Introduction to Accessibility

Tools, tips and tricks

By Bev Walter

Accessibility is Inclusivity

It means all people can do what they need to do, in a similar amount of time and effort as someone that does not have special requirements.

Equity, Everybody, Any where, Community, Diversity, Universality, Usability, and Inclusion are all ACCESSIBILITY words.

Misconceptions

1 It's difficult and complicated

2 It requires technical knowledge

3 It's expensive

4 It doesn't **<u>REALLY</u>** matter

Inclusion

Technology doesn't make access difficult. People do. Talk you your users and be open to the learning that will bring.

Identify as disabled at some time

25%

Minority groups collectively make up over

½ NZ

Who are you willing to exclude

???

Main principles

1 **Perceivable.** That a user can see what they need to on a page.

2 **Operable.** That a user can use the page as intended.

3 **Understandable.** That a user understands the page and what they need to do/achieve on it.

4 **Robust.** That your page doesn't break - especially for those using assistive tech.

Guidelines

These come from W3C or World Wide Web Consortium

Previously we were working to World Content Accessibility Guide 2.1

Updated in June 2021 to the current WCAG guide 2.2 - introducing 9 new recommendations
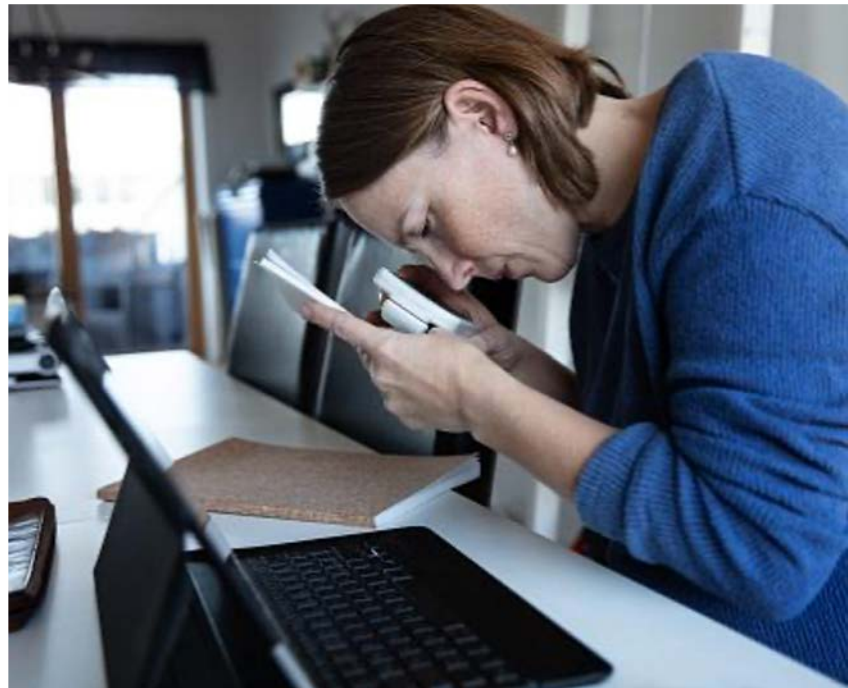
Next year we expect WCAG 3

Tools and tips

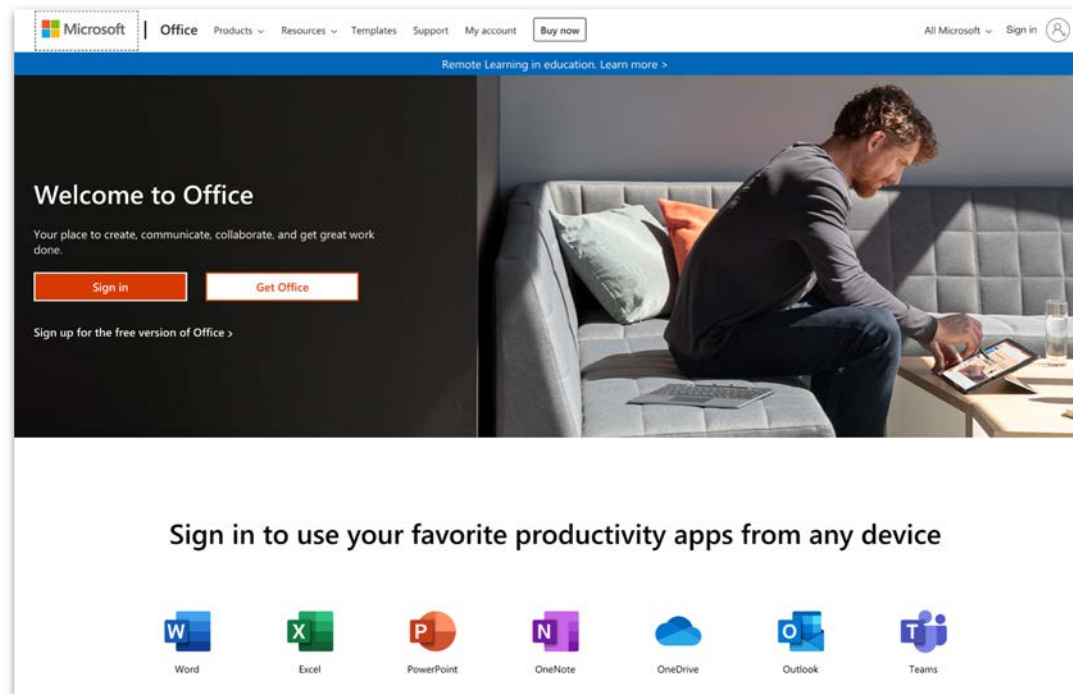# Printed documents, and presentations

- Plain English and readability
- Size of text
- Formatting and grouping
- Imagery and representation
- Sound transitions

Microsoft suite

- **Word**
  Accessibility tools

- **Powerpoint**
  Guides on how to create
  better presentations at the
  British dyslexia association
  (www.bdadyslexia.org.uk)

Social media

- Facebook
- Youtube
- Instagram
- Twitter
- Tiktok
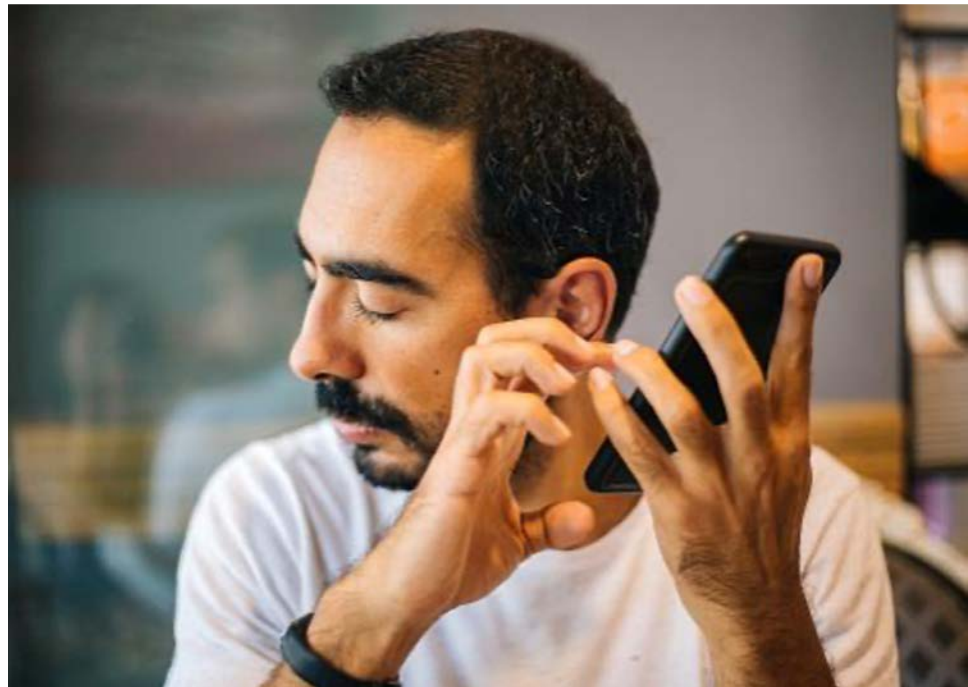
Quick digital checks

- Unplug your mouse and tab
- Zoom in to 400%
- Turn images off in your browser
- Use a contrast checker
- More easy checks at www.w3.org/WAI/test-evaluate/preliminary/

Google applications

- **Google Apps**
  Are preferred by the
  Neurodiverse community

- **Chrome & Developer Tools**
  It has built Accessibility
  checkers and automated
  testing with Lighthouse

trademe.co.nz/?gclid=CjwKCAjwn6GGBhADEiwAruUcKuxj8SfVS8UpCliAwucl_E2BLkWyhwYEWlk6-h3AOMH3G5fdPQTrHBoCE8wQAvD_BwE&gclsrc=aw.ds

div.sat-nav   1198 × 54
Color   ■#333333
Font   14px "Story Sans"
Background □#F6F5F3
Padding   8px 0px 0px

ACCESSIBILITY
Name
Role   generic
Keyboard-focusable ○

Trade Me   Register   Log in
                  2:44 pm, 16 Jun

ademe

Browse ∨   Community ∨   List an item ∨   My Trade Me ∨

Search   in all categories ∨   Q ∨

♡ Favourites ∨   Watchlist ∨   🛒 Cart

Marketplace   Jobs   Motors   Property

Antiques & collectables   Business, farming & industry   Gaming   Mobile phones   Last chance
Baby gear   Clothing & fashion   Health & beauty   Pets & animals   Services
Books   Computers   Home & living   Sports   Stores
Building & renovation   Electronics & photography   Jewellery & watches   Toys & models   View all categories ⟩

Winter with trademe   Shop now ⟩

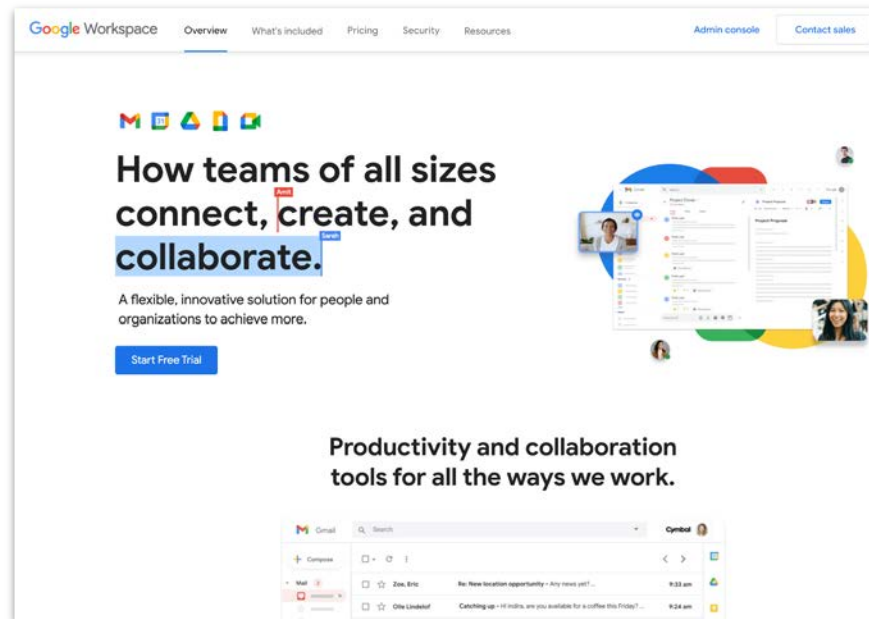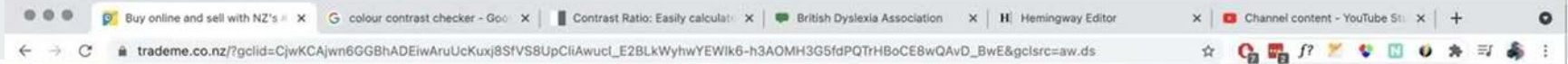## $1 reserve auctions in all regions ∨   View all ›

FAULTY Samsung F-...   Suzuki Swift Complet...   Country Road Fringe...   Bonds Swim Suit Size 2   Renovation Leftovers
$1.00 $5.00 $1.00 $1.00 $1.00 $1.00

Cool auctions   View all ›

LIBBY

Elements   Console   Sources   ⊘ 11 ⚠ 1   ✿   :   ✕

<!DOCTYPE html>
<html lang="en">
▶<head>…</head>
▼<body screen_capture_injected="true">
  ▶<iframe src="https://secure-nz.imrworldwide.com/storageframe.htm
    l" id="LOCSTORAGE" scrolling="no" name="empty" hidden="true"
    style="width: 1px; height: 1px; position: absolute; top: ~7px; lef
    t: ~7px; border: 0px;">…</iframe>
    <!-- Google Tag Manager -->
  ▶<noscript>…</noscript>
  ▶<script>…</script>
    <!-- End Google Tag Manager -->
  ▼<div id="top-of-page" class="PageOuter chrome">
    ▶<div class="sat-nav">…</div>
    ▼<div class="page-body">
  ... ▶<div id="container">…</div> == $0
      ▶<div class="site-footer">…</div>
    </div>
    <script src="/JavaScript/TMCommon-bdl?v=AbYALb16lGAPeUcF6mkASuB
    d5BP3au1vHHo889al6k81">…</script>
  ▶<script type="text/javascript">…</script>
    <script type="text/javascript">var currentCid=0;</script>
    <script src="/JavaScript/Ads/Krux-bdl?v=VBsNAQuTQ-RJh7kid9DIGsE
    KVCtYxpidsQcQTAhV5j81">…</script>
  ▶<script type="text/javascript">…</script>
    <script src="/JavaScript/Ads/Dfp-bdl?v=ay0F35bzS3zwYRcQSdauMFse
    P8nQHMfUA0DiCqZF6eE1">…</script>
  ▶<script type="text/javascript">…</script>
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    <script src="/Javascript/Homepage-bdl?v=FVcb_5833u0aUM8xpbQjZiI
    kUq5z9txc6pNZZDra3TY1">…</script>
    </div>
  ▶<script type="text/javascript" id=…>…</script>

... html   body   div#top-of-page.PageOuter.chrome   div.page-body   div#cc ...

Styles   Computed   Layout   Event Listeners   DOM Breakpoints   »

Filter   :hov .cls + ▣

element.style {
}

html, body, div, span, applet, object,   new-site-20_48qJf3p81:6
iframe, h1, h2, h3, h4, h5, h6, p,
blockquote, pre, a, abbr, acronym, address, big, cite, code, del,
dfn, em, img, ins, kbd, q, s, samp, small, strike, strong, sub, sup,
tt, var, b, u, i, center, dl, dt, dd, ol, ul, li, fieldset, form,
label, legend, table, caption, tbody, tfoot, thead, tr, th, td,
article, aside, canvas, details, embed, figure, figcaption, footer,
header, hgroup, menu, nav, output, ruby, section, summary, time,
mark, audio, video {
    margin: ▶ 0;
    padding: ▶ 0;
    border: ▶ 0;
    font: ▶ inherit;
    font-size: 100%;
    vertical-align: baseline;
}

div {   user agent stylesheet
    display: block;
}

Additional help

- Hemingway app
- Deque university
- Axe automated checker
- Bookmarklets
- Your voice. Talk about it!

● ● ● | H Hemingway Editor × | H Hemingway Editor × | Accessibility Resources and C × | Deque Color Contrast Analyzer × | JavaScript Bookmarklets for A × | +

← → C ⌂ dequeuniversity.com/color-contrast ☆

▦ Apps ▤ Sewing ▤ Downloadables ▤ EDA ▤ Web ▤ Gurgl ▤ Randoms ◯ VSTS ⊕ Bujo inspo ▤ Booking.com | Ge... ▤ Bach ▤ 2019 ▤ Accessibility ▤ 52 ▤ 2020 ▤ Permaculture ▤ TEC links » ▤ Reading List

Online Courses   Instructor-Led Training   Resources   Product Documentation

<h1>Deque Color Contrast Analyzer</h1>

Free online tool for evaluating color contrast according to the Web Content Accessibility Guidelines (WCAG).

Color Contrast Analyzer

Foreground Color

Hex:	RGB:	Choose:	Name:
#FFFFFF	255, 255, 2		white ▾

Adjust Lightness : 100%

Background Color

Hex:	RGB:	Choose:	Name:
#0000FF	0, 0, 255		blue ▾

Adjust Lightness : 50%

Result

Small sample text.

Large sample text.

ⓘ <h2>Color Contrast Requirements</h2>

As explained in the Web Content Accessibility Guidelines (WCAG), people with low vision require sufficient contrast for the following:

1. **Text and background** (see WCAG 1.4.3 and WCAG 1.4.6)
   - Examples: regular text, text embedded in images (which is generally bad practice for multiple reasons)

2. **Graphical objects, user interface components and states** (see WCAG 1.4.11).
   - **Graphical objects:** icons, font icons, etc.
   - **Components:** the boundary or borders between buttons, menu items, form controls and inputs, etc.
   - **States:** selected elements, elements with keyboard focus; expanded vs. collapsed, active vs. inactive, etc.

Proposed solution

Many accessibility guides out there are too prescriptive - making it seem like a checklist, too aspirational - painting a utopian picture that doesn't drive action, or too charity-driven - driving the point that people with disabilities are to be pitied.

Inaccessible products are broken products.
The first step to fix them is to give a damn.

Actions

1 Talk about it

2 Stay curious

3 Baby steps

Thank you.