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Hidde de Vries • 12.09.2019 • Inclusive Design Meetup, Ghent





Web Accessibility Initiative WAI



Home / Standards/Guidelines / Authoring Tools – ATAG / At a Glance



Standards Overview

Web Content – WCAG

Authoring Tools – ATAG

At a Glance

User Agents – UAAG

WAI-ARIA

Evaluation – ACT & EARL

Personalization

Standards Harmonization is Essential

W3C Process for Developing

ATAG at a Glance

Summary

This page provides a paraphrased summary of Authoring Tool Accessibility Guidelines (ATAG) 2.0. For the normative technical specification, see www.w3.org/TR/ATAG20.

To learn about ATAG 2.0, please see the ATAG Overview.

Part A: Make the authoring tool user interface accessible

<u>A1</u> The authoring tool user interface follows applicable accessibility guidelines

- Ensure that web-based functionality is accessible
- Ensure that non-web-based functionality is accessible

<u>A2 Editing-views</u> are perceivable

• Make alternative content available to authors

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ор	Test & Evaluate				Teach & Advocate						Standards/Guidelines							





Expose-flames







braille bars

screen magnifiers







screenreaders



When you send markup to the browser, it generates two trees

(amongst others)

DOM tree



Accessibility tree

Roles, names, properties.

L i	+
----------------	---

Inspector

☆ Accessibility ≫

6

	,
Turn Off Accessibility Features	
Role	Name
	(@mozilla)"
statictex	t: ""
▼list:	
▼ listite	em: "Twitter (@mozilla)"
<pre> link </pre>	: "Twitter (@mozilla)"
text le	eaf: " "
listite	em: "Instagram (@mozilla)"
text le	af:""
<pre>▼section:</pre>	
heading:	"Firefox"
Properties	
name: "Twitter (@mozilla)"	
role: "link"	
actions: []	
value: "https://twitter.com/mozilla	п
DOMNode: a.twitter 中	
description: ""	
keyboardShortcut: ""	
childCount: 2	
indexInParent: 0	
states: []	
attributes: {}	



The accessibility tree is how your page gets exposed to assistive tech



Accessibility tree

	spector	ີ 🕆 Acce	essibility	»	6	ם כ				
Turn Off Accessibility Features										
Role		Name								
				(@mozilla	1)"					
		static	text:							
		▼list:								
		▼lis [.]	titem:	"Twitter	(@mozilla)					
		▶ 1	ink:	"Twitter	(@mozilla)	"				
		tex	t leaf:	n n						
		▶ lis	titem:	"Instagra	am (@mozill	.a)"				
		tex	t leaf:	n n						
	▼ secti	.on:								
	▶ hea	ading:		"Firefox"	I					
operties										
name: "Twitter (@mozilla)"										
role: "link"										
▶ actions: []										
value: "https://twitter.com/mozilla"										
DOMNode: a.twitter 🏳										
description: ""										
keyboardShortcut: ""										
childCount: 2										
indexInParent: 0										
▶ states: []										
▶ attributes: {}										

Your markup

DOM tree













Let's look at naming





Alice Alice Alice Alice



Leverage agile frameworks to provide a robust synopsis for high level overviews.

READ MORE

Iterative approaches to corporate strategy foster collaborative thinking to further the overall value proposition.

READ MORE

Organically grow the holistic world view of disruptive innovation via workplace diversity.

READ MORE

At the end of the day, going forward, a new normal that has evolved from generation X is on the runway

READ MORE



names a link



Accessible Name and Description Computation 1.1 - https://www.w3.org/TR/accname-1.1/



"24.4% of pages had links with ambiguous link text, such as 'click here', 'more', 'continue', etc". – WebAIM, The WebAIM Million





Use unique link text that makes sense out of context





names a form field <label>





"59% of form inputs were not properly labeled.".

The WebAIM Million · https://webaim.org/projects/million/





Name: Address: City:

<div>Name</div> <input type="text" id="name" />

Personal details



Name: Address: City:



Personal details

<caption> VS



labels a table <caption> vs <legend>

labels a group of form fields



210,000 4,532 23,003 50,500

Financial results 2018 Fixed assets Current Assets Creditors **Capital and reserves**

<caption>Financial results 2018</caption> (...)



Name: Address: City:

<form> <fieldset> <legend>Personal details</legend> (...) </fieldset> </form>

Personal details





<a> VS

<

does





90es somewhere <a>>

VS

<

If your href is empty, consider <button>



S

<button type="button">Save</button>

Save

S

<button type="button">Save</button>

Save

Included for FREE:

- * can tab to it
- * works with keyboard (ENTER)
- * is announced as 'button'
- * gets the correct cursor





When in doubt, consult the spec

developers.whatwg.org



Search. Press 🖉

HTML: The Living Standard

Developer's Edition — Last Updated 18 September 2017

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Provide structure



Give pages unique <title>s

[The <title>] is still the first guarantee or first confirmation that you've ended up on the page that you intended to reach.



- Léonie Watson, accessibility expert and screenreader user
Headings are like your table of contents for assistive tech



https://hiddedevries.nl/en/blog/2018-09-01-heading-structures-are-tables-of-contents



PEDIA	Assistive technology
Encyclopedia	From Wikipedia, the free encyclopedia (Redirected from Assistive technologies)
•	Assistive technology is an umbrella term that includes
content	with disabilities while also including the process used in
vents	disabilities often have difficulty performing activities of o
	ADLs are self-care activities that include toileting, mobil
Wikipedia store	Ass' tec
1	1: Assistive technology
ipedia	inte 2: Contents
y portal	fee 🗘 2: Adaptive Technology [edit]
anges	^{pot} 2: Mobility impairments [edit]
age	WIT
	3: Wheelchairs [edit]
here	3: Transfer devices [edit]
nanges	3: Walkers [edit]
•	
iges it link	3: Prosthesis [edit]
mation	2: Visual impairments [edit]
tem	3: Screen readers [edit]
age	³ 3: Braille and braille embosser
rt	3: Refreshable braille display
ook	
as PDF version	3: Desktop video magnifier [e
76151011	3: Screen magnification softw
ojects	3: Large-print and tactile keyb
L Commons	
s 🌣	4 Personal emergency response systems
	5 Accessibility software

tes assistive, adaptive, and rehabilitative devices for people in selecting, locating, and using them. People who have f daily living (ADLs) independently, or even with assistance. bility (ambulation), eating, bathing, dressing and grooming.

Headings



aring aid

t] t]

ers [edit] / [edit] [edit] ware [edit] /boards [edit]

"reduce inst

Have a sensible HTML structure Trick: turn off the CSS



Specify language



<html lang="en">

Los Pollos Hermanos, where something delicious is always cooking.

<html lang="en">... Los Pollos Hermanos, ...</html>



where something delicious is always cooking.



Linking to translations with hreflang

<h2>Other languages</h2> <a href="/zh-TW" href



Chinese



Linking to translations with hreflang (2)

<h2>Other languages</h2> 中文

Text alternatives







The web is mostly text

selectable

The web is mostly text

enlargeable

screenreaderready



copy-pasteable

Google Translate-able



Text lets us have a lot of accessibility **automatically**



Make sure there's text or (useful) text alternatives









can ask Chrome to get automatic image menu! #a11y #CSUNATC19

10:35 AM - 14 Mar 2019

Coming later this year: Screen reader users descriptions from Google when an image is missing alt text. Get a sneak preview now using Chrome Canary, just open the context

Follow

 \sim

Front-End Performance: The Dark Side by Mathias Bynens

Transcripts with <audio> and <video>

Subtitles with video (<track> ftw)



Fronteers Spring Conference in Amsterdam

Watch high quality video on Vimeo

Download audio (MP3, 23MB)

https://fronteers.nl/congres/2016-spring/sessions/front-end-performance-the-dark-side-by-mathias-bynens

Test with a Key Doard

<select>

<textarea>

The interactive elements







<input>

<a>

People who don't use a mouse, use focus styles to see where they are

Leverage agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate strategy foster **collaborative thinking** to further the overall value proposition. Organically grow the holistic world view of disruptive innovation via workplace diversity and empowerment.



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Bring to the table win-win survival strategies to ensure proactive domination. At the end of the day, going forward, a new normal that has evolved from **generation X** is on the runway heading towards a streamlined cloud solution. User generated content in real-time will have multiple touchpoints for offshoring.



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Ghdv



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YOU WOULDN'T STEAL THEIR CURSOR

. .

Laura Carvajal @lc512k





Try if you can get to all your links, buttons and forms with a keyboard









Text alternatives



Thanks for listening!

Contact hidde@w3.org Twitter @hdv **Slides on Notist** https://talks.hiddedevries.nl