Tech Check: Digital Accessibility Tools Every Company Should Be Using

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Accessibility.com



Assessing Technology for Accessibility Toolkit

Color Contrast Checkers

Website Accessibility Scanning Tools

Screen readers

Screen magnification software

Speech input

WCAG-EM

Color Contrast Examples

Great (21:1)

Good (11:1)

Pass (4.5:1)

Bad (1.8:1)

Bad (1.2:1)

ABCDE FGHIJK LMNOP 1234

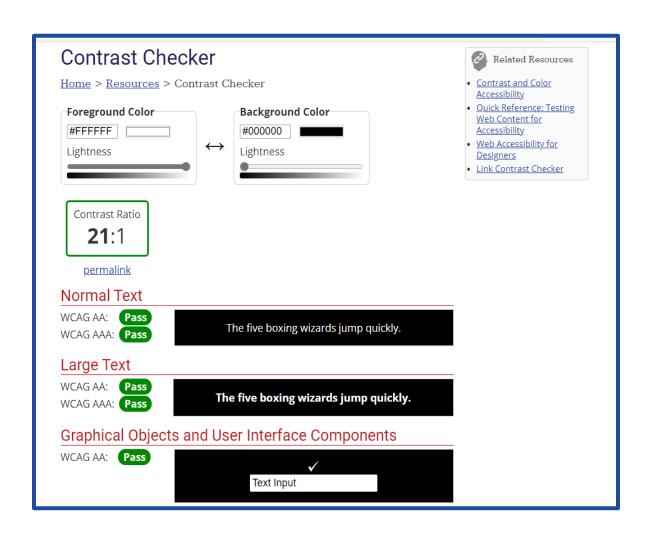


Color Contrast

WebAIM Contrast Checker (WebAIM: Contrast Checker)

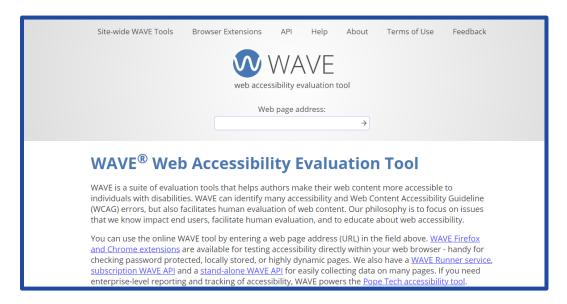
Microsoft Paint

Chrome Color Contrast Analyzer plug-in



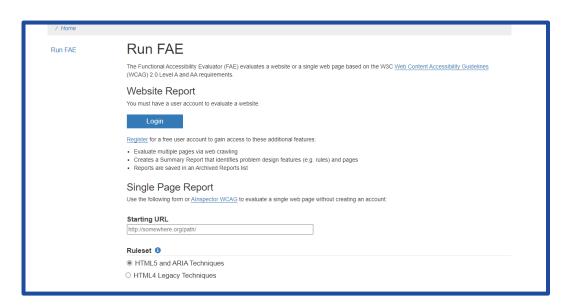
Scanning Tools

WAVE - WebAIM toolset



WAVE Web Accessibility Evaluation Tool (webaim.org)

Functional Accessibility Evaluator

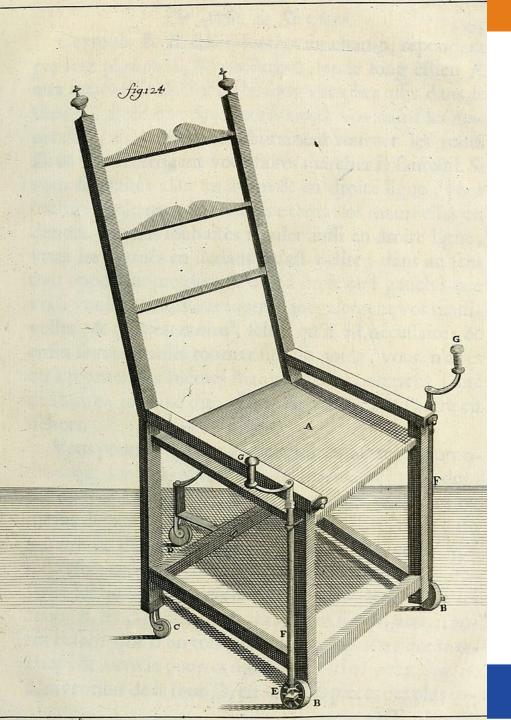


Run FAE: Functional Accessibility
Evaluator 2.1 (illinois.edu)

What is Assistive Technology?

The United States Access Board defines assistive technology as:

Any item, piece of equipment, or product system, whether acquired commercially, modified, or customized, that is used to increase, maintain, or improve functional capabilities of individuals with disabilities.



Adaptive and Assistive Technologies in History

First verified use of wheelchairs dates to the 5th - 6th century BCE - China

Hearing aids date back to the 17th century and were adopted in mainstream Europe by the close of the 18th century when hearing aids move from a conceptual stage to implementation

In 1824 Louis Braille learned about a writing system "night writing" developed that used heavy and raised black ink

In 1971, Julia Child's cooking show became the first television program to broadcast with captioning technology

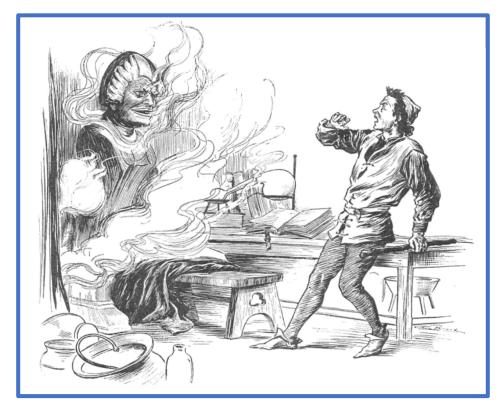
Modern Advances

Audio Books/Talking

Books

Text-messaging

Voice Assistants – SIRI, Alexa, Hey Google





Screenreaders

JAWS – Freedom Scientific

Microsoft Narrator

NVDA

TalkBack - Google

VoiceOver – Apple



Screen magnification software

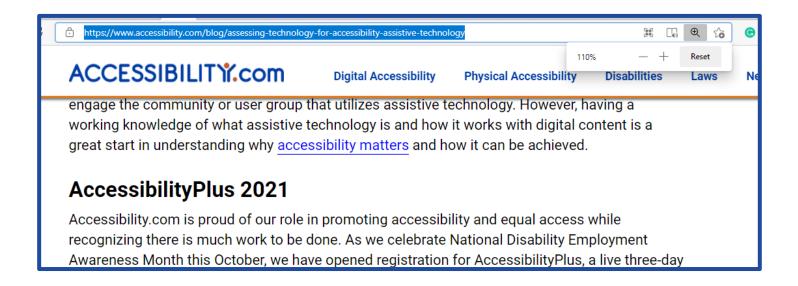
ZoomText

MAGic

Windows Magnifier

Pinch to Zoom

CTRL+/CTRL-

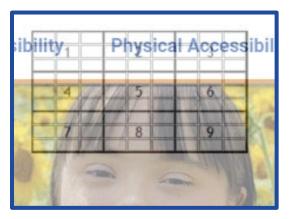


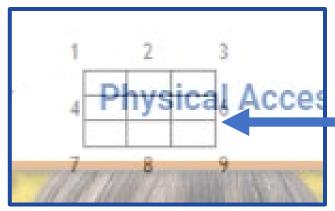


Speech Input - SG









Say "Click 5" to activate mouse left click on area



Speech Input



WCAG-EM: Website Accessibility Conformance Evaluation Methodology

Use of WCAG-EM (https://www.w3.org/WAI/eval/report-tool):

- Web consultants who want to analyze accessibility
- Web accessibility evaluation service providers
- Website developers
- Website owners and procurement officers
- Website compliance and quality assurance manager
- Training staff and educators
- Web masters and content authors



Overview

Define Scope

Explore Website 3. Select Sample

4. Audit Sample 5. Report Findings

View Report

Overview

Welcome to the <u>updated</u> WCAG-EM Report Tool. You can open your existing reports with this tool. The <u>previous version</u> is available, and is no longer supported.

Dismiss

WCAG-EM Report Tool turns your accessibility evaluation findings into a report. It is based on the Web Content Accessibility Guidelines Evaluation Methodology WCAG-EM

Start New Report

Open Report

+Expand All Sections -Collapse All Sections

- + Tips for using this tool
- + About this tool
- + How this tool works



- 1. Website Name
- 2. Scope of the Website
- 3. WCAG Version
- 4. Conformance Target
- 5. Accessibility Support Baseline
- 6. Additional Evaluation Requirements





0 of 17

0 of 3

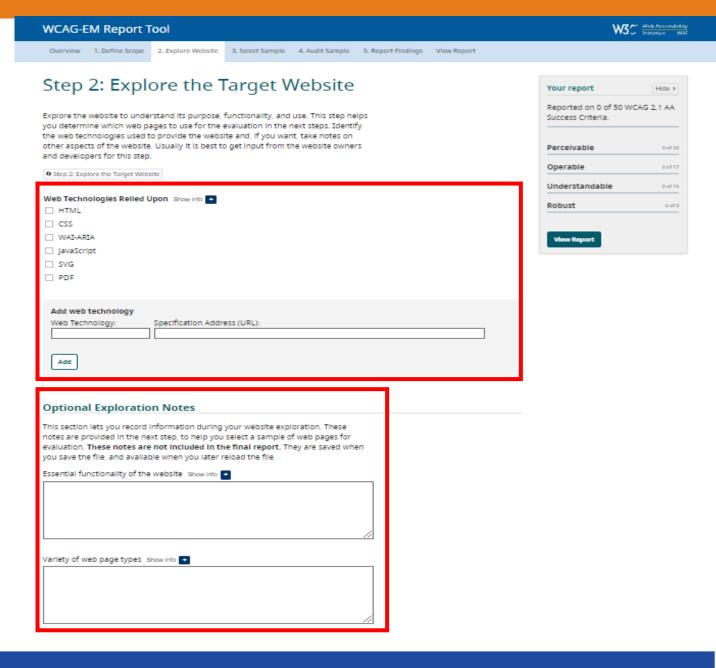
Operable

Robust

Understandable

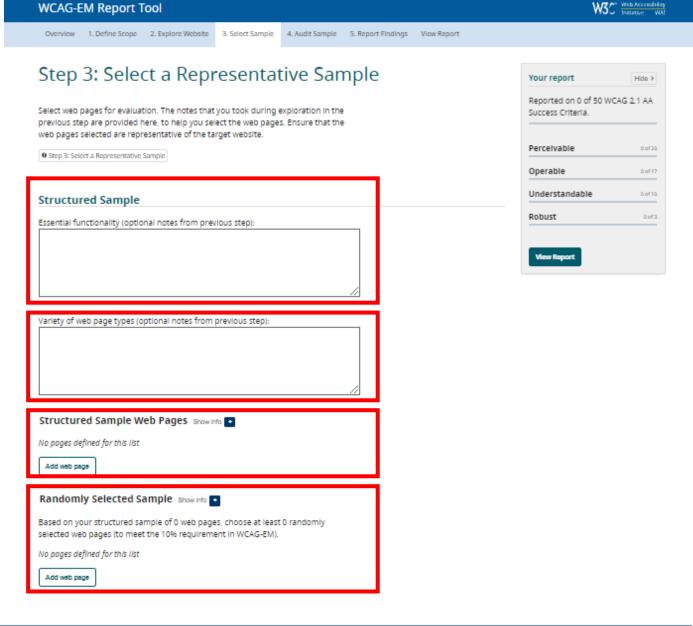
Explore the Target Website

- 1. Web technologies relied upon
- 2. Add web technologies
- 3. Optional Exploration Notes
 - 1. Essential functionality of the website
 - Variety of web page types

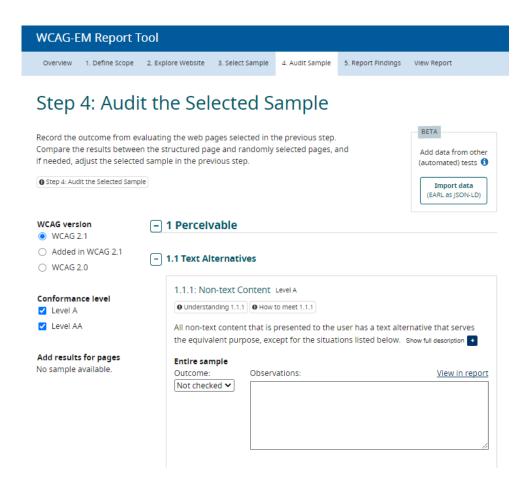


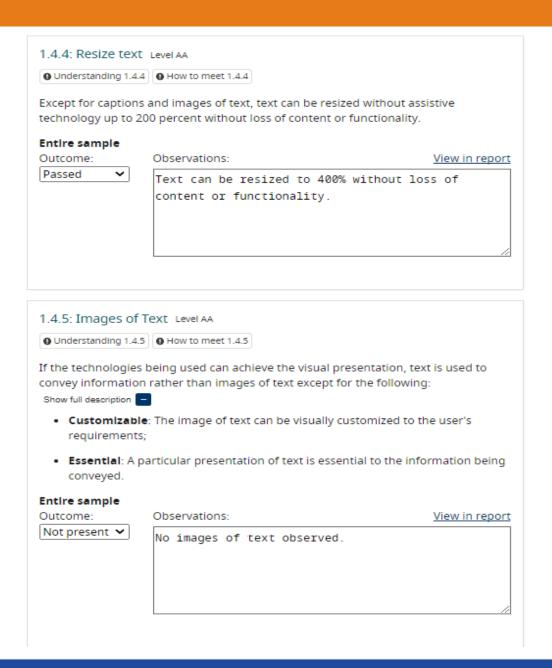
Select a Representative Sample

- Variety of web page types
- 2. Structured Sample Web Pages
- 3. Randomly Selected Sample

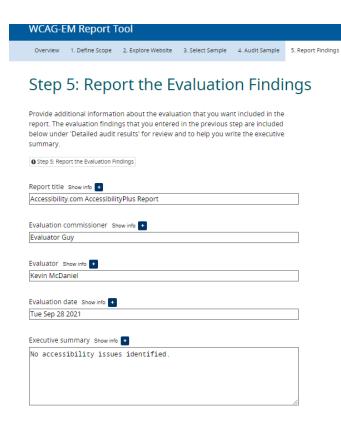


Audit the Selected Sample





Report the **Evaluation Findings**



WCAG-EM Report Tool

Overview 1. Define Scope 2. Explore Website 3. Select Sample 4. Audit Sample 5. Report Findings

Accessibility.com AccessibilityPlus Report

Download Report (HTML)

Download Report (JSON)

About the Evaluation

Report Creator: Kevin McDaniel Evaluation Commissioner: Evaluator Guy Evaluation date : Tue Sep 28 2021

Edit

Executive Summary

No accessibility issues identified.

Edit

Scope of the Evaluation

Accessibility.com Website name:

Scope of the website Our mission is to create objective and trustworthy information and resources

to become a catalyst for equal access to the physical and digital worlds.

WCAG Version: 2.1 c-----

Questions?

