

Blackboard

First steps for finding obvious accessibility problems

The U.S. Office for Civil Rights has set WCAG 2.0 AA as the standard for measuring web accessibility. WCAG 2.0 is an international standard published by the W3C. You can learn to test for the most obvious WCAG 2.0 accessibility problems using free automated tools.

Three levels of WCAG 2.0 accessibility testing

WCAG 2.0 accessibility testing is a three-level process:

LEVEL	TYPE OF WCAG TEST	DESCRIPTION
1	Automated Basic	Automated testing for basic accessibility errors. See instructions below.
2	Manual Intermediate	Manual testing for intermediate errors. Requires formal accessibility training.
3	Manual Advanced	Manual testing for advanced errors. Requires additional formal accessibility training as well as analytical reasoning and experience.

Level 1 testing steps

1. Use WAVE to run basic accessibility testing

- a. Open a web browser. Examples: Chrome, Firefox, IE or Safari.
- b. Type wave.webaim.org in the browser address bar and press enter.



c. Enter the URL of the web page you want to test in the form field on this page. For example, if you want to test a page with many accessibility errors, you could enter https://www.w3.org/WAI/demos/bad/before/home.html



d. Run the WAVE evaluation tool by pressing the arrow button.



e. **Review the WAVE results.** WAVE returns a copy of the page with icons added to show accessibility errors, features, and alerts. On the left side of the screen you will see a summary of the results. The first item in the summary will be your total number of errors. In the example below, 38 errors were found.

	wave.webaim.org	004			
WAVE web accessibility evaluation tool	The following apply to the entire page.				
Impor/levew.vd.org/WAldomos/bad/bel/()	Web Accessibility initiative www.bace Before and After Demonstration mproving a Web site using Web Content Accessibility Guidelines (WCAG) 2.0	essibility initiative (WAI) logo*			
O HTMLS and ARIA Z Contrast Errors	Overview Home News Tickets Survey Template				
Perel Options Port Anigo at the WWV Som in your page. Optional Anigo at the WWV Som in your page. Optional Anigo at the WWV Som an two page Optional Anigo at the WWV Som and the WWV Som an two page Optional Anigo at the WWV Som an two page Optional Anigo at the WWV Som an two page Optional Anigo at the WWV Som an two page Optional Anigo at the WWV Som an two page Som an two page Optional Anigo at the WWV Som an two page Optional Anigo at the WWV Som an two page Optional Anigo at the WWV Som an two page Optional Anigo at the WWV Som an two page Optional Anigo at the WWV Som an two page Optional Anigo at the WWV Som an two page Optional Anigo at the WWV Som an two page Optional Anigo at the WWV Som an two page Som at the WWV Som at the WVV Som a					
Eesiliask Powered by YeshAlM	well as the sur. This logo is followed by a black banner that say: CUTYLLIFTS which is the name of the online portal. Finally, the blogan of the portal, your access to the city's portal. Finally, the prese handwring sight and while staffs that access the top banner. We will be the sur. This logo is followed by a black banner that say: CUTYLLIFTS which is the name of the online portal. Really, there CUTYLLIFTS which is the name of the online portal. Really, there CUTYLLIFTS which is the name of the online portal. Really accesses	2 2 -			

Summary breakdown

ICON COLOR	MEANING	ACTION	
Red (Error)	Accessibility error.	Learn more about this error and try to fix the problem.	
Green (Feature)	Positive. Accessibility feature done right!	No action required.	
Yellow (Alert)	Alert. Potential accessibility error. Requires manual testing	For now, skip these icons. To test accurately, you will need to have taken accessibility training.	
Blue (Structural) or Purple (HTML5, ARIA) Purple (HTML5, ARIA)	Neutral. Technical information about how this web page was built.	For now, skip these icons. No testing required.	

For more information on how to use WAVE see **WAVE Help**.

2. Identify basic accessibility errors

Should any errors in WAVE be found, then the page does not meet WCAG 2.0 AA standards. Each issue found will require immediate resolution.

3. Understand and fix basic accessibility errors

Learn more about each error and how to fix it by doing the following:

1. **Error**—Locate the red error icons that have been added to the page you are testing. Click on an icon to see a brief description of that particular error.



- 2. **Details**—Click on the "More Information" link to see documentation including:
 - i. What it means
 - ii. Why it matters
 - iii. How to fix it

		wave.webaim.org			
WAVE web accessibility evaluation tool			The foll	owing apply to the entire page:	
bttps://www.wd.org/WAUdemos/bad/betr@ Styles No Styles Contrast Documentation Massing alternative text What It Mans Why It Matters Why It Matters Why It Matters Styles or usen at attribute. Styles or usen at attribute. Styles of the style of	Difference and Before and Improving a Web site usin Overview Home	e Page After Demor ng Web Content Accessibili News Tickets	w3C nstration y Guidelines (WCAG) 2.0 Survey Template	Web Acc	essibility initiative / Web Accessibility
 unavailable. How to Fix It Adda and attribute to be lamage. The attribute value should accurately and succircly present the content and the structure of the image. If the image does not convey content of the arrange does not convey content of the arrange. If the image does not convey content of the arrange does not convey content of the arrange does not convey content of the arrange. If the image does not convey content of the arrange does not convey content does does does does does does does does		Ible: + Home Page 4 ising alternative text age alternative text is age alternative text is age alternative text is age alternative text CITYLIGHT Field dot with a while letter is the sum. This loop is fo TYLIGHTS: which is the na age of the portal, your acco hardwise letter is a the sum. State is the na age of the portal, your acco	Benot Show Ann a. marker S Jour Access r 'C' Inter symbolizes a m re of this online portal. F ses to the city', follows in to a sight stand across th	we totations	

- 3. **Fix**—Use what you learned in the Documentation sidebar to repair the error.
- 4. Need help—For additional help on fixing an error, check out these free resources:

i. Blackboard accessibility

- ii. WebAim—a trusted, practical and free resource for learning more about web accessibility.
 - a. Search the WebAim site webaim.org
 - b. Read WebAim articles webaim.org/articles/
 - c. Ask questions on the WebAim Mailing List webaim.org/community/

4. Accomplishing zero errors

When you see "0 errors" in the WAVE summary you have successfully eliminated all basic accessibility barriers and completed Accessibility Level 1.

FAQs

1. When I tried to run the WAVE tool, I got a "Forbidden" error. What should I do?

This error happens on occasions. Refresh and press the submit button again.

2. Is the page fully accessible if WAVE reports "0 Errors"?

Testing for accessibility is a 3 level process. You have completed Level 1. For more information about Level 2 and 3 see the Three Levels of WCAG 2.0 Accessibility Testing section of this document section of this document located on page one.

3. What are WAVE alerts? Do I need to worry about them?

WAVE alerts are items that require manual testing and additional knowledge of web accessibility. If you are new to web accessibility, we recommend formal training and/or hiring an accessibility expert to do Level 2 and 3 testing.

- What do I do next? How can I learn more about web accessibility?
 Find out more about web accessibility by going to <u>Blackboard Accessibility</u> resources.
- 5. I have Chrome and can install browser extensions. What other free web accessibility testing tools are available?
 - aXe: the Accessibility Engine: Get the aXe Chrome Extension for free.
 - WAVE Chrome Extension: Get the WAVE Chrome Extension for free.

Blackboard.com

Copyright © 2017. Blackboard Inc. All rights reserved. Blackboard, the Blackboard logo, Blackboard Web Community Manager, Blackboard Mobile Communications App, Blackboard Mass Notifications, Blackboard Social Media Manager, Blackboard Collaborate are trademarks or registered trademarks of Blackboard Inc. or its subsidiaries in the United States and/or other countries. Blackboard products and services may be covered by one or more of the following U.S. Patents: 8,265,968, 7,493,396; 7,558,853; 6,816,878; 8,150,925