intopia

Meeting Conflicting Access Needs

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The clickable card saga of 2021



Clickable cards

About the Census

What is the Census?

Every five years, the Australian Bureau of Statistics counts every person and household in Australia. The Census form asks questions like your age, country of birth, religion, ancestry, language used at home, work and education.

When to complete the Census

The next Census is Tuesday 10 August 2021. You can complete your Census as soon as you receive your instructions, if you know where you'll be on Census night.



Information from the Census helps governments, businesses and not for profit organisations across the country make important decisions. It informs planning for schools, healthcare, transport and infrastructure.



Keeping the community safe during COVID-19

The safety of the community and our staff is our highest priority. We're actively adapting our approach to suit local circumstances.



Original card markup

 <div class="au-card__inner">

<h3 class="au-card__title">Census Supporters</h3>

<div class="au-card__description">

Information and resources about the Census Test and ways to help people who might have questions.

</div>

</div>

<div class="au-card__footer"></div>



Recommended card markup

```
<div class="card">
    <h2>
        <a class="primary" href="public/supporters/2021_CS.html">Census
        Supporters</a>
        </h2>
        <div class="text">
            Information and resources about the Census Test and ways to help
        people who might have questions.
        <div class="au-card__footer"><span class="au-cta-link"></span></div>
        </div>
```

Plus CSS pseudo elements to extend hit target over div.card



https://inclusive-components.design/cards/

Usability testing

- Client wanted everything tested by many different users
- In particular we found issues for:
 - Low vision user with ZoomText on Windows
 - Dyslexic user with Speak on iPhone



Video transcript part 1

A zoomed in view of a website with high contrast styles. Our user's cursor is large and yellow. He tries to use the cursor to select the text of a heading, then continues to scroll.

"So that's a big thing, I can't even highlight this top heading. So that would be a big thing for me. Reading this would make me very fatigued, um...

And then these census support, work for... I guess keeping your community safe, opportunities, and probably why it happens. Information and resources about the census and then we go..."

He attempts to select a different heading, which works.

"Oh ok, I can highlight this heading which is good...."

He tries to select one of the card-style links and it doesn't work.

Can I highlight this? No. What if I do that?"



Video transcript part 2

He is able to drag the selection from the heading over the card text, which selects some but not all of the cards.

"Yeah like some websites that, it's kind of like a weird thing you can do. If you can highlight one part you can kind of drag it along, but also that means if I wanted to listen to this middle paragraph I would have to listen to the top and that..."

He indicates the second and third cards.

"... rather than the bits and pieces that I want to."

Andrew: "Right."



Back to the team



Back to the code

Solution must:

- Keep the large clickable area
- Sound useful in a screen reader
- Have selectable text



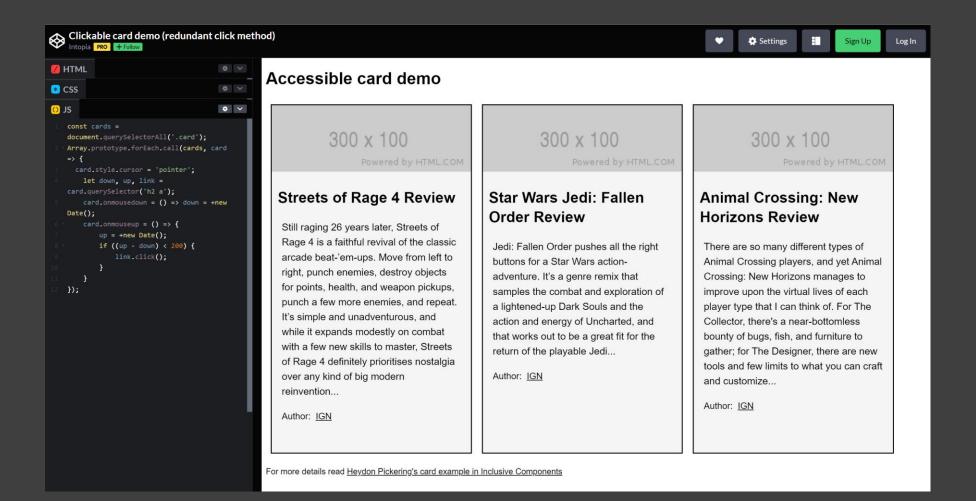
Original article

"It's not highly probable the user would choose to select text from a card/teaser when they have access to the full content to which the card/teaser is pointing. But it may be disconcerting to them to find they *cannot* select the text."



https://inclusive-components.design/cards/

New card method





https://codepen.io/intopia/pen/oNYwOpL

WCAG isn't enough

- Other situations
 - Menu systems and user expectations
 - Multiple fonts and colours
 - Speech recognition vs speech impairment



No assumptions



How to meet multiple needs?



• Any screen size



- Any screen size
- Any orientation (even for native apps)



- Any screen size
- Any orientation (even for native apps)
- Mouse, touch, keyboard



- Any screen size
- Any orientation (even for native apps)
- Mouse, touch, keyboard

https://web.dev/learn/design/



• Basic WCAG contrast



- Basic WCAG contrast
- Test in high contrast themes

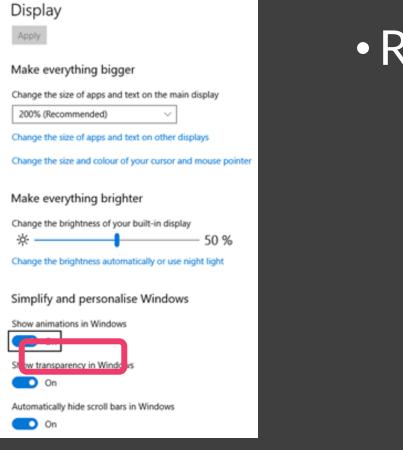




- Basic WCAG contrast
- Test in high contrast themes
- Dark mode?

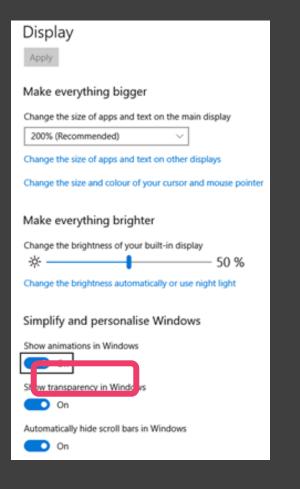






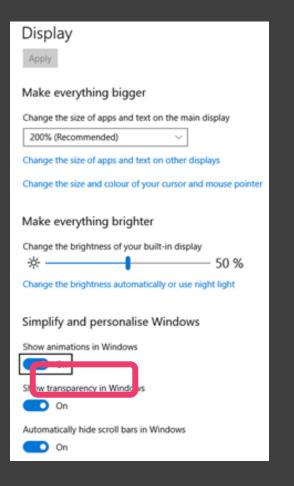
Reduced motion





Reduced motionEvery platform





Reduced motion
Every platform
CSS and JavaScript media queries



Allow multiple inputs/outputs

...





My absolute joy about Google Translate's new Transcribe feature for iOS withered and died as I failed to escape a bias-driven abuse of screen reader detection that enforces a special rule just for Blind users. Here's what occurred.

7:14 AM · Nov 15, 2021 · Twitter for iPhone

63 Retweets 7 Quote Tweets 144 Likes



https://mobile.twitter.com/ChanceyFleet/status/1460023280983842821

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Where to from here?



WCAG extras

Check AAA and upcoming criteria when designing:

- 1.4.7 Low or No Background Audio
- 2.4.9 Link Purpose (Link Only)
- 2.4.10 Section Headings
- 2.5.5 Target Size
- <u>3.2.6 Consistent Help</u> (version 2.2)



WCAG extras

Check AAA and upcoming criteria when building:

- 2.3.3 Animation From Interactions
- 2.5.6 Concurrent Input Mechanisms
- <u>2.4.12 Focus Appearance (Enhanced)</u> (version 2.2)
- <u>2.5.7 Dragging Movements</u> (version 2.2)



WCAG extras

Check the taskforces:

- Cognitive and Learning Disabilities
- Low Vision
- Pronunciation

WAI taskforces



Research the tools

- What happens when multiple tools are running?
- Project Euphonia and Common Voice
- Emerging tech like VR and AR



Learn from users

Usability testing



Learn from users

- Usability testing
- Chat online with people with disabilities



Learn from users

- Usability testing
- Chat online with people with disabilities
- Then do more usability testing



Let's chat



Remember there is more to accessibility for users than just meeting WCAG!

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🍠 @Intopia 🛛 in Intopia



✓ <u>hello@intopia.digital</u>