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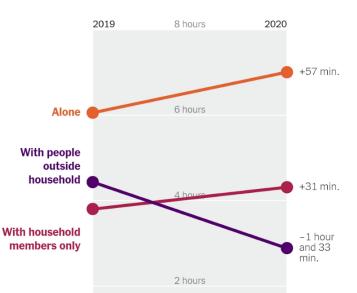


The Pandemic Changed How We Spent Our Time

By Ben Casselman and Ella Koeze July 27, 2021

A lonely year

Average time spent per day during waking hours, May through December in 2020 vs. 2019



Accessibility Dividend: Learning that Leaves No One Behind in a Post-pandemic World of Higher Education





Expert Speaker

David Berman, CPWA, CPACC, WAS

Every link I mention is available for you to launch at: http://www.davidberman.com/accessibilitylinks

...or at this QR Code:



facebook.com/davidbermancommunications in linkedin.com/in/bermandavid c twitter.com/davidberman



Covid-19 has silver linings

The common enemy has made us stronger.



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davidberman.com



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00:00:03.000 --> 00:00:05.900 align:m in order to deal with this pandemic.

00:00:06.000 --> 00:00:09.900 align:m We fund them to the tune of tens of m

00:00:10.000 --> 00:00:12.300 align:m At the same time we do need to find

00:00:12.400 --> 00:00:14.400 align:m answers to how this happened so

00:00:14.500 --> 00:00:16.500 align:m we understand how to...

Ln 16, Col 32

100%

Pandemic's silver linings for the classroom: remote learning vs. distance learning

Courses benefitted from being forced online.

Many students

benefit when they can choose:

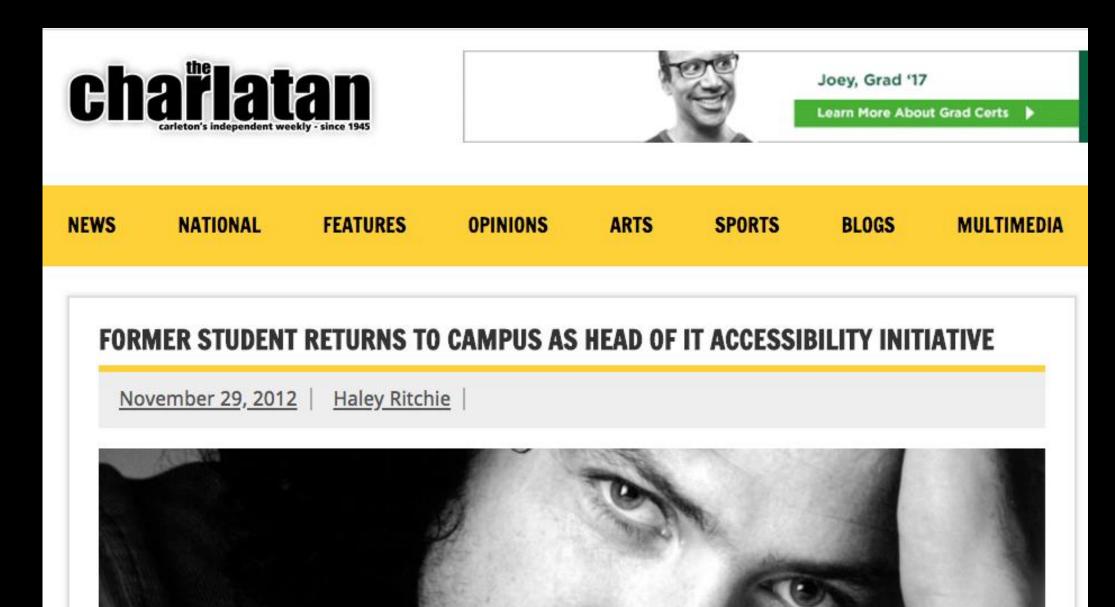
- when to learn
- pace of learning
- watch again
- customized modes



Your first week in higher ed: David in Carleton University's tunnels



2018: Carleton Access Network



1984: Ottawa





with your father, a thought about this. t his father, espe-

onal cabaret is all no longer doing

was his desire to bring the In hack into Ottawa high Ten or twenty high schoole

understanding of the teachers was

unemployed while others are John Belushi, Ed Asner, Dan Aykro



The Charlatan

Ronald: Peace in our time Margaret: A damn fine lady Brian: A hope for the future

(CLUSIVE)

e pages 12-13

INTERVIEWS



GLEBE LIBERATION ARMY. PHINT EVERYTHING WIND AND BESTING, WE HAVE YOUR 16-YEAR-GLD DAUGHTER, TAWNY, AND YOUR DOG MUFFIN. HAPPEN TO THEM. CADLE GAPLIGT KAPEESHT

MISTER EXTORMIONIST FUBLIC WITZALIIIIIII

CUSA, Kinsella taking legal action

NEWS

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983

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Jim Davidson

Debra Ann Yeo Ken Magor Steve Mazey Kim Carter Rob Ferguson Bethany Keddy

Patrick Mikhail

Mark Nicholson

Alisa Priddle ionnie Shulmar Sharon Smith Chris Wattie

Jane Antoniak Mark Crestohl

Shelley Ireland

stopher Johnson Roger Theriault

Stephen Lee

een Murray

CTION

Kim Jarmyn

Jeff Hal

Kinsella, are taking separate are really seeking is an apology my chair."

legal action against Women's "to ensure that the situation is Magnet said he is "not wor-Centre lawyer Joseph Magnet corrected." Centre lay the legal action. Hon is being under written by its ander texary and control of the legal action. Hon is being under written by its ander texary and control of the legal action. It is being under written by its ander texary action is b and clother and by Magnet in one and he in particular, were court to substantiate the full for out of students' association allegently make the station's news reports. slandered by comments made by range of remarks that Warren funds.

high parties under the Libel Act report. Magnet referred to CUSA's said. "I'm sure the Carleton far legal fees would likely not hired Magnet to defend their incomplaining of the supposedly handling of its review of the students would be happy to amount to much "because our terests. defamatory remarks and warn- Women's Centre and attributed know what their government did contact with the lawyers has ing that lawsuits may be launched to Kinsella remarks the president or did not do with respect to the been very minimal.

ays he didn't make However, Kinsella said what Kinsella said when he saw the Meanwhile, CJOH confirmed chapter in a dispute which CISA AND ITS PRESIDENT, WARREN he and the students' association broadcast he "just about fell off it has also been served under the stretches back to this past sum-

ried" by the legal action.

Notices have been served to Magnet in the Oct 12 news did or did not make," the lawyer However, he added that so threatened legal action and

Women's Centre." Libel Act.

mer. The Women's Centre had Kinsella said his own legal ac- complained when it was put tion is being underwritten by his under review, and part of its The conflict erupted again

The actions are the latest

last month when the centre

Unions asked to vacate Unicentre

hy Andrea Prazmowski

asked two of the unions on campus to move out of their offices on the fifth floor of the Unicen-

association Warren Kinsella said made in July

the unions have rejected

2424, which represent Carleton's The deal was made after the

Crafts area, plus room 501. At

unions learned of jected the offer. They say the on campus. at the end of the set of the set

CUPE 2424 business agent Stuart Ryan says his union will be meeting with President William Beckel on Tuesday to talk about the space CUPE 2424 business agent other river says in soliton the office from the Unicentre to Res Commons. The union doesn't want to move, situation on campus that has the union slated to move its office from the Unicentre to Res Commons. The union doesn't want to move. a the end of the summer, president confirment the 600 support staff and 700 twice since july 1980, with the the 600 support staff and 700 twice since july 1980, with the move to room 501 taking place.

ling to move out before but he will keep looking. cure from the centre of the uni- them will be coming to us for me 1984 if Beckel meets certain 2424 business agent Stuart Ryan versity." said Kinsella. "But 1 any

The end of the summer, the 600 support staff and 700 twice since july 1950, with the negotiations carried on in The Services Review Com-pendent confirmed the in-TA's, most of whom work near move to room 501 taking place. September by the other groups mittee [SRC] of CUSA is now two-and-a-half years ago. using the Unicentre 'They all assessing cams' needs and services and ser

Beckel has said he does not '1 can understand some of have the space they need,' he vices. sac Chairman David atyne said the unions have any other room available, their concerns about being away said, "and I don't think any of Plewes said the group could have

THE PRESIDENT OF CARLETON HAS The unions' lease on room

501 does not expire until July 1, 1984, but President William Beckel has asked them to leave "as early as possible." The president of the students'

Beckel has agreed to give the rooms to CUSA because of a deal But the switch could take longer than anticipated, because

Beckel's offer of alternate office space in the Residence Com-Room 501 is controlled by the university administration and is shared by CUPE locals 2323 and

teaching assistants and support staff, and the Coordinator of the Program for the Disabled. Kinsella said Beckel agreed to give the offices to the students' association on the condition cuss find room for the Disabled Coordinator.

university decided to take over the Arts and Crafts workshops on the third floor of the Unicenhe. In exchange for giving up the space, Kinsella said Beckel promised him part of the Arts and

time, Beckel said CUSA hould have control of the room Business manager for CUPE , Morna Ballantyne, said

Post WW2 University of Illinois puts curb cuts on campus



1971: UC Berkeley students get their city to install curb cuts



1977: "504 Sit Ins" across America



1988: Gallaudet University

The Broadc The Red and Road and the Red High Target Street, Spins Review, Street A Deaf President? Yes, De which the Automatic Distances of an internal own with 7 King' Ann Courts and the Post of th and improvement and improve and under and had Station in the Workshop or other states. or state strate on Table ordered. Sund from Local Division reprint of Associate and or no. Case and "here" nor named Scients in men and is Date in work over at well. Barrisdy Spilland, Inc. influence in the second permeters of Farmer of the second second the state of the state of the and the state of the second Ox. www.weilinibul owned, have detuned DEA whenin and hade, and Standar areas announcements. Terror & Collection Astro. Roaders Advance Low outo menor wines, or land do dod page S. Property Parent, Sciences, Str. Springer of Street or other Street of Street o NAME AND ADDRESS OF TAXABLE PARTY. Station of Design The Gallandet President Course in gaugine sur Sec. 4 All concepts of sourand and a second the Name & Station of the Original Station of the STREET, "BIT STREET, non-factor of the supervised and the burnership makes in the other other. of Collection Collections of the Local Collection of the Addition of Collection Collection of the Addition of and shakes Ad of son so that? they'r a to uport, and standard inmanue or faire de la composité la radiant, painant cali paradai angénen sité pad de paraté Torining. ness Grante and stands Prove data NOW insignable spins strategy Au 2.00 \$ which are live there and and the second our parties of a spring of and of a data property of the local of particular sources and the these proper new proof for and a first viscolar designed Colony Law Annual Annual on other reduced of the state of that and a read and address of of the local division of the local divisiono strends in a subscription of the local division of the local divis in particul address of their IN ALL DR.

1990: Washington

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S.2345 100TH CONGRESS To establish a clear and comprehensive prohibition of discrimination on the basis IN THE SENATE OF THE UNITED STATES Mr. WERCKER (for himself, Mr. HARKIN, Mr. SINON, Mr. STAFFORD, Mr. KEN-NER, Mr. DODD, Mr. MATSUNAGA, Mr. CHAPPE, Mr. KEREN, Mr. PACK-WOOD, Mr. LEAMY, Mr. DOUTER, Mr. CRAMMANN, and Mr. DOUBLET, Mr. NEON, Mr. LOODS, Mr. MATSUNAGA, Mr. CRAFFE, Mr. KEEEN, Mr. PACK-WOOD, Mr. LEARY, Mr. INOUVE, Mr. CRANSTON, and Mr. DOLE) introduced the following bill: which was read twice and referred to the Committee an Lebor and Human Resources

A BILL

To establish a clear and comprehensive prohibition of discrimination on the basis of handicap. Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

This Act may be cited as the "Americans with Disabil-4 SECTION 1. SHORT TITLE. 6 ities Act of 1988". 7 SEC. 2. FINDINGS AND PURPOSES. (a) FINDINGS.—Congress finds that— 8

1999: WCAG Web Content Accessibility Guidelines

TRACE R&D Center at the University of Wisconsin

[contents] [checklist]



Web Content Accessibility Guidelines 1.0

W3C Recommendation 5-May-1999

This version:

http://www.w3.org/TR/1999/WAI-WEBCONTENT-19990505 (plain text, PostScript, PDE, gzip tar file of HTML, zip archive of HTML) Latest version: http://www.w3.org/TR/WAI-WEBCONTENT

Previous version:

http://www.w3.org/TR/1999/WAI-WEBCONTENT-19990324

Editors:

Wendy Chisholm, <u>Trace R & D Center</u>, University of Wisconsin -- Madison Gregg Vanderheiden, <u>Trace R & D Center</u>, University of Wisconsin -- Madison Ian Jacobs, W3C

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2006: UN Convention on the Rights of Persons with Disabilities

163 signatories

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2010: Washington



PUBLIC LAW 111-274-OCT. 13, 2010 124 STAT. 2861 Public Law 111-274 111th Congress To enhance citizen across to Government information and services by establishing that Government documents issued to the public must be written clearly, and for other surrosses. Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, Oct. 13, 2010 Thus I. SHORT THLE. This Act may be cited as the "Plain Writing Act of 2010". [H.R. 946] SEC. 2. PURPOSE. The purpose of this Act is to improve the effectiveness and accountability of Federal agencies to the public by promoting clear Government communication that the public can understand and use. Plain Writing Act of 2010. 5 USC 301 note. 5 USC 301 note. In this Act: (1) AGENCY.—The term "agency" means an Executive agency, as defined under section 105 of title 5, United States Code. (2) COVERED DOCUMENT.—The term "covered document"— (i) is necessary for obtaining any Federal Government benefit or service or filing taxes (ii) provides information about any Federal Government benefit or service; or Government benefit or service; or (iii) explains to the public how to comply with a requirement the Federal Government administers (B) includes (whether in paper or electronic form) a (B) includes (whether in paper or electronic letter, publication, form, notice, or instruction; and (C) does not include a regulation. (C) does not include a regulation.
(3) PLAN WRITING.—The term "plain writing" means writing that is clear, concise, well-organized, and follows other best practices appropriate to the subject or field and intended SEC. 4. RESPONSIBILITIES OF FEDERAL AGENCIES. (a) PREPARATION FOR IMPLEMENTATION OF PLAIN WRITING (1) IN GENERAL. Not later than 9 months after the date Deadline. (1) IN GENERAL.—Not later than 9 months after the date by of enactment of this Act, the head of each agency shall— (A) designate 1 or more senior officials within the agency to oversee the agency implementation of this Act; 5 USC 301 note. Designation.

2015: European Union







2019: Accessible Canada Act

"Every day, let us take" action to break down the barriers that exclude Canadians with disabilities. We cannot rest until persons with disabilities have the same opportunities as everyone else."



	15:	То	what	extent	does	the	government	provide	re
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- 16: To what extent does the government provide e stresses?
- 17: To what extent do business associations or ag government and/or other sources on the Web

Accessibility

- 18: To what extent is Web accessibility (access to
- 19: To what extent is Web accessibility (access to developers?
- 20: To what extent is there a law or other legally bi various disabilities?
- 21: This question is to allow us to send information addresses of 1) the websites of the country's 2 telecommunications providers, 4) the national welfare department, and 6) if it exists, the main

10 Open Data

- 22: To what extent is there a well-resourced open
- 23: To what extent does the country have a function
- 24: To what extent are civil society and information
- 25: To what extent is a user community utilizing av

Made in Canada: OCAD University

← → × ☐ idrc.ocad.ca

U RESET

· inclusive design research centre OCAD University

🔶 Home

About

Research and Development

Resources

Education

Welcome to the IDRC

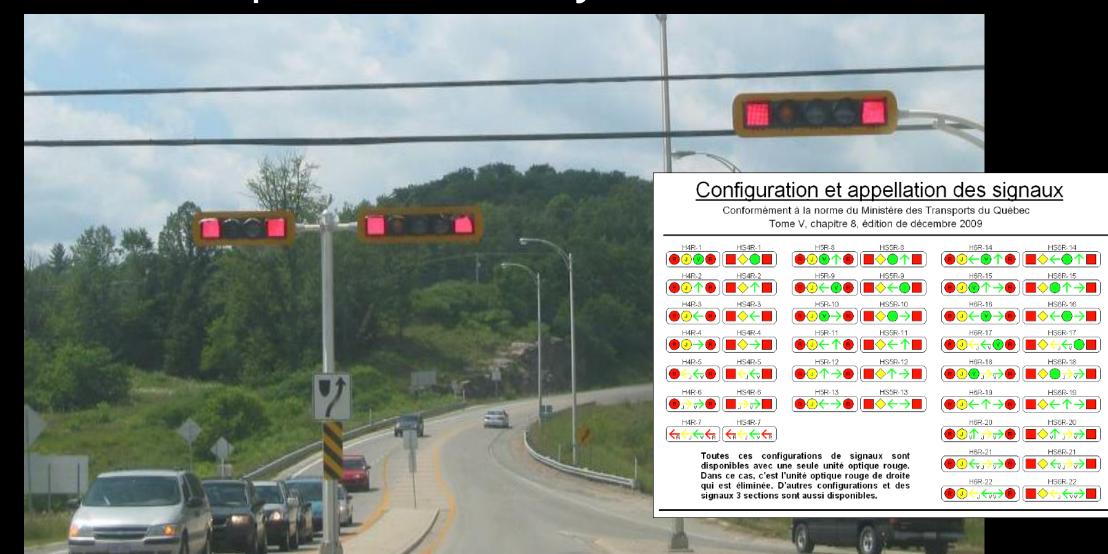
The IDRC is a research and development centre at OCAD University where an internation source developers, designers, researchers, advocates, and volunteers work together to information technology and practices are designed inclusively. Learn more about the IDR

The Three Dimensions of Inclusive Design

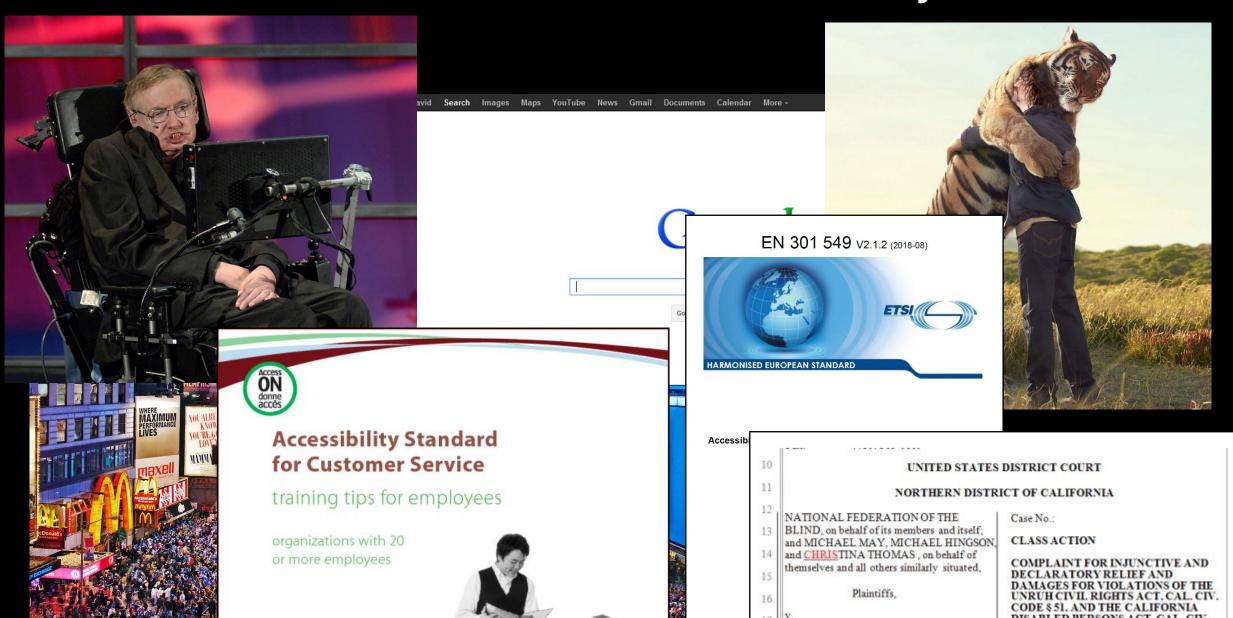
The Inclusive Design Research Centre and the MDes in Inclusive Design are working to



Multiple means solution from Quebec: hue + shape + how many



Six reasons to care about accessibility



2021: legal expectations are shifting

Defendants with lawsuits brought against them recently:

Bank of America BMI

Connecticut Attorney General

Domino's Pizza

Government of Canada

Harvard University

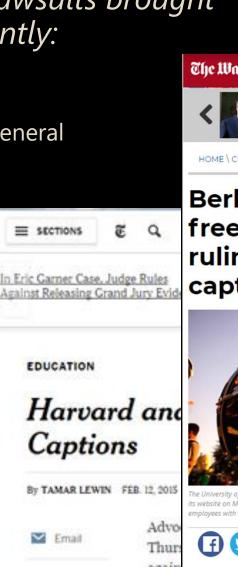
MIT NBA

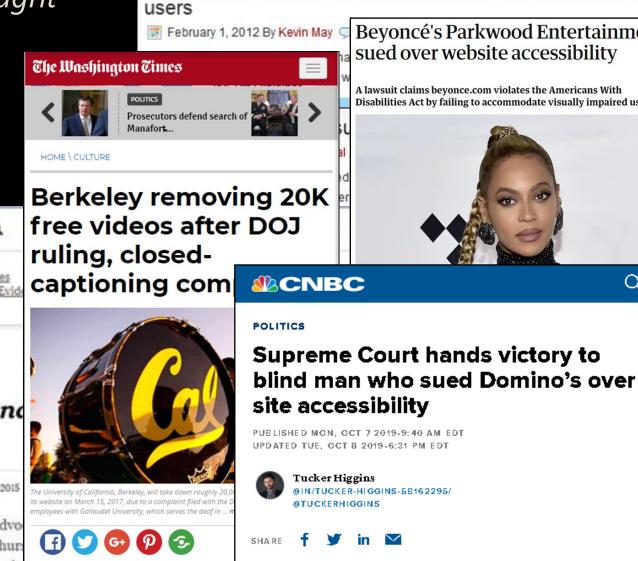
davidberman.com

Netflix

Penn State University Priceline Ramada

Reebok Southwest Airlines Target **United Airlines**





Beyoncé's Parkwood Entertainment sued over website accessibility A lawsuit claims beyonce.com violates the Americans With Disabilities Act by failing to accommodate visually impaired users

Airline faces legal action for having inaccessible website for blin



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2018 Section 508 now points to WCAG 2.0 AA

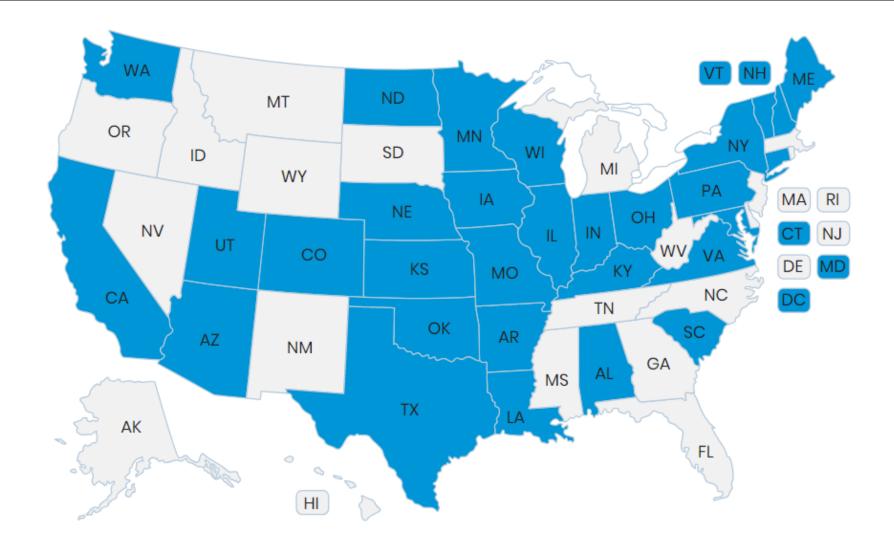


"The Section 508 Refresh": The U.S. Access Board (the independent federal agency that stewards Section 508) refreshed Section 508 in early 2017.

The final rule updated **Section 508** (and Section 255, which is about access to telecommunications products and services, and applies to manufacturers of telecommunication equipment) to **WCAG 2.0 AA**.

- Why? To harmonize with other guidelines and standards within the U.S. and abroad (EU, WCAG)
- Effective March 20, 2017
- Deadline was January 18, 2018

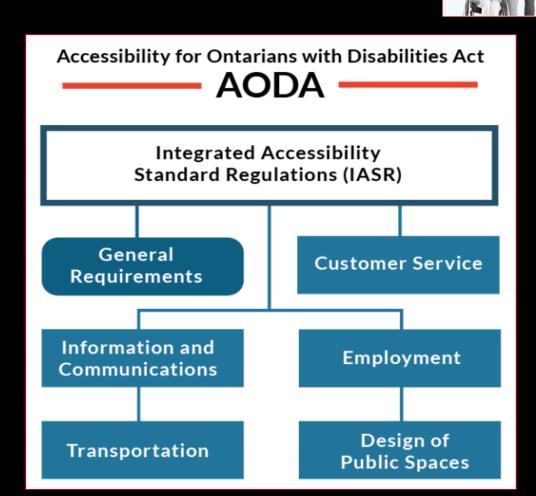
Most states have eAccessibility laws as well



AODA: Ontario's accessibility legislation

Accessibility for Ontarians with Disabilities Act (2005) pertains to both government and private sector





ON

WCAG 2 as a legal standard trending globally

Canada govt. **CLF 2.0** Canada govt. Standard on Web Accessibility Ontario govt. + bus. AODA IASR Quebec govt. **SGQRI 008** Manitoba Accessibility for Manitobans Act WCAG 2.0 A/AA USA, NY govt. Original Section 508 USA govt. Revised Section 508, ADA Illinois govt. IITAA 2.0 Australia govt.+bus. IPS/NTS WAD, EN 301 549, EAA EU UKEquality Act 2010 PSBAR UU plus WAD Norway govt.+biz New Zealand govt. NZGWS 2.0

WCAG 1.0 WCAG 2.0 AA WCAG 2.0 A/AA ~WCAG 2.0 WCAG 1.0 partial WCAG 2.0 AA WCAG 2.0 AA WCAG 2.0 A/AA* WCAG 2.0/2.1 AA WCAG 2.1 AA WCAG 2.0 AA WCAG 2.1 AA

2001 2011 2012-2021 2011 2023? 1973, 1998 2017/2018+ 2018 2012-2014 2018+ 2018+ 2014,2021? 2021

WCAG 2 success criteria



W3C's WAI (Web Accessibility Initiative) publishes WCAG 2 (Web Content Accessibility Guidelines) made up of 5 conformance requirements including success criteria classified by 3 levels fulfilled by techniques

WCAG 2 "conformance levels"

(WCAG 2.0 published 2008, ratified 2010)

NOTHINGLEVEL ALEVEL AALEVEL AAAWorst ←→ Best

- Without level A: some people will find it impossible
- Without level AA: some people will find it difficult
- Without level AAA: some people will miss full impact

For your product to be WCAG 2.0 Level AA compliant, you must meet all 25 WCAG 2.0 Level A and 13 WCAG 2.0 Level AA criteria (and *none* of the 23 WCAG 2.0 Level AAA criteria).



WCAG 2.1 "conformance levels"

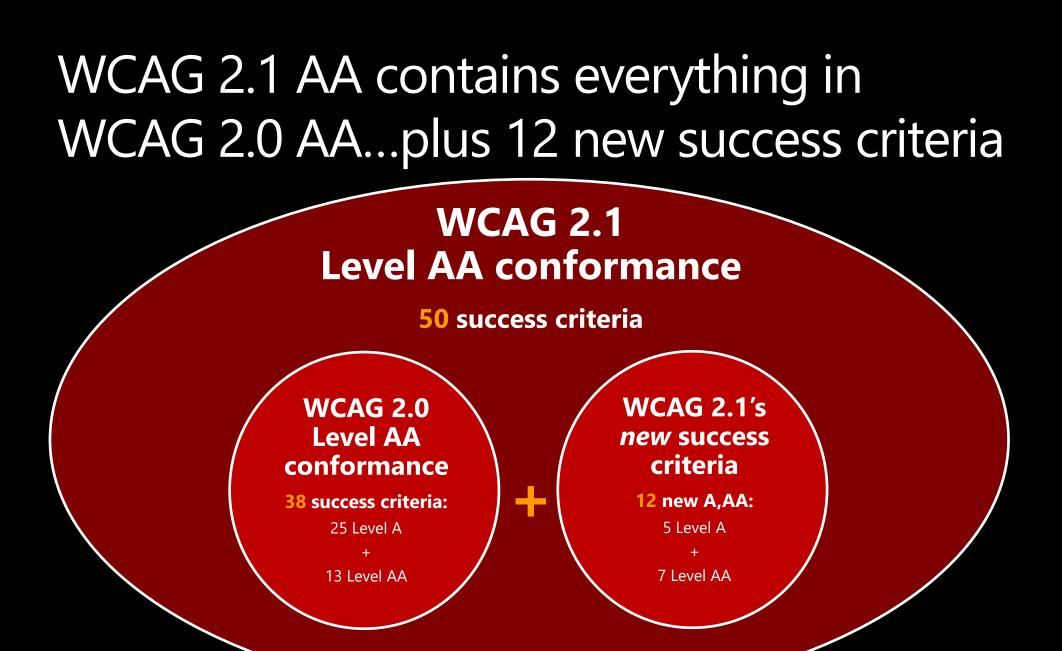
(WCAG 2.0 published 2017, ratified 2018)

NOTHINGLEVEL ALEVEL AALEVEL AAAWorst <</td>Best



- Without level A: some people will find it impossible
- Without level AA: some people will find it difficult
- Without level AAA: some people will miss full impact

For your product to be Level WCAG 2.1 AA compliant, you must meet all 30 WCAG 2.1 Level A and 20 WCAG 2.1 Level AA criteria (and none of the 28 WCAG 2.1 Level AAA)



EU's EN 301 549, Web Accessibility Directive (WAD), and WCAG 2.1



- The European Union's norm EN 301 549 is an evolving standard that defines minimum accessibility standards for ICT
- WAD first referenced ETSI EN 301 549 (2018): Version 2.1.2
- The current version of ETSI EN 301 549 (2019): Version 3.1.1
- Chapter 9 designates WCAG 2.1 AA as the standard for websites
- EU's Web Accessibility Directive law (WAD) demands that all EU countries have laws in place that require their obligated organizations to comply with EN 301 549 ... and every EU state did so by the September 23, 2018 deadline
- WAD demands compliance at the national government level (e.g., the government of Denmark), the regional government level (e.g., provincial governments in Belgium), and local government level (e.g., the town of Fisby).

Functional Performance Criteria of the EU's 301 549

- Standard 4.2.1 Usage without vision
- Standard 4.2.2 Usage with limited vision
- Standard 4.2.3 Usage without perception of colour
- Standard 4.2.4 Usage without hearing
- Standard 4.2.5 Usage with limited hearing
- Standard 4.2.6 Usage without vocal capability
- Standard 4.2.7 Usage with limited manipulation or strength
- Standard 4.2.8 Usage with limited reach
- Standard 4.2.9 Minimize photosensitive seizure triggers
- Standard 4.2.10 Usage with limited cognition
- Standard 4.2.11 Privacy

EN 301 549 going global (including WCAG 2.1)

Australia Austria Belgium Bulgaria Canada Croatia Cyprus Czech Republic Denmark Estonia Finland France

Greece Hungary Iceland Ireland Italy Latvia Lithuania Luxembourg Malta Mexico Netherlands **New Zealand**

Ontario Poland Portugal Romania Slovakia Slovenia Spain Sweden Switzerland United Kingdom Coming soon to a country near voul

CONADIS SEDESOI Australian Government Digital Transformation Age MEXICO Simple, clear a Telecomunicaciones > para tod@s Help and About advice Help and advice > Digital S Home

9. Make it acce

Ensure the service is accessible and inclusive of all users regardless

of their ability and environment.

Why it's in the Standard



Reason 6:

the "Accessibility Dividend"

By designing for both atypical and typical users we...

- drive down maintenance costs
- reduce "form abandonment" rates for all users
- Increase conversion rates for all
- Increase and benefit from a Digital First philosophy

Course

Course Course

Course Outline for Small Animal Clinical Procedures

Campus-wide strategies for universities, colleges, and school boards

We have many great stories to share about driving down costs by \$100,000s through a blend of inclusive strategy for courses, course outlines, instructor training, accessible convertible courseware, hybrid instructional design...

... but the pandemic has taught us way more.

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Class:	30		
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Other:	0	Appen	
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Pre-Requisites: ANIM 101, ANIM 102, BIOL 104, ANIM 107, MATH 150			
Prepared by Professor: Julie-Anne Valliant			
Campus Dean/Associate Dean Signature of Approval: signature on file			
Skip To Content		Skip To Navigatio	

Accessibility dividend case study #1: Morphic Advisory Council

... from WCAG to Morphic

Gregg Vanderheiden, of University of Maryland (via University of Wisconsin)







Meet Sarah

She wants to use any computer in the library – not just the few set up with assistive technology.

"For the first time I can use any computer in the library, participate in all library programs, use the stacks, and sit with my friends – just like anyone else."



Meet Josh

The computers available for use at the college were not set up to meet his needs.

"I knew I was smart enough to finish college, but the technology was getting in my way until Morphic arrived."



Meet Cynthia

She needs to be able to do her best on standardized placement tests.

"I want to get into a good college but was upset to learn that I can't use my computer and AT for placement tests. Then they told me about Morphic."



Meet Susan

She needs different computer set ups at different times of the day.

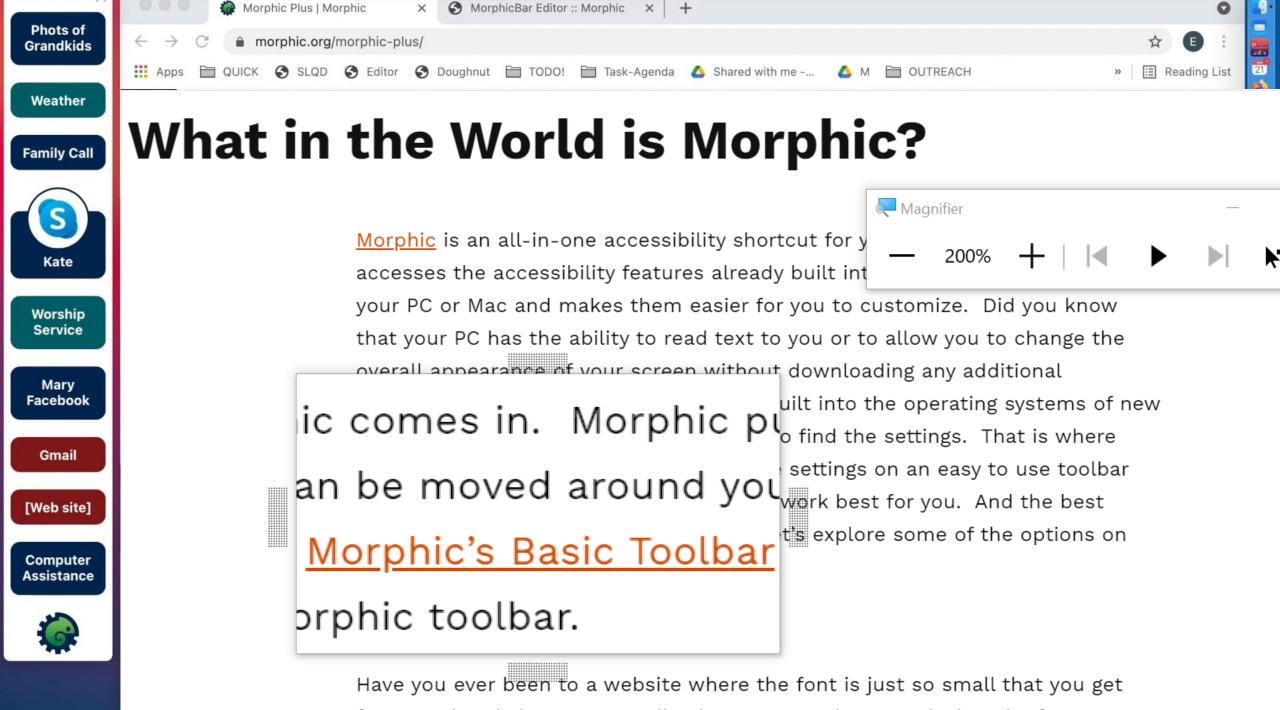
"Because of my disability, the way I use my computer needs to shift throughout the day. Morphic lets me instantly change any and all settings as my abilities shift."



Meet Wesley He needs to have tech

set up correctly for his classrooms.

"I teach in different classrooms at the university, with different computers and setups. With Morphic, I no longer lose half my class time helping students set up their computers."



frustrated and give up on reading it? On a touchscreen device the font can

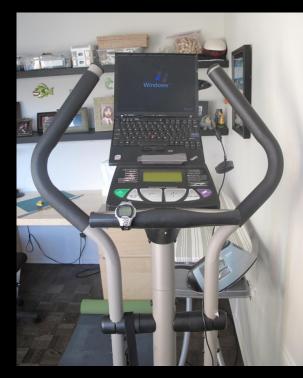
Kinds of disabilities and challenges

EXAMPLES

- **1. Permanent:** face blindness since birth
- 2. Episodic:
- cast, driving, eye drops, tipsy, flu, PTSD, smoke-filled room, noisy place, pregnant, **distance**
- Acquired:
 Societal:
- ageing-related
- left-handedness

Impairments

- Visual...
- Dexterity (mobility)...
- Hearing...
- Language and speech...
- Cognitive...
- Social...



Assistive technologies





An **assistive technology** is a tool that assists with a disability or impairment:

- specialized (e.g., wheelchair)
- mainstream (e.g., Acrobat Reader, Skype)

An **electronic assistive technology** helps access documents:

- hardware alternatives
- software assists

In a world that assumes all faculties are available, swapping and extending senses is the creative response...



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RADEO INDUSTRIAL empre de tu lodo

Instead of reading... feel

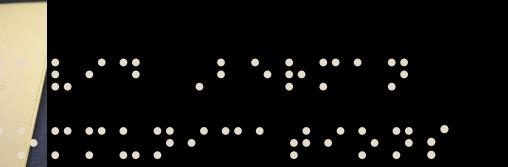






Dynamic Braille displays raise or lower dot patterns on command ... typically 12 to 80 characters wide.

Braille embossers print braille.









Instead of seeing unclearly... enhance



"I can now be the person I'm supposed to be." - Yvonne Felix

Ottawa's eSight Corporation's computerized glasses reconfigures high-definition camera images to two LED screens

Instead of swiping or scrolling... roll your eyes

Tobii EyeMobile or EyeX uses gaze alone, with every Windows app



Instead of typing... talk

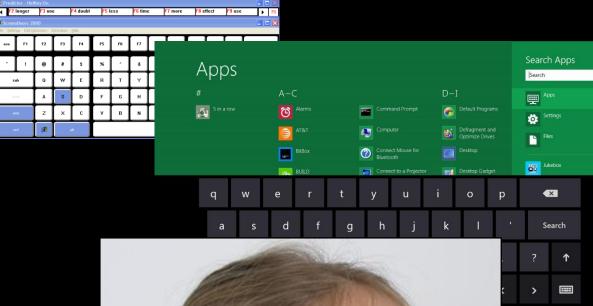
- Voice recognition commands the device through voice (Cortana, Dragon Naturally Speaking for Windows, Apple Siri, Google Home, Amazon Echo)
- ...or augment challenged typing by hearing what you have just typed

2	Narrator Settings	- □ ×
Welcome to I Press any key o full set of Narra Lock + Esc to e	Quick access to common tools You can use the tools in this section to help you get started. Windows can read and scan this list automatically. Press the SPACEBAR to select the highlighted tool. Always read this section aloud Always scan this section	
<u>G</u> eneral ^{Change how N}	🔃 Start Magnifier	Start <u>N</u> arrator
Navigat Change how yo	🛌 Start On-Screen	Set up High Contrast

Kayboard



Instead of typing... click, sip, puff, tap, shake





- Alternative keyboards, input devices
- Software can assist typed input through anticipation and tremor filtering
- Scalable objects help too

Neil Squire Society's LipSync

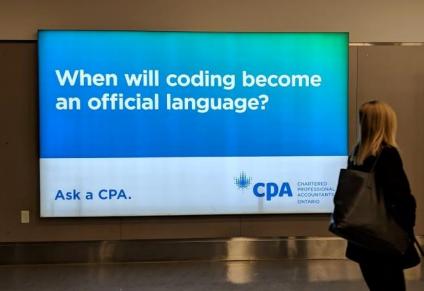




The ideal accessible educational world

Usable, effective, barrier-free, and intriguing for everyone on any user agent (e.g., browser, app, PDF/eBook reader) on any budget of device with any kind of connection or location in any kind of environment for any gender, age, ability, or culture

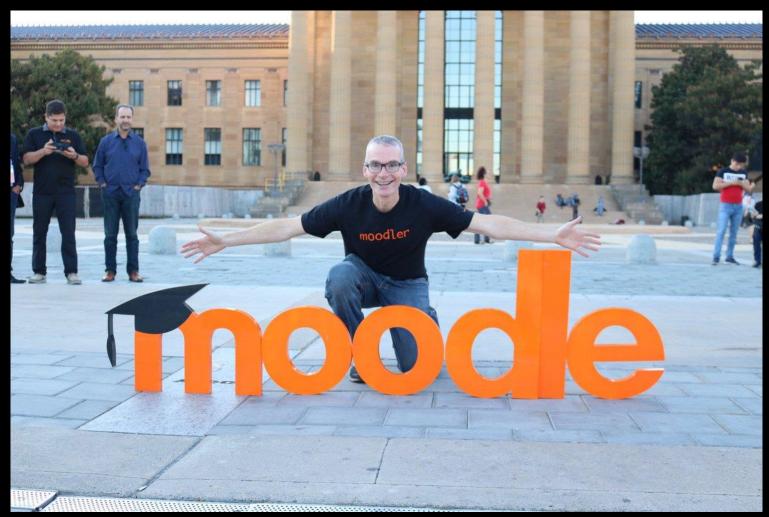
in any **learning style**



Accessibility Dividend case study #2: Blindside's BigBlueButton

"We've always invested in accessibility, because we always believed in online learning. We just never expected the entire world to go online at the same time."

– Fred Dixon, from Carleton University



Blindside's BigBlueButton

- In the past 13 months, Blindside hosted 250,000,000 students with 1.5 billion minutes of remote learning
- German regional government hosted 4,000 servers just to run BigBlueButton ... "that would simply have not been possible if we hadn't already certified BigBlueButton as accessible".
- Now part of Moodle installation, due to the pandemic



Blindside Networks supercharges BigBlueButton, the world's only open-source virtual teaching platform.

In the past 13 months Blindside Networks has hosted 250,000,000 students across 1.5 billion minutes of learning.

When it came to calling on goodwill and the relationship with Blindside Networks ...they're as straight shooting and hardworking as they come it's difficult to express how much they supported our success.

Eamonn Fitzgerald Education Services Tech Manager University of Limerick

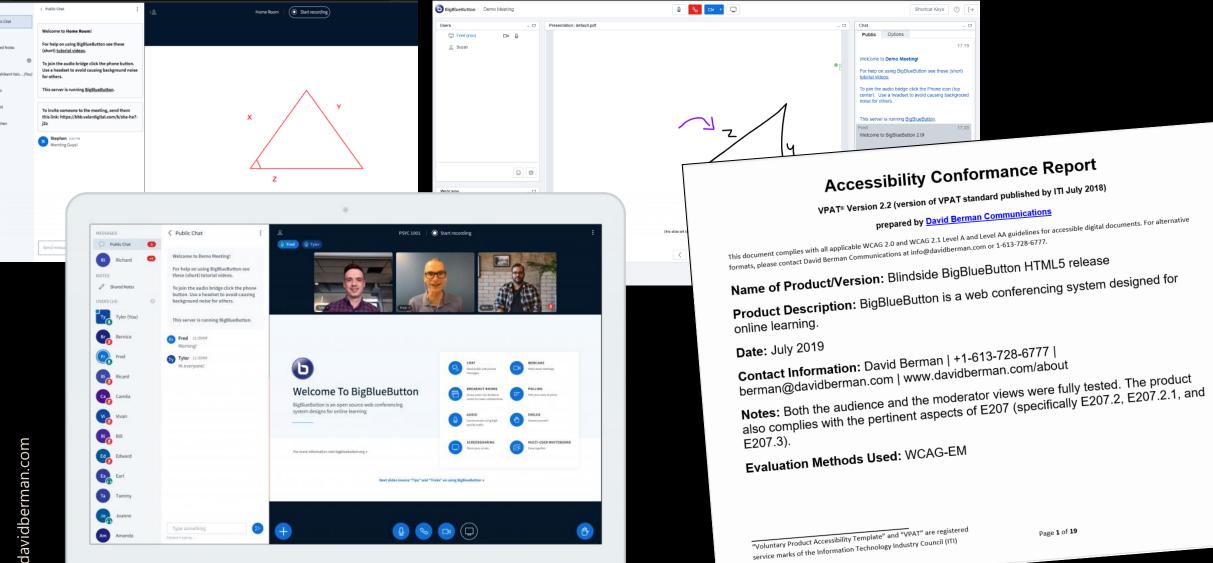


Welcome to classroom collaboration from a teacher's perspective.

BigBlueButton was born in a classroom and built for one audience: teachers. For more than a decade, Blindside Networks, the creators of BigBlueButton, overseeing 12 versions of the product and driven every new feature and product update.

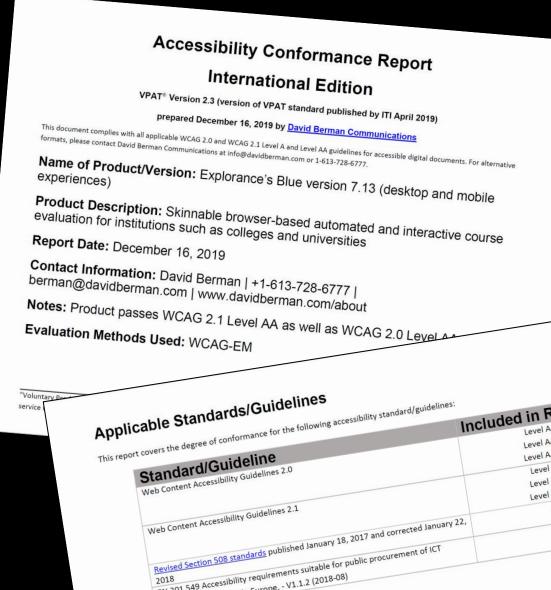
We know BigBlueButton better than anyone on the planet and our premium hosting services give our clients access to options, tools, and customization and features simply not available on the free version.

Blindside anticipated accessibility years ago



VPAT: Voluntary Product Accessibility Template

- The most popular global reporting format for informing buyers as to the accessibility of an ICT product
- Version 2.4 released in March 2020
- Each version has four editions: EU, US, WCAG, and International (which includes the previous three)
- VPAT is referenced by both the U.S. federal accessibility standard *Revised Section 508* and by the EU's procurement standard *EN 301 549*



VPAT: Voluntary Product Accessibility Template

Accessibility Conformance Report

International Edition

VPAT® Version 2.3 (version of VPAT standard published by ITI April 2019)

prepared December 16, 2019 by David Berman Communications

This document complies with all applicable WCAG 2.0 and WCAG 2.1 Level A and Level AA guidelines for accessible digital documents. For alternative formats, please contact David Berman Communications at info@davidberman.com or 1-613-728-6777.

Name of Product/Version: Explorance's Blue version 7.13 (desktop and mobile experiences)

equirements suitable for p urope, - V1.1.2 (2018-08)
nance Level information
ality of the product ha acilitation. ons: Some functional
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3

Applicable Standards/Guidelines

This report covers the degree of conformance for the followin

Standard/Guideline Web Content Accessibility Guidelines 2.0

Web Content Accessibility Guidelines 2.1

Revised Section 508 standards published January 18

Accessibility dividend case study #3: InSpace: beyond Zoom fatigue



InSpace proximity-aware platform, developed specifically for higher-ed classrooms, by educators for educators "During the pandemic, the need for accessible software became even more evident. We opted to prioritize work with David and his team because accessibility is at the core of our values as an edtech company. Creating a product to be used in educational settings that doesn't meet accessibility standards: that's not an option for us."

- Narine Hall, from Champlain College

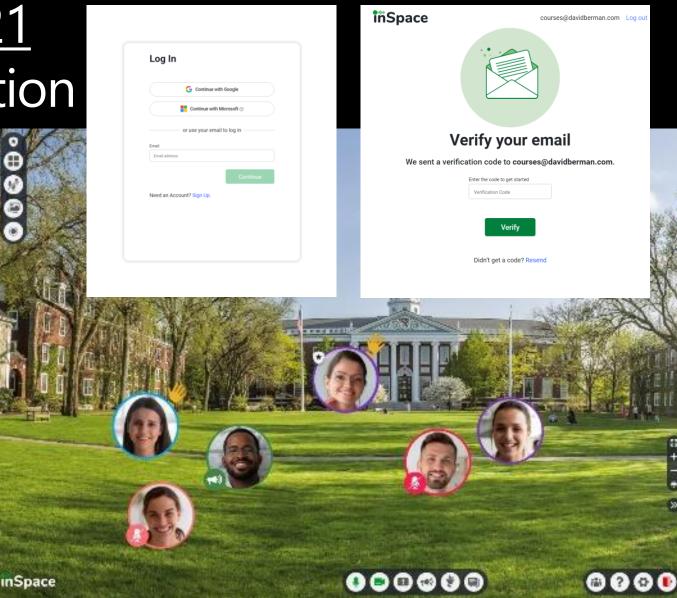


wcag2.com/bng2021 InSpace demonstration

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"One of the most valuable things that has come out of working with David and his team has been the opportunity to think big, and then even bigger, about what's possible. We've loved the partnership that asks, "We've met the minimum requirement, but how do we take it up a notch to make this an exceptional experience for all?""

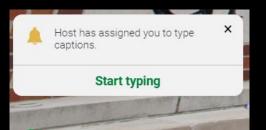


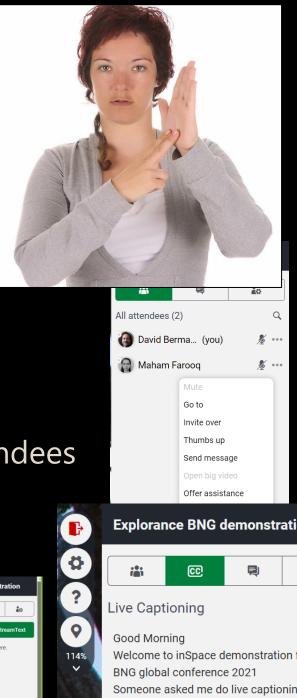
InSpace packed with accessibility features that benefit all learners

- Both amateur and professional caption support
- Attendant mode
- Full screen reader support for breakout rooms
- Invite over
- Graphically-rich chat
- Alternative text on backgrounds
- Pop-out window (outside browser tab) for specific attendees
- Multi-space conference mode
- Integrations, private self-disclosure, stereo proximity...



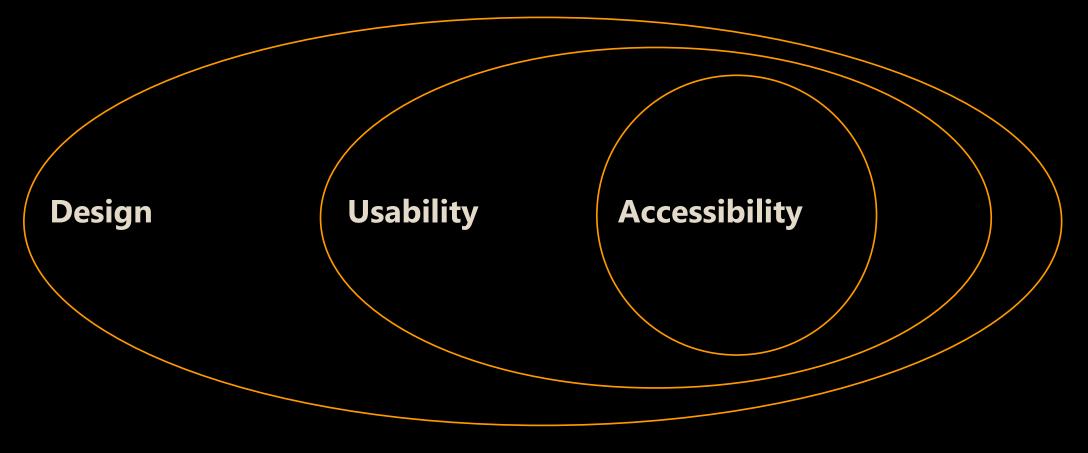






Accessibility is simply a subset of usability, focussed on extreme cases

When we design for the extremes, and we do it well, everyone benefits



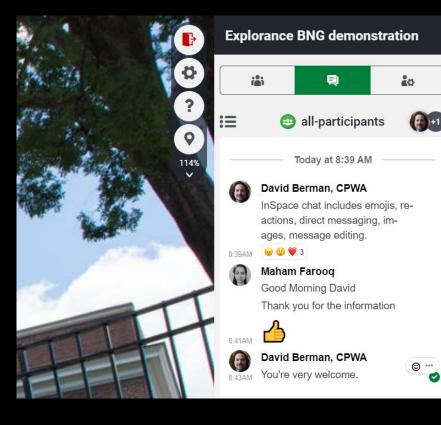
Body Text ✔ Variable Width ✔ ➡ ♠ ▲ ▲ ▲ ▲ ▲ Ξ Ξ 至 Ξ ≡ ∞ ∞ •		
Edit HTML		
Subject: Contact David Berman Communications		
Date: Thu, 4 Feb 2010 11:07:30 -0500		
From: Samer Saab <ssaab@explorance.com></ssaab@explorance.com>		
To: info@davidberman.com		
This is a submission from the 'Contact Us' page on davidberman.com. Date: February 4, 2010		
Name: Samer Saab		
Email: <u>ssaab@eXplorance.com</u>		
Organization: eXplorance Inc.		
Message: Hello,		
We are in the process of evaluating the effort and tangible steps we need to take in order to make		
our software Blue 2.0 compliant.		
Do you have any seminars occurring in the near future? April 10 is a bit far away, as we have a release scheduled for September of 2010.		
If not, what are the availability, conditions and fees associated with an onsite presentation at		

our premises, or even a special presentation in your Ottawa premises(we are in Montreal)?

Future of course evaluation and engagement: leveraging the remote classroom

- Possible realtime AI engagement **feedback** to instructor, if it matters to them
- Experience management analytics based on learner's (and presenter's) movements, chat engagement, chat mood
- Proximity tracking

What becomes possible when we can detect people's preferred learning modalities, in pursuit of each student's success?



Learn more: How to make your online classrooms more welcoming to all

wcag2.com/accessible-online-meetings

wcag2.com

Accessible online meetings article

i July 29, 2021

"If you're not sure what to do, just ask."

By David Berman, with Maham Farooq and other contributors at David Berman Communications

[Some content used with permission from Brian Kon and from the Disabilities Issues Office, Government of Manitoba. Thank you also to the Canadian Association of the Deaf, CAST, and Autism Speaks for their help!]

If you don't have a lot of experience hanging with people with disabilities, you may be afraid to do or say the wrong thing, especially when you're in a live gathering with people you've perhaps just met.

Interacting with everyone is actually pretty easy: people living with disabilities are people first. They need the same things that every person needs. The easiest way to show respect is to focus on the person and not the disability.

You can think of distance participation as a basket of temporary disabilities: not being able to see or be seen, hear or be heard, or otherwise interact in ways that are easy to do in person and when fully abled.

So let's get you comfortable, and poise you to be able to help everyone get the most out of every meeting...

Welcoming everyone

Treat everyone with respect. If you are unsure what to do or how to assist someone, ask them. A person with a disability in an unfamiliar environment may be much more vulnerable or awkward than in familiar surroundings.

It's very cool that you'd like to help: however, do ask first ... what you think might be helping may be the opposite.

Just because someone is blind does not mean that they are Deaf. And just because they are Deaf doesn't mean they are blind. If you're not sure what to do, just ask: treat others the way you would want to be treated and we'll all be okay!

So first, get comfortable with what words are best...

Vocabulary

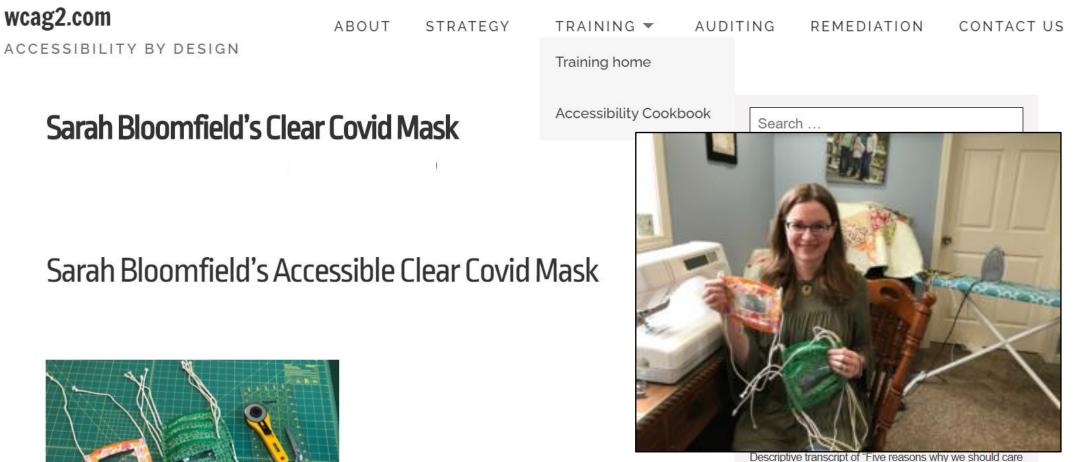
In general, refrain from using negative terminology to refer to differing abilities. For example, a person is not
 approximate the surger a wheeler bailty

The 7,500th generation

"Over the next 10 to 15 years, technology has the capacity to virtually eliminate barriers faced by people with disabilities in the workplace."

STEVE BALLMER, MICROSOFT

DIY Clear Covid Mask: WCAG 2.1 conformant accessible instructions! wcag2.com /clear-covid-mask



about accessibility"

Thank you!

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Upcoming events:

- New Standard On eAccessibility half-day course | online | 2021 November 12
- More: <u>davidberman.com/courses/schedule</u>

Need to reach me?

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Need a white paper? Links to everything I've mentioned? Questions?

Email me: david@davidberman.com



CRPD Implementation:

Promoting Global Digital Inclusion through ICT Procurement Policies & Accessibility Standards Solving Web Accessibility: Leaving No One Behind

Why Should We Care About Web Accessibility?

Worldwide, more than one billion people have a disability. Disability affects one in three families in North America, and if it doesn't affect yours, it is almost a certainty that it affects someone close to you. What is

important to note when looking at these statistics is that, while these numbers already make up a significant percentage of the national and global population, the proportion of people living with a disability is growing.

This is happening for several reasons. Medical and technological advancements have increased the survival rate for premature babies, which is a wonderful thing. However, this means that more babies are being born with disabilities.



People are also living longer, and as they age, they develop disabilities such as hearing loss and Alzheimer's – in fact, the 2010 US Census found that 50% of adults 65 and older had a disability (as opposed to 19% across all age groups). The US is also coming out of a decade of war. With modern medicine and armor, soldiers are ten times more likely to survive an injury than in previous wars, which means that many soldiers are sustaining injuries that constitute a disability.

With miraculous medical and technological advancement comes a critical need to improve accessibility measures to accommodate the growing population of individuals with disabilities. This white paper is intended for administrators and developers of website content, media producers, accessibility

Acknowledgments and credits

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About David Berman, CPWA, ADS

David Berman is one of perhaps 20 people in the world to hold CPWA certification and 100 people globally to hold CPACC certification, the World's only certifications for accessibility professionals. (In fact, he was the first person in Canada to take these exams!) These certifications are issued by IAAP (International Association of Accessibility Professionals). IAAP is a division of G3ICT, for which David is an International Advisor. In 2018, David was appointed to the Global Council of the IAAP.

David is on the ISO committee for accessible PDF (PDF/UA).

He has over 30 years of experience in design and communications, and has worked extensively in the adaptation of content for electronic distribution, including accessible Web and software interface development.

David was appointed by Ontario's Minister in charge of accessibility to serve on the standards review committee for Ontario's world-leading AODA accessibility regulations.

He was contracted by Sir Tim Berners-Lee's World Wide Web Foundation to audit online accessibility in over 40 countries for the annual <u>theWebIndex.org</u> benchmark report.

As author (Do Good Design [Peachpit/Pearson, 2009/2013/2018]), expert speaker, designer, communications strategist, and accessibility consultant, his path has brought him to over 50 countries. In 2015, he was named an Invited Expert to W3C, the authors of WCAG 2.0. The same year he was appointed International Universal Design Champion for the Government of Ireland.

In 2009, David was appointed a high-level advisor to the United Nations on how accessible Web design can help fulfill the Millennium Development Goals.

He regularly teaches WCAG accessibility as part of his professional development workshops.

David and his team have been working with Treasury Board Secretariat going back to CLF 1.0 days. Over 40 departments and agencies have hired Berman's team for inclusive design and strategic expertise.

He has provided design and consulting work for the International Space Station, IBM, The World Bank.

David is Chair of Carleton University's Carleton Access Network for accessible information technology, run out of Carleton University's Paul Menton Centre for Students with Disabilities as an initiative of the School of Engineering and has provided accessibility training and consulting to schools across Ontario.

Full biography and CV:

http://www.davidberman.com/about/biography

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Courses and learning guides: davidberman.com/store (\$97)

- The Standard on Web Accessibility: WCAG 2
- What's New in WCAG 2.1
- Accessible InDesign to PDF
- Accessible PDF with Adobe Acrobat Pro
- How to test for accessibility: automated and manual testing
- Accessible virtual meetings
- Accessible distance learning
- Accessible instructional design

David Berman Communications present

Accessibility for

Instructional Design:

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- Writing for the Web with Accessibility in Mind
- COMING SOON: Accessible EPUB

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Quadruple-Bottom-Line

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