sure of what exactly digital accessibility is. All you know is you and your organization need to do something about it.

You're concerned about digital accessibility, but you're not sure where to start. You may not even be

Does that sound familiar? If so, this guide is for you.

"Digital accessibility" means building digital content and applications that can be used by people with disabilities. This can apply to websites, mobile apps, desktop apps, video games, electronic

What is Digital Accessibility?

documents, and more. At 1.31 billion people globally, PWD [people

five on the planet — a market the size of China." - 2016 Global Economics of Disability Annual Report

with disabilities] represent nearly one person in



In the United States,

there are over **56 million** people with a disability.



disabilities use the internet?

Hearing: 11.4 million Vision: 7.7 million Cognitive: 15.5 million Ambulatory: 21.2 million Self-Care: 8.1 million

Types of Disability

as defined by the

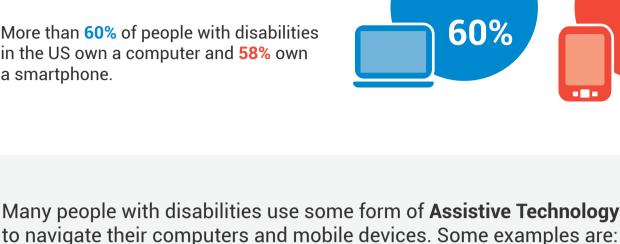
US Census:

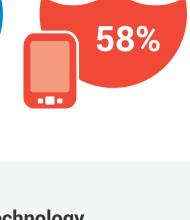
Independent Living: 14.4 million

a smartphone.

More than 60% of people with disabilities in the US own a computer and 58% own

Many people with disabilities use some form of Assistive Technology





visual or motor impairment need the user and allows them to be able to navigate entirely by to navigate via keyboard shortcuts keyboard. Likewise, alternative input devices like sip-and-puff

site/application's accessibility

code for accessibility issues.

Cons: Time consuming; requires special expertise



people with low vision

Screen Magnification Software or hardware tool that magnifies the screen

to extreme levels for

Screen Readers Software

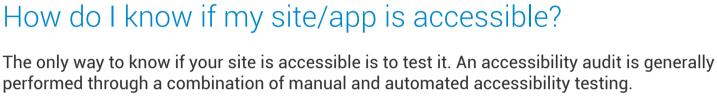
that reads out content to



or single switch buttons are emulating keyboard-style input. **Dictation Software Allows** people who have trouble with computer input devices but are able to speak to navigate by voice.

Keyboard-Only Navigation Users

who can't operate a mouse due to



Manual Testing: An accessibility specialist attempts to navigate and interact with your application using different types of assistive technology Pros: Thorough; the only way to get a complete picture of a



Pros: Can detect hundreds of basic accessibility issues in seconds; doesn't require special expertise Cons: Can't detect all accessibility issues

Automated Testing: Software tools that can automatically evaluate your

You need an accessibility audit to know if you're accessible, but what exactly are you testing for? Depending on your industry, where your organization is based, and other factors, your

Accessibility Regulations

organization may be subject to specific accessibility regulations. For example...



applications.

more than 3x as many cases as 2016 and more than 14x as many as in 2015. (from Seyfarth Shaw study)

In the US, people

with disabilities

represent over

\$645 billion in

disposable income.

almost \$4 trillion in

disposable income.

in disposable income

Their friends and family represent

courts interpret the ADA as

applying to web sites and



Section 508 Federal

government agencies and

contractors are required to

accessibility requirements.

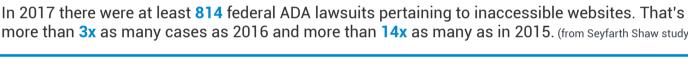
508 also applies to federal

contractors and products being

sold to the federal government.

comply with Section 508

How does accessibility help my organization? Accessibility opens your organization up to a new market.



21st Century Communications

(CVAA) Requires accessibility

of communications devices, products, and services as

well as video programming

on television and the Internet.

and Video Accessibility Act

Accessibility increases findability. Many accessibility techniques will help your

site's search optimization (SEO). If your

Accessibility improves User Experience. How often do you use video captions.

voice search, and building ramps?

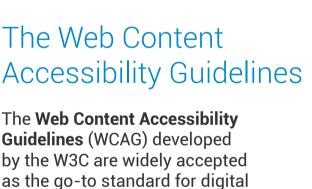
and a more inclusive workplace.

According to WCAG,

Accessibility features help everyone!

site is screen reader-friendly, it's also

search-bot friendly.



digital content should be:

Perceivable

Understandable

Operable

4 trillion **Accessible is inclusive.** Accessibility is part of fostering a more inclusive brand

The Web Content Accessibility Guidelines

Guidelines (WCAG) developed

regulations worldwide.

accessibility compliance and serve as the basis of most accessibility

If you don't have specific accessibility regulations that apply to your organization

but want to avoid legal risk, WCAG 2.1 level

A and AA compliance is a safe bet.

Reactive Accessibility

existing sites and applications.

responsible for fixing the product.

The Web Content Accessibility

Robust

If your organization isn't facing legal pressure or This is the approach to accessibility that organizations take when they're under legal if you're working on new sites and applications, pressure or have some other impending you can take a proactive approach to compliance deadline to meet. It's also best way accessibility. to approach addressing accessibility issues on

How does my organization become accessible?

Step 2: Prioritize the accessibility issues by severity, traffic, how critical the component is to your users, and other criteria. Step 3: Fix those accessibility issues! Make sure

your team has been thoroughly trained in

accessibility issue remediation through

who performed your initial audit.

fits your needs and deadlines.

Step 1: Get a full accessibility audit performed

by accessibility specialists. Make sure the final report is clear and has been fully explained to all

product/site owners and whoever else will be

bootcamps and embedded support from accessibility specialists. Depending on your deadlines and budget, you may need to outsource your accessibility remediation. Step 4: Perform validation testing to ensure that all accessibility fixes actually work. This can be done by in-house specialists or the consultants

Most early accessibility projects will require a reactive approach. Although this process can be stressful and time-consuming, you can save your team a lot of frustration by working with experts who are willing to provide a solution that

First steps on the journey to accessibility...

accessibility.

you can start fixing today.

content creators in accessibility concepts and techniques. Step 2: Get any new design wireframes reviewed for accessibility optimization and potential issue

identification.

Step 1: Train your developers, testers, and

Proactive Accessibility

to integrate accessibility testing into all stages of the development process. Step 4: Establish internal policies and processes to ensure the accessibility of digital products, content, and 3rd party tools your provide to your users and your employees. Proactive accessibility not only puts you

organization at lower risk of receiving a legal complaint about accessibility, but also makes

the entire accessibility process more efficient,

cost-effective, and as nondisruptive as possible.

Step 3: Equip your development teams with tools

Download the free axe browser extension for Chrome or Firefox and run it on your site. This will give you a great snapshot of

Talk to your colleagues. Talk to your compliance team about accessibility to learn more about your risk level. Introduce the idea of accessibility compliance to upper management, and talk to your teammates to identify allies who can help support accessibility efforts.

Learn more at deque.com • • Essential Guide to Accessibility by Deque Systems is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License, EssentialGuide-7-1-18-3

your site's accessibility as well as a list of accessibility issues

Learn more about how people with disabilities use computers and mobile devices. This is invaluable insight when you're first trying to understand

2. "2017 Website Accessibility Lawsuit Recap: A Tough Year for Businesses" by MInh Vu and Susan Ryan, January 2, 2018, Seyfarth 3. "Disability and Functioning (Noninstitutionalized Adults Aged 18 and Over)" by the National Center for Health Statistics, May 3,

1. "2016 Annual Report: The Global Economics of Disability" by Rich Donovan" May 1, 2016, Return on Disability

- (www.pewresearch.org) 6. "Nearly 1 in 5 People Have a Disability in the U.S., Census Bureau Reports", July 25, 2012, United States Census Bureau (https://www.census.gov/en.html) 7. "Website Accessibility Lawsuit Filings Still Going Strong" by Kristina Launey and Melissa Aristizabal, August 22, 2017, Seyfarth

List of Sources

(http://www.rod-group.com/) Shaw ADA Title III News and Insights (https://www.adatitleiii.com/)

"Disability Characteristics: 2016 American Community Survey 1-Year Estimates", United States Census Bureau (https://www.census.gov/) 5. "Disabled Americans are less likely to use technology" by Monica Anderson, April 27, 2017, Pew Research Center

2017, Centers for Disease Control and Prevention (https://www.cdc.gov/)

Shaw ADA Title III News and Insights (https://www.adatitleiii.com/)