# Editoria11y: Beyond the Basics

- 1. The basics
  - a. How we got here
  - b. What could go wrong?
  - c. Configuration tips
- 2. Using JS events
- 3. Custom tests



#### John Jameson • DrupalCamp NJ 2025

# **Proofreading:** 4,000 years of hard-won knowledge, manually applied



# Web Content Accessibility Guidelines: 26 years of hard-won knowledge, manually applied



Writing board, Middle Kingdom. ca. 1981–1802 B.C. On display at The Met

The accessibility challenge:

QA dashboards are powerful but manually visited

QA checkers are powerful but manually run



## Editoria11y

(and Adam Chaboryk's Sa11y) automate checking with tips written in plain(ish) language.





?

Program

#### Manual check: should this be a heading?

If this all-bold line of text is functioning as a heading for the following text rather than a visual emphasis, replace the bold formatting with the appropriately numbered heading. Otherwise, dismiss this alert.

Headings and subheadings create a <u>navigable table of contents</u> for assistive devices. The heading's **number** indicates its **depth** in the page outline; e.g.:

- Heading level 1
  - Heading level 2: a topic
    - Heading level 3: a subtopic
  - Heading level 2: a new topic

#### Page editor

Mark as checked and OK

Ignore this manual check

Issue 3 / 17

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## ~28 built-in tests focus on content *alone*

- Meaningless links
- Fake lists
- Fake headings
- Heading outline gaps
- Images with **no alt text**
- Images with **suspicious alt text**

- Table heading issues
- Links to **PDFs**
- Video/audio/dataviz alternatives
- LARGE QUANTITIES OF CAPS LOCK



...plus some manual tools

Heading visualizer...

Event - float block	c tit
Sai H3 ent 1 accusamus et	Sa
iusto odio dignissimos ducimus	ius
qui	qu
Nov 21, 2031, 12:30 pm	Nov
Location: Building Name, Room 1234	<b>-</b> F
Home Page Sample	
Sar H3 ent 3 accusamus et iusto odio dignissimos ducimus	Sa ius

#### 

This shows the <u>heading outline</u>. Check that it matches how the content is organized visually.

🗉 🔌 活

- H1: Princeton Site Builder Demo
- H2: Search
- H2: Alerts
  - H3: Sample Alert Message

**H2:** Designed for Princeton. Built by Princeton.

H2: Billboard- dark background

Sai 🕨 🔄 Alt Text

usto odio dignissimos ducimus

## Alt text visualizer...



Alt text: Albert Einstein portrait

#### Alt toxt Albort

Dismissed alerts can be reviewed and restored



#### Manual check: is this video accurately captioned?

If a recorded video contains speech or meaningful sounds, it must provide captions.

Note that automatic, machine-generated captions must be proofread, and speaker identifications must be added, before being considered an equal alternative.

Page editor D Layout editor

Restore this alert marked as OK

Issue 1/1 ? ×



Results are synced into the Drupal reports tab

3

### Pages with the most issues

Page	Count
Give it a go and grow your own herbs	<u>11</u>
Dairy-free and delicious milk chocolate	<u>11</u>
Accompaniments	1
About Umami	1
Home	1

#### Most frequent issues

Issue	Count
Manual check: is this link meaningful and concise?	5
Manual check: was a heading level skipped?	3
Manual check: is this link text a URL?	3
Manual check: long heading	2
Manual check: is this a blockquote?	2
View all issues	







Sounds great!

## What could possibly go wrong?

Sometimes sites need config to prevent overload



- Pence of Insurability (EOI) New Jersey Residents
- ence of Insurability (EOI) 
   New York Residents
- (?)ence of Insurability (EOI) 🗈 Pennsylvania Residents
- Plnsurance Beneficiary Designation Change Form

Residents of other states can contact the Benefits Team at (609) 258-3302 or **benefits@princeton.edu** for a form.

Medical & Prescription

- 🥐 a Claim Form 🗈
- (?) cription Drug Claim Form OptumRx 🗎
- cription Mail Order Form OptumRx
- 🥐 ed Healthcare Mental Health Claim Form 🗈
- Image: Contemporary of the second se



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Sometimes sites need helper code to reveal hidden tips



And sometimes I need to find time to rewrite test logic after receiving a bug report that "The module is incorrectly flagging our web component as having empty text" [because someone] found a new and interesting way to combine and nest shadow DOM and slot templates I didn't foresee so my abbreviated version of the accessible name calculation can't detect the nested heading text.

<pds-band> (custom...) #shadow-root (open) <pds-layout-container> (custom...) #shadow-root (open) <pds-sidebar gap="lg" style="--pds-sidebar-right-width: 33%"> ( #shadow-root (open) w <div class="pds-u-margin-bottom-24 block block-pfg-pds-block">div class="pds-u-margin-bottom-24 block block-pfg-pds-block componentheading"> <pds-heading variant="display-default" headingtag="h1"> (cull set in the w#shadow-root (open) <!---> w <h1 class=" pds-c-heading pds-c-heading--display-defau"</pre> <slot>(contents) <#text> ¬ </slot> </h1> Policy Riders and Endorsements </pds-heading> </div>

## Deep breath.

Most sites are turnkey on install.

## Let's install & configure

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#### Editoria11y Settings

#### Getting started

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## Config page suggest starting with permissions.

Some are automatic, some are not.

Permission	Anonymous user	Authenticated user	Content editor	Admin
Administer Editoria11y checker Allows user to purge results and change con- figuration.				✓
Manage Editoria11y results View the site-wide dashboard and reset dis- missals.			X	✓
Mark as OK in Editoria11y Adds button to suppress a manual check for all users, if sync is enabled.			X	✓
Mark as hidden in Editoria11y Adds button to suppress a manual check for the current user.			✓	✓
View Editoria11y checker Assign to all content editors.			✓	✓

#### Editoria11y Settings

#### Getting started

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#### Manual check: is this link meaningful and concise?

This link's text is: download link

Readers skim for links. This is especially true of screen reader users, who navigate using a list of on-page links.

acaroon Generic links like "click here," "read more" or "download" expect the biscuit reader be reading slowly and carefully enough to figure out each link's caramel purpose from context. Few readers do this, so click-through rates on meaningless links are extremely poor.

- Ideal: "Learn about meaningful links"
- Not meaningful: "Click here to learn about meaningful links."
- bread. C 
   Not concise: "Click here to learn more about meaningful links"

#### C Page editor C Layout editor

R Mark as checked and OK R Ignore this manual check

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lemon d	Ideal: "Learn about <u>meaningful links"</u> Not meaningful: "Click <u>here</u> to learn about meaningful links."					
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  - Not concise: "Click here to learn more about meaningful links"

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You can also override options at runtime to add custom CSS

}

var editoria11yOptionsOverride = true; var editoria11yOptions = function (moduleOptions) { let options = moduleOptions; options['cssUrls'].push('/modules/EXAMPLE/example.css'); return options;



#### Editoria11y Settings

#### Getting started

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### Show tips automatically when issues are detected



#### Always

On first detection

Never

On first detection is recommended for sites with many editors.

### Decide how annoying you want to be

Editoria11y Settings

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#### Getting started

When to display results
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#### Check content in these containers

To limit checks to user-editable containers, provide a list of <u>CSS selectors</u> . E.g.: *main*, *#footer-editable-content* Default: main, falling back to body. If elements are specified here and none are found on the page, Editoria11y will not find anything!

#### Skip over these elements

Provide a comma-separated list of selectors for elements to ignore. These should target specific elements (use an asterisk to indicate "all children of this element").

E.g.: #sidebar-menu a, .card img, .slide [aria-hidden="true"],
.feed \*.

Decide what to check

## Let's say we want to ignore an alert in the footer ON EVERY PAGE...



## These approaches will both *work:*

## Ignore a specific tag:

Skip over these elements

footer .logo-image

## Only check editable content:

**Check content in these containers** 

main, .footer-editable-content

## ...but the second will run *faster*.

## Ignores have to run against every matched tag

<nav>

</a>

<a href="https://example.com" class="nav-link link-purpose"> EXAMPLE LINK <span class="ext-icon"> (Link is external) </span>

So choose carefully: nav .link-purpose 🔥 (less specific) nav a .link-purpose (not specific) slower... nav a[href^="https:"] dangerously slow: nav a:has(.ext-icon)

Editoria11y Settings

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#### Getting started

Make some upper production of a percent have the "View Editorial"s checker" permission. Assign "mark OK" as appropriate. <u>To come the interference</u>, seen meet "Menage Editorial"s meets.<sup>1</sup>
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#### **Check content in these containers**



## Last thought on check roots:

## Watch for nested roots.

You'll get duplicate results and your computer fan will be audible from orbit.

The module ships with some default ignores

 Paragraphs in tables Headings in navigation • Alts on aria-hidden images Links not in the tab index Tables with role="presentation"



Plus the admin UI elements – open a bug if I missed any.

#toolbar-administration \* \* .filter-guidelines-item \*, h [id\$="-local-tasks"] \*, .tabledrag h4, .block-local-tasks-block \* [id\$="-local-tasks"] a,  $\boldsymbol{\mathcal{O}}$ .filter-help > a, .block-local-tasks-block a, .contextual-region > nav a table .tabledrag







#### Manual check: is this uppercase text needed?

UPPERCASE TEXT CAN BE MORE DIFFICULT TO READ FOR MANY PEOPLE, AND IS OFTEN INTERPRETED AS SHOUTING.

Consider using sentence case instead, and using bold text or font changes for visual emphasis, or structural formatting like headings for emphasis that will also be announced by screen readers.



Mark as checked and OK
 Second Se

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#### Don't show edit links on tips in these containers

Tips show copies of the "Edit" and "Layout" links for nodes, users and taxonomy terms. These links are not helpful on lists of content from remote nodes. Provide a comma-separated list of page sections of where these links should not show, E.g.: *#sidebar-menu, .news-feed*. To hide the links **everywhere**, set this field to an asterisk (\*). To modify the links, use the ed11yPop event a in your theme JS.



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To check headings in CKEditor, Editoria11y needs to know what the first heading level should be in this field. Body fields should generally be at the h2 level.					
H2 level fields (body content)					
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#### Heading outline position of editable content

To check headings in CKEditor, Editoria11y needs to know what the first heading level should be in this field. Body fields should generally be at the h2 level.

#### H2 level fields (body content)

### form[id^="node-"] #edit-body-wrapper .ck-content

Body fields on nodes are preceded by an h1, and their heading outline should start with an h2. Ideally set this for top-level body fields for each of your content types, and set blocks and embedded nodes to h3 or h4.

Set all content types: form[id^="node-"] #edit-body-wrapper .ck-content Set specific content types: form[id^="node-"] #edit-body-wrapper .ckcontent

Set up for Gutenberg: form[id^="node-"] #edit-body-wrapper .is-rootcontainer

#### H3 level fields (blocks or paragraphs with separate titles)

#### #edit-accordion-wrapper .ck-content, #add-accordi

Sometimes inline and layout builder blocks are grouped under an h2 from a separate field, so their highest heading level should be h3.

#### H4 level fields (deeply nested blocks or paragraphs)

#### Editoria11y Settings

#### Getting started

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### Hide the checker in chosen contexts

### $\checkmark$ When to display results

#### Disable the scanner if these elements are detected

#news-search-page, .user-251

Hide all alerts if none of these elements are present

.contextual-region a[href\*="/edit"]

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#### Editoria11y Settings

#### Getting started

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## *Turn off checker while editing anything, not just specific forms listed above...*

Do not check any content while it is being edited

Use the previous field ("Disable the scanner if these elements are detected") to only prevent checking certain specific forms. E.g., setting it to *form[id^="node-article"]* would exclude the Article add and edit forms.

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#### Link and document tests

Default settings should work with both Link Purpose Icons and External Links a.

Strings in links that indicate new windows

(download) (window) (tab)

Provide a Regex of strings your modules programmatical open-in-new-window links. Escape characters as needed to form a valid regex; the d (download) | (window) | (tab)

#### Remove these strings before testing link text

(link is external) (link sends email)

Provide a Regex of strings your modules programmatical pose (external, mail, phone, open-in-new-window) e.g.: (link is external) (link sends email)

#### Remove strings in these selectors before testing

svg.ext, svg.mailto, .link-purpose-text

Provide a CSS selector of elements your modules programally external or open-in-new-window links), so they can be is checked for the "link has no text" and "link text is not m E.g.: .this, .that

Various settings to make sure the link text tests are aware of external link indications.

You can ignore these if you use the External Links or Link Purpose modules

#### Editoria11y Settings

#### Getting started

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> Heading outline position of editable content
Advanced configuration
) Link and document fauls
> Syncing results to reports
An extension

## The controversial "Has this document been remediated?" test...

You can add more file types, or turn off the test altogether by setting its selector to "false"

#### Remind the editor that these linked documents need a manual check

a[href\$='.pdf'], a[href\*='.pdf?']

Add or remove filetypes. Set to "false" to disable the test altogether. Providing any value will override the default, which is a[href\$='.pdf'], a[href\*='.pdf?']. To test for more document types, use a[href\$='.pdf'], a[href\*='.pdf?'], a[href\$='.doc'], a[href\$='.docx'], a[href\$='.doc?'], a[href\$='.doc?'], a[href\$='.ppt'], a[href\$='.pptx'], a[href\*='.ppt?'], a[href\*='.pptx'], a[href\*='.ppt?'], a[href\*='.docs.google']

#### Editoria11y Settings

#### Getting started

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> Heading outline position of editable content

Advanced configuration

> When to display result

Web components, custom texts and theming issues



Provide a comma-separated list of selectors for other things that appear in the bottom right of the page.

If nothing is set, Editoria11y will automatically slide left to accommodate #klaro\_toggle\_dialog, #klaro-cookie-notice .same-pagepreview-dialog.ui-dialog-position-side.

tura ) Adviseration ) Configuration ) Contact authoring Editoria11y Settings Getting started I Wate sure user roles that add content have the "View Editorial's checker" permission. Assign "mark Of" as appropriets. To view the dealersery, users need "Manage Editorially results." 2. Review each setting order Basic Configuration. Many also tend to adjust what parts of the page are scanned 3. Remember that results any surve to the deal-board when newing rodes. Results shown while editing or newing previous or revisions all not sure 4. Check the Maskak Description / I Markow Dense / Tasue Gueve / Library Conferentian Duale / > Tradiatoring Basic Configuration Seek V . ..... O On first detection () here On final defaultion is incommended for sine with many address Owck content in these containers <sup>1</sup> A loss success to user automass conserves, provide a lot of <u>111 services</u> 4. E.g. main, Planter autotable content Debut main, helps basis to boly. F elements are specified from and runn are found. on the page. Editorially will not find anything? feet over these electronics Provide a communication for all assessments to ignore. These should be House a contra segurate to a second to exclusive to grow these decoderse-per second ensures can an ensure to entrane "a entrane" of the ensure", 6.8. Holdstarment e, contra ing, collabor (articulations\*true\*), cheel e. Darit show edit tres on tax in these containers Tax show comes of the "fail" and "cause" true for lodge, users and become forces a comma separate tel al page sectors d'altere trace trac alcude tot rue, E.g. Politikar anno, unaccident la fuie de lates **annyales**, al the force to an adapte pri Heading outline position of editable content When to display results Web components, custom texts and theming issues

#### Scan inside these Web components

Provide selectors <u>shadow hosts</u> a with editable content. E.g.: *my*-fancy-accordion-widget, *my*-magical-slideshow.

## Remind editor that content in these embeds needs manual

review

#### Theme JS will handle revealing hidden tooltips inside these

#### containers



tora ) Administration ) Configuration ) Contact authoring Editoria11y Settings Getting started 1 Weise note user roles that add content have the "View Editorial"s checker" permission. Assign "mark OF" as appropriete To your the destinant, yours need "Manage Editorially results" 2. Beview each setting under Basic Configuration. Many sites teed to adjust what parts of the page are scanned 3. Remember that results only surve to the deal-board when revening rodes. Results shown while editing or revening previous or revisions will not sure 4. Check the Module Discrete + 1 Montes Dens + 1 Issue Guese +1 Library Configuration Duals > Troubleshooting Sank V · Arrest On first detection. O New On find addresses is recommended for sine will make address Dark content in these containers As less character las une autorative companies, processes a los et <u>1911 annecess</u> 4. El p. maios, . Pfentier andi Astria combient Default maios, futing lassis to lendy. If elements are specifical here and none are found. on the page. Editorially will not find anything free over these electronic per queste concerne sua en ances se entres se presente en presente de la presente contained and integers and the work from Tax show comes of the "Edit" and "caused" true for lodge, users and become none a comma asparate tel di page sectore di amere these trac divide not na ligi ficialitàri anno, unancificad i tale tra trac **assignifica** set tra ficia la academia (e). Heading outline position of editable content When to display results > Link and document texts Syncing results to reports ina configuratio

#### ✓ Syncing results to reports

#### Remove redundant base url from URLs

Provide base URL ("/mysite") if your site is installed in a subdirectory. Subdirectories tend to get duplicated (/mysite/mysite/mypage) and throw errors from the API.

#### Preserve query parameters

#### search,keys,page,language,language\_content\_entity

The dashboard ignores most parameters: results for both /news?f=1 and /news?f=2 will show up as just /news. Provide a comma separated list of parameters that are meaningful, and should appear as separate pages in results.



Syncing test results back to Drupal is required for the <u>issue</u> and <u>dis</u>-<u>missal</u> dashboards and "mark OK" buttons. You made it! Deep breath. Now for the fun stuff. Meet JS Events

## document.addEventListener(

'ed11yPop', e => {

// Do something.

);

// Most events send "detail" objects.
// e.detail.result.element.classlist.add('open');
// use console.log(e.detail) to explore.

### On Tip Pop example



e.detail.tip.shadowRoot.querySelector( '.ed11y-custom-edit-links[href\$="/edit"]' )?.setAttribute('hidden', ''); The most useful Editoria11y events *Test are running:* 

- ed11yRunCustomTests\* (write to Ed11y.results)
- ed11yResults (read from Ed11y.results)

Tip are opening:

- ed11yPanelOpened
- ed11yShowHidden\* (result)
  - ed11yPop (result, tip, result ID)
- \* only dispatched if you asked nicely in config

On Open

Unstick page header, open accordions, switch tabs...

## document.addEventListener(

"ed11yPanelOpened", function () {
// Prevent header from sticking.

\$('body').addClass('no-stick');

// Open all accordions with results.
\$('ed11y-element-result').each(function () {
 \$(this).parents('.accordion.shut').prev()
 .find('.accordion-button').click();

})

Show Hidden

Make sure the result is visible before the tip draws Theme JS will handle revealing hidden tooltips inside these

containers

}, false);

.accordion, .tabs, .carousel

document.addEventListener( 'ed11yShowHidden', function(e) { const result = \$(`[data-ed11y-result="\${e.detail.result}"]`); if (result.parents('.accordion.shut').length > 0) { result.parents('.accordion').prev() .find('.ps-accordion-item-button').click();

Ô

## Writing custom tests



#### This link might be broken

unpubli

Please check if the following URL is broken. Even if it seems to work, verify that the destination address (after the webpage loads) is *identical* to the URL below. If they're not identical, please correct your guide with this new URL.

https://www.ssrn.com/en/

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The coolest custom test I've seen from a user so far... Custom tests take 4 steps

(remember to add 1 to the count of custom tests on the config page):



1. Find issues

- 2. Tell Editoria11y what you want in your tip
- 3. Tell Editoria11y about your issues
- 4. Tell Editoria11y you're done

1: Find issues Ed11y.findElements() is an optional helper that only selects using your checkroot / ignore config.

document.addEventListener(
 'ed11yRunCustomTests', function() {

Ed11y.findElements( 'notInTable', 'table .widget' );

// name your list
// any CSS selector

Ed11y.elements.notInTable?.forEach((el) => {
 // further filter the list as needed
})

2: Add your tip title and content to Ed11y.M

## Ed11y.M.notInTable = { title: 'Widgets do not belong in tables', tip: () => Don't put our custom widgets in tables. They asplode on mobile.



**};** 

3: Add each issue to Ed11y.results

```
Ed11y.elements.notInTable?.forEach((el) =>
 Ed11y.results.push({
             el,
    element:
    test: 'notInTable',
    content: Ed11y.M.notInTable.tip(),
    position: 'beforebegin',
    dismissalKey: Ed11y.dismissalKey(el.textContent),
  })
})
```

*To create a dismissable "Manual Check,"* use Ed11y.dismissalKey() to create an identifier based on something unique-ish in the element – text or attributes or HTML. Otherwise return dismissalKey: false 4: Announce that you are finished

## let allDone = new CustomEvent('ed11yResume');

document.dispatchEvent(allDone);

### Please do not put our widgets in tables

Don't put our custom widgets in tables. They asplode on mobile.

**£** Edit this content

Mark as checked and OK

Ignore this manual check

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×

# Some more things on the roadmap...

## 1. Bugfixes!

From typos and performance issues to quirks in the hidden element detector...the live-editing rewrite left a lot of loose ends.

- 2. GUI to enable/disable tests. (thanks again for the MR @nmillin)
- Backend rewrite to support the dashboard initiative – Views-ready references to nodes, terms and users in the result tables.



Module:drupal.org/project/editoria11yLibrary:editoria11y.princeton.eduMe:drupal.org/u/itmaybejj