



We are a web development company located in St. Pete Fl. that specializes in web accessibility and custom software for WordPress.

What We Do

We audit, remediate and build WordPress websites for Accessibility compliance

We teach how to get compliant and stay compliant to companies who use WordPress

We give WordPress Accessibility talks across the U.S.

Our story

- We've attended the (NFB) the last few years and we were very moved at how difficult it is for low-vision people to use software
- After that we decided that we needed to make sure all of our sites and software were compliant. (One site at a time!)
- That's when we realized how difficult it was to find any information as a developer on how to be Section 508 compliant.
- We have been trying to get this information out ever since.

Web Accessibility Made Easy For WordPress

By: Joseph LoPreste

Talk outline

1. Some facts and an explanation of Section 508 (WCAG)
2. Our 11 easy steps to help your section 508 compliance
3. Some free developer tools and resources to help you become compliant

A Few facts:

Over 1.3 billion people worldwide have some sort of disability

253 million people worldwide live with a vision impairment.

19 million children worldwide are visually impaired

You will be disabled at some point in your life

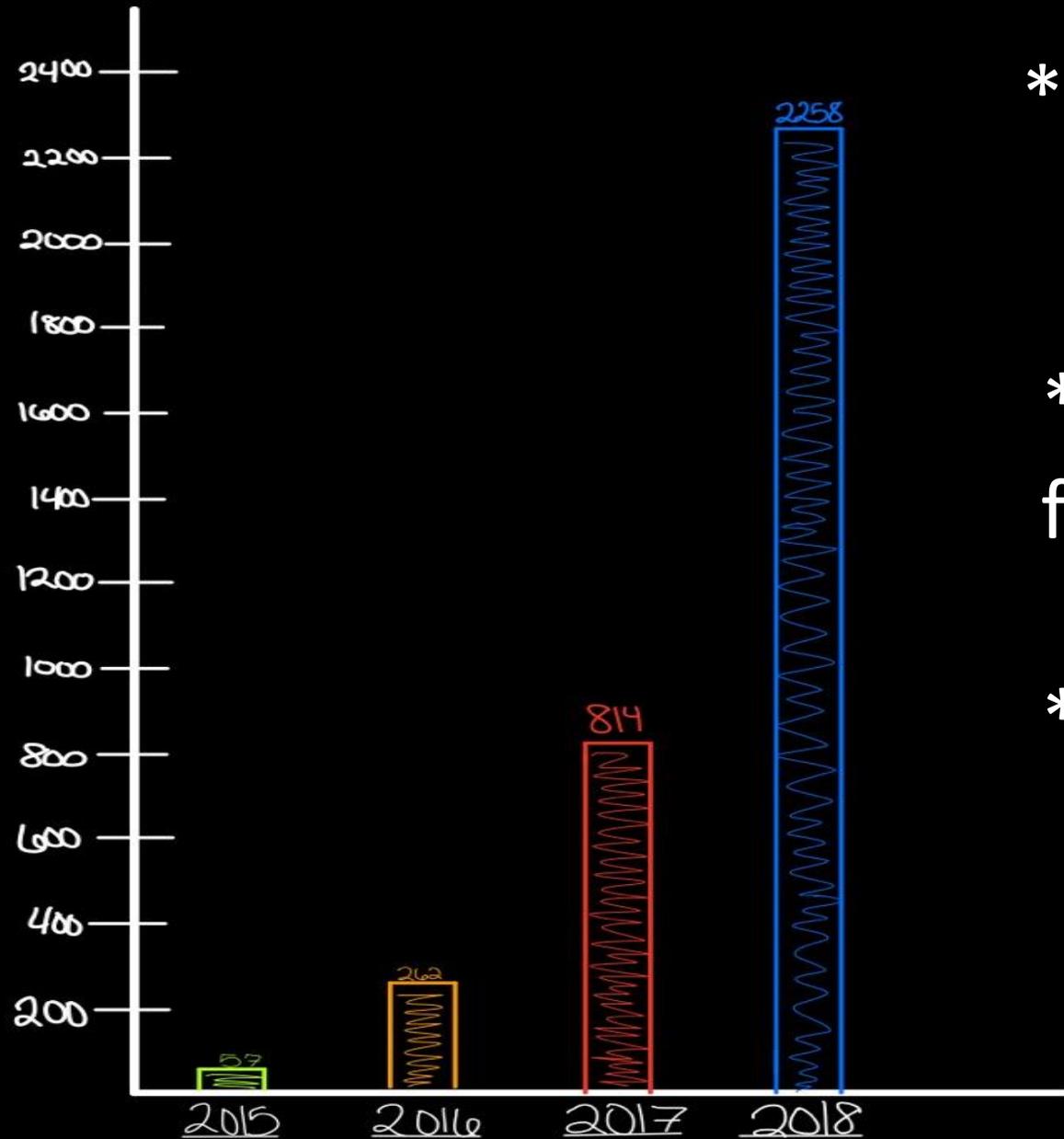
(Credit: World health organization)

A few more facts

There were 814 Section 508 lawsuits in 2017 compared to 2258 Section 508 lawsuits in 2018.

All 2258 law suits filed in 2018 were filed by less than 50 plaintiffs

Title III of the ADA non-compliance is the basis for most of the lawsuits



*Web accessibility lawsuits filed in the last 4 years!

*Most of the lawsuits are from New York and Florida

*2258 lawsuits in 2018

FATHEAD Lawsuit 2019

SUPERIOR COURT OF CALIFORNIA - Case #30-2019-01065548-CU-CR-CJC

- 17 - Defendant has denied blind individuals equal enjoyment of and access to the products, services, privileges, advantages, and accommodations and information made available through the website by preventing them from freely navigating the Website.
- 18 - The Website's barriers are pervasive and include, but are not limited to, the following:
 - (1) Empty or missing form labels which presents a problem
 - (2) Empty links that contain no text causing the function or purpose of the link to not be presented to the user.
 - (3) Redundant Links where adjacent links go to the same URL address

Colorado Accessibility Laws

- **8.6% of the population in Colorado is Deaf or Hard of Hearing.**
<http://bit.ly/coadafact>
- **Colorado Information Technology Accessibility Standards for the Blind and Visually Impaired.** <http://bit.ly/coadalaws>
- Colorados suggested tools to check your compliance. <http://bit.ly/coadatools>
- Colorado's Web accessibility laws - <http://bit.ly/adabystate>
- The Colorado Commission on Information Management developed the Colorado Information Technology Accessibility Standards for the Blind and Visually Impaired, which are modeled after the ADA of 1990, Section 508, and WCAG 2.0.
- Web-based intranet and internet information and applications are subject to Section 508.

What is “WCAG 2.1” & “Section 508”

- **(WCAG 2.1) Web Content Accessibility Guidelines** defines how to make Web content more accessible to people with disabilities. Accessibility involves a wide range of disabilities, including visual, auditory, physical, speech, cognitive, language, learning, and neurological disabilities.

What is “WCAG 2.1” & “Section 508”

- **(WCAG 2.1)** Web Content Accessibility Guidelines defines how to make Web content more accessible to people with disabilities. Accessibility involves a wide range of disabilities, including visual, auditory, physical, speech, cognitive, language, learning, and neurological disabilities.
- **(Section 508)** of the Rehabilitation Act (29 U.S.C. § 794d) requires that Federal agencies' electronic and information technology is accessible to people with disabilities, including employees and members of the public.

WCAG's 4 main ideas

- **Perceivable:**
 - Text alternative, Media, Adaptable, Distinguishable

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- **Understandable:**
 - Readable, Predictable, Input Assistance

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- **Operable:**
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- **Understandable:**
 - Readable, Predictable, Input Assistance
- **Robust:**
 - Compatible with lots of assistive technology

Why does section 508 exist?

Our 11 easy steps to help with compliance

1-Provide alternative text for non-text content

2-Label all your form elements for input fields

3-Add closed captions for videos. Add audio description for animations

4-Ensure color contrast meets minimum thresholds

5-Make your link text descriptive and underline them

6-Do not use color as the only indication of meaning

7-Make sure your font size is at least 16px and spaced properly when enlarged by 200%

8-Input errors by the user must be identified and explained in text

9-You should be able to navigate the whole site using only your keyboard

10-Use flexible time limits for your site, if any, or add an option for more time

11-Provide skip navigation links so that users can skip repetitive content such as nav menus, etc.

11 Easy steps continued...

1. Provide alternative text for non-text content

Attachment Details



Edit Image

File name: 20180706_121337-1-e1534911904241.jpg
File type: image/jpeg
Uploaded on: August 22, 2018
File size: 1 MB
Dimensions: 3024 × 4032

URL	<input type="text" value="http://www.stpetedesign.com/v"/>
Title	<input type="text" value="20180706_121337 (1)"/>
Caption	<input type="text"/>
Alt Text	<input type="text" value="A picture of a device that allows"/>
Description	<input type="text"/>

Uploaded By [Joe Lopreste](#)
Uploaded To [NFB Convention In Orlando Fl. 2018](#)

Required fields are marked *

Decorative All images must either have an alt declared as decorative.

Smush Not processed



Uploaded on: August 22, 2018

File size: 1 MB

Dimensions: 3024 × 4032

URL

Title

Caption

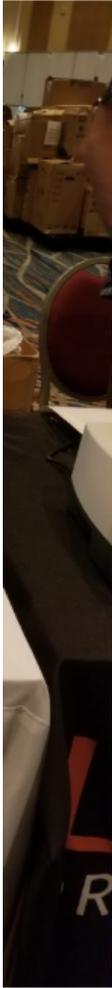
Alt Text

Description

Uploaded By Joe Lopreste

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Required fields are marked *

Decorative *All images must either have an alt attribute or be declared as decorative.*

Smush Not processed

11 Easy steps continued...

1. Provide alternative text for non-text content
- 2. Label form elements for input fields**

First Name *

MI

Last Name *

Suffix

- Media
- Pages
- Comments
- Contact**
- Contact Forms**
- Add New
- Integration
- Appearance
- Plugins
- Users
- Tools
- Settings
- Collapse menu

- Form**
- Mail
- Messages
- Additional Settings

Form

You can edit the form template here. For details, see [Editing Form Template](#).

- text
- email
- URL
- tel
- number
- date
- text area
- drop-down menu
- checkboxes
- radio buttons
- acceptance
- quiz
- reCAPTCHA
- file
- submit

```
<label> Your Name (required)
  [text* your-name] </label>

<label> Your Email (required)
  [email* your-email] </label>

<label> Subject
  [text your-subject] </label>

<label> Your Message
  [textarea your-message] </label>

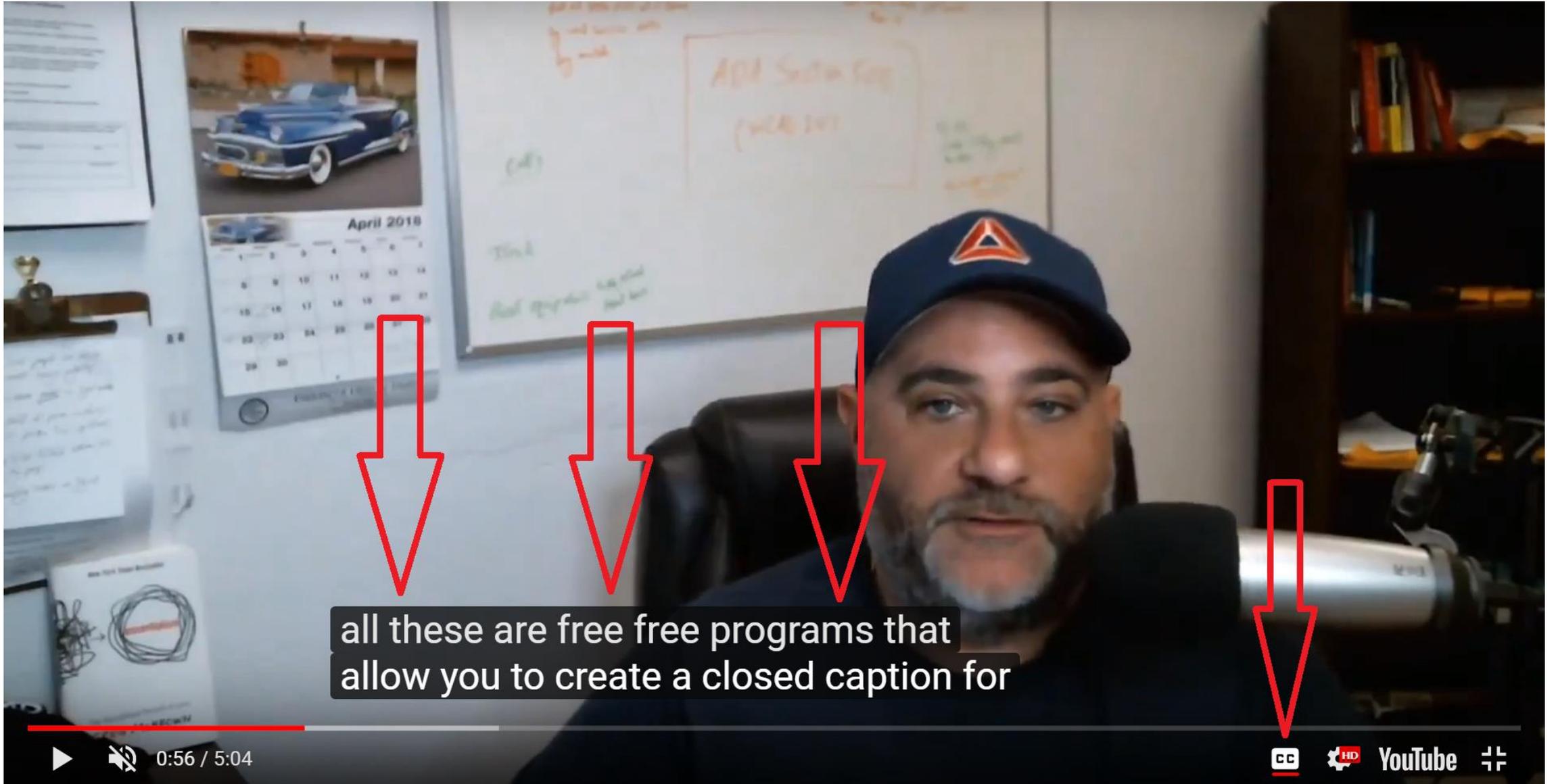
[submit "Send"]
```

Labels are automatically added in Contact Form 7.
←-----

11 Easy steps continued...

1. Provide alternative text for non-text content
2. Label form elements for input fields
- 3. Add manuscript or closed captions for videos. Add audio description for animations.**

An example of Closed Captions



all these are free free programs that allow you to create a closed caption for

0:56 / 5:04

CC HD YouTube

An example of a Audio Description

The lion king video with an audio description.

<https://goo.gl/yJ2QUW>



The screenshot shows a YouTube video player interface. The main video is titled "Audio Description - Full Clip" and has 2,152 views. The video content shows a savanna landscape with a giraffe in the foreground and a large rock formation in the background under a cloudy sky. The video player includes standard controls like play, volume, and a progress bar showing 0:06 / 2:23. Below the video, there are interaction buttons for "I like this", "Like" (10), "Dislike" (0), "Share", and "More options".

Up next

- What is family? (with subtitles and audio description)**
AIFStv
49K views
2:32
- Beauty And The Beast 3D Audio Described (AD) Trailer**
IMSTVUK
7.6K views
1:21
- Toy Story 2: Touching the belt (Audio Description)**
Tristan Productions
2.4K views
0:59
- The Lion King: First Look - Meet The Cast (2019)**
fyrTV
1.2M views
4:05
- Descriptive Video Demonstration - The Lion King**
Brad Wilmot
109K views
2:23
- The Lion King - Circle of Life**

Type here to search

5:09 PM 5/22/2018

11 Easy steps continued...

1. Provide alternative text for non-text content
2. Label form elements for input fields
3. Add transcript or closed captions for videos. Add audio description for animations.
- 4. Ensure color contrast meets minimum thresholds**

Contrast Ratio

- Color contrast ratio should be a minimum of 4.5:1
- With the exception of links and text, they can be 3:1

Bad Contrast

Bad Contrast

Bad Contrast

Bad Contrast

Bad Contrast

Bad Contrast

Good Contrast

Good Contrast

Good Contrast

Good Contrast

Good Contrast

Good Contrast

11 Easy steps continued...

1. Provide alternative text for non-text content
2. Label form elements for input fields
3. Add manuscript or closed captions for videos. Add audio description for animations.
4. Ensure color contrast meets minimum thresholds
5. **Make all link text descriptive and underline them**

For a bad example of link descriptions

[Click Here](#) or [Read more...](#)

For a bad example of link descriptions

[Click Here](#) or [Read more...](#)

For an example of a good link description

follow this link to [Wikipedia](#).

11 Easy steps continued...

6. The color of any given content cannot be the only indication of meaning.

Example #1: Using color to convey meaning for input fields.

Incorrect Example

Correct Example

Example: Using color to convey meaning

✘ Color only

Required fields are in red

Name

Email

✔ Color and symbol

Required fields are in red and marked with an *

Name

Email *

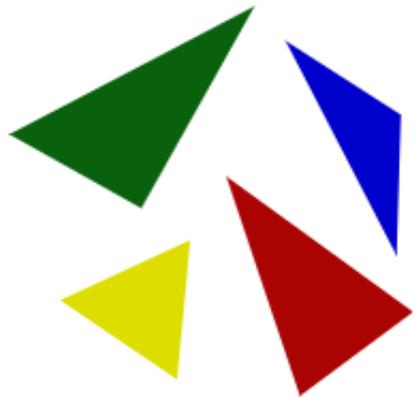
Example #2 using color as a indicator when asking questions.

Incorrect Example

Correct Example

Example: Refer to something using color alone

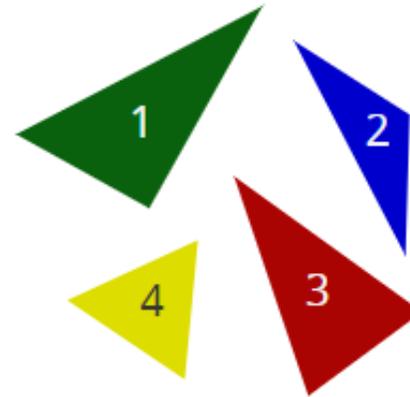
✘ Color only



Which is the right-angled triangle?

- Green
- Blue
- Red
- Yellow
- Don't know

✔ Color and number



Which is the right-angled triangle?

- Green (1)
- Blue (2)
- Red (3)
- Yellow (4)
- Don't know

11 Easy steps continued...

6. The color of any given content cannot be the only indication of meaning.
7. Make sure your font size is at least 16px and is still properly spaced when enlarged by 200%, 2% between paragraphs, 1.5% between lines

11 Easy steps continued...

6. The color of any given content cannot be the only indication of meaning.
7. Make sure your font size is at least 16px and is still properly spaced when enlarged by 200% 2% between paragraphs, 1.5% between lines
8. (Error handling) If there is an input error by the user, it must be identified and described in the text explaining the error to the user.

How to properly handle input errors

Contact Us

**Required Fields*

Please review the errors below.

Title *

Select



Title is required.

First Name *

Joseph

MI

Last Name *

Last Name is required.

Suffix

11 Easy steps continued...

6. The color of any given content cannot be the only indication of meaning.
7. Make sure your font size is at least 16px and is still properly spaced when enlarged by 200%
8. (Error handling) If there is an input error by the user, it must be identified and described in the text explaining the error to the user.
9. (Tab navigation) **Your entire website should be able to be navigated by using only your keyboard. Don't ignore Focus State!**

11 Easy steps continued...

6. The color of any given content cannot be the only indication of meaning.
7. Make sure your font size is at least 16px and is still properly spaced when enlarged by 200%
8. (Error handling) If there is an input error by the user, it must be identified and described in the text explaining the error to the user.
9. (Tab navigation) Your entire website should be able to be navigated by using only your keyboard.
10. You must offer flexible time limits (if any) associated with the website or software.

11 Easy steps continued...

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9. (Tab navigation) Your entire website should be able to be navigated by using only your keyboard.
10. You must offer flexible time limits, if any, associated with the website or software.
- 11. Provide skip navigation links so that users can skip repetitive content such as nav menus, widgets etc.**

Example of a good skip link

The image shows a screenshot of the Publix website homepage. At the top left, there is a green button with white text that reads "SKIP TO PRIMARY CONTENT". Three red arrows point upwards from the left side of the page towards this button. The main navigation bar includes links for "Log In", "Sign Up", "Store Locator", "Shopping List", "Coupons", "Order", and "Weekly Ad". Below the navigation bar is the Publix logo and a search bar. The main content area features a large banner with the text "Easy grocery delivery." and a "Shop Now" button. To the right of the text is a photo of a smiling woman holding a Publix grocery bag. Below the banner is a row of four category links: "Grocery Delivery", "Meal Solutions", "Reel Variety", and "Aprons Simple Meals". At the bottom of the page, there is a dark grey bar with an "Alerts" button and a dropdown arrow.

Step #1 Download wp-accessibility plugin

Step #2 simply Activate “enable skiplinks”

The screenshot shows the WordPress Settings page for the WP Accessibility plugin. The left sidebar contains navigation links: Comments (3), Downloads, Contact, Appearance, Plugins (4), Users, Tools, WPBakery Page Builder, Settings (highlighted in blue), General, Writing, Reading, and Discussion. The main content area is titled 'Add Skiplinks' and is highlighted with a red box. Below this title is the 'Configure Skiplinks' section, which includes two checkboxes: 'Enable Skiplinks' (checked) and 'Skiplinks always visible' (unchecked). Below the checkboxes are four input fields: 'Skip to Content link target (ID of your main content container)', 'Skip to Navigation link target (ID of your main navigation container)', 'Site Map link target (URL for your site map)', and 'Add your own link (link or container ID)'. The 'Add your own link' section also includes a 'Link text for your link' input field. At the bottom, there are two text areas for 'Styles for Skiplinks when they have focus' and 'Styles for Skiplinks without focus'.

Add Skiplinks

Configure Skiplinks

- Enable Skiplinks
- Skiplinks always visible

Skip to Content link target (ID of your main content container)

Skip to Navigation link target (ID of your main navigation container)

Site Map link target (URL for your site map)

Add your own link (link or container ID) Link text for your link

Styles for Skiplinks when they have focus

Styles for Skiplinks without focus

11 easy steps to help with compliance

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5-Make your link text descriptive and underline them

6-Do not use color as the only indication of meaning

7-Make sure your font size is at least 16px and spaced properly when enlarged by 200%

8-Input errors by the user must be identified and explained in text

9-Navigating the website using only your keyboard

10-Use flexible time limits for your site, if any, or add an option for more time

11-Provide skip navigation links so that users can skip repetitive content such as nav menus, etc.

That was easy!

FREE Accessibility Testing Tools

- **Axe Chrome** – This is an accessibility testing tool from Deque University.
- **Wave.webaim.org** - This also helps you know where you are having accessibility issues.
- **Google Lighthouse** – This lets you run an accessibility scan for any website and creates a basic report for you.
- **Contrast Ratio Checker** – This is a great contrast ratio checker. You can find it here - <https://contrast-ratio.com/>
- **WP Accessibility Tools & Alt Text Finder** – This plugin has a missing Alt text finder, the totaly testing software from Khan University, a contrast ratio checker and a WCAG 2.1 checklist.

FREE Accessibility Tools

- **Userway.org** - This adds a widget on the frontend of your WP site that allows users to navigate your site much easier.
- **Accessibility Statement Generator** – This is a great tool from W3C that allows you to create an accessibility statement that you can put in your footer - <https://goo.gl/6wFcQp>
- **NVDA** - NVDA (Nonvisual Desktop Access) is a free “screen reader” which enables blind and vision impaired people to use computers. www.nvaccess.org
- **ChromeVox** - The ChromeVox (Classic) screen reader is an extension to Chrome that brings the speed, versatility, and security of Chrome to visually impaired users.

Resources

Actual WCAG 2.1 Guidelines – <https://www.w3.org/TR/WCAG21/>

DOJ withdrawing their recommendations - <https://goo.gl/eeeeVd>

List of lawsuits in the first 2 months of 2018 - <https://goo.gl/8QEeEP>

An article about the 2258 lawsuits in 2019 - <https://bit.ly/2DAmRvR>

Comparison table of Section 508 - <https://goo.gl/2LPJZz>

WordPress accessibility info - <https://make.wordpress.org/accessibility/>

21st Century Integrated Digital Experience Act - H.R.5759 - <https://goo.gl/QWMzuo>

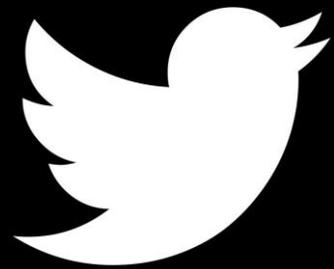
Web Accessibility laws by state - <http://bit.ly/adabystate>

Tax Form 8826 (Disabled Tax Credit) - <https://www.irs.gov/pub/irs-pdf/f8826.pdf>

Questions?

One website at a time!

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