

## Website Accessibility: The Internet is for Everyone

GovCon 2016 - July 22, 2016





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Website developer, graphics guru, Drupal diva, broke technophile, and Star Wars fan (by default). Carie has been focused professionally on Drupal since 2009. In her role as a Senior Front-End Developer at Mediacurrent, she thrives on the challenge of turning a static mock-up into a responsive, live site that is both beautiful and functional.



- @cariefisher
- /in/cehfisher
- slideshare.net/CarieFisher

# 1) Accessibility Facts

Credit: http://www.glowingdial.com

#### What is website **accessibility** anyway?

Web accessibility refers to the inclusive practice of removing barriers that prevent interaction with, or access to websites, by people with disabilities. When sites are correctly designed, developed and edited, all users have equal access to information and functionality.

- Wikipedia

#### Who is website accessibility for?

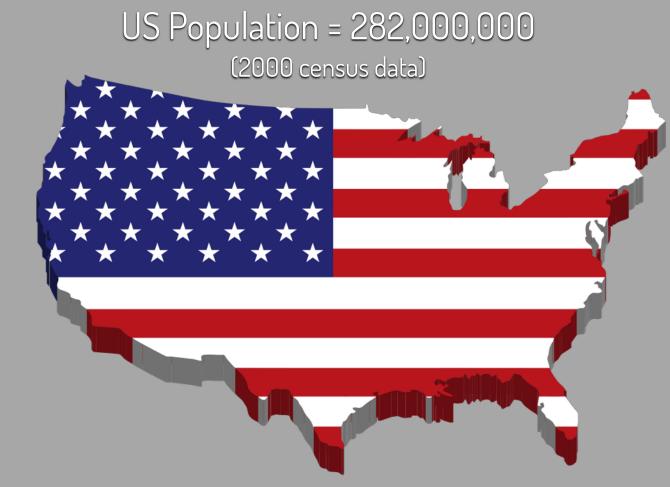
## EVERYONE!!!

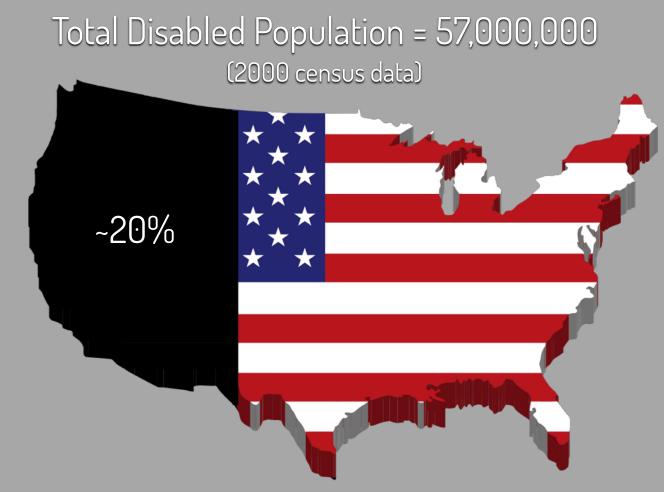
57 million Americans (~20%) have some type of DISABILITY

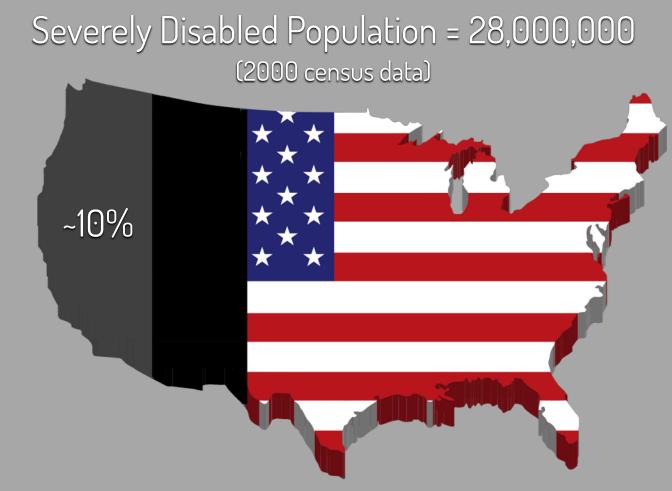
- Visual impairments
- Hearing impairments
- Cognitive impairments
- Mobility impairments

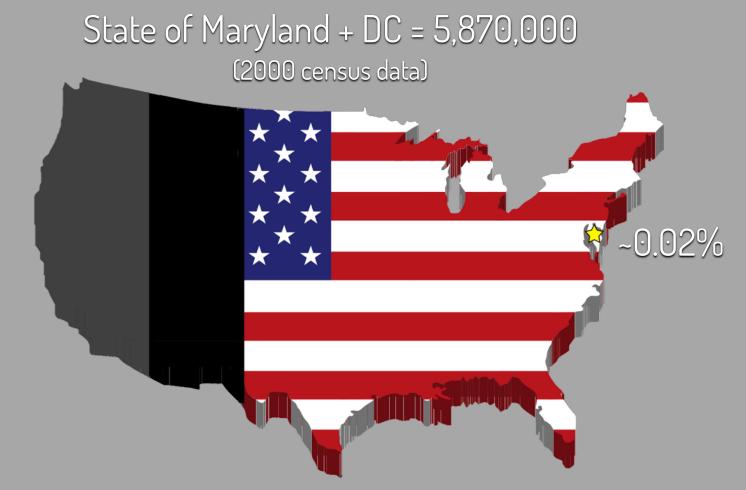
- Temporary Disabilities
- Seizure Disorders
- Aging population
- Search engine bots











Why should I care about website accessibility?

**Karma Points** – Everyone should have full access to cat videos & ridiculous internet memes...as well as all the useful information

**Smart Thing to Do** – Opens your site to a wider audience, good for SEO/search bots/Google ranking, etc

**It is the Law\*** - Federal/state agencies, airlines, Section 504 & 508, Americans with Disabilities Act (ADA) 2018

Credit: https://ironyisapoormaster.files.wordpress.com

# We are ALL just Temporarily Able-bodied

Credit: https://www.wikipedia.org

# 2) Easy Accessibility Rules

Credit: https://0.s3.envato.com

## What can I do about website accessibility?

# Rule #1: Don't Freak Out

Credit: https://fortunedotcom.files.wordpress.com

## Rule #2: Learn a Few Things

Credit: http://www.wareferst.org

## Rule #3: Build from the Ground Up

Credit: http://7-themes.com

## Rule #4: Use the Right Tools

242

2102

18 19

16

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Credit: https://www.haikudeck.com

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Do or do not. There is no try.

## Rule #5: Try, Try Again

Credit: https://happier1.imgix.net

# 3 Accessibility Guidelines

Credit: http://blog.jewilson.com





zika virus response Here's what you need to know about the Zika virus.



NATIONAL PRAYER BREAKFAST Watch President Obama's speech on protecting religious liberty for all.

#### GET PLUGGED IN







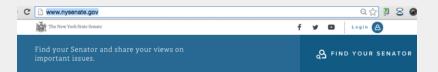
## Structure

- Plan out heading & page structure
- Add page titles for browser tabs
- Add a 'skip to content' link
- The heading hierarchy is meaningful
- Try not to skip heading levels
- Use a markup validator tool



#### **Color & Contrast**

- Use colors on the opposite ends of the color spectrum
- Be careful with light shades
- Do not rely on color alone to convey info to your users
- Use solid color backgrounds
- Use color/contrast WCAG standard testing tools



FEATURED STORY



Senate Passes Bill To End The GEA for the 2016-17 School Year

Education, Gap Elimination Adjustment (GEA)



February is Black History Month

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Senate Passes Bill to Increase

Community Awareness of Sex

PRESS RELEASE February 01, 2016

Senate Passes Bill Legalizing Mixed Martial Arts in New York

MIXED MARTIAL ARTS, TOURISM

#### Fonts

- Use a limited number of fonts & provide alternative fonts
- Specify the font size in terms of %, em or a relative value
- Use adequate font size 10pt min
- Limit the use of ALL CAPS
- Limit the use of font variations

Offender Placements

#### ← → C www.webaxe.org Skip to content | Skip to sidebar



ABOUT WEB AXE ABOUT WEB ACCESSIBILITY

#### JANUARY 23, 2016 **Color Contrast Tools**

Here are some tools that specifically check for color contrast accessibility issues on websites. And a few related links below. Know any others?

- WebAIM contrast checker
- · Colour Contrast Analyser app by TPG
- Colour Contrast Check by Snook
- Juicy Studio Accessibility Firefox add-on
- Chrome Color Contrast Analyzer plug-in
- · Colorable interactive web tool
- · Contrast Ratio by Lea Verou
- Tanaguru Contrast-Finder web tool that offers solutions
- CheckMyColors
- WCAG Contrast checker Firefox add-on
- · Added: ColorA11y Chrome extension
- · Added: Colour Contrast Determinator (beta) by Vision Australia
- More

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TAG CLOUD "assistive technology" "txing alt" administrative adobe airs alt aria articles audio awards captcha caption color conference csun design

event expert tash form accele 0 ouidelines html5 interview javascript jobs law integer podcast

presentations review Color Contrast Tools roundup screenreader Recent Web Accessibility standards testing twitter usability video visual wcag wcag2 Accessibility Jobs, November web webaim wordpress

#### Upcoming Accessibility Events CATEGORIES Infinite Scrolling and A

SOCIAL MEDIA

SEARCH

Lawsuits

2015

RECENT POSTS

(It's Usually Bad)

ARCHIVES

July 2015

. .....

January 2016

November 2015

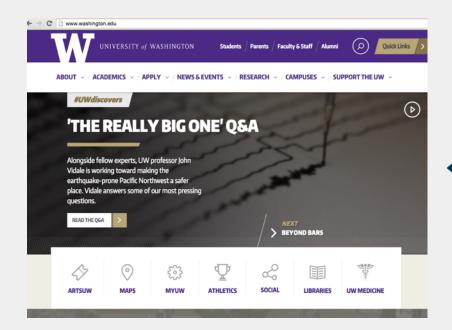
September 2015 August 2015

6) (B) (F)

Accessibility	
	"assistive technology"
	"fixing alt"
	abbreviation
	accesskey
	acrobat
	acronym
	administrative
	adobe

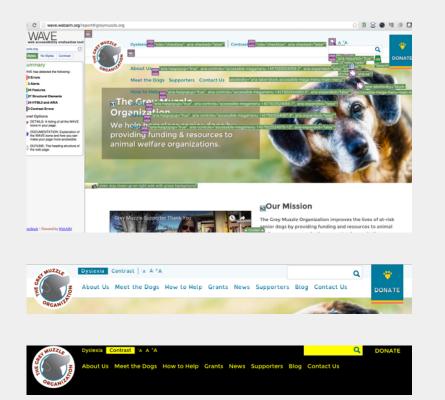
#### Links

- Differentiate links with theme elements besides color
- Use descriptive link text
- Do not use images for links
- Avoid super short or long links
- Design link focus indicators
- Ensure link text makes sense on its own



#### Media

- Use animation, video & audio carefully & selectively
- Avoid flashing/strobing content
- Provide alt ways to access content
- USE ALT TAGS! Be accurate, be succinct, avoid being redundant, avoid "image of" phrases, & use empty alt attributes for decorative images



DONATE NOW

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#### **Misc Features**

- Accessible menus
- Dyslexia font
- Contrast theme
- Font resizing buttons
- Visual focus indicators
- Sitemap
- Accessibility statement

# Drupal All the Things

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Credit: https://www.calebthorne.com

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## **Great News!** D8 Does a Lot of Heavy Lifting

Credit: http://blogs-images.forbes.com

## Accessibility in D8

- More Semantic more HTML5 elements and WAI– ARIA landmarks, live regions, roles & properties
- Aural Alerts Drupal.announce() is now part of D8 now users can confidently provide timely messages
- Controlled Tab Order The TabbingManager is a guide to both non-visual users and non-mouse users to access the elements on the page in a logical order
- Hidden/Invisible/On-focus alternative to CSS display:none built in



## Accessibility in D8 (cont)

- Fieldsets for radios & checkboxes now in the Form API. Also used in the advanced search
- jQuery UI jQuery UI is now delivering Drupal's autocomplete and modal dialog in Views UI
- Alt Text Alternative text is now required by default
- Accessible Inline Form Errors Drupal forms have become more accessible with the addition of accessible inline form errors as an optional experimental Core module

## **Extend Drupal Accessibility**

Credit: http://cdn.pinthiscars.com

#### Accessible Forms (D7) https://www.drupal.org/project/accessible\_forms

This is a simple Drupal 7 module for adding form attributes for improved accessibility. Includes: required attribute to required fields, required label to required fields (instead of asterix \*), aria-invalid to form fields with errors



#### Accessible Mega Menu (D7) https://www.drupal.org/project/accessible\_mega\_menu

This module provides integration with the Accessible Mega Menu jQuery plugin. An Accessible Mega Menu block is created for each menu. Accessible Mega Menu is an open source jQuery plugin provided by Adobe Accessibility (https://github.com/adobeaccessibility).



#### Add to Any (D7 & D8) https://www.drupal.org/project/addtoany

Share buttons for Drupal including the AddToAny universal share button, Facebook, Twitter, Google+, Pinterest, WhatsApp and many more.



#### Block ARIA Landmark Roles (D7) https://www.drupal.org/project/block\_aria\_landmark\_roles

Inspired by Block Class, this module adds additional elements to the block configuration forms that allow users to assign a ARIA landmark role to a block.



#### High contrast (D7) https://www.drupal.org/project/high\_contrast

Provides a quick solution to allow the user to switch between the active theme and a high contrast version of it.



#### HTML Tidy (D7) https://www.drupal.org/project/htmltidy

This module tidies Drupal's HTML output with HTML Tidy by optionally sanitizing it when it is saved or when it is displayed, like a traditional input formatter. Missing and mis-ordered tag components are replaced and reordered automatically so that user input doesn't break site structure with open tags and the like.



#### Readability Analyzer (D7) https://www.drupal.org/project/readability

This module is designed to help copywriters and editors develop more consistently readable content across a Drupal site. It performs five popular automated readability tests that provide a grade level equivalency of the difficulty of a page's readability. It enables you to set a target grade range for your site's content.



#### Switch Theme (D7) https://www.drupal.org/project/switchtheme

Adds a block to allow users to switch between enabled themes. Themes can be given 'user friendly' names and access can be controlled by user role. Switchtheme provides optional support for Browscap module to switch themes based on the browser of a visitor.



#### Text Resize (D7 & D8) https://www.drupal.org/project/text\_resize

The Text Resize module provides your end-users with a block that can be used to quickly change the font size of text on your Drupal site. This module is primarily focused on increasing the accessibility of your pages, by helping visually-impaired users to adjust the text size so that it is most comfortable for their eyesight.



## **(5)** Accessibility Resources

Credit: http://www.uglydogbooks.com

#### Accessibility Resources - General

- Types of Disabilities https://www.w3.org/WAI/intro/people-useweb/diversity
- Accessibility Law http://webaim.org/articles/laws/usa
- Understanding Web Accessibility http://uiaccess.com/ understanding.html
- User Stories https://www.w3.org/WAI/intro/people-use-web/ stories
- Design/Theme Specific http://alistapart.com/topic/accessibility

Credit: http://indianagrace.org

## Accessibility Resources - Guidelines & Checklists

- WCAG 2.0 https://www.w3.org/TR/WCAG20/#guidelines
- WCAG 2.0 Checklist http://webaim.org/standards/wcag/checklist
- Section 508 http://www.section508.gov
- Section 508 Checklist http://webaim.org/standards/508/ checklist
- ATAG https://www.w3.org/WAI/intro/atag.php
  UAAG https://www.w3.org/WAI/intro/uaag.php
- General checklist http://allyproject.com/checklist.html

#### Accessibility Resources - Tools

- Overview of Tools http://webaim.org/articles/tools
- General Tool http://pally.org
- Visualization Toolkit http://khan.github.io/tota11y
- Color Blindness Simulator http://www.color-blindness.com/ coblis-color-blindness-simulator
- Color Safe http://colorsafe.co
- VoiceOver http://webaim.org/articles/voiceover
- Wave http://wave.webaim.org

#### Accessibility Resources - Drupa

- Accessibility Statement https://www.drupal.org/about/features/ accessibility
- Accessibility in D8 https://www.drupal.org/node/2004876
- Front-end accessibility https://www.drupal.org/node/464472
- Back-end accessibility https://www.drupal.org/node/1637990
- Site builder accessibility https://www.drupal.org/node/394094
- Accessibile modules https://www.drupal.org/node/394252



Credit: https://ronniemcbrayer.files.wordpress.com

## Questions/Comments? Slides: slideshare.net/CarieFisher Twitter: @cariefisher