

Web Accessibility

Andrew Mok, 2020

What is web accessibility?

Why web accessibility is important?

Everyone benefited from it

Common mistakes

Inspiring read

What is web accessibility?

What is web accessibility?

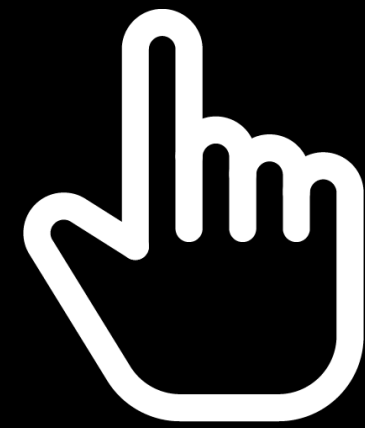


Designed and developed for everyone
including disabilities

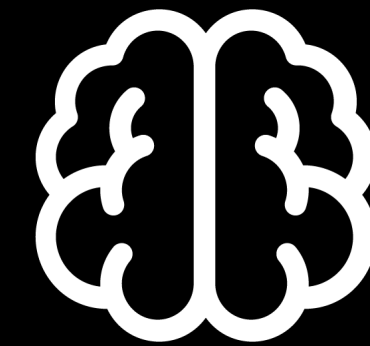
Different kinds of disabilities



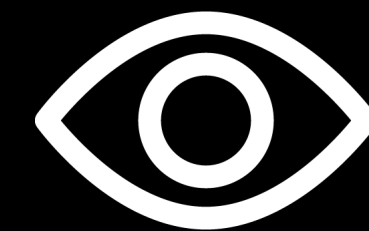
Hearing



Motor



Cognitive



Vision

Why web accessibility is important?

15%

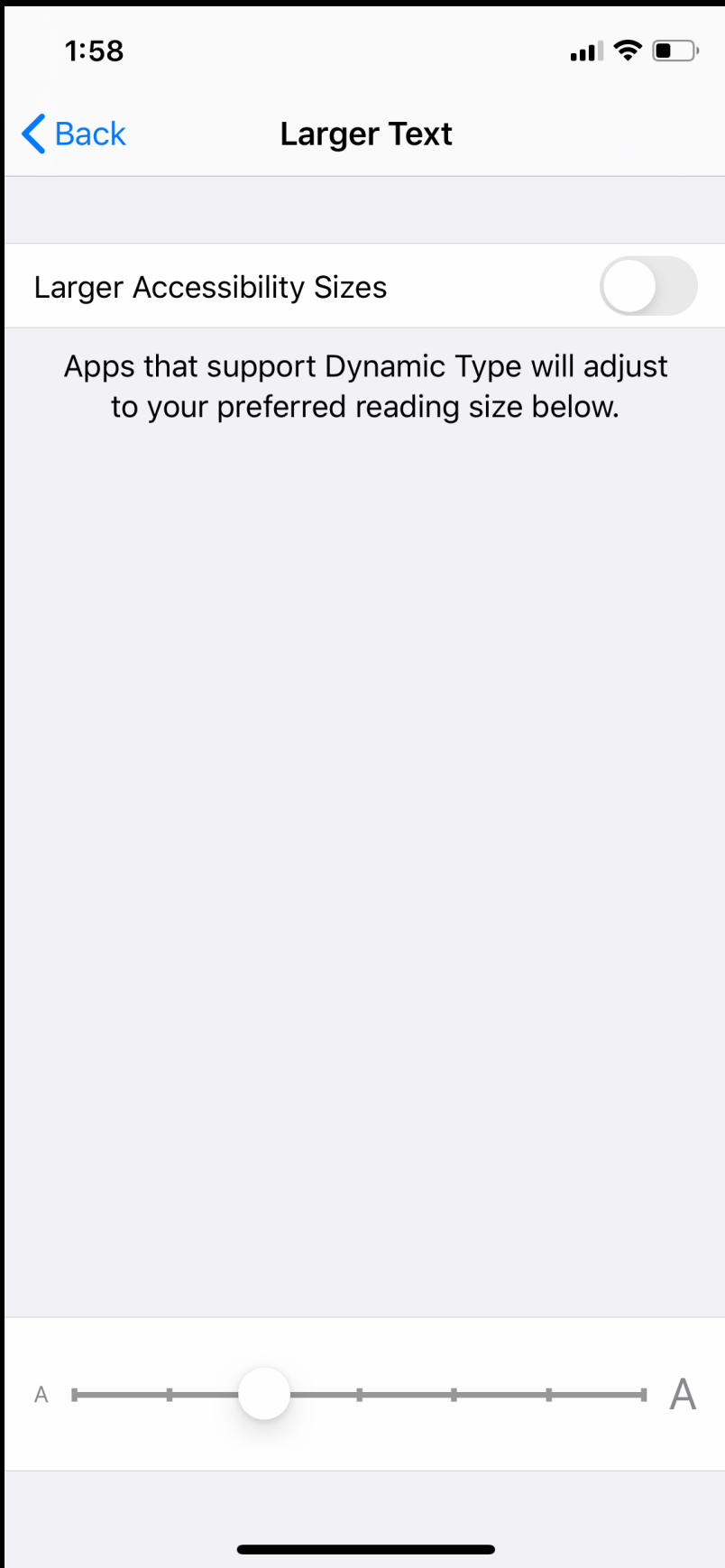
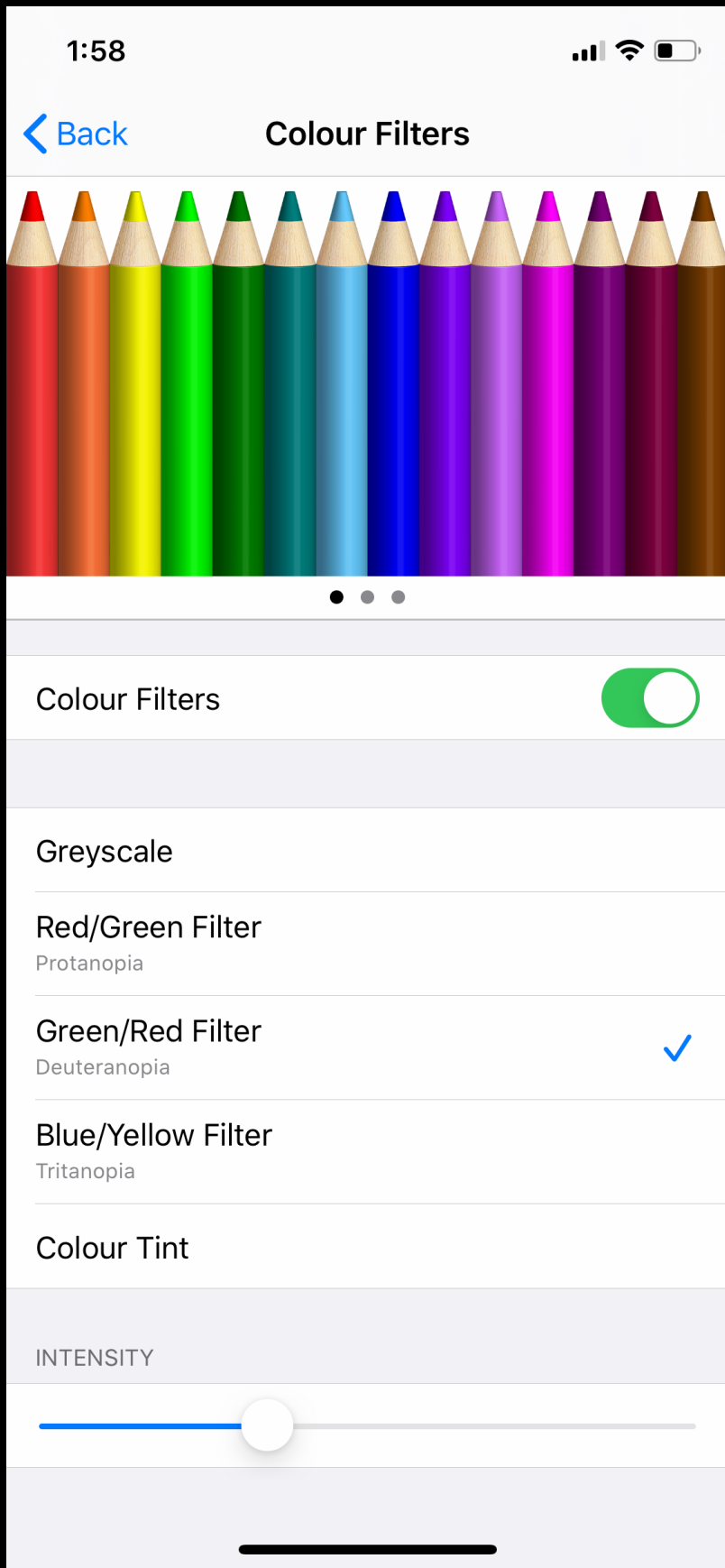
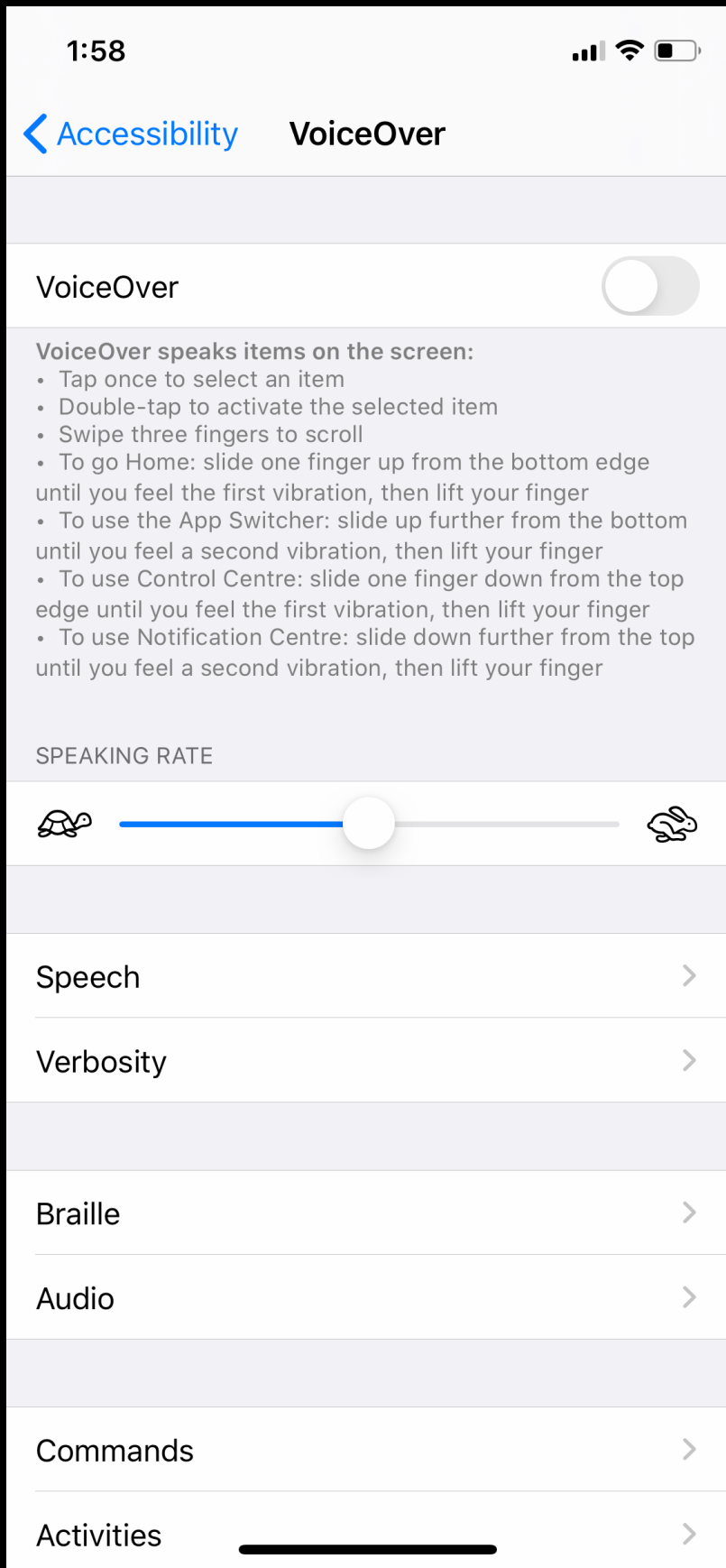
People lives with disability worldwide

<https://www.who.int/news-room/fact-sheets/detail/disability-and-health>

Web is designed for everyone

whatever their hardware, software or ability

Different behaviours



Easier noticed in real world



Hard to noticed in software world

Button

Button

```
<style>
.button {
  border: 0;
  border-radius: 12px;
  padding: 12px 20px;
  background-color: skyblue;
  color: white;
}
</style>
<button class="button">Button</button>
```

```
<style>
.button {
  border: 0;
  border-radius: 12px;
  padding: 12px 20px;
  background-color: skyblue;
  color: white;
}
</style>
<div class="button">Button</div>
```


Hey, just a small portion of
people?

Everyone benefited from it



Aged people



Temporary
disabilities



Keyboard users



Better SEO

Common mistakes

Semantic HTML tags



DO



```
<h1>My heading</h1>
<p>This is the first section of my document.</p>
<p>I'll add another paragraph here too.</p>
<ol>
  <li>Here is</li>
  <li>a list for</li>
  <li>you to read</li>
</ol>
```



DON'T



```
<font size="7">My heading</font>
<br><br>
This is the first section of my document.
<br><br>
I'll add another paragraph here too.
<br><br>
1. Here is
<br>
2. a list for
<br>
3. you to read
```

Semantic HTML tags

<article>

<h1>

<time>

<address>

<aside>

<summary>

<figure>

<sub>

<p>

<nav>

<section>

<sup>

<details>

<figcaption>

<code>

<footer>

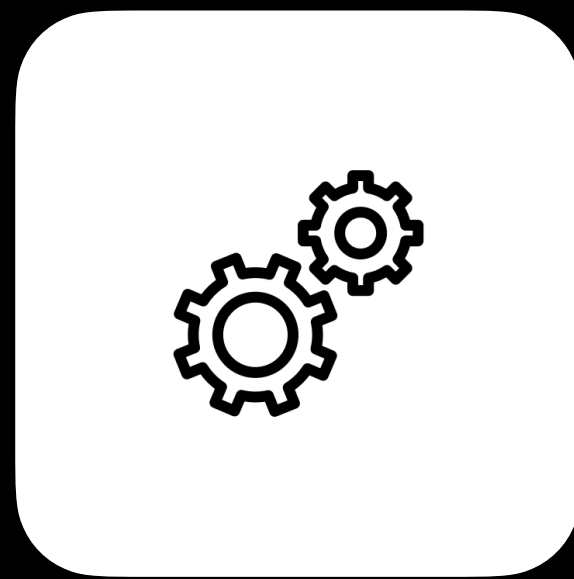
<mark>

<blockquote>

<main>

<header>

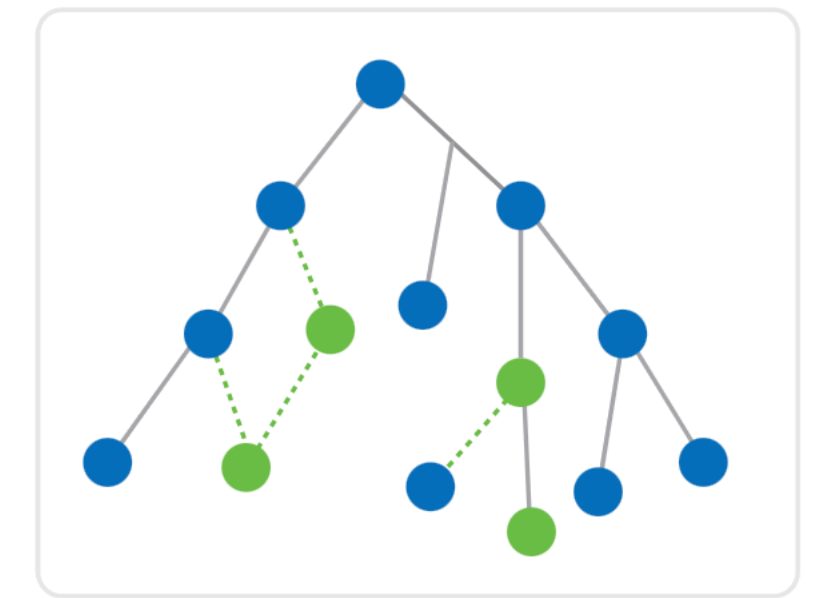
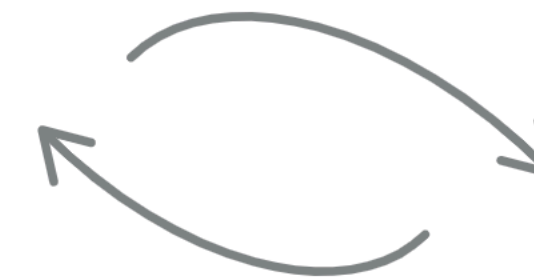
WAI-ARIA tags



```
<i class="icon-cogs" aria-label="Settings"></i>
```

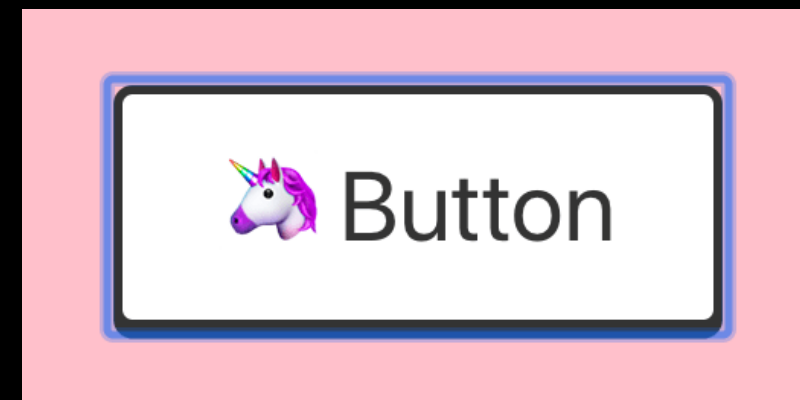


DOM + ARIA



Accessibility Tree

Keyboard navigation



Alt tag or caption for images

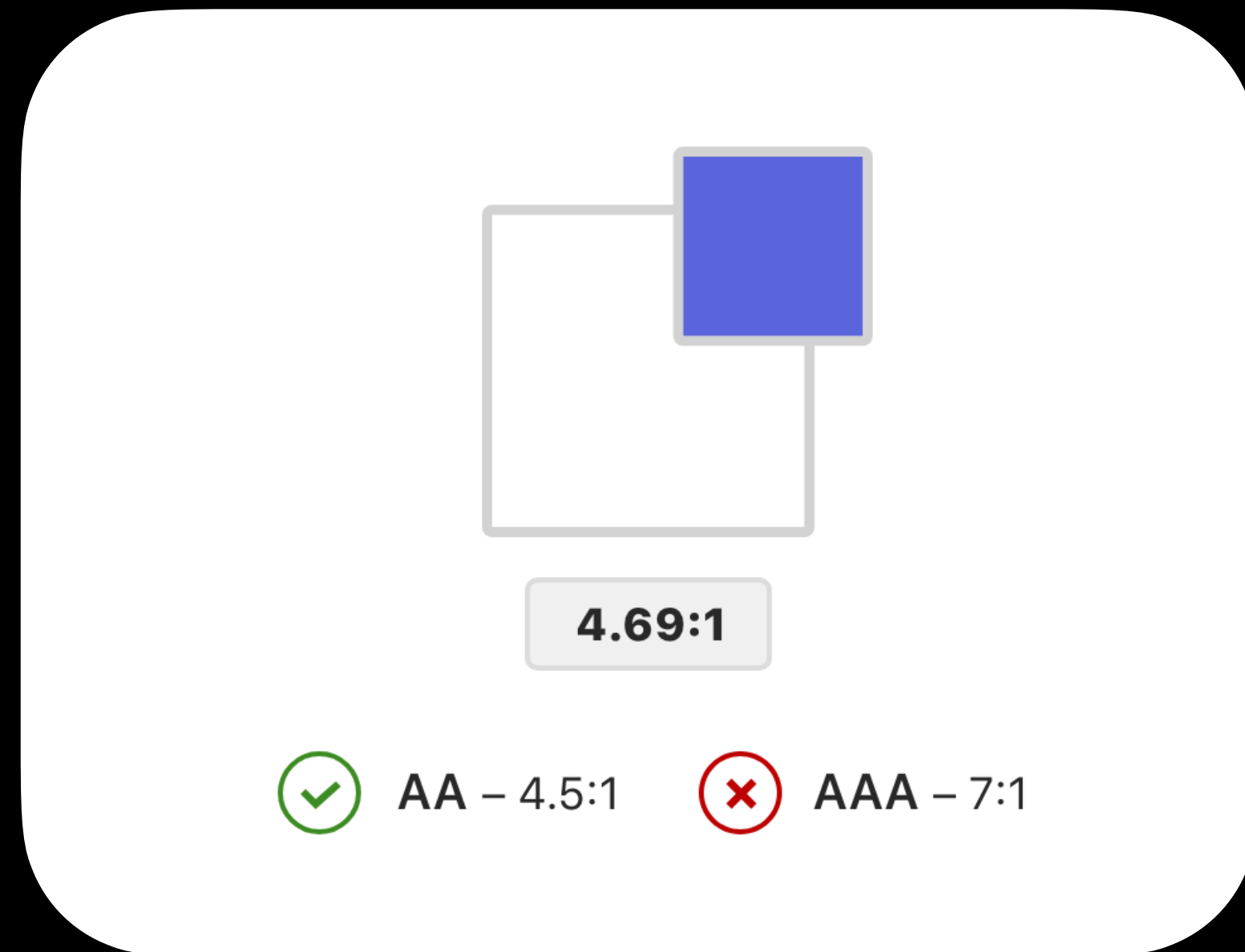


```
<img src="" alt="Caption of image" />
```

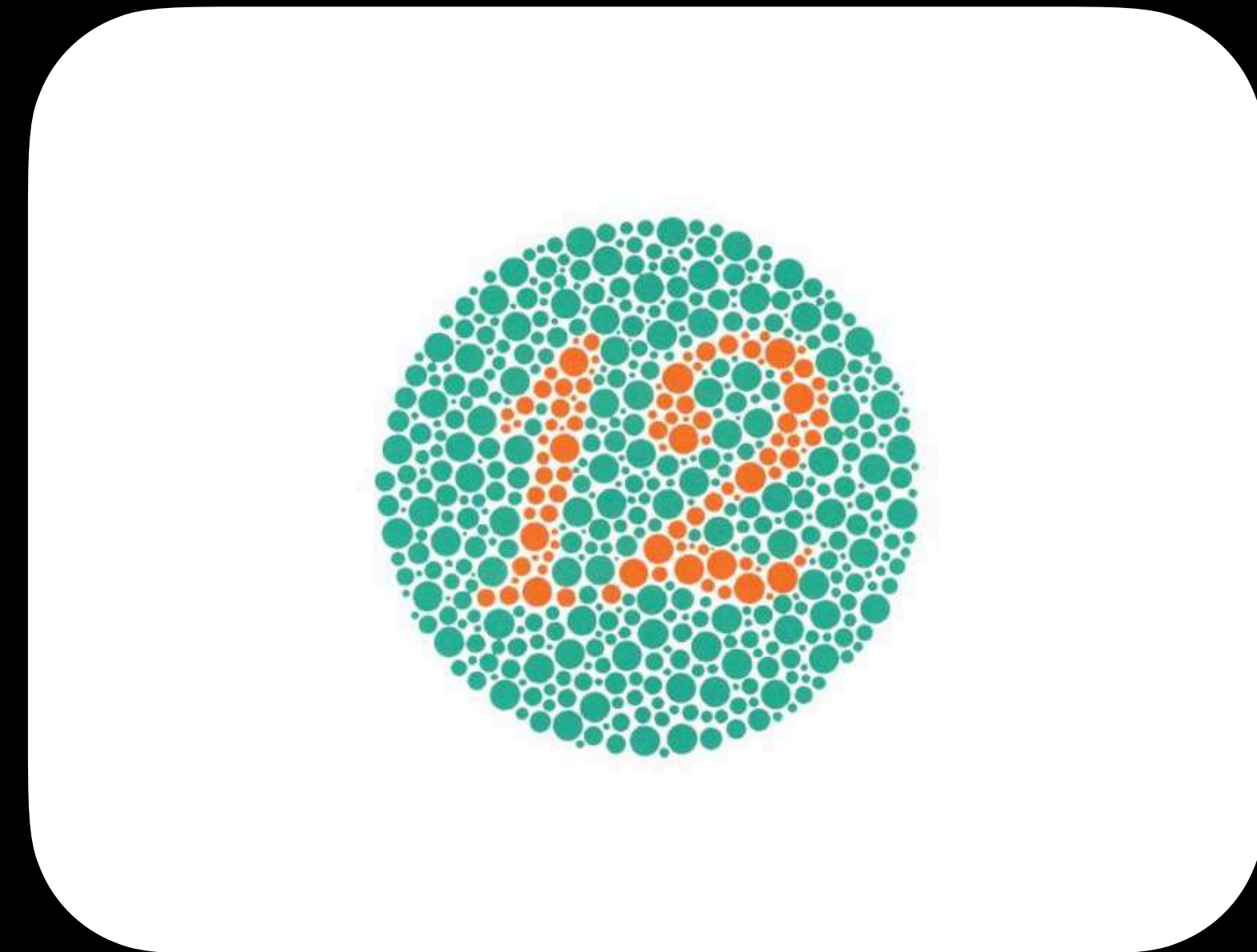


```
<figure>  
    
  <figcaption>Example: Periodic Table</figcaption>  
</figure>
```

Color usage



Contrast check



Colorblind simulation

Do it from the beginning

Apply rules / plugins

- eslint-plugin-jsx-a11y
- axe-core
- Google Chrome Lighthouse (Audit tab)
- Stark (Sketch plugin)
- VoiceOver in iPhone or Mac

Inspiring read

- MDN web docs - Accessibility
<https://developer.mozilla.org/en-US/docs/Learn/Accessibility>
- Google Web Fundamentals - Accessibility
<https://developers.google.com/web/fundamentals/accessibility>
- Accessibility in government - GOV.UK blogs
<https://accessibility.blog.gov.uk>
- The A11Y Project
<https://a11yproject.com>
- A11ymatters
<https://www.a11ymatters.com>



Accessibility for everyone

References

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- Dan Na. (2017). Creating an Accessibility Engineering Practice. Retrieved from <http://a11y.danielna.com>
- Stereobooster. (2019). The Button. Retrieved from <https://dev.to/stereobooster/the-button-3kme>
- W3C. (2020). Accessibility. Retrieved from <https://www.w3.org/standards/webdesign/accessibility>