Basics of Accessible Configuration and Development in Drupal

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Is my site accessible?
Is my site accessible?
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Outline

- Go somewhere else
- What Is Accessibility?
- Preparing for Development
- Configuring Entities
- Conclusions
Go Somewhere Else
Go Somewhere Else

This session is not for you

- You should know HTML very well
- You should be a YaleSites / Drupal super user
- You should use be comfortable inspecting the DOM
- You should have a strong hatred of the markup that Drupal outputs by default
Upcoming Training

Hands-on Training = $0
Go Somewhere Else

No seriously, this session is not for you

- I talk fast
- I go through my slides fast
- I don’t stop for questions
You won’t hurt my feelings.
Go somewhere else

Other sessions happening right now

- Image Annotations Using Drupal and Mirador - 203
- YaleSites: Building for the User - 202
What Is Accessibility
What Is Accessibility

Usability for People with Disabilities

- Blindness
- Color blindness
- Low Vision
- Deafness
- Motor Disabilities
- Cognitive Disabilities
What Is Accessibility

Adherence to a Technical Standard

- Section 508
- WCAG 2.0
- ATAG 2.0 Part B
What Is Accessibility

A Civic Responsibility

- Human Rights
- Civil Rights
- Participation in Government in Civics
- Participation in Business and Commerce
- Participation in the Workforce
- Participation in Education
- Participation in Social Media
Preparing for Development
Preparing for Development

- Understanding of Accessible Development Principles
- Planning for Accessibility
The foundation of accessibility is semantic markup.
Semantic Markup

- `div` and `span` are a last resort
- True headings (`h1`, `h2`, `h3`, `h4`, `h5`, `h6`), vs `strong`
- Semantic HTML and HTML5 (`header`, `footer`, `nav`, `aside`, `figure`)
- The difference between `a` and `button`
- The proper use of `label`
- Every `img` tag must have an `alt` attribute, but sometimes it must be null
Planning for Accessibility

● Annotate all of your designs before you begin coding
  ○ Focus on semantics
  ○ Focus on source order
  ○ Ignore wrappers, ids, class names, etc

● HTML prototypes are even better
Trump’s military spending bump could fund the Corporation for Public Broadcasting for the next 121 years

The agencies President Trump proposes eliminating represent a small fraction of the $54 billion in savings needed to offset the defense increases he seeks.
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Configuring Drupal Modules
Configuring Default Field Output

Default Field Output:

1. Field Wrapper
2. Field Label
3. Field Items Wrapper
4. Field Item Wrapper
Configuring Default Field Output

```html
<div class="field field-name-field-myfield">
  <div class="field-label">My field Label</div>
  <div class="field-items">
    <div class="field-item">My input</div>
  </div>
</div>
```
Michael's Favorite Foods

Favorite Foods:
- Pulled Pork
- Mac and Cheese
- Sweet Tea
Favorite Foods

- Pulled Pork
- Mac and Cheese
- Sweet Tea
Favorite Foods

- Pulled Pork
- Mac and Cheese
- Sweet Tea
<h2>Favorite Foods</h2>

<ul>
  <li>Pulled Pork</li>
  <li>Mac and Cheese</li>
  <li>Sweet Tea</li>
</ul>
<h2>Favorite Foods</h2>

<ul>
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</ul>
Configuring Default Field Output

Needed Configuration

- Display Suite Module
- Display Suite Extras Module
- Display Suite UI Module
- Structure > Display Suite > Display Suite Extras > Enable Field Templates
Configuring Field Groups

What if I need to wrap one or more fields in a custom wrapper?

E.g. image field + caption field = <fieldgroup>
Michael at Versailles

Michael's girlfriend thinks Versailles is more interesting than he is.
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Configuring Default Field Output

Needed Configuration

● All of the earlier Display Suite stuff
● Fieldgroups
In Conclusion

- The foundation of accessibility is semantic markup
- Display suite extras + custom field templates!
- Display suite can also be used for field collections, paragraphs, users, taxonomy terms, ... any entity!
- Field groups to add custom wrappers to multiple fields
Go Further

- Theme functions
- Field formatters
- Preprocess functions
-.tpl.php files
Questions?
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