

Why does a blind person want a bike?

MATUZOVIĆ

FRONT-END / A11Y / HTML / CSS



Hi, I'm Manuel! 🙌

matuzo.at

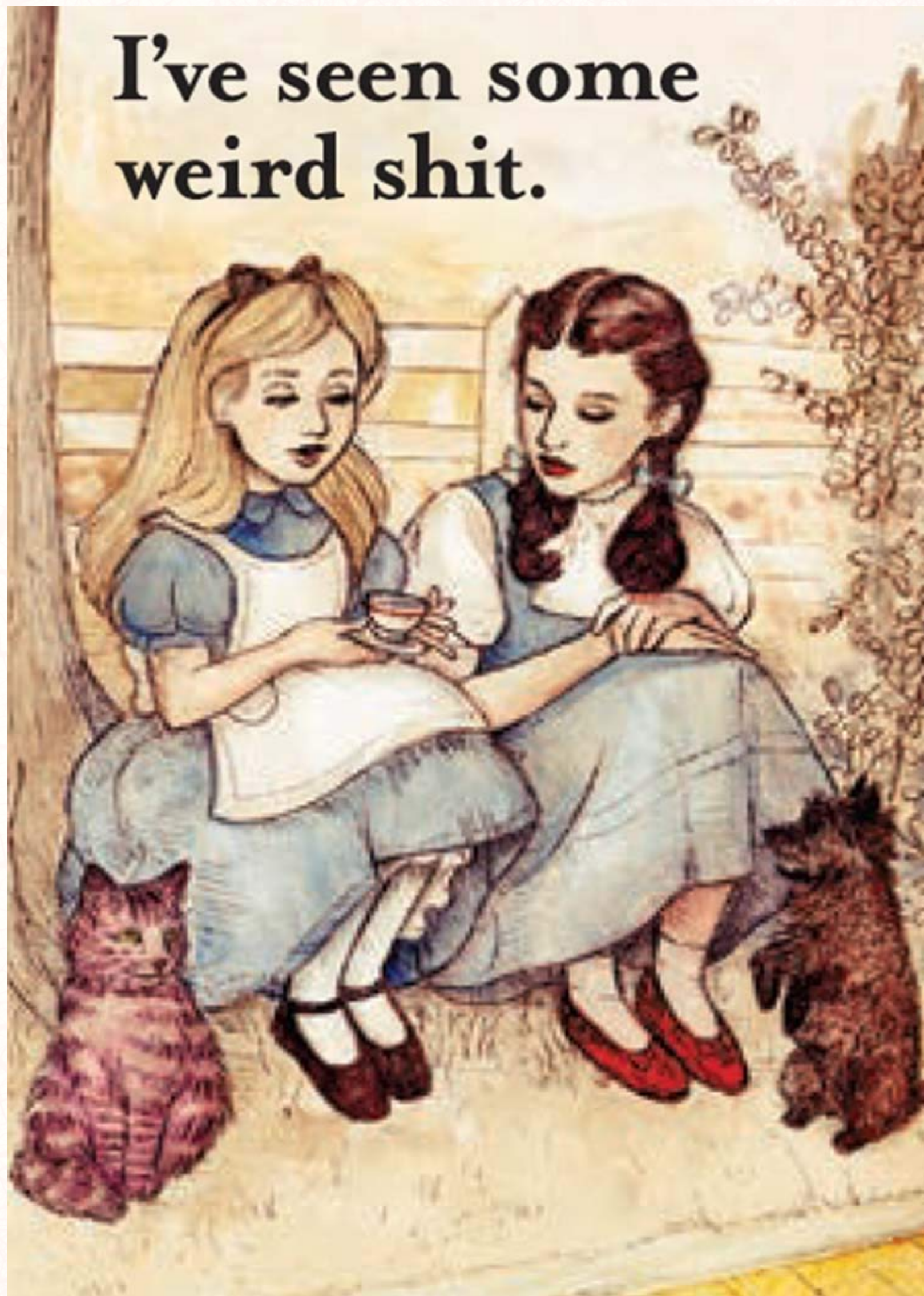
manuel@matuzo.at

accessibility-cookbook.com

matuzo.social

htmhell.dev

**I've seen some
weird shit.**



SPÖ Bitte Suchbegriff Mit Herz + Hirn Mitglied werden Parlament

DEINE SPENDE FÜR EINEN STARKEN WAHLKAMPE

Jetzt 5 € spenden!

Sei dabei! Newsletter

DevTools axe-core 4.10.0 Sign up / Sign in start new scan Export

Best Practices: OFF WCAG 2.2 AAA

Total Issues: 115

- Buttons must have discernible text 2
- Elements must meet enhanced color contrast ratio thresholds 41
- Elements must meet minimum color contrast ratio thresholds 8**

Highlight Share Issue 1 of 8

Ensure the contrast between foreground and background colors meets WCAG 2 AA minimum contrast ratio thresholds

more information

Element Location: `.menu-item:nth-child(1) > .menu-subtree > .menu-subtree-item-back > .menu-subtree-item-back-text`

```
<span class="menu-subtree-item-back-text">Aktuelles</span>
```

To solve this problem, Element has insufficient 24.0pt (32px), font weight

Related Node `<ul class="menu-subtree">`

Found: Automatically In EN-9.1.4.3 ACT Found

Images must have alternative text

5:57 / 24:57

Reaction: Wie barrierefrei ist spoe.at?

Manuel Matuzovic 200 Abonnenten Analysen Video bearbeiten

3 Teilen Bewerben Herunterladen Clip

Alle Von Manuel Matuzovic Ähnlich Emp

RICK RUBIN The Rick Rubin Interview

youtube.com/matuzoblog

The WebAIM Million

The 2024 report on the accessibility of the top 1,000,000 home pages

Last updated: Mar 28, 2024

[Home](#) > [WebAIM Projects](#) > The WebAIM Million

Related Resources

- [WAVE Accessibility Evaluation Tool](#)
- [WAVE Stand-alone API](#)

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Introduction

For the sixth consecutive year, WebAIM conducted an accessibility evaluation of the home pages for the top 1,000,000 web sites. The evaluation was conducted using the [WAVE stand-alone API](#) (with additional tools to collect site technology and sector data). The results provide an overview of and insight into the current state of web accessibility for individuals with disabilities as well as trends over time.

Note!

Results below are from February 2024—with comparisons to, and trends from, earlier analyses in [2019](#), [2020](#), [2021](#), [2022](#), and [2023](#).

**95.9% of home pages had
automatically detectable
accessibility issues**

**Automated accessibility
testing tools only catch
30-60% of issues**

Why?

**A lack of awareness and
knowledge**

```
var React = require('React');

var message =
  <div class="hello" onClick={someFunc}>
    <div>Hello World</div>
  </div>;

React.renderComponent(message, document.body);
```

Source: youtu.be/GW0rj4sNH2w

HTML



The Elements of HTML

1.<div>

2.<script>

That's it, that's all. #yolo

HTML Tags Memory Test

Paul [+ Follow](#)

View in Editor

HTML Tags Memory Test

How many HTML tags can you remember? 115 to recall...

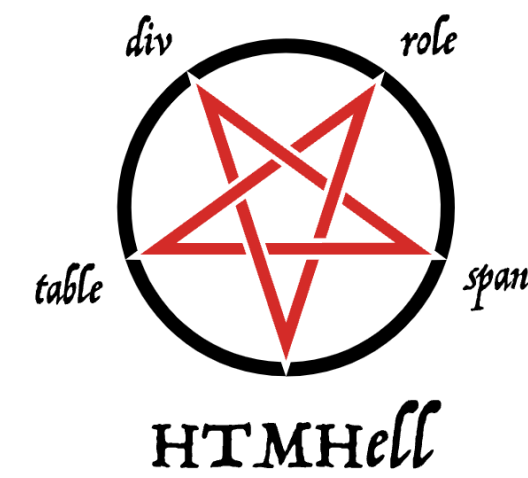
Tag: [Guess](#)

HTML Tags Memory Test by [plfstr](#)

codepen.io/plfstr/full/zYqQeRw

HTML

- `<header>`
- `<footer>`
- `<main>`
- `<section>`
- `<article>`
- `<aside>`
- `<progress>`
- `<meter>`
- `<details>`
- `<summary>`
- `<dialog>`
- `<address>`
- `<button>`
- `<blockquote>`
- `<abbr>`
- `<kbd>`
- `<mark>`
- `<search>`
- `<ins>`
- `<caption>`
- `<track>`
- `<output>`
- `<label>`
- `<fieldset>`
- `<textarea>`
- `<video>`
- ...



A collection of bad practices in HTML, copied from real websites.

#33 make me one (input) with everything

submitted on Aug 27, 2024 by [Moritz Gießmann](#)

```
<label for="textinput">First name</label>
<input type="text" id="textinput" aria-label="First name" placeholder="First na
```

→ [Details and tips on how to fix the diabolic code of #33.](#)



#32 almost a proper close button

submitted on Jul 18, 2022 by [Manuel](#)

```
<button display="flex" role="button">
  <svg role="img" viewBox="0 0 13 13" aria-hidden="true" xmlns="http://www.w3.d
    <title>Close dialog</title>
    <path d="..."> </path>
  </svg>
</button>
```

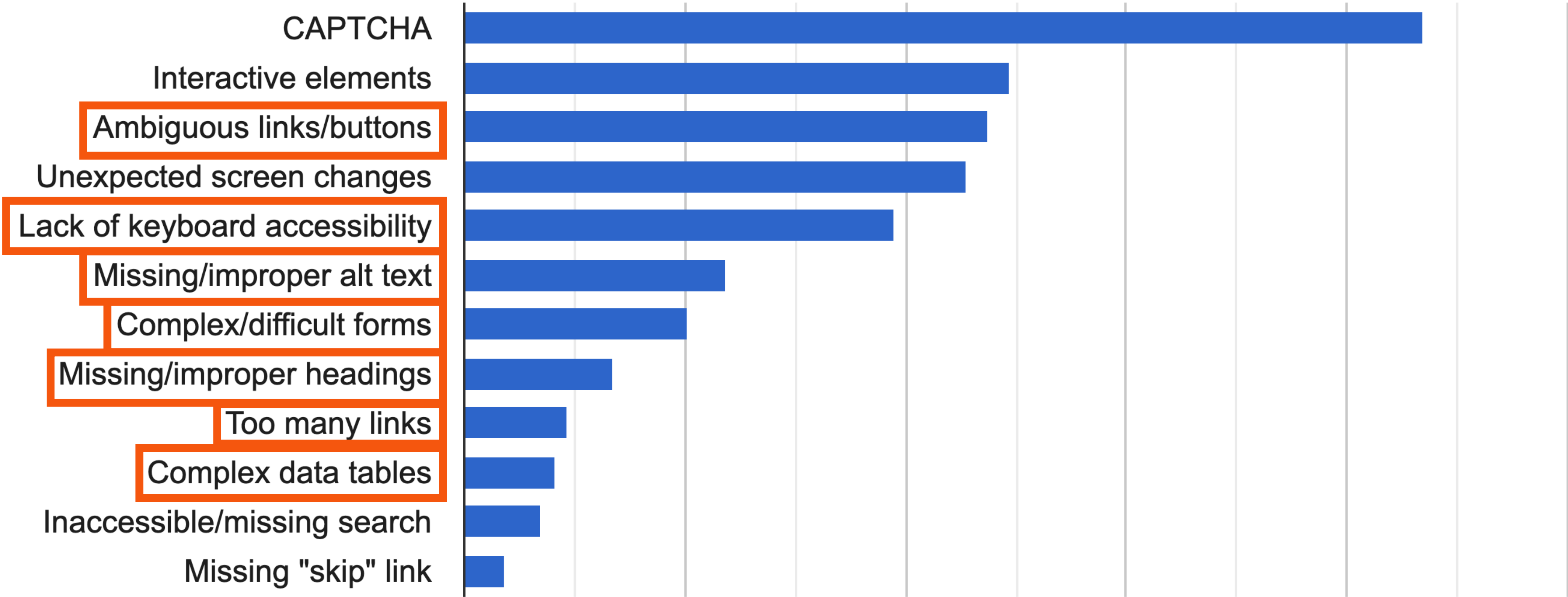
→ [Details and tips on how to fix the diabolic code of #32.](#)

Home pages with most common WCAG 2 failures

WCAG Failure Type	% of home pages
Low contrast text	81.0%
Missing alternative text for images	54.5%
Missing form input labels	48.6%
Empty links	44.6%
Empty buttons	28.2%
Missing document language	17.1%

Source: webaim.org/projects/million

Most Problematic Items



Source: webaim.org/projects/screenreadersurvey10/#problematic

Users!?

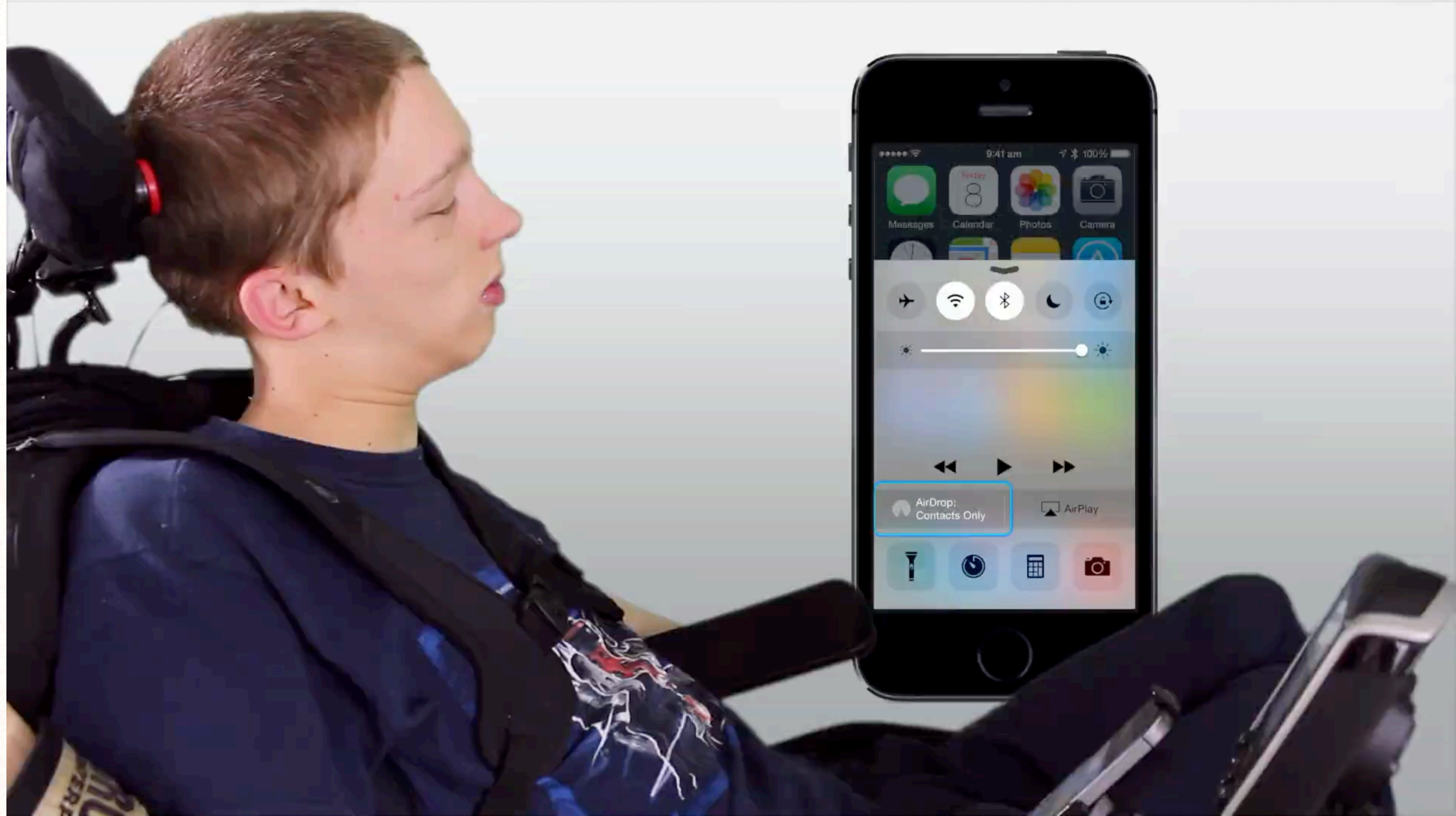
Keyboard



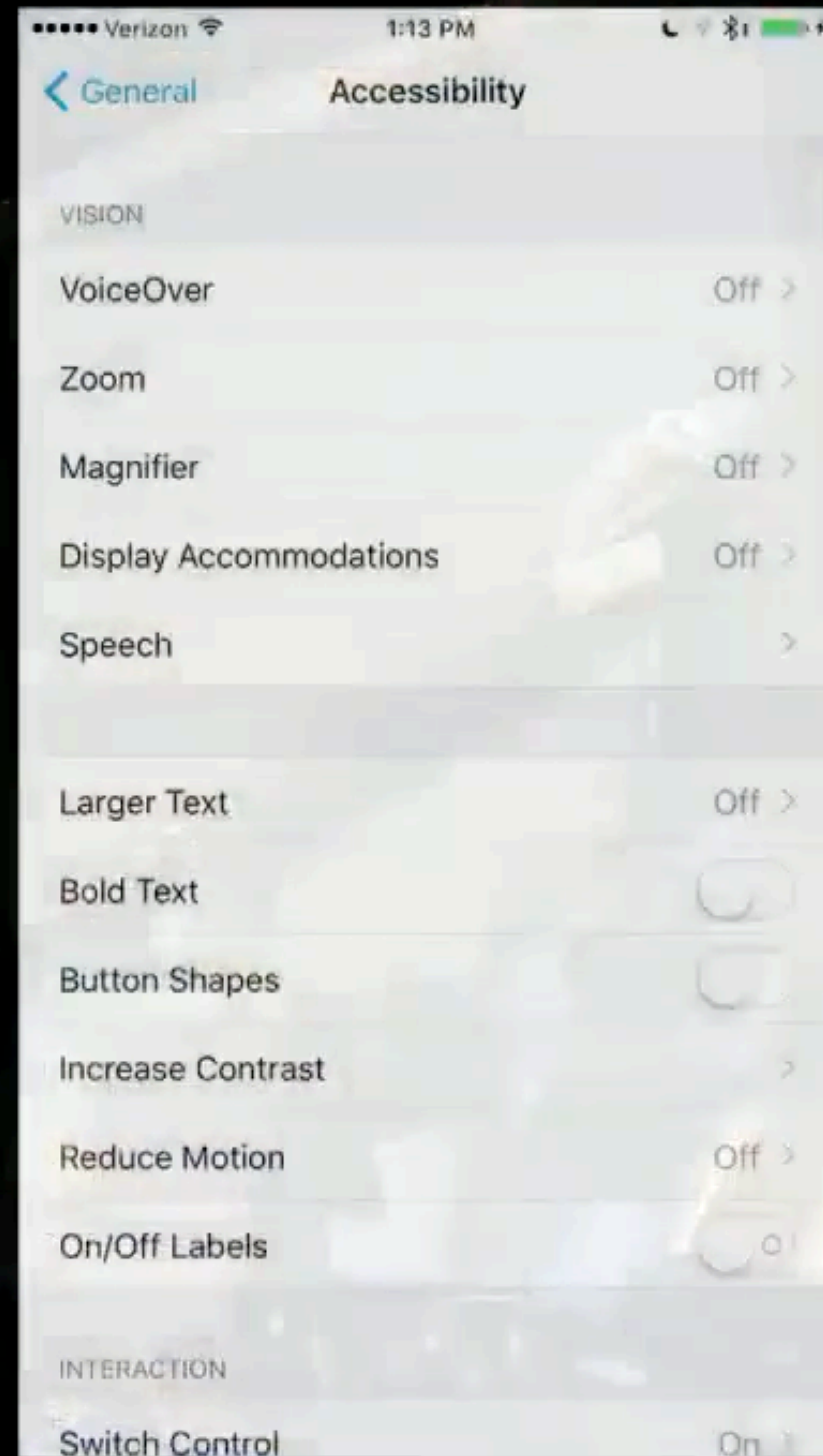
Source: pexels.com



Source: youtu.be/MQYMhTdBcz0



Source: youtu.be/GQKEE9n1lk



Source: youtu.be/kj9Uodcwles



Source: youtu.be/GQKEE9n1lk

Keyboard Accessibility

- Ensure that all interactive elements are accessible via Tab
- Ensure that controls can be activated with keys only
- Use clearly visible focus styles
- Avoid overly complex controls
- Avoid redundant links/buttons
- Use Skip Links if necessary
- Manage focus

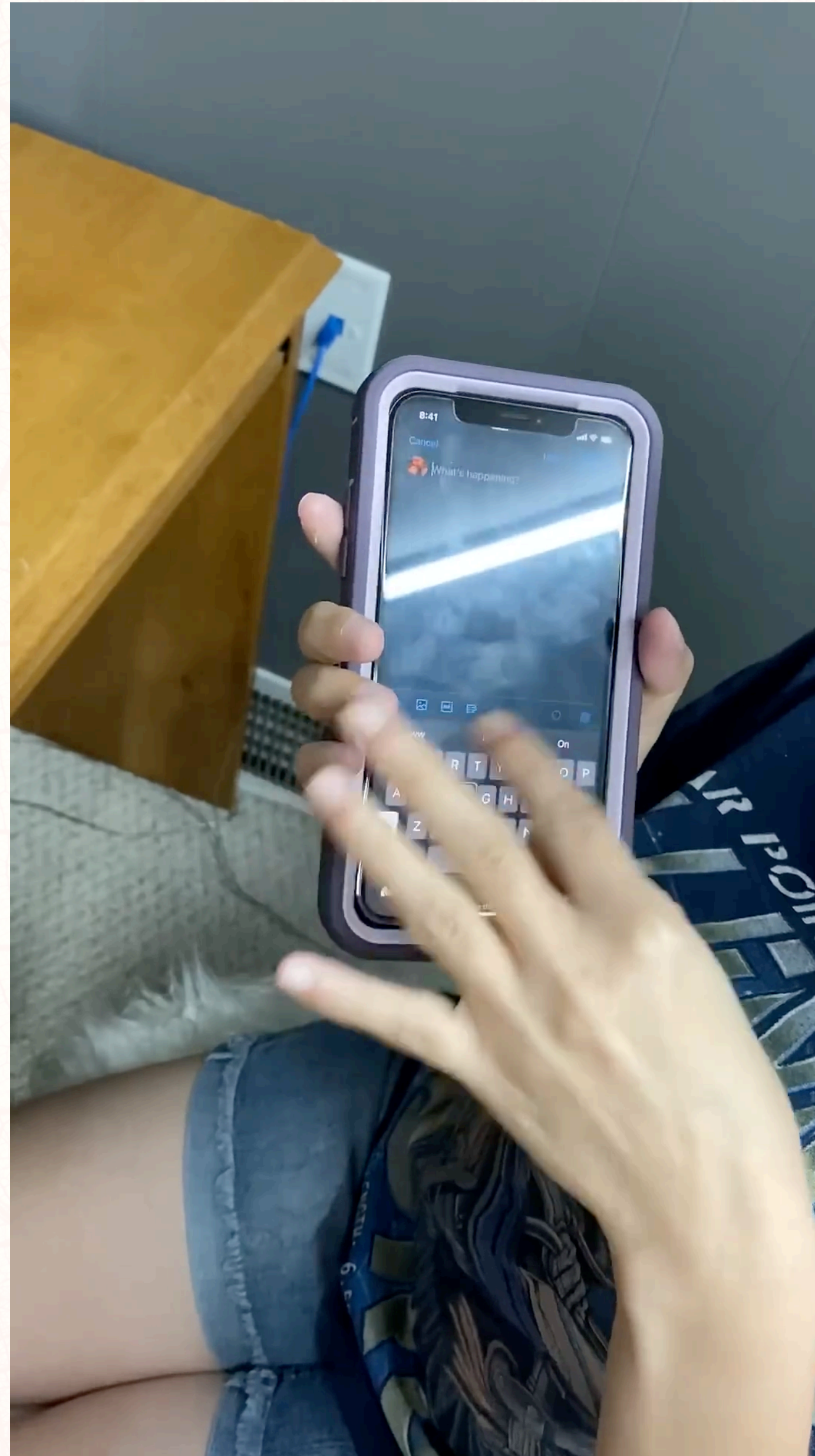
Screen Readers



Source: youtu.be/8Rn5pXCdZWU



Source: [societypix.org/media/category/20](https://www.societypix.org/media/category/20)



Source: youtu.be/wueLXCbm_KY

Screen Reader Accessibility

- Same as keyboard accessibility
- Ensure every interactive element has a label (“accessible name”)
- Offer text alternatives for images and videos
- Use semantic HTML
- Announce changes to the DOM

Zoom

Features

Apps

Customers

Pricing

De



john.smith@acme.com



Source: youtube.com/watch?v=EEN79RRvKqE

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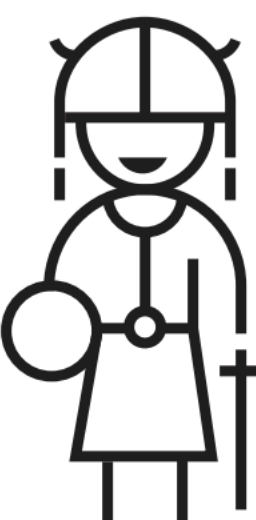
Zoom Accessibility

- **Make websites responsive**
- **Avoid absolute units for type and sizing**
- **Avoid patterns like fixed headers or toasts**

	Permanent	Temporary	Situational
Touch			
	One arm	Arm injury	New parent

See			
	Blind	Cataract	Distracted driver

	Permanent	Temporary	Situational
Hear			
	Deaf	Ear infection	Bartender

Speak			
	Non-verbal	Laryngitis	Heavy accent

Between 2015 and 2050, the proportion of the world's population over 60 years will nearly double from 12% to 22%

Source: [who.int/news-room/fact-sheets/detail/ageing-and-health](https://www.who.int/news-room/fact-sheets/detail/ageing-and-health)

Recap

- Allow people to participate in society like everyone else
- Mouse and touch are not the only ways to use a site
- Keyboard accessibility is not just about keyboards
- Invest in your employees. Pay for workshops and conferences
- Test your websites with automatic testing tools
- Test your websites with manual tools
- Hire accessibility experts
- Work with disabled people

Web Accessibility Cookbook



Creating Inclusive Experiences

The Web Accessibility Cookbook provides you with dozens of recipes to help you build common components on the web, such as navigations, forms, filters, tables, and dialogs, in an accessible manner. Each recipe not only explains how to build things but also why.

Author [Manuel Matuzovic](#) provides the knowledge you need to create accessible web pages, patterns, and components and address your users' varying needs, abilities, and preferences.

“

If the question is *“What do I need to know about accessibility on the web?”* the answer is Manuel’s Web Accessibility Cookbook. This book gets straight into the code. I particularly like the problem / solution / discussion structure. The problems are laid out succinctly, and I appreciate being told why I should care before we get into the details of solving things with code.



Chris Coyier
CodePen, ShopTalk

Order it now!

You can get a printed copy of the Web Accessibility Cookbook at your local bookstore

Source: accessibility-cookbook.com

Homework

- Download axe DevTools for Chrome or Firefox
- or use Lighthouse in Chrome
- Run a test on your own website or the site you're working on
- Fix the issues
- Share your 0 errors or perfect Lighthouse score on social media

Thank you 