

February 18, 2023

Accessible JavaScript In Action

Andrew Olson Frontend Software Engineer



@andrewozone



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Andrew Olson

Frontend Software Engineer



- Frontend Developer from the Chicago Suburbs
- Working with Drupal since 2008
- Fun Fact About Me:
- Musician + played in a band at Lollapalooza



Member of A11yTalks

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https://A11yTalks.com/pages/sponsorship

https://opencollective.com/a11ytalks



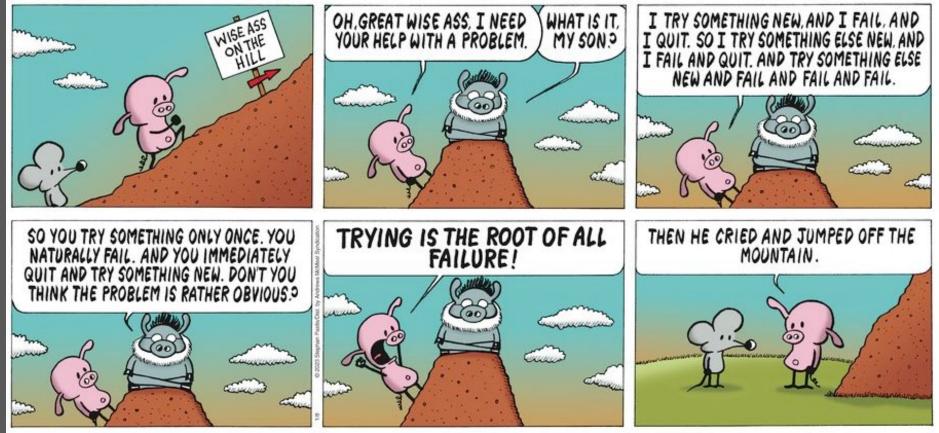


Agenda

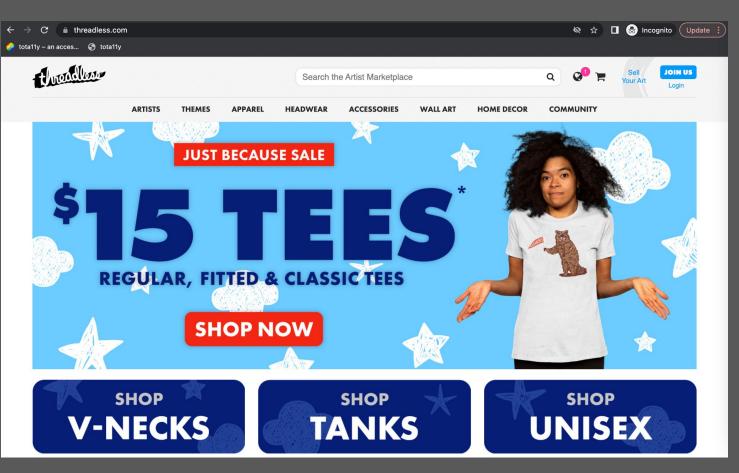
- Modals / Pop-Ups / Pop-Ins
- Menus
- TypeAhead (also called Autocomplete)
- Wrap Up

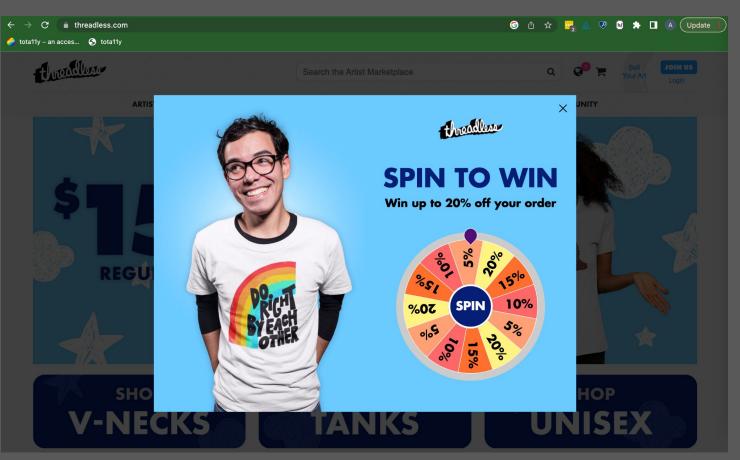
PEARLS BEFORE SWINE

BY STEPHAN PASTIS

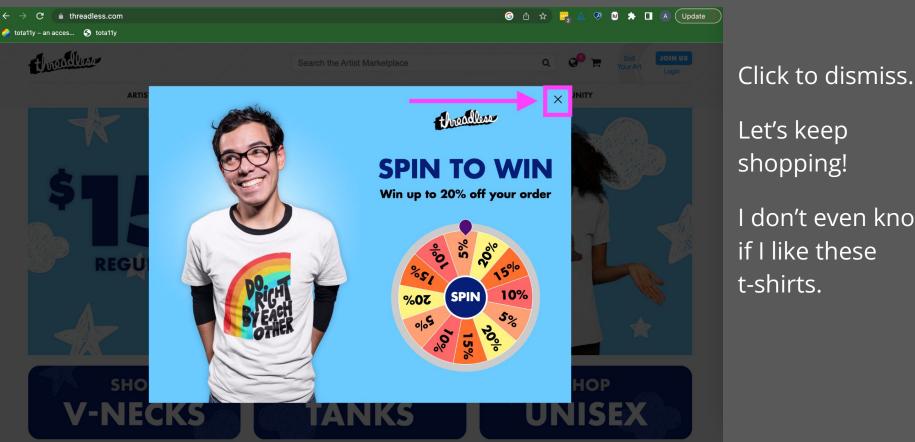


https://www.gocomics.com/pearlsbeforeswine/2023/01/08

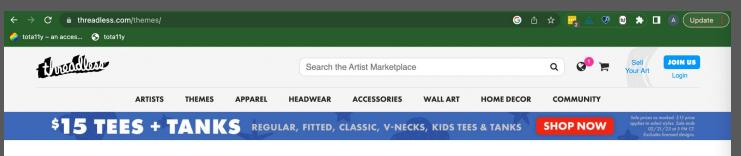




~ 3 Second Delay Pops into Page



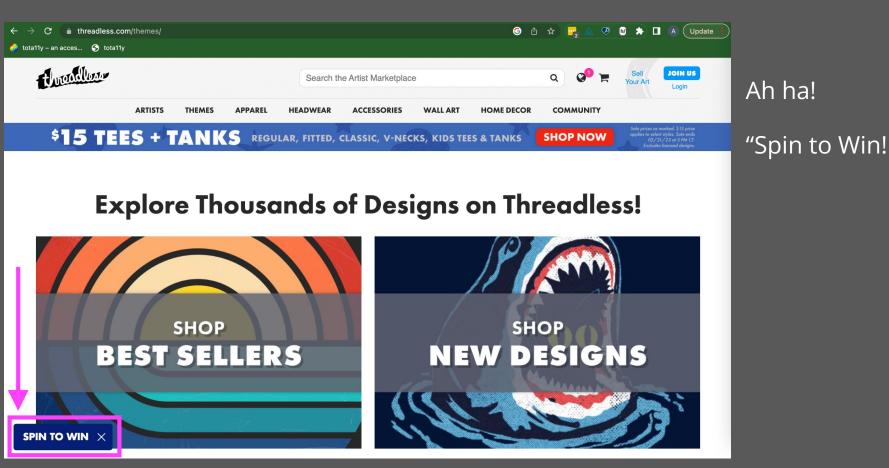
Let's keep shopping! I don't even know if I like these t-shirts.

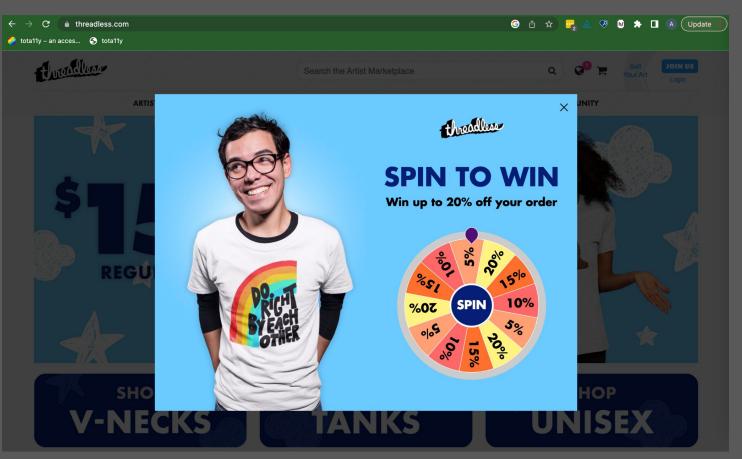


Explore Thousands of Designs on Threadless!

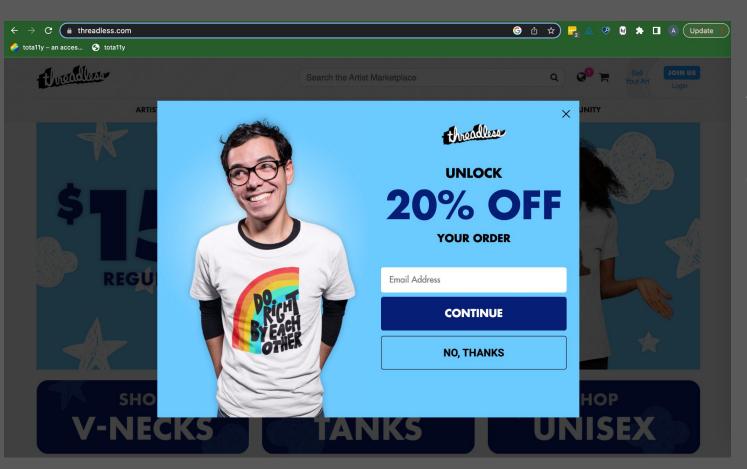


Wait a second, something seems familiar on this page.



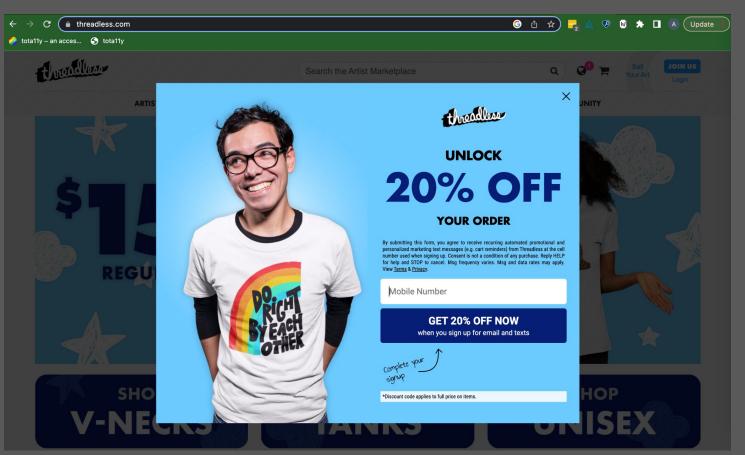


OK, you got me! I want a discount!



20%, not bad!

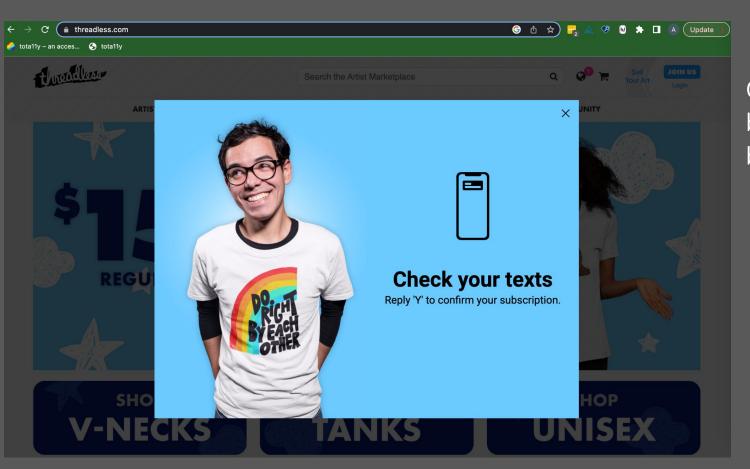
Oh, they need my e-mail. That makes sense.



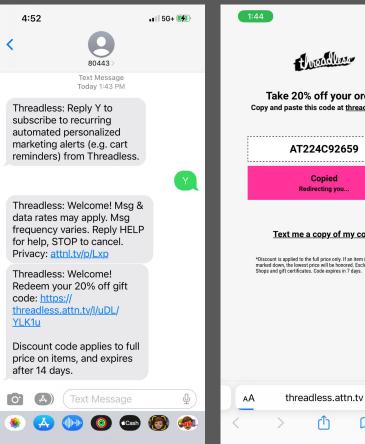
Wait, I need to give you my phone number too?

Grrrrrr ...

I really want that t-shirt though ...



Ok, my phone beeped and booped!



threadless

11 5G+ 🔳

Х

C

Take 20% off your order! Copy and paste this code at threadless.com

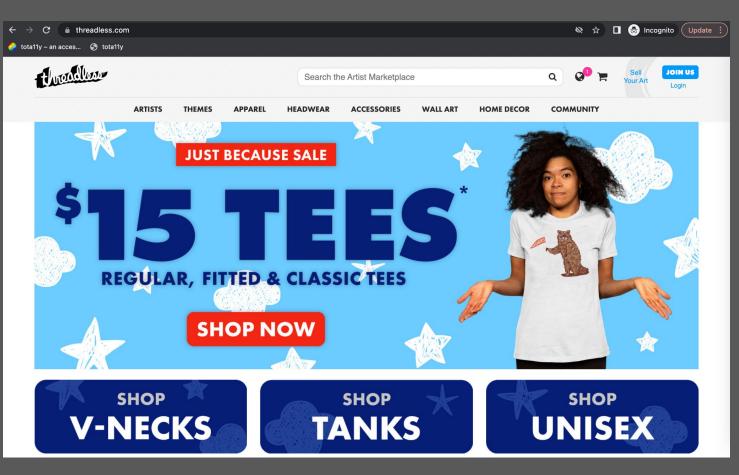
> AT224C92659 Copied

Text me a copy of my code

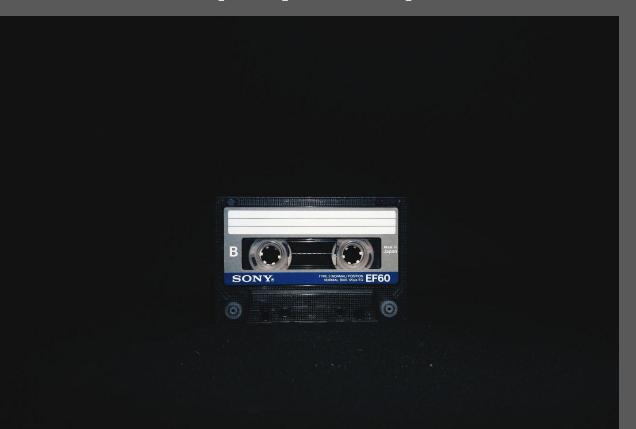
*Discount is applied to the full price only. If an item is already marked down, the lowest price will be honored. Excludes Artist Shops and gift certificates. Code expires in 7 days

I picked up my phone, skimmed and clicked a link from this random contact.

I know, I live dangerously!



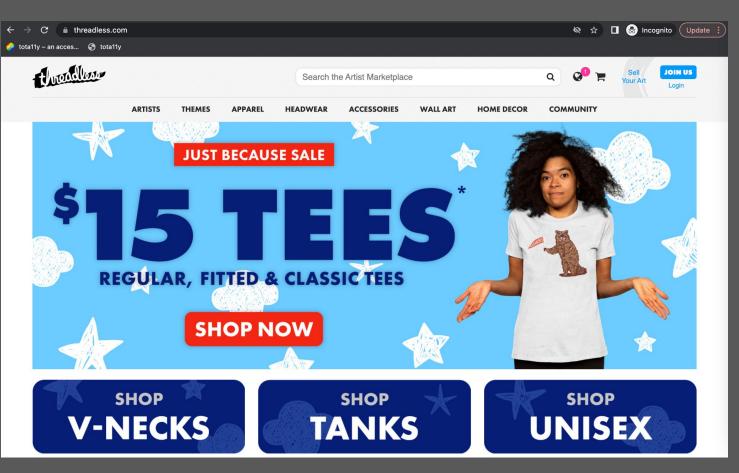
No more "Spin To Win"

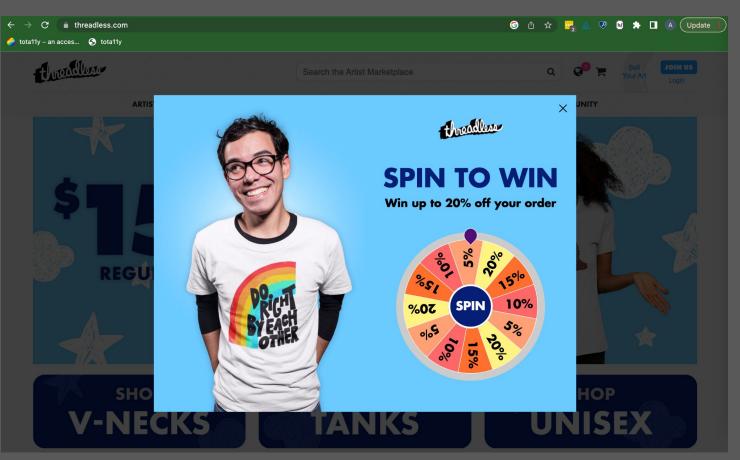


Rewind!

Let's go through that flow again, but as a user that only uses keyboard navigation.

Photo by Sai Harish on Unsplash





~ 3 Second Delay Pops into Page



~ Keyboard Trap ... in a good way :)

ESC key to dismiss

Modals / Pop-Ups / Pop-Ins Keyboard Trap and Previous Focus

- Excellent code examples from Steve Woodson, Bounteous.
- https://a11y-solutions.stevenwoodson.com/solutions/focus/modals/



Modals / Pop-Ups / Pop-Ins Keyboard Trap and Previous Focus

Excellent code examples also available from Deque.

https://dequeuniversity.com/library/aria/simple-alert-dialog



Rewind!

Let's go through that flow again, but as a user that uses a screen reader VoiceOver on a Mac.

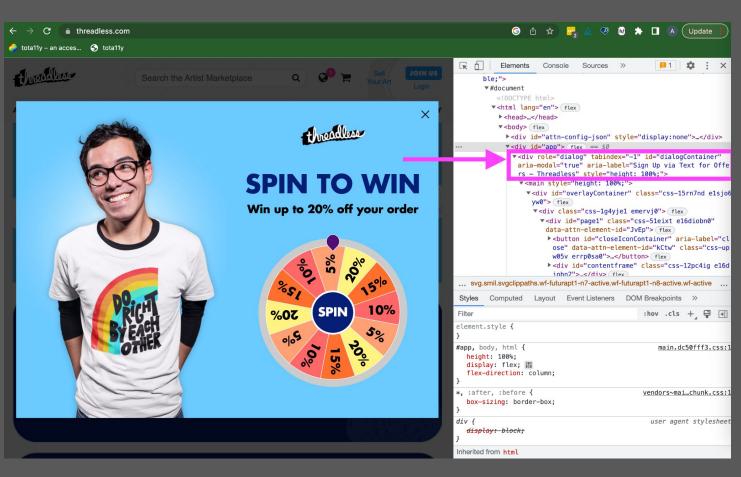
Photo by Sai Harish on Unsplash

Modals / Pop-Ups / Pop-Ins Safari and VoiceOver ProTips

VoiceOver shortcuts reference

https://dequeuniversity.com/screenreaders/voiceover-keyboard-shortcuts

	Advanced								
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Using aria-modal and aria-label

Modals / Pop-Ups / Pop-Ins Modal Dialog Example

Excellent code examples from ARIA Authoring Practices Guide (APG)

https://www.w3.org/WAI/ARIA/apg/patterns/dialog-modal/examples/dialog/





Work together with:

- Marketing
- Analytics
- Real Users (I know, right?)

Modified Photo by Ian Schneider on Unsplash

What are the choices in the Drupal Admin?

- Select Time to Pop. 5 seconds default, but can be customized.
- Cookies vs. Local Storage.
- Salesforce Forms vs Coupon Generators (or both!).
- Display by URL path. Wildcards allowed.
- Special URLs from Newsletters or Email Marketing. *Regex FTW!*
- Select locale.
- Hide on mobile viewports.



Appears that "Spin To Win" is for desktop only.

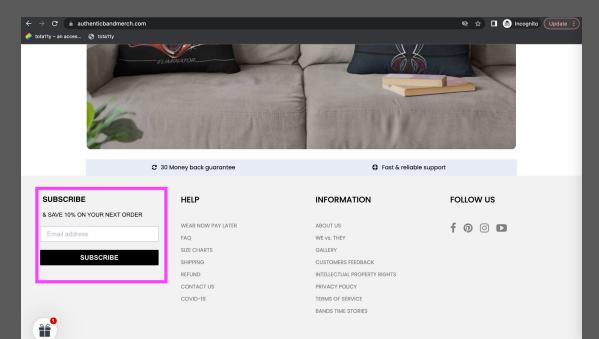
Or, someone has profiled, personalized, and tracked me so well that they knew I already have a discount code and I am visiting separately on my phone. And I love cats. And I love the movie 2001: A Space Odyssey ... this is fine, right?



https://twitter.com/formattedscreen/status/689658075817476096

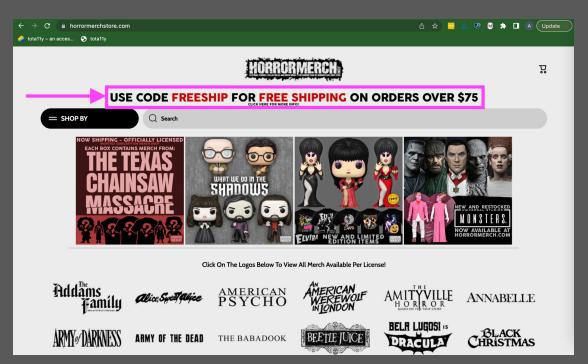
Alternatives

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Newsletter signup in the footer with incentive to sign up.

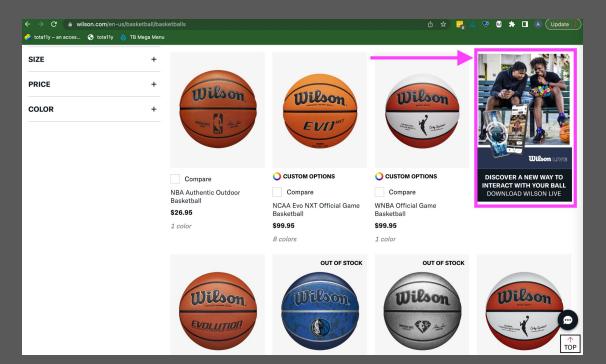
Alternatives



Consistent graphic at the top of the home page.

... but please use alt text for the image!!

Alternatives



Advertise in context of the shopping experience.

Co-Maintainer for TB Mega Menu on Drupal

https://www.drupal.org/project/tb_megamenu

Keyboard Navigation Support

https://www.drupal.org/docs/contributed-modules/the-better-mega-menu/acc essibility-features/keyboard-navigation

Live Demo of TB Mega Menu!! <u>https://www.hollyhunt.com/</u>

https://twitter.com/andrewozone/status/1472420769888186368

https://nypost.com/2021/12/15/jorts-the-ginger-cat-sparks-debate-about-perpetuating-ethic-stereotypes/



Read About Olivero's Menu (it's amazing!!) The Accessibility And Usability Journey Of Drupal's Primary Navigation By Mike Herchel

https://www.smashingmagazine.com/2022/09/accessibility-usabilit y-drupal-primary-navigation/

Watch the DrupalCon 2022 Session

Building Olivero's hyper accessible and beautiful navigation from the ground up DrupalCon Portland

https://youtu.be/dn-JN2bcw1s

Navigation Menubar Example

https://www.w3.org/WAI/ARIA/apg/patterns/menubar/examples/ menubar-navigation/

Disclosure Navigation Menu Example

https://www.w3.org/WAI/ARIA/apg/patterns/disclosure/examples/ disclosure-navigation-hybrid/

Reference: https://adrianroselli.com/2019/06/link-disclosure-widget-navigation.html

TypeAhead / Autocomplete

Oh dear, we ran out of time.

Check out these resources in the meantime ...



https://www.drupal.org/docs/drupal-apis/javascript-api/accessibility-to ols-for-javascript-in-drupal-8#aria-live

Excellent examples in this Florida DrupalCamp Session: **The 10 Most Useful Libraries in Drupal 10 Core** Presented by Andy Blum, Lullabot

https://www.fldrupal.camp/session/10-most-useful-libraries-drupal-10-core

JavaScript and Accessibility: Don't Blame the Language Presented by Everett Zufelt <u>https://events.drupal.org/nashville2018/sessions/javascript-and-acces</u> <u>sibility-dont-blame-language</u>

TypeAhead Aria Live

Excellent code examples from Steve Woodson, Bounteous.

https://a11y-solutions.stevenwoodson.com/solutions/aria/live/



Article by Jules Khong https://thinkshout.com/blog/2020/11/screen-readers/



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Thank You!

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