\$\$ saved on hosting



Benefits of Gatsby to Mediacurrent

- Money saved on hosting === more revenue
- Project delivery:
 - o On time
 - Right on budget
 - To spec
 - Minimal bugs;)
- Streamlined workflow for the future





Outcomes of Decoupling the CMS

- A front end that does exactly what we want and nothing more
- Free to adopt latest best practices
- Performance
 - More resilient
 - Easier to troubleshoot
- Asynchronous Development
 - Don't need the backend to start development
 - Integration logic -> GraphQL





VI: Decoupling the organization



Decoupling the Organization

- Hiring
 - Larger pool of more advanced developers
 - More modern, experienced team
- Client Diversity
 - Take on smaller projects, keep them profitable
 - Leverage experience with Gatsby / React into new kinds of work as an agency (other React, JS projects)



Next Steps

Learn more about us on <u>mediacurrent.com</u>

Email Me at ben.robertson@mediacurrent.com with questions

Come by and talk to me during the rest of the event

