

Auditing site accessibility with Siteimprove

Make your website available to all

UF | Information Technology



- Welcome
- Introductions

Objectives

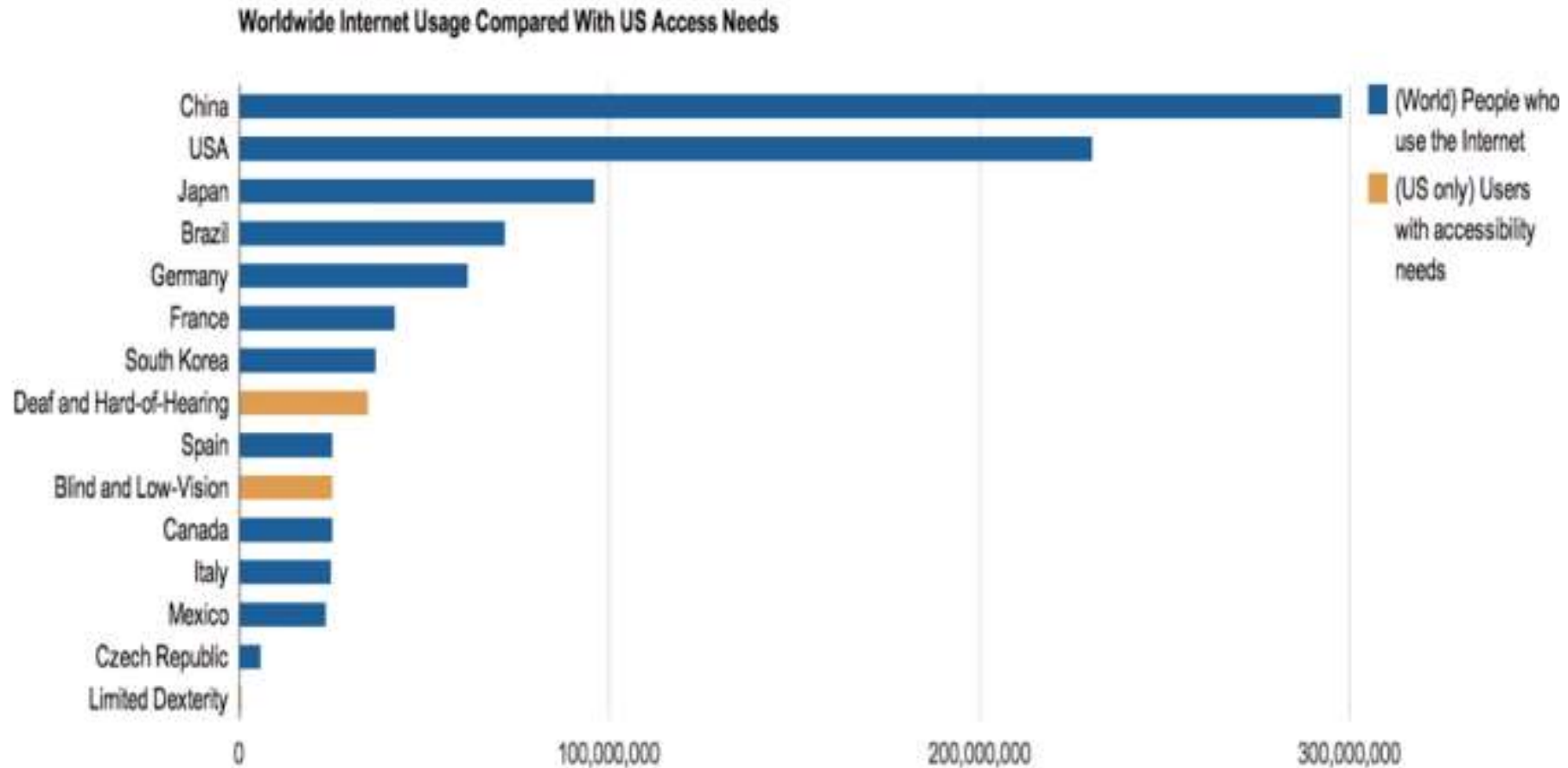
Will be able to:

- Use Siteimprove to identify inaccessible web content
- Understand when manual accessibility review is necessary

- An estimated 19% of Americans have some type of disability. According to 2010 census data on adult Americans:
 - 19.9 million (8.2%) have difficulty lifting or grasping. This could, for example impact their use of a mouse or keyboard.
 - 15.2 million (6.3%) have a cognitive, mental, or emotional impairment. These people may have difficulty understanding the layout or structure of a website
 - 8.1 million (3.3%) have a vision impairment. These people might rely on a screen magnifier or a screen reader, or might have a form of color blindness.
 - 7.6 million (3.1%) have a hearing impairment. They might rely on transcripts and / or captions for audio and video media.

Source: <http://www.interactiveaccessibility.com/accessibility-statistics>

The Myth of the "Minority User"



Sources: World Bank (WDI, 2008) and CDC.gov (NHI Survey, 2008)

WCAG 2.0

- Leading technical standard for web accessibility
- Web Content Accessibility Guidelines
 - UFIT EIT Policy - <https://accessibility.ufl.edu/>
- Content must be

Perceivable

Operable

Understandable and

Robust



Run accessibility report

[Siteimprove Platform](#)

Common Siteimprove issues

A	Info and Relationships 1.3.1	1 instance	^
!	The heading is missing text	1 instance	✖
!	There is no top level heading (H1) on the page	1 instance	✖
AAA	Section Headings 2.4.10	3 instances	^
!	Headings are not nested properly	1 instance	✖

- Heading tags should not be empty
`<h2></h2>`
- Must have a h1 tag as title of the page
- Do not skip h-levels
 - e.g. jumping from `<h1>` to `<h3>`
 - heading tags should primarily be used to identify the structure of the page, not for styling. It's better to use CSS classes for style elements such as changing the font or font-size.

Link Text

A Link Purpose (In Context) 2.4.4	16 instances
! Non-distinguishable links	2 instances

- Links should be distinguishable – for example, “learn more” links are flagged since they have the same text but go to different pages



HTML code solution: use aria-label

```
<a class="read-more" href="http://www.arts.ufl.edu/"  
aria-label="Arts">Learn More</a>
```

Link Color

A Use of Color 1.4.1	2 instances
! Link identified only by color	2 instances

- How can people identify your link when it's inside a block of text?

abilities that require accommodations are asked to voluntarily
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the [Reasonable Accommodation Based on Disability Request](#)
he form can be found on the [Environmental Health & Safety site](#).
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Color contrast

AA	Contrast (Minimum) 1.4.3	3 instances
!	Color contrast is not sufficient	3 instances



Color contrast required for AA compliance:



4.5:1 for normal text

3:1 for large text

Color Contrast Checker

[Home](#) > [Resources](#) > Color Contrast Checker

Foreground Color
#F37021 
Lightness 

Background Color
#FFFFFF 
Lightness 

Contrast Ratio
2.94:1
[permalink](#)

Normal Text

WCAG AA: **Fail**

WCAG AAA: **Fail**

The five boxing wizards jump quickly.

Large Text



WCAG AA: **Fail**



WCAG AAA: **Fail**

The five boxing wizards jump quickly.

Color Contrast Checker

[Home](#) > [Resources](#) > Color Contrast Checker

Foreground Color
#BC581A 
Lightness 

Background Color
#FFFFFF 
Lightness 

Contrast Ratio
4.62:1
[permalink](#)

Normal Text

WCAG AA: **Pass**

WCAG AAA: **Fail**

The five boxing wizards jump quickly.

Large Text

WCAG AA: **Pass**

WCAG AAA: **Pass**

The five boxing wizards jump quickly.



More common Siteimprove suggestions

A Non-text Content 1.1.1	1 instance	^
! Image with no alt attribute	1 instance	✖

A Name, Role, Value 4.1.2	3 instances	^
! The iFrame is missing a description	1 instance	✖

A Labels or Instructions 3.3.2	1 instance	^
! Input field is missing a description	1 instance	✖

A Labels or Instructions 3.3.2	1 instance	^
! Input field is missing a description	1 instance	✖

- Images should have alt tags
- iFrames should have titles
- Label form field labels with `<label></label>` or `aria-label`

Manual Review Items

Siteimprove will note some things you have to change yourself
Siteimprove guidelines contain items that will not be mentioned

Conformance level

- A Conformance 2
- AA Conformance 1
- AAA Conformance 1

Severity

- Errors 1
- Warnings 0
- Reviews 3

Enough Time

- Timing Adjustable 2.2.1 1
- Provide enough time 1

Other Resources

- World Wide Web Consortium (w3c) <https://www.w3.org/>
- SitePoint <https://www.sitepoint.com/15-rules-making-accessible-links/>
- Accessible Online Environments: <https://training.it.ufl.edu/training/items/accessible-online-environments.html>
- Disability Resources Center: <https://drc.dso.ufl.edu/>
- UFIT <https://webservices.it.ufl.edu>
- Accessibility website: <https://accessibility.ufl.edu/>
 - <https://accessibility.ufl.edu/siteimprove/get-started-with-siteimprove/>