

Accessibility for Everyone

Beth Tucker Long



Beth Tucker Long

- PHP Developer
- Stay-at-home Mom
- User Group Leader
- OSMI volunteer



WHAT'S ACCESSIBILITY?

What's Accessibility?

The measure of a web page's usability by persons with one or more disabilities.

--Usability.gov

<https://www.usability.gov/what-and-why/glossary/accessibility.html>

What's Accessibility?

- Improving your usability
 - Following government mandates
 - Improve customer satisfaction
 - Increase customer diversity
 - Be fair
-
- Widening your audience

How much bigger?

The United Nations estimates:

- 10% of the world's population has a disability

<http://www.un.org/en/sections/issues-depth/persons-disabilities/index.html>

All Age Issue

Regardless of age, disabled Americans are adopting tech at lower rates

% of U.S. adults who say they have ...

| | Ages 65+ | | | Ages 18-64 | | |
|--------------------------------|----------------|---------------|------------|----------------|---------------|------------|
| | Any disability | No disability | Diff | Any disability | No disability | Diff |
| Desktop/laptop computer | 50 | 66 | -16 | 67 | 84 | -17 |
| Smartphone | 32 | 45 | -13 | 70 | 87 | -17 |
| Home broadband | 36 | 57 | -21 | 66 | 80 | -14 |
| Tablet | 21 | 36 | -15 | 44 | 57 | -13 |

Source: Survey conducted Sept. 29-Nov. 6, 2016.

PEW RESEARCH CENTER

<http://www.pewresearch.org/fact-tank/2017/04/07/disabled-americans-are-less-likely-to-use-technology/>

Main Areas of Difficulty

- Vision
- Mobility
- Hearing

Vision

- Colorblindness

<http://www.colourblindawareness.org/colour-blindness/>

Vision

- Vision Impairment

<http://www.who.int/news-room/fact-sheets/detail/blindness-and-visual-impairment>

Mobility

- Movement

https://ftp.cdc.gov/pub/Health_Statistics/NCHS/NHIS/SHS/2016_SHS_Table_A-10.pdf

Hearing

- Hearing Trouble

<https://www.cdc.gov/nchs/fastats/disability.htm>

Need More to Sell This?

- It's not just for people with disabilities.
- <http://www.pewresearch.org/fact-tank/2017/12/12/nearly-half-of-americans-use-digital-voice-assistants-mostly-on-their-smartphones/>

WHAT CAN WE DO?

Vision - Color

Last Name *

Address Line 2

State *

Country *

Sign Me Up

Last Name *

Address Line 2

State *

Country *

Sign Me Up

Vision

- Here is some text that does not have high enough contrast.

Vision

- Here is some text that does not have high enough contrast.
- High contrast is important.

Vision

- Here is some text that does not have high enough contrast.
- High contrast is important.
- High contrast makes a difference.

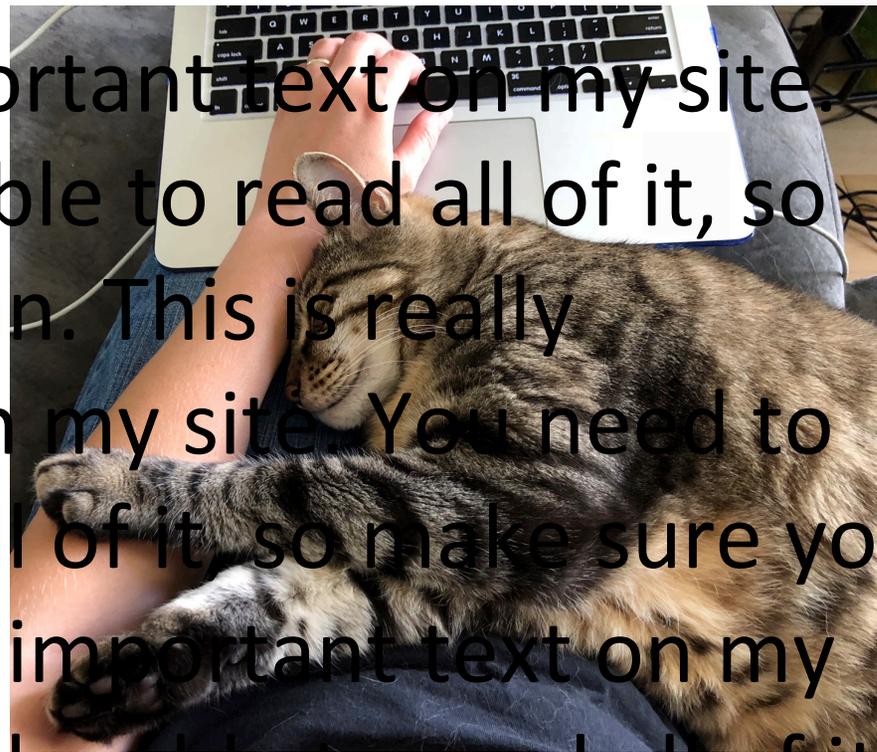
Vision

This is really important text on my site. You need to be able to read all of it, so make sure you can. This is really important text on my site. You need to be able to read all of it, so make sure you can. This is really important text on my site. You need to be able to read all of it, so make sure you can. This is really important text on my site. You need to be able to read all of it, so make sure you can.



Vision

This is really important text on my site. You need to be able to read all of it, so make sure you can. This is really important text on my site. You need to be able to read all of it, so make sure you can. This is really important text on my site. You need to be able to read all of it, so make sure you can. This is really important text on my site. You need to be able to read all of it, so make sure you can.



Vision



Vision

This is the great description of my website. You can click [here](#) to get to some great content or you could click [here](#) to get to our newsletter or you could click [here](#) to send us an email.

Vision

1. Enter your name.
2. Enter your email.
3. Click Continue.
4. Choose an item.
5. Click Select Item.
6. Choose the color.
7. Click Select Color.
8. Enter payment info.

Mobility

Personal Information (see [Privacy Policy](#))

| | | | |
|-------------------------|---|-----------------------|---|
| First Name * | <input type="text" value="Beth"/> | Last Name * | <input type="text" value="Tucker Long"/> |
| Address Line 1 * | <input type="text" value="123 Street Boulevard"/> | Address Line 2 | <input type="text"/> |
| City * | <input type="text" value="That Place"/> | State * | <input type="text" value="Select a State"/> |
| Zip * | <input type="text" value="12345"/> | Country * | <input type="text" value="United States"/> |

[Special Shipping Instructions?](#)

Hearing



TESTING

@e3betht

Vision

- Enlarge your fonts
- Turn down your screen brightness
- Adjust the color saturation on your screen
- Disable your stylesheets

Vision

- Turn your monitor around and use

VoiceOver

<https://help.apple.com/voiceover/info/guide/>

Narrator

<https://support.microsoft.com/en-us/help/17173/windows-10-hear-text-read-aloud>

Simulate Colorblindness

alтреus.github.io says

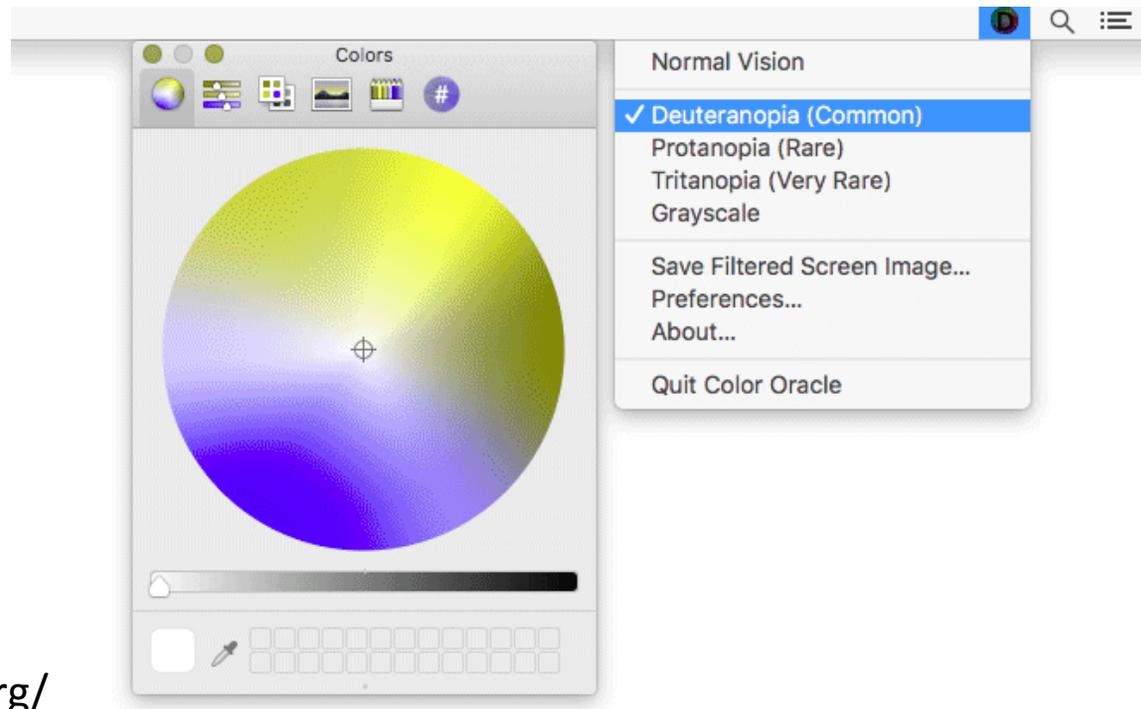
0: off; 1: protanopia; 2: protanomaly; 3: deuteranopia; 4: deuteranomaly; 5: tritanopia; 6: tritanomaly; 7: achromatopsia; 8: achromatomaly;

Cancel OK

Colour Blind

<https://github.com/Altreus/colourblind>

Simulate Colorblindness



Color Oracle
<http://colororacle.org/>

Generate a Color Palette

Background Color

Font-Family

Font-Size (px)

Font-Weight

WCAG Standard ⓘ

Editable Text

The quick brown fox jumps over the lazy dog.

GENERATE COLOR PALETTE

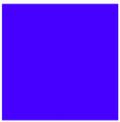
<http://colorsafe.co/>

Color Palette Accessibility Evaluator

Color Palette Accessibility Checker: WCAG 2 Level AA [Switch to WCAG 2 Level AAA](#)

Color Palette

 **Select a color to analyze**

| | | |
|---|---|---|
|  00FF00 |  000000 |  0000FF |
|---|---|---|

[Back to palette creator](#)

Analysis

Small Non-Bold Text (less than 18pt, or approximately 1.5em rendered) for 00FF00

| Color Code | Sample Text | Sample Text (inverted) | Pass or Fail | Ratio (pass>=4.5) |
|------------|-------------|------------------------|--------------|-------------------|
| 000000 | Lorem ipsum | Lorem ipsum | PASS | 15.3 |
| 0000FF | Lorem ipsum | Lorem ipsum | PASS | 6.26 |

Large Non-Bold Text (18pt or greater, or approximately 1.5em rendered) for 00FF00

| Color Code | Sample Text | Sample Text (inverted) | Pass or Fail | Ratio (pass>=3.0) |
|------------|-------------|------------------------|--------------|-------------------|
| 000000 | Lorem ipsum | Lorem ipsum | PASS | 15.3 |
| 0000FF | Lorem ipsum | Lorem ipsum | PASS | 6.26 |

<https://accessibility.oit.ncsu.edu/tools/color-contrast/>

Snook.ca Color Contrast Check

Foreground Colour:

33FF33

Red:

Green:

Blue:

Hue (°):

Saturation (%):

Value (%):

Background Colour:

333333

Red:

Green:

Blue:

Hue (°):

Saturation (%):

Value (%):

Results

**This is example text. Some of it bolded.
Some of it italicized.**

| | |
|---------------------------------|---------|
| Brightness Difference: (>= 125) | 119.747 |
| Colour Difference: (>= 500) | 204 |
| Are colours compliant? | NO |
| Contrast Ratio | 9.321 |
| WCAG 2 AA Compliant | YES |
| WCAG 2 AA Compliant (18pt+) | YES |
| WCAG 2 AAA Compliant | YES |
| WCAG 2 AAA Compliant (18pt+) | YES |

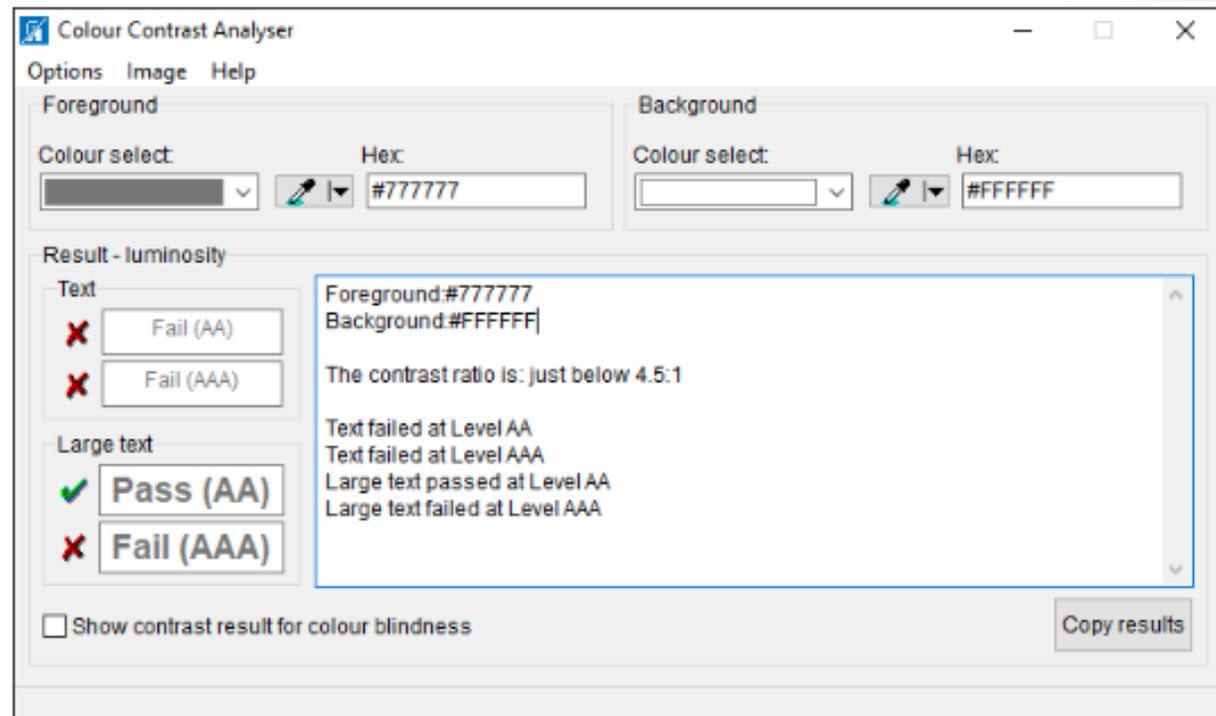
https://snook.ca/technical/colour_contrast/colour.html

WebAIM- Color Contrast Checker

The screenshot shows the WebAIM Color Contrast Checker interface. It features two color selection panels: 'Foreground Color' with a hex code of #0000FF and a lightness slider, and 'Background Color' with a hex code of #FFFFFF and a lightness slider. A green-bordered box displays the 'Contrast Ratio' as 8.59:1, with a 'permalink' link below it. Below the color panels, there are two sections for text contrast: 'Normal Text' and 'Large Text'. Each section shows 'WCAG AA: Pass' and 'WCAG AAA: Pass' next to a sample text box containing the sentence 'The five boxing wizards jump quickly.' in blue font.

<https://webaim.org/resources/contrastchecker/>

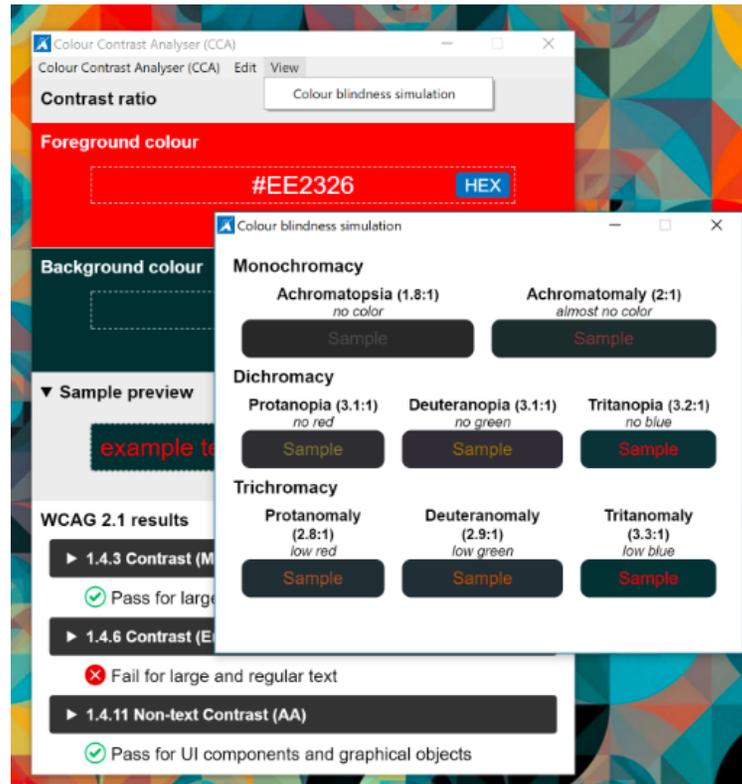
Vision - Colour Contrast Analyser



<https://developer.paciellogroup.com/resources/contrastanalyser/>

Vision

Colour Contrast
Analyser from The
Paciello Group



<https://developer.paciellogroup.com/resources/contrastanalyser/>

Mobility

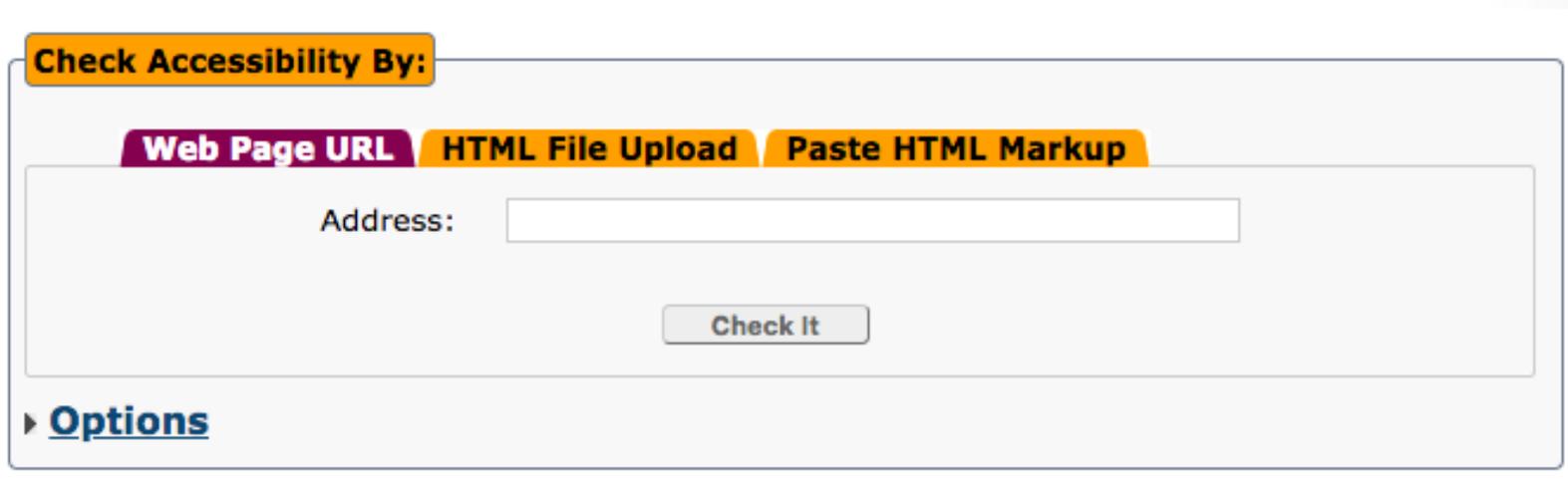
- Disable your mouse/trackpad
- Interact with a touch screen using a stylus you hold with tweezers, chopsticks, or in your mouth
- Use your website one-handed
- Use voice recognition software only to navigate your site

Hearing

- Turn off the sound

Whole Analysis

- AChecker



The screenshot shows the AChecker web accessibility checker interface. At the top, there is a section titled "Check Accessibility By:" with three tabs: "Web Page URL" (selected), "HTML File Upload", and "Paste HTML Markup". Below the tabs is a form with the label "Address:" followed by a text input field. A "Check It" button is positioned below the input field. At the bottom left of the form, there is a link labeled "Options" with a right-pointing arrow.

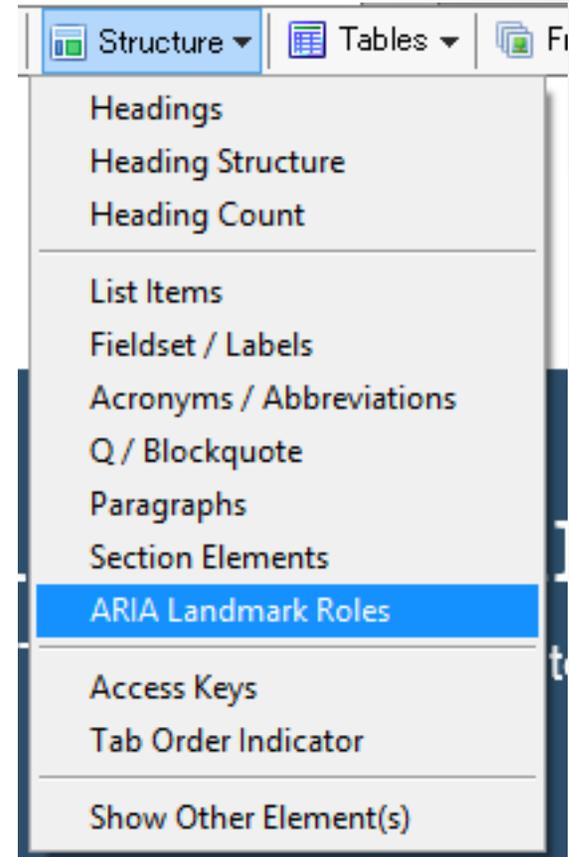
<https://achecker.ca/checker/index.php>

Whole Analysis

- Web Accessibility Toolbar

The Paciello Group

<https://developer.paciellogroup.com/resources/wat/>



Whole Analysis

- WAVE API
<http://wave.webaim.org/api/>

Dinolytics front-end for WAVE
<https://dinolytics.com/>

WAVE Runner
<http://wave.webaim.org/waverunner>

Whole Analysis

WAVE Browser Extension - <http://wave.webaim.org/extension/>

The screenshot displays the WAVE web accessibility evaluation tool interface. On the left, a sidebar contains the WAVE logo and navigation options: 'Styles', 'No Styles', and 'Contrast'. Below this is a 'Summary' section with a red arrow icon, indicating detected issues: 2 Errors, 4 Alerts, 3 Features, 3 Structural Elements, 53 HTML5 and ARIA, and 1 Contrast Error. Under 'Panel Options', there are links for 'DETAILS', 'DOCUMENTATION', and 'OUTLINE'. The main content area shows a Google search page with various accessibility annotations. A yellow icon at the top indicates that the following apply to the entire page. Annotations include: 'alt="Google"', '*aria-autocomplete="both", aria-haspopup="false", aria-label="Search"', '*aria-label="Google Search"', 'I'm Feeling Lucky', '*aria-label="I'm Feeling Lucky"', and '*aria-controls="fsett"'. The footer includes 'Advertising Business', 'Privacy Terms Settings', and 'Feedback | Powered by WebAIM'.

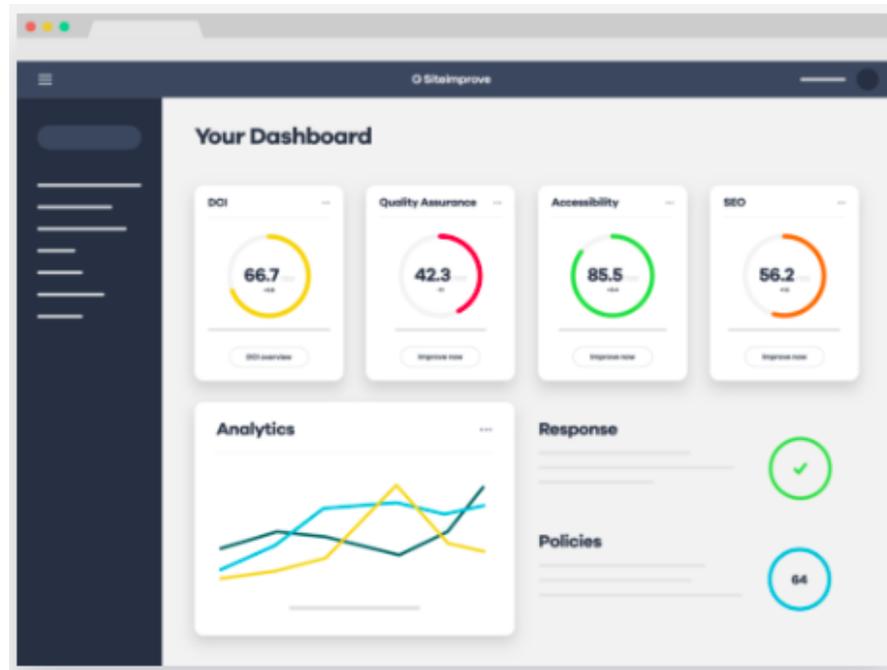
Whole Analysis

aXe Browser Extension - <https://www.deque.com/axe/>

The screenshot displays the aXe browser extension interface. On the left, a sidebar shows a list of issues found: 'All issues found 77', 'Elements must have sufficient color contrast 74', 'Heading levels should only increase by one 1', 'Content should be contained in a landmark region 1', and 'Elements should not have tabindex greater than zero 1'. The main panel shows the details for the 'Elements must have sufficient color contrast' issue. The issue description states: 'Ensures the contrast between foreground and background colors meets WCAG 2 AA contrast ratio thresholds'. The impact is 'serious'. The element location is 'button[data-disable-with="Creating\ file.."]'. The element source is '<button class="btn btn-sm BtnGroup-item" type="submit" data-disable-with="Creating file.."> Create new file </button>'. Below this, there is a section 'We are not sure this is an issue, because:' with the reason 'Element's background color could not be determined due to a background gradient'. There is a 'Related node:' section with an 'Inspect' link. At the bottom, there are radio buttons for 'This is an issue' (selected) and 'This is not an issue', and a text input field for 'Provide an issue description:'. The issue tags are 'category: color wcag2aa wcag143'.

Whole Analysis

SiteImprove- <https://siteimprove.com/>



Automate Tests

- Unit Tests
- Integration Tests

Writing Automated Tests for Accessibility

<https://www.deque.com/blog/writing-automated-tests-accessibility/>

Diverse Testers

Standard Usability Tests

<https://www.usability.gov/how-to-and-tools/methods/usability-evaluation/index.html>

Live Accessibility Testing

- Accessible360
<https://accessible360.com/>
- Perkins Access
<https://www.perkins.org/access>
- AccessWorks
<https://access-works.com/>

Lots More Tools

Web Accessibility Evaluation Tools List
<https://www.w3.org/WAI/ER/tools/>

18F Accessibility Guide – Resources
<https://accessibility.18f.gov/>

18F Accessibility Guide – Tools
<https://accessibility.18f.gov/tools/>

GAAD

The purpose of GAAD is to get everyone talking, thinking and learning about digital (web, software, mobile, etc.) access/inclusion and people with different disabilities.

<http://www.globalaccessibilityawarenessday.org/>

- Home
- Meet Our Customers
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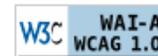
Web Design to Bring your Business to the Top

At Treeline Design, LLC, we will build you a dynamic website or custom web application to fit your business needs. We program in HTML, PHP, and MySQL/SOL, as well as create custom graphics to make your site stand out. It is our goal to maximize your efficiency while keeping your costs down. Let your website do the work!

How We Work

We will get to know you, your business, and your customers. We will sit down with you and talk through your vision, your goals, and your budget for the project. Then, we will come up with a plan to get you where you need to be and discuss each step of that plan with you. Our goal is not to just work for you, but to work with you. After completing the work, we will make sure that you are not only happy with the solution, but feel comfortable using it. We will always make sure that you receive a high-quality product that fits your business needs and personality.

Our site upholds the following standards:





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TREELINE DESIGN
CUSTOM WEBSITE DESIGN AND PROGRAMMING

Web Design to Bring your

#006d05

At TreeLine Design, LLC, we will build a website to fit your business needs. We program and create custom graphics to make your website efficient while keeping your costs low.

How We Work

We will get to know you, your business, and your customers. We will sit down with you to discuss your vision, your goals, and your budget. Then, we will come up with a plan to meet your needs and discuss each step of the process. Our goal is not to just work for you, but to help you. After completing the work, we will make sure you are not only happy with the solution, but also comfortable using it. We will always strive to receive a high-quality product that fits your needs and personality.

Contrast ratio 6.6:1

Foreground colour

#006D05 HEX

Background colour (white)

#FFFFFF HEX

▼ **Sample preview**

example text showing contrast 

WCAG 2.1 results

- ▶ **1.4.3 Contrast (Minimum) (AA)**
 - ✔ Pass for large and regular text
- ▶ **1.4.6 Contrast (Enhanced) (AAA)**
 - ✔ Pass for large text only ❌ Fail for regular text
- ▶ **1.4.11 Non-text Contrast (AA)**
 - ✔ Pass for UI components and graphical objects

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How We Work

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Colour blindness simulation

Monochromacy

Achromatopsia (8.3:1)
no color

Sample

Achromatomaly (8:1)
almost no color

Sample

Dichromacy

Protanopia (6.6:1)
no red

Sample

Deuteranopia (6.6:1)
no green

Sample

Tritanopia (6.6:1)
no blue

Sample

Trichromacy

Protanomaly (6.9:1)
low red

Sample

Deuteranomaly (7:1)
low green

Sample

Tritanomaly (6.7:1)
low blue

Sample

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Our site upholds the following standards:



- W3C WAI-A WCAG 1.0
- W3C CSS
- W3C XHTML 1.0

Protanopia

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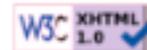
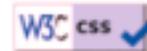
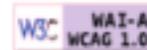
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Our site upholds the following standards:



Deutanopia

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Our site upholds the following standards:

- W3C WAI-A WCAG 1.0
- W3C CSS ✓
- W3C XHTML 1.0 ✓

Tritanopia

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W3C

WAI-A
WCAG 1.0

W3C

CSS ✓

W3C

XHTML
1.0 ✓

Achromatopsia

Page must have one main landmark

Issue description: Ensures the page has only one main landmark and each iframe in the page has at most one main landmark. Impact: moderate. Learn more

Element location: html

Element source: <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">

To solve this violation, you need to: Fix the following: Page does not have a main landmark

Elements Console Sources Network Performance Memory Application Security Audits Adk

Elements must have sufficient color contrast ⓘ

All issues found 18 ▾ [Run again](#)

| | |
|---|-----------|
| Page must have one main landmark | 1 |
| All page content must be contained by landmarks | 1 |
| Elements must have sufficient color contrast | 16 |

Elements must have sufficient color contrast
[Inspect Node](#) [Highlight](#)

Element source

```
<div id="header">Treeline Design</div>
```

We are not sure this is an issue, because:

Element's background color could not be determined due to a background image

Related node:
[Inspect](#)

```
#container4
```

This is an issue This is not an issue

[SAVE](#)

Issue tags: category: color wcag2aa wcag143

Summary

WAVE has detected the following:

- 0 Errors
- 0 Alerts
- 7 Features
- 3 Structural Elements
- 0 HTML5 and ARIA
- 5 Contrast Errors

Panel Options

- DETAILS: A listing of all the WAVE icons in your page.
- DOCUMENTATION: Explanation of the WAVE icons and how you can make your page more accessible.
- OUTLINE: The heading structure of the web page.



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CUSTOM WEBSITE DESIGN AND PROGRAMMING

- alt *You are here - image: Leaf* Home
- alt *Leaf* Meet Our Customers
- alt *Leaf* Contact Us Today
- alt *Leaf* Reviews

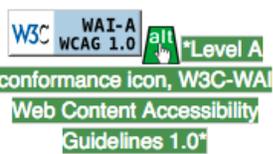
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Our site upholds the following standards:







Our site upholds
following standards

Linked image with alternative text

Alternative text is present for an image that is within a link.

[More Information](#)

 ***Level A**
conformance icon, W3C-WAI
Web Content Accessibility
Guidelines 1.0*

 ***Valid CSS!***

 ***Valid**
XHTML 1.0 Transitional*

Learn More - Design

- Inclusive Design Principles
<https://inclusivedesignprinciples.org/>
- Inclusive Design 24
<https://inclusivedesign24.org/>
- The Paciello Group: cupper
<https://github.com/ThePacielloGroup/cupper>
- Nutrition Cards for Accessible Components
<https://davatron5000.github.io/a11y-nutrition-cards/>

Learn More - Tools

- An Introduction to Screen Readers (Webinar)
<https://accessibility.deque.com/live-webinar-introduction-to-screen-readers>
- Facebook's Alt Tag AI
<https://newsroom.fb.com/news/2016/04/using-artificial-intelligence-to-help-blind-people-see-facebook/>

Status of Platforms

- HTML5 Accessibility
<https://www.html5accessibility.com/>
- HTML5 Implementation Status
<http://stevefaulkner.github.io/html-mapping-tests/>
- Android and iOS Mobile Testing Guide
https://developer.paciellogroup.com/downloads/TPG_Mobile_Testing_Guide.pdf
- Windows Accessibility Options
<https://www.microsoft.com/en-us/accessibility/windows>
Apple Accessibility Options
<https://www.apple.com/accessibility/>

Standards

- Section 508 Guidelines and Resources
<https://www.section508.gov/>
- United States Laws relating to 508 Standards
<https://www.w3.org/WAI/policies/united-states/>
- VFO Standards
<https://github.com/FreedomScientific/VFO-standards-support>
- Web Content Accessibility Guidelines
<https://www.w3.org/WAI/standards-guidelines/wcag/>
- ADA Standards for Accessible Design
https://www.ada.gov/2010ADAstandards_index.htm

Standards Help

- Use Assistive Technology to Comply with Section 508
<https://www.youtube.com/watch?v=4XJcswWmmAw>
- HTML 508 Checklist
<https://www.hhs.gov/web/section-508/making-files-accessible/checklist/html/index.html>

Resources

- Stories of Web Users
<https://www.w3.org/WAI/people-use-web/user-stories/>
- WAI Tools & Techniques
<https://www.w3.org/WAI/people-use-web/tools-techniques/>
- Mythbuster's Guide to Accessibility
<https://medium.com/the-u-s-digital-service/mythbusters-guide-to-accessibility-92ccd88655c6>
- Usability.gov's Accessibility Page
<https://www.usability.gov/accessibility>

Additional Articles

- "Not All Screen Reader Users Are Blind" by Adrian Roselli
<http://adrianroselli.com/2017/02/not-all-screen-reader-users-are-blind.html>
- "The Accessibility of Styled Form Controls & Friends"
https://scottaohara.github.io/a11y_styled_form_controls/
- "Lessons in iOS Voiceover Accessibility"
<https://medium.com/aaptiv-engineering/lessons-in-ios-voiceover-accessibility-834c5ed9a374>
- "The Importance Of Manual Accessibility Testing"
<https://www.smashingmagazine.com/2018/09/importance-manual-accessibility-testing/>
- "Involving Users in Evaluating Web Accessibility"
<https://www.w3.org/WAI/test-evaluate/involving-users/>

More Additional Articles

- "5 accessibility tests you can do in 5 minutes"
<https://openinclusion.com/blog/5-accessibility-tests/>
- "The 6 Simplest Web Accessibility Tests Anyone Can Do"
<http://www.karlgroves.com/2013/09/05/the-6-simplest-web-accessibility-tests-anyone-can-do/>
- "Easy Checks - A First Review of Web Accessibility"
<https://www.w3.org/WAI/test-evaluate/preliminary/>
- "Handling common accessibility problems"
https://developer.mozilla.org/en-US/docs/Learn/Tools_and_testing/Cross_browser_testing/Accessibility

Takeaways

- Accessibility testing doesn't have to be expensive.
- A diverse testing group means better testing.
- Improving accessibility helps everyone.

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