

### Hello!

#### I am Kat Shaw

- Senior FrontendDeveloper @ Lullabot (we're hiring!)
- 13+ years in local government
- 10+ years in A11y + Drupal
- Find me at @katannshaw



### A few quick notes

#### Demos provided by

- Check out <u>tugboat.qa</u>
- Thank you James & Ben!



#### Common terms you'll hear

- WCAG: Web Content Accessibility Guidelines
- A11y: A + 11 chars + y = A11y (aka Accessibility)



### Core themes: The complete list



#### **Bartik**

- Default theme starting in Drupal 7+
- Due to be replaced by Olivero in Drupal 10

#### Olivero

- Working towards being default main theme in Drupal 10
- We'll talk more about it in a moment

#### Claro

- Working towards being default admin theme in Drupal 10
- We'll talk more about it in a moment

#### Seven

- Super simple grey on grey admin theme
- "Less is more" approach
- Due to be replaced by Claro in Drupal 10

#### Classy and Stable

- Classy is subtheme of Stable w/classes
- Stable aggregates all CSS from core into a single theme making it "stable"

#### Stark

- For demo purposes only for troubleshooting
- Should not use it as a base theme

### Core themes: Two new stars



#### <u>Claro</u> (experimental in core)

- Admin theme based on Seven
- Uses<u>Drupal's Admin Design System</u>
- Fresh look and feel throughout admin interface

#### Olivero

- New front-facing theme replacing Bartik
- Clean user experience and customization
- Modern look and feel

Both themes were built with accessibility in mind from the beginning!

# 2

# Core features and modules

Drupal comes with some great accessibility features out-of-the-box!



#### Semantic markup

- Semantic HTML5 elements
- Uses ARIA for screen readers
- Uses headings for page navigation
- Removes bad coding practices
- Addition of Olivero and Claro as default themes

#### Controlled tabbing

- Uses <u>Drupal.tabbingManager()</u> to access actionable elements in logical order
- Constraints keyboard tabbing within window (i.e. modals)
- Testing with <u>Modal</u> module



#### Focus handling & hiding content

- Focus is visible by default
- Options to hide content properly using CSS:
  - □ .visually-hidden
  - .visually-hidden.focusable
  - □ .hidden
  - □ aria-hidden="true"

#### Form fieldsets

- Groups related elements in a form for better organization
- Radiobuttons and checkboxes use fieldsets
- Advanced search results uses it by default



#### JavaScript/jQuery

- ¡Query UI removed from core
- Moved JS to asset libraries
- Uses Drupal.behaviors()
- Cean JS provides device independence (i.e. not exclusive to mouse users)

#### Aural alerts

- Changes on the page read aloud to screen reader users
- Uses JS method <u>Drupal.announce()</u>
- Uses WAI-ARIA (i.e. ariarole="alert")



#### Responsive images

- Creates image styles for different screens based on breakpoints
- Helps images load faster, especially for mobile users
- Included in core, but not enabled by default

#### Text editor/WYSIWYG

- Requires alt text for all media entities
- Limits allowed HTML for different editors
- There's no real solution in core for decorative images at this time



#### **Views**

- Rewrite generic links (i.e. Read more, Learn more, etc.)
- Shorten output to make it readable (i.e. limit body text to 200 characters)
- Add CSS classes and HTML5 elements to content items

#### Inline form errors

- Places form errors inline with the form elements
- Displays a summary listing all errors at the top of the form
- Included in core, but not enabled by default





#### Contact storage

- Used with the core Contact module
- Provides customizable on-screen
  & email confirmations
- Stores contact form submissions

#### Style guide

- Test all elements and components for accessibility on one page for each of your themes
- This works for all installed themes



#### Block ARIA landmark roles

- Add ARIA landmarks roles and ARIA labels at the block level through the Blocks UI
- Best used when you can't add it in your Twig templates

#### Block class

- Add CSS classes to your blocks through the Blocks UI
- Helps you to avoid inline CSS
- Add multiple CSS classes using a space as a separator



#### **CKEditor accessibility auditor**

- Provides button in CKEditor that runs HTML Code Sniffer
- Results shown immediately on screen in a modal
- Report shows issue details, code snippet, and tips and links on how to fix issue

#### Editoria11y accessibility checker

- Low-profile accessibility checker
- JavaScript library based on Sa11v accessibility checker
- Supported by <u>Princeton University</u>



#### High contrast

- User can switch between the active theme and high contrast version
- After install, add block to region via Block UI
- Click enable/disable to toggle tool

#### **CKEditor** abbreviation

- Adds a button to CKEditor for inserting and editing abbreviations
- When an existing abbreviation tag is selected, the context menu also contains a link to edit the abbreviation



### Resources - 1

- Drupal core accessibility features
  es
- Hide content properly
- Drupal 7 contributed modules to help with accessibility
- Drupal 8+ contributed module s for extending accessibility in Drupal

- How to do an accessibility review
- A11y office hours
- How Cool Accessibility Tools C an Make Your Life Easier
- What the Heck is ARIA? A Begin ner's Guide to ARIA for Accessi bility



### Resources - 2

- Understanding WCAG 2.1
- WCAG 2.1 at a Glance
- WAI-ARIA 1.1
- WAI-ARIA Design Pattern Exam ples
- <u>ATAG 2.0</u>
- ATAG Overview
- ACT Rules Community

- A11yTalks
- WebAIM
- <u>Deque Code Library</u> (beta)
- The A11y Project
- W3C Web Accessibility Tutorial
  s
- <u>a11ymatters</u>

### Thanks!

Any questions?

Find me at @katannshaw on

WE CAN BEHEROES JUST FOR WIE DAY

Drupal,

GitHub,

LinkedIn

& Twitter



### Credits - 1

Special thanks to all the people who made and released these awesome resources for free:

- Presentation "Minimal Black" template by SlidesCarnival
- Photographs by <u>Unsplash</u>



### Credits - 2

- Girl listening to music photo by <u>Eric Nopanen</u>
- Vinyl + Grado headphones photo by blocks
- Record player photo by <u>Adrian Korte</u>
- Cassette tapes photo by <u>Hello I'm Nik</u>
- David Bowie "Heroes" photo by <u>Gabriel Bassino</u>



### Credits - 3

- I wanted to share my Amazon Florida Playlist if you're at all interested
- You can find it at <a href="https://amzn.to/3v8zaMz">https://amzn.to/3v8zaMz</a>