

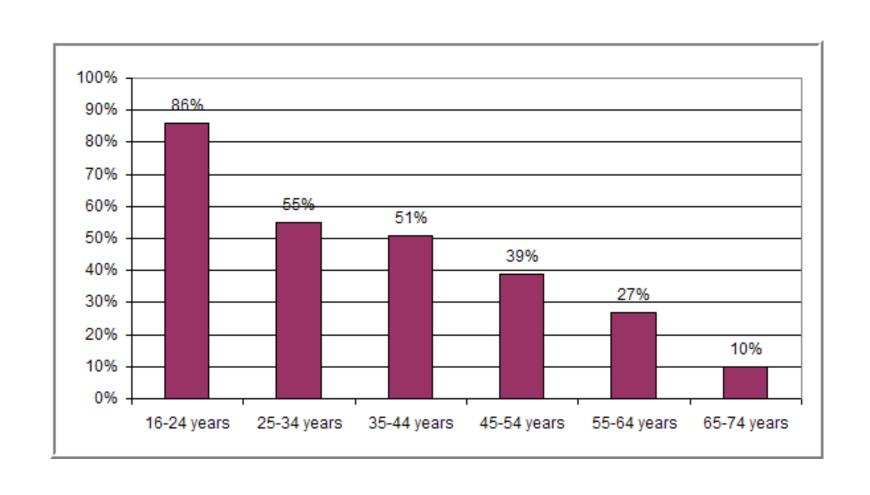
Let's define it

Defining Accessibility

Accessibility testing is a subset of usability testing where in the users under consideration are people with all abilities and disabilities.

Why?

People are getting old



Hardware and software





• Screen readers

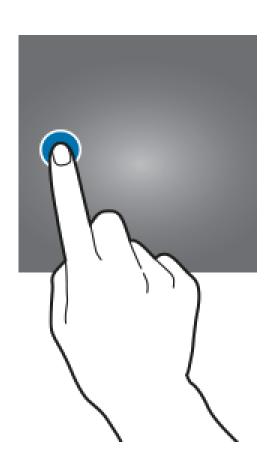
- Screen magnifiers
- Voice recognition
- Dyslexic users software



Accessibility lab



Swiping issue

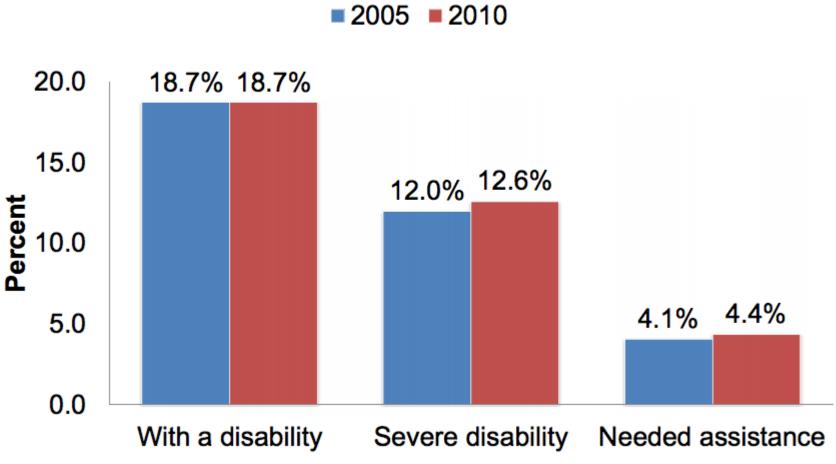


Disabilities

- Vision
- Mobility
- Hearing
- Learning
- Psycho-social issues

How many people needs assistive technologies?

Percentage of People with a Disability



Source: U.S. Census Bureau, Survey of Income and Program Participation, 2004 and 2008 Panels, Adult and Child Functional Limitations Topical Module

Accessibility testing

Requirements!

WCAG 2.0 by W3schools.org

Perceivable

Operable

Understandable

Robust

- A must
- AA should
- AAA may

Requirements!

EU:

AA - New websites must comply from 23 September 2019 on, old websites from 23 September 2020 on and mobile applications from 23 June 2021 on.

Canada:

By January 1, 2020, all internet and intranet websites and web content must conform with WCAG 2.0 Level AA.

US:

Section 508 of the Rehabilitation Act of 1973

Requirements!

• Definition of Ready

• Definition of Done

• Acceptance Criteria

• Separate Jira tasks

Approaches

Pure manual

Manual+

Test automation

Accessibility testing – Manual approach

Notifications test

TAB-navigation test

Colorblind test

Blind user test

Accessibility testing – Manual approach

Notifications test

TAB-navigation test

Colorblind test

Blind user test

Accessibility testing – Manual approach – Notifications and Alerts

My name is **12345**

Last Name and

Alpha characters only

Accessibility testing – Manual approach

Notifications test

TAB-navigation test

Colorblind test

Blind user test

Accessibility testing – Manual approach – Focus Management

Apply for this Solution

Apply for this Solution

Accessibility testing – Manual approach

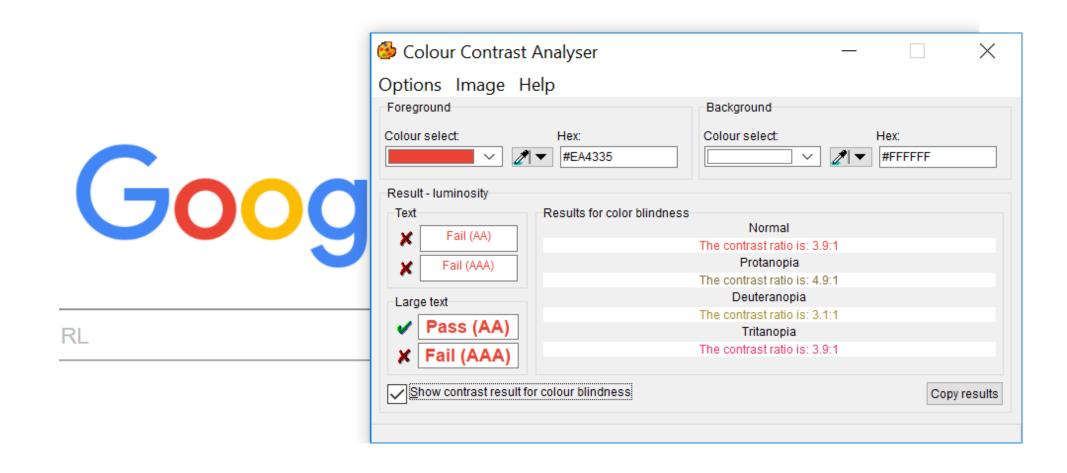
Notifications test

TAB-navigation test

Colorblind test

Blind user test

Accessibility testing – Manual approach - Colorblind



Accessibility testing – Manual approach

Notifications test

TAB-navigation test

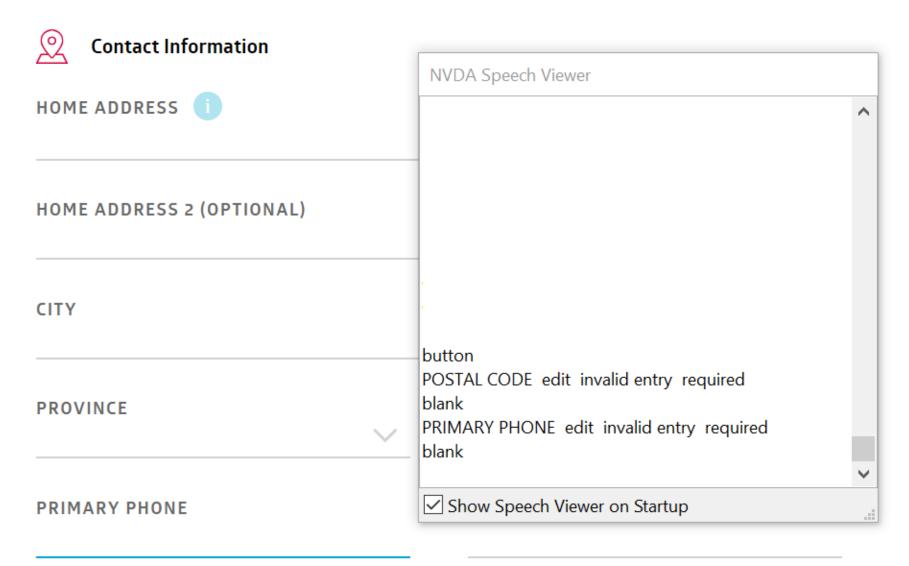
Colorblind test

Blind user test

Accessibility testing - Manual approach - Screen reader

- Speech Viewer
- Ability to change tool's voice
- Ability to change tool's voice language
- Settings of features that should be read, e.g., color, font name, font size, etc.
- Mouse settings
- Keyboard settings
- Others

Accessibility testing - Manual approach - Speech Viewer



Accessibility testing – Manual+

• Site Improve Accessibility checker

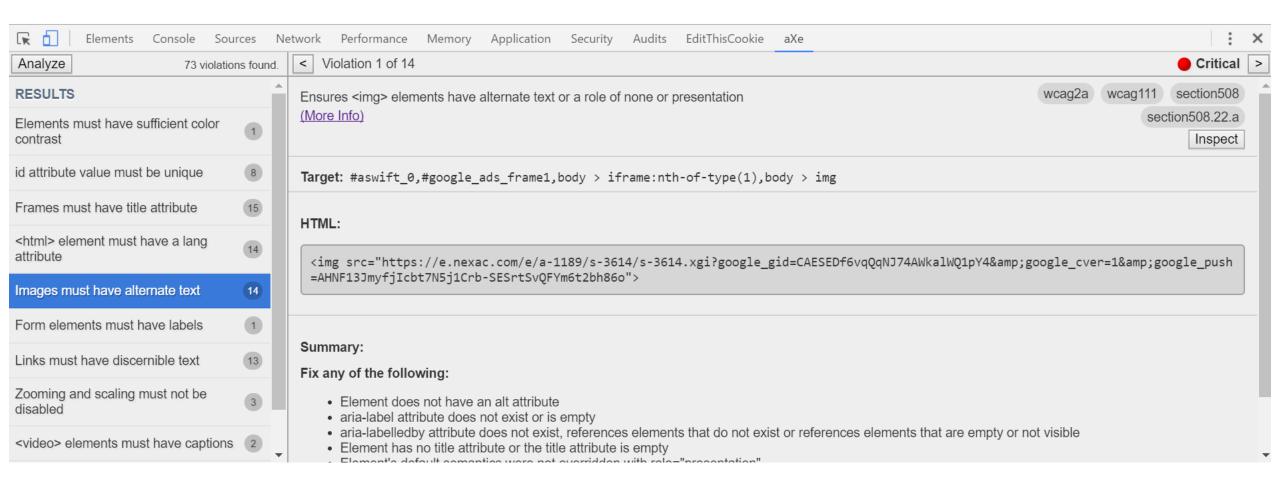
Wave evaluation tool

• Chrome Dev Tools Audit

• Accessibility Evaluator for Firefox

• aXe Chrome plugin

Accessibility testing - Manual+ - aXe Chrome plugin



Accessibility testing – Automate! – Gulp Accessibility

```
AccessSniff — bash — 101×26
Stevens-MacBook-Pro: AccessSniff stevenjohnmiller sniff test/**/*.html -r json -l reports
Testing test/examples/test.html
NOTICE WCAG2A.Principle2.Guideline2 4.2 4 2.H25.2
Line 3 col 4
Check that the title element describes the document.
<title>Test One</title>
ERROR WCAG2A.Principle3.Guideline3_1.3_1_1.H57.2
Line undefined col undefined
The html element should have a lang or xml:lang attribute which describes the language of the documen
t.
<html><head>
   <title>Test One</title>
 </head>
 <body>
   <h1>Derp</h1>
   <a id="herpDerp" class="test Element" href="test">Test</a>
   <a href="test">Test</a>
   <a href="test" class="herp">Test</a>
</body></html>
```

Lessons learned

Lessons learned

• About 35% of raised bugs are closed due to accessibility tools problems

• Different key combinations

• Stay focused on the page

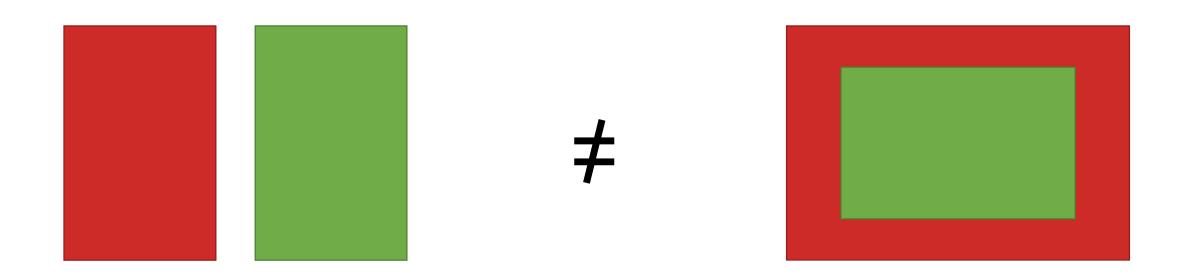
Challenging your patience

Tips and tricks

Tips and tricks – Talk with your team



Tips and tricks – Colorblind test



Tips and tricks - Close your eyes

- What page is currently
- Where can I get from he
- How can I get from here
- Any forms to fill?
- Where am I transferred



Tips and tricks - Give it to someone else!



Tips and tricks – Front-end Developers are your best friends



Tips and tricks - HTML + CSS



Tips and tricks – HTML Examples

ullet Lorem ipsum dolor sit amet, consectetur adipiscing elit...

• <html lang="en">

Company has _____ employee(s)

 <label for="businessEmployeeNum" class="hidden-element ng-scope" translate="">employee(s)</label>

Tips and tricks – Tooltip case

Email

Password

(i

Confirm Password

Tips and tricks – Skip Navigation Link

Skip to Navigation

Learn!



