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davidberman.communications

eAccessibility for Higher Education Survey and Course Evaluation Administrators: *Leaving No One Behind Online*

David Berman | Louisville | 8 Aug 2018



@davidberman #bluenotesglobal2018



Carleton University's tunnels



2018: Carleton Access Network

the charlatan
carleton's independent weekly · since 1945



Joey, Grad '17

[Learn More About Grad Certs](#) ▶

NEWS

NATIONAL

FEATURES

OPINIONS

ARTS

SPORTS

BLOGS

MULTIMEDIA

FORMER STUDENT RETURNS TO CAMPUS AS HEAD OF IT ACCESSIBILITY INITIATIVE

[November 29, 2012](#) | [Haley Ritchie](#) |



1984: Ottawa



The Charlton

NOVEMBER 24, 1983 CARLETON COLLEGE

THREE



**Ronald Peacock
Margaret: A Gilch
Brian: A Peacock**

DEAR MR. BRINER

THE CHARLTON COVER STORY HAS BEEN REWRITTEN BY DE-FRANCE OF THE GLOBE LIBERATION ARMY. PRINT EVERYTHING JUST AS IT IS. YOUR PRINTING PERKS IS HEAD AND SHOULDERS. WE HAVE YOUR 16-YEAR-OLD DAUGHTER, DANNY, AND YOUR DO MUFFIN. WE WOULD NOT WANT ANYTHING BASTY TO HAPPEN TO THEM. **CRAIG SARGENT KALESTREY**

FOR WHAT YOU'VE BEEN DOING, YOU'VE EARNED YOUR MONEY. **Sid Somov**

REAGAN OF THE THREE PUBLIC WILL!!!!!!

CUSA PRESENTATIONS

Rooster's Pub Welcomes Back



November 14 to 26
\$3.00 cover charge
doors open at 8 p.m.



The Graduate Students' Association announces the Official Opening of the new MIKE'S PLACE BAR (2nd floor, Wednesday, November 30th, 1983 from 4:7 p.m. on 4:7 p.m. The entire university is invited to participate in the 2 for 1 happy hour.

announce the Official Opening of the non-lewis LEWIS LOUNGE late David Lewis. This is a facility which is provided for the use of as a place for study, quiet discussion, and the reading of current papers. (e.g. The Globe & Mail, LeWeek, Sunday Night, The Atlantic, The Forum, Scientific American) Enter through MIKE'S PLACE.

The Charlton

November 24, 1983
Volume 13, Number 15

Editor-in-Chief: Jim Davidson
Editor: Debra Ann Yeo
Assistant: Ken Magor
Contributors: Steve Mazy, Ron Carter, Bob Ferguson, Debrah Andry, Marka Kyriakos, Steve Merilak, Patrick Mikhal, Sara Nicholson, Andrea Prosenko, Alisa Priddle, Lauren Stuerzer, Bonnie Shulman, Sharon Smith, Chris Watie

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Photo Editors: Karmel Schreyer
David Thorpe
Sara Patrick
Yoon Robinson
Jeff Larpelle
Elio Mendicino
Melaine Fournier
Alec Ross
Ron Wachter
Tim Wickens

DESIGN & PRODUCTION
Co-ordinator: David Berman
Assistant: Celine Poirer
Contributors: David Cox, Paul Gross, Gabra St Germain, Barry Dwyer, Wayne Bartley, Bill Welch, Kerry Lott, Henry Spink, Louis Tessen, Dan Lett

ADVERTISING 231-7479
Manager: Sheila Kaminski
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NEWS

CUSA, Kinsella taking legal action

by Ken Magor

CUSA AND ITS PRESIDENT, WARREN KINSELLA, are taking separate legal action against Women's Centre lawyer Joseph Magnet and CQW-TV for comments allegedly made by Magnet in one of the station's news reports. Notices have been served to both parties under the Libel Act complaining of the supposedly defamatory remarks and warning that lawsuits may be launched.

However, Kinsella said what he and the students' association are really seeking is an apology "to ensure that the situation is corrected."

Kinsella said CUSA members, and he in particular, were slandered by comments made by Magnet in the Oct 12 news report. Magnet referred to CUSA's handling of its review of the Women's Centre and attributed to Kinsella remarks the president says he didn't make.

"Kinsella said when he saw the broadcast he 'just fell off my chair.'"

Magnet said he is "not worried" by the legal action.

"I'd be perfectly happy in court to substantiate the full range of remarks that Warren did or did not make," the lawyer said. "I'm sure the Carleton students would be happy to know what their government did or did not do with respect to the Women's Centre."

Meanwhile, CQW confirmed it has also been served under the Libel Act.

Kinsella said his own legal action is being underwritten by his father while CUSA is being paid in full out of students' association funds.

However, he added that so far legal fees would likely not amount to much "because our contact with the lawyers has been very minimal."

Unions asked to vacate Unicentre

by Andrea Prazmowski

THE PRESIDENT OF CARLETON HAS asked two of the unions on campus to move out of their offices on the fifth floor of the Unicentre.

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' association Warren Kinsella said Beckel has agreed to give the rooms to CUSA because of a deal made in July.

But the switch could take longer than anticipated because the unions have rejected Beckel's offer of alternate office space in the Residence Commons.

Room 501 is controlled by the university administration and is shared by CUPC locals 2323 and 2424, which represent Carleton's 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 CUSA find room for the Disabled Coordinator.

The deal was made after the office decided to take over the Arts and Crafts workshops on the third floor of the Unicentre. In exchange for giving up the raised floor part of the Arts and Crafts area, Beckel said CUSA should have control of the room by January 1984.

Business manager for CUPC after 2323, Morina Ballantyne, said Beckel's intentions "through a deal" at the end of the summer, "The President confirmed the information and a meeting was held."

Ballantyne said the unions were asked to move out before negotiations. According to the collective agreement, according to the college agreement, according to the college agreement, according to the college agreement.



CUPE 2424 business agent Stuart Ryan says his union will be meeting with President William Beckel on Tuesday to talk about the space 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 on campus."

The two locals have moved twice since July 1980, with the move to room 501 taking place two-and-a-half years ago.

"I can understand some of their concerns about being away from the centre of the university," said Kinsella. "But I don't mean a reopening of negotiations carried on in September by the other groups have the space they need," they said. "And I don't think any of them will be coming to us for assistance (SAC) of CUSA is now assessing CAMS' needs and services. SAC Chairman David Plewes said the group could have a meeting, because the group could have a meeting, because the group could have a meeting."

PHOTO: DAVID THORPE

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 NAD Broadcast
Volume 3 Number 12 The National Broadcast of the NAD, 1011 Third Street, Silver Spring, MD

A Deaf President? Yes, Deaf

By Betty M. Davis

As we look for a deaf president, we must ask ourselves: Should we have a deaf president? Should we have a deaf president? Should we have a deaf president?

...in the past, we have had deaf presidents... in the past, we have had deaf presidents... in the past, we have had deaf presidents...

The Gallaudet President

The National Association of the Deaf (NAD) is... The National Association of the Deaf (NAD) is... The National Association of the Deaf (NAD) is...

...the deaf community... the deaf community... the deaf community...

1990: Washington

aster

afinitely!

**Deal President
for Gallaudet
Time, Isn't It?**

By Dr. Alan S. Crossman, '82

Continued in a special Gallaudet Yearly
Special Issue, available from the PAC,
for only \$10.00. All other special
issues are \$15.00. For more information,
contact the PAC at 1-800-451-8636.
The PAC is a non-profit organization
dedicated to the advancement of
Gallaudet University. The PAC is
a 501(c)(3) organization and
all contributions are tax-deductible.

100TH CONGRESS
2d Session

S. 2345

To establish a clear and comprehensive prohibition of discrimination on the basis of handicap.

IN THE SENATE OF THE UNITED STATES

APRIL 28, 1988

Mr. WECKER (for himself, Mr. HARKIN, Mr. SIMON, Mr. STAFFORD, Mr. KENNEDY, Mr. DOBBS, Mr. MATSUNAGA, Mr. CHAFFET, Mr. KERREY, Mr. PACKWOOD, Mr. LEAHY, Mr. INOUE, Mr. CRANSTON, and Mr. DOLE) introduced the following bill; which was read twice and referred to the Committee on Labor and Human Resources

A BILL

To establish a clear and comprehensive prohibition of discrimination on the basis of handicap.

- 1 *Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,*
- 2
- 3

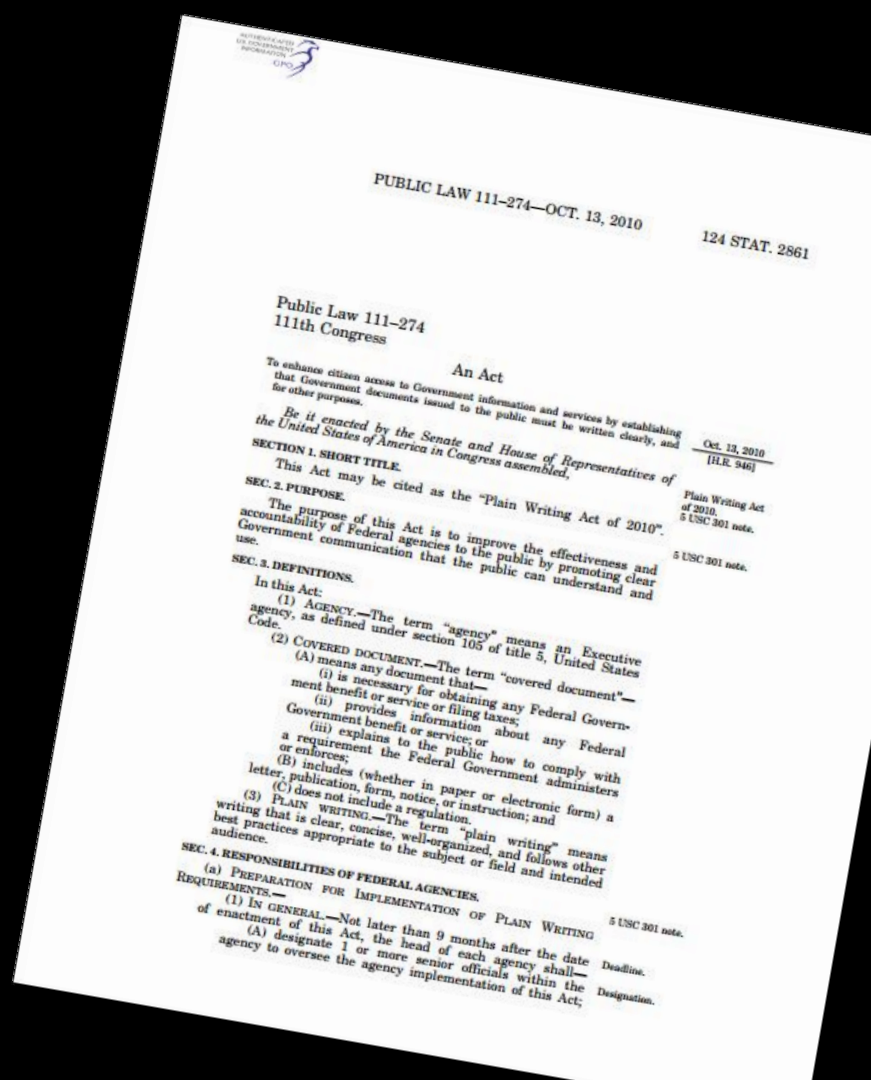
SECTION 1. SHORT TITLE.

- 4 This Act may be cited as the "Americans with Disabilities Act of 1988".
- 5
- 6

SEC. 2. FINDINGS AND PURPOSES.

- 7 (a) FINDINGS.—Congress finds that—
- 8

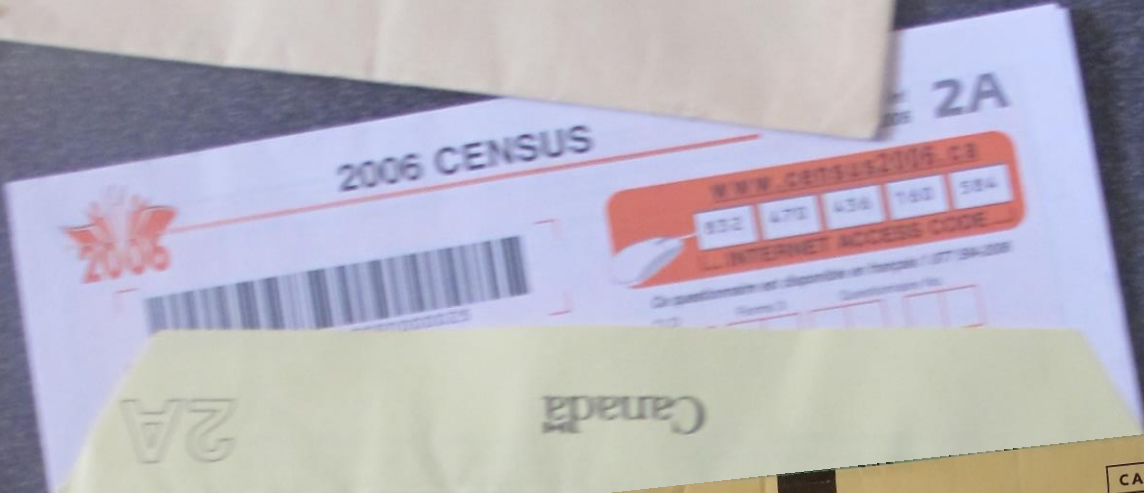
2010: Washington



2018: Ottawa



“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.”




Statistics Canada / **Statistique Canada**
 PO Box 99995 Stn Fed-Govt/Gouv / CP 99995 Succ Fed-Gouv/Gouv
 Ottawa ON K1A 9Z5 / Ottawa ON K1A 9Z5

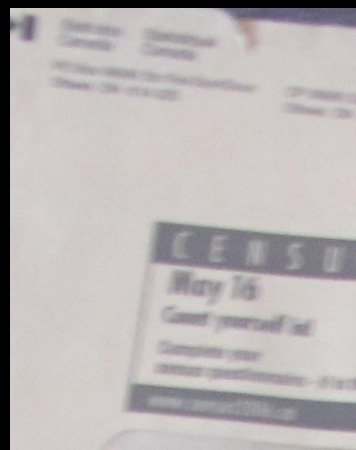
2A
W3/N3

2nd census reminder • 2^e rappel du recensement
 Complete it today—it's the law. / Remplissez-le aujourd'hui — c'est la loi.


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CANADA POSTES



Leadership: Canada

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Google

Trends

Web Search Interest: **web accessi**

Explore trends

Hot searches

Search terms ?



100 F

Interest over time ?

The number 100 represents the peak search interest

Regional interest ?



| | | |
|------------|-----|--|
| Ottawa | 100 | |
| London | 49 | |
| Melbourne | 37 | |
| Washington | 35 | |
| Sydney | 34 | |
| Toronto | 31 | |
| New York | 16 | |
| Madrid | 8 | |

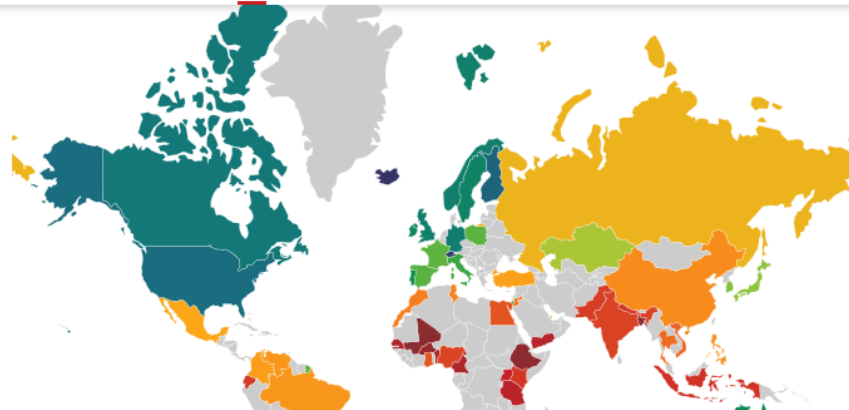
Leadership: Canada



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WEBINDEX

IMPACT

READINESS

THE WEB

Web Content

Web Use

- Percentage Of Individuals Using The Internet
- Web Use By Illiterate People
- Web Use By People Susceptible To Seizures
- Web Use By The Elderly
- Web Use By Those With

- 15: To what extent does the government pro...
- 16: To what extent does the government pro stresses?
- 17: To what extent do business association government and/or other sources on th

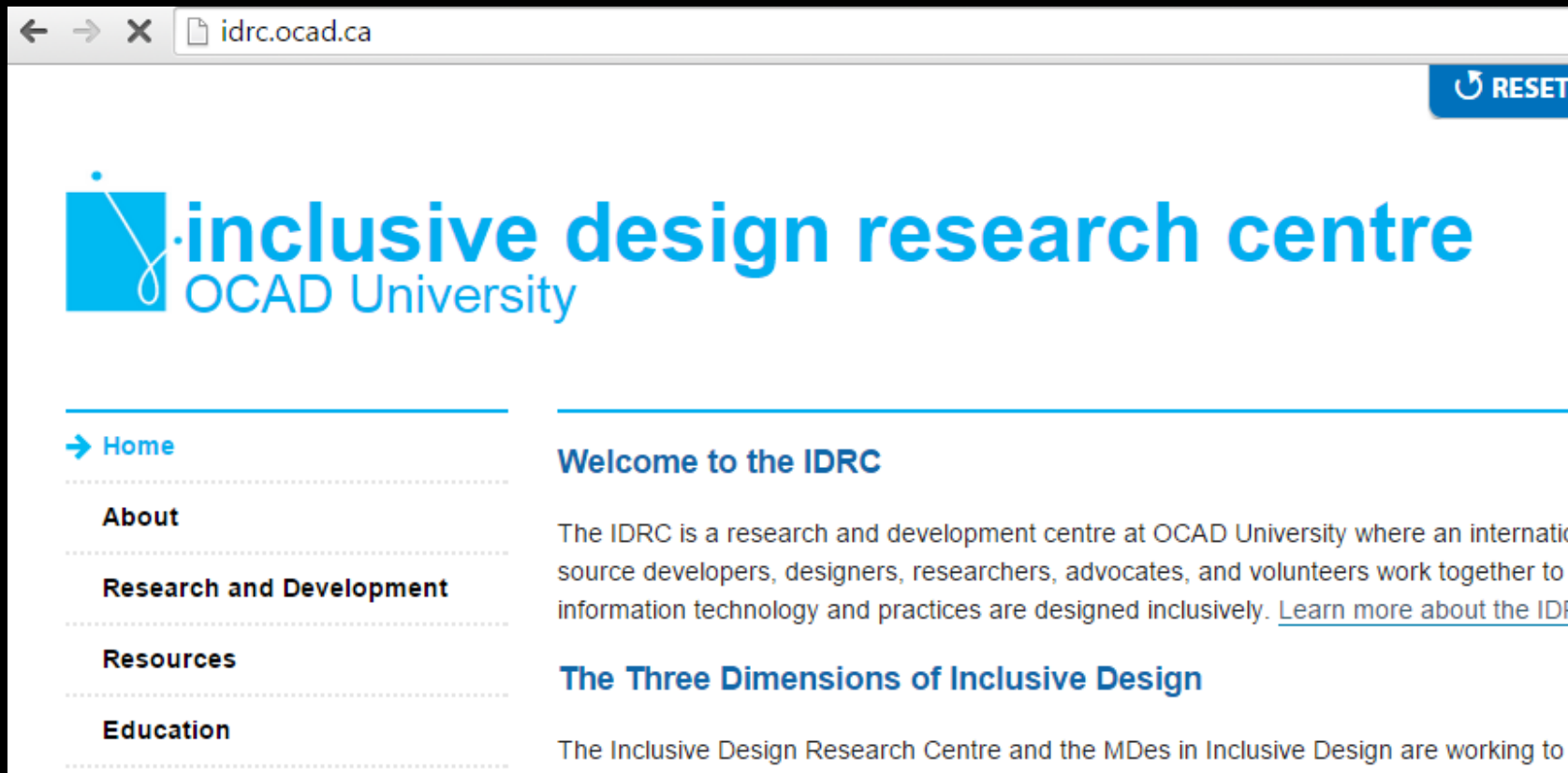
9 Accessibility

- 18: To what extent is Web accessibility (acc
- 19: To what extent is Web accessibility (acc developers?
- 20: To what extent is there a law or other le various disabilities?
- 21: This question is to allow us to send inf addresses of 1) the websites of the cou telecommunications providers, 4) the n welfare department, and 6) if it exists, th

10 Open Data

- 22: To what extent is there a well-resourced
- 23: To what extent does the country have a
- 24: To what extent are civil society and infor
- 25: To what extent is th


Made in Canada: OCAD University



The image shows a browser window with the address bar displaying "idrc.ocad.ca". The page features a blue header with a "RESET" button. The main content area includes the OCAD University logo and the text "inclusive design research centre". A navigation menu on the left lists "Home", "About", "Research and Development", "Resources", and "Education". The main text area contains a "Welcome to the IDRC" section and a "The Three Dimensions of Inclusive Design" section.

← → × idrc.ocad.ca

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 international source developers, designers, researchers, advocates, and volunteers work together to information technology and practices are designed inclusively. [Learn more about the IDRC](#)

The Three Dimensions of Inclusive Design

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

Made in Canada low vision

HTML Accessibility - aDesigner

UX Forum: Universal Access with David Berman

Address: http://uxforum.no/en/event20140526universaldesign/index.html

UX Forum

Home Schedule Subscribe Late night event FAQ Partners Pricing Register now

One-day Event with David Berman

Universal Design:
Online Accessibility

See prices and register

Universal Design – get ready for the new legislation

After July 1st 2014 all Norwegian IT projects must comply with the [new legislation on universal design](#). Join us for the one-day seminar on Online Accessibility with world-class speaker [David Berman](#). David is ranked no. 1 speaker in the world on the topic of online accessibility and universal design. he is coming to Bergen the 26th of May to inspire, motivate and de-mystify how to make online or offline Web and PDF accessible whether your source is Word, Excel, Powerpoint, InDesign or existing PDFs.

- Bergen, Norway**
Clarion Hotel Admiral
- May 26th, 2014**
09:00-16:00
- World class David Berman**
one of the world's best
- Limited seats**
Hurry up. Register!

Universal Design – get ready for the new legislation

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- May 26th, 2014**
09:00-16:00
- World class David Berman**
one of the world's best
- Limited seats**
Hurry up. Register!

Summary report | Detailed report

| Type | WCAG 2.0 | Section | 508 | JIS | Severity | Foregrou... | Backgrou... | X | Y | Area | Techni... | Description |
|-----------------------|----------|---------|-----|-----|----------|-------------|-------------|---|---|------|-----------|-------------|
| All items (0) | | | | | | | | | | | | |
| Error (0) | | | | | | | | | | | | |
| Probably Error (0) | | | | | | | | | | | | |
| Need confirmation (0) | | | | | | | | | | | | |
| Human check (0) | | | | | | | | | | | | |

Made in Canada accessibility check



Welcome David Berman [Logout](#)

[Web Accessibility Checker](#) [Guidelines](#) [Profile](#)

ACHECKER[®]

[Web Accessibility Checker](#)

Check Accessibility By:

[Web Page URL](#) [HTML File Upload](#) [Paste HTML Markup](#)

Address:

Options

Check 248: [Visual lists may not be properly marked.](#)

Question: Do all visual lists contain proper markup?

PASS: All visual lists contain proper markup.

FAIL: Not all visual lists contain proper markup.

Pass? select/unselect all

Line 61, Column 1:

`<body class="home page page-id-1961 page-template-default default no-js has-sidebar-primary has-side ...`

Made in Canada: curb cuts for documents

David Berman RGD, FGD
+1 613 728 6777
berman@davidberman.com

Mobile: +1 613
Skype: davi
Twitter: @d

no good

davidt

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Canadian Association of Professional Speakers
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**The New Standard on
Accessibility: WCAG 2.0**

Toronto, Ontario
29 June 2015


This certificate attests to the completion of a
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a suivi un processus de perfectionnement
professionnel organisé par David Berman
Communications.

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Professional development
Perfectionnement professionnel



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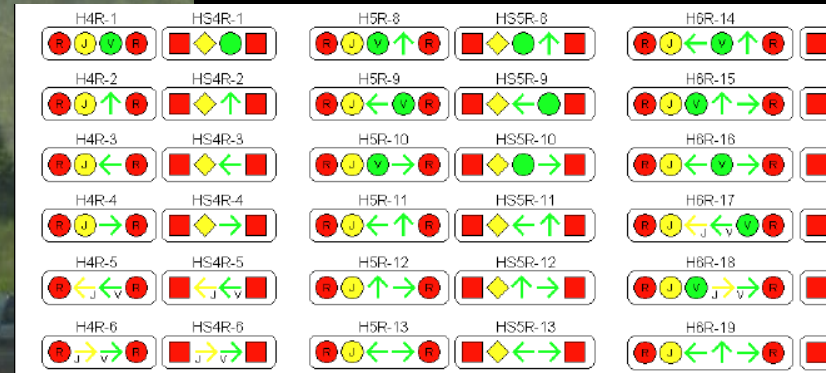
color = life + death



colorblind = life + death



“Multiple means” solution: hue + shape + how many



“Multiple mea
hue + shape +

Designedge^{Canada}

News, j

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NEWS BLOGS REDGEE AWARDS TOOLS

JOBS

Post a Job Total jobs: 23 Jobs this week: 3 Recent jobs: Senior Packaging Designer @ T

BLOGS

Friday, November 01, 2013

Do Good Design
- David Berman

Typography for the Blind

I saw this traffic signal in Cambridge, Massachusetts last month. What does the red arrow in this traffic signal mean to you?



Blogs



Do Good Design
David Berman
Most recent posts:

- [Typography for the Blind](#)
- [The Code of Ethics for designers: why should our clients care?](#)
- [Hate crime or highway humour?](#)



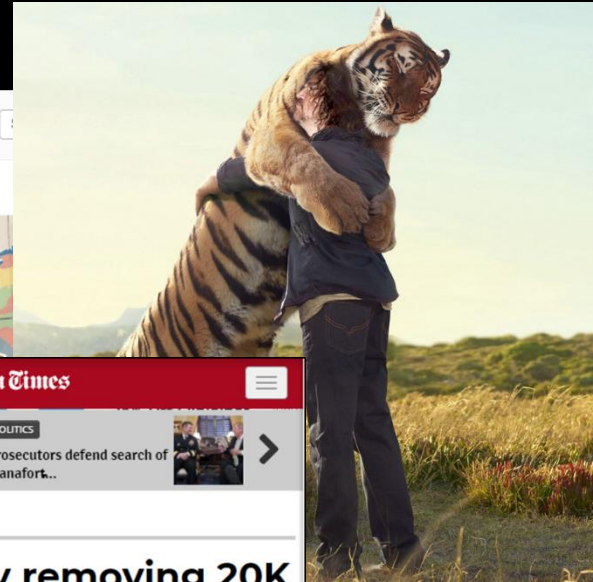
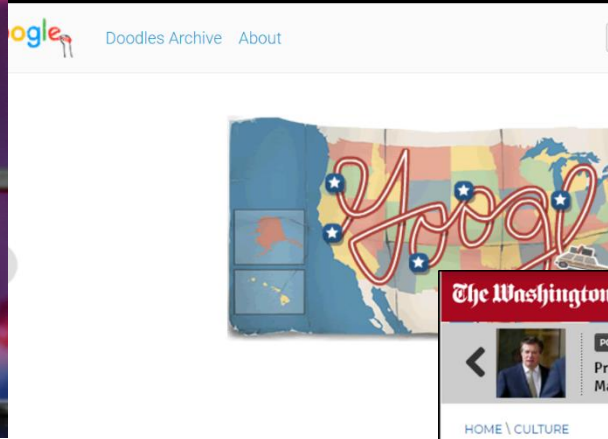
Design school didn't tell you...
Mark Busse
Most recent posts:

- [Where do ideas come from? - Part II](#)
- [Where do ideas come from?](#)
- [I don't know](#)

month. What does
you?



6 reasons to care: accessibility



Berkeley removing 20K free videos after DOJ ruling, closed-captioning complaint



2018: legal expectations are shifting

Defendants with lawsuits brought against them recently:

America Online
Bank of America
BMI
Connecticut Attorney General
Government of Canada
Harvard University
MIT
NBA
NVA
Netflix
Penn State University
Priceline
University of California Berkeley
Reebok
Southwest Airlines
Target

Airline faces legal action for having inaccessible website for blind users

February 1, 2012 By Kevin May [Leave a Comment](#)

European low cost airline **BMI**Baby has been served with legal papers by the **Royal National Institute for**

The image shows two overlapping news articles. The top article is from The New York Times, dated February 12, 2015, titled "Harvard and M.I.T. Ar Captions" by Tamar Lewin. The article discusses advocates for the deaf filing federal lawsuits against Harvard and MIT for not providing closed captioning on their online lectures. The bottom article is from The Washington Times, titled "Berkeley removing 20K free videos after DOJ ruling, closed-captioning complaint". The article mentions a DOJ ruling and a complaint regarding closed captioning. A partial article from the Washington Times is also visible on the right side of the image, mentioning "Prosecutors defend search of Manafort...".

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

Canada Revenue Agency: forms website (the "digital first" dividend)

The image shows a browser window displaying the Canada Revenue Agency website. The browser's address bar shows the URL www.cra-arc.gc.ca/menu-eng.html. The website header includes the Government of Canada logo and navigation links for "Canada.ca", "Services", "Departments", and "Français".

The main navigation menu includes: **Individuals and families**, **Businesses**, **Charities and giving**, and **Representatives**. A large red maple leaf logo is positioned to the right of the navigation menu.

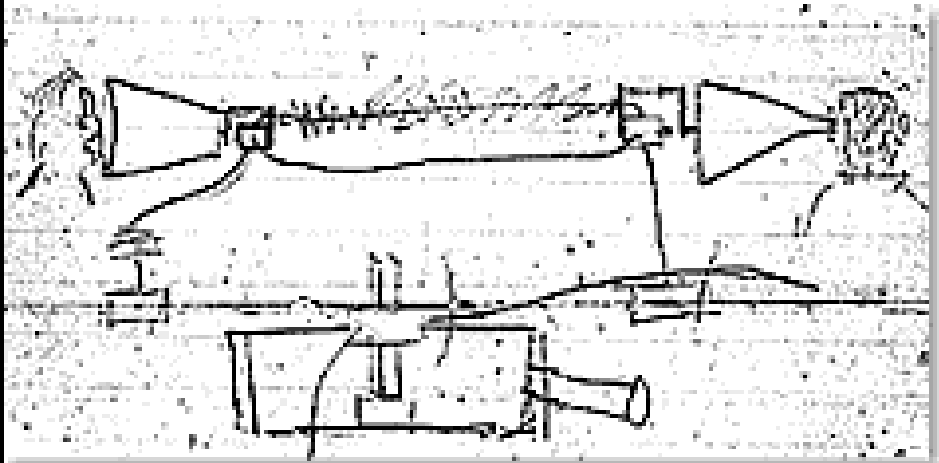
The main content area features a photograph of a family (a man, a woman, a young girl, and a boy) walking in a park. Below the photo is the text: **Supporting Canadian Families** and *Tax Cuts and Increased Benefits for Canadian Families*. At the bottom left of this section, there are navigation arrows and the text "Item 1 of 5".

On the right side of the page, there is a search bar and a secondary navigation menu with the same categories as the main menu. Below this is a breadcrumb trail: [Home](#) → [About the CRA](#) → [Get ready to file your 2014 income tax return](#).

The main heading for the right-hand section is **Get ready to file your 2014 income tax return**. Below this heading is a video player titled **Video: Filing Online - Fast, Easy, and Secure**, which shows a man standing in front of a computer screen displaying the CRA website. To the right of the video player is a box titled **I want to...** containing a list of links:

- [File my tax return online](#)
- [View filing due dates](#)
- [Track my refund](#)
- [Request direct deposit](#)
- [Change my address](#)
- [View my T4s](#)
- [Make a payment](#)
- [See my tax information](#)
- [Get help](#)
- [Find out about tax credits](#)
- [File my tax return on paper](#)

1876: accessibility dividends from a U.S. college for the Deaf



1938: hearing aid innovation

Battery-Operated Hearing Aid Is Easily Concealed

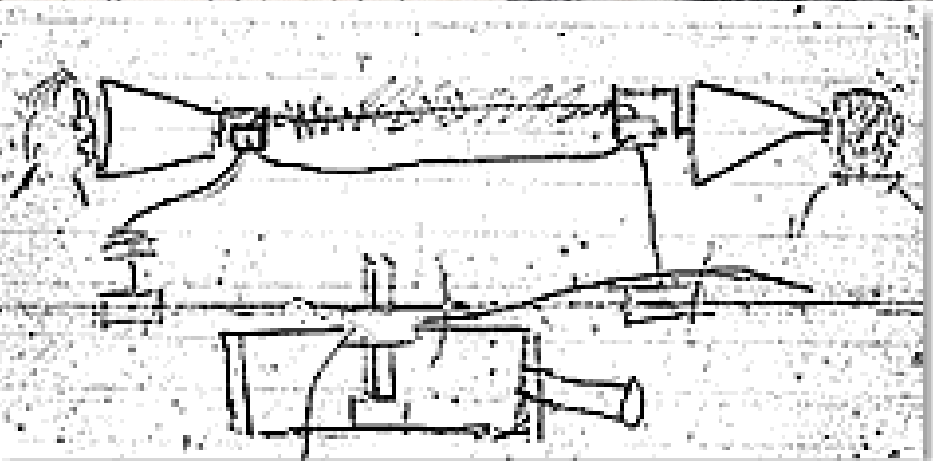


Hearing Aid for Cat

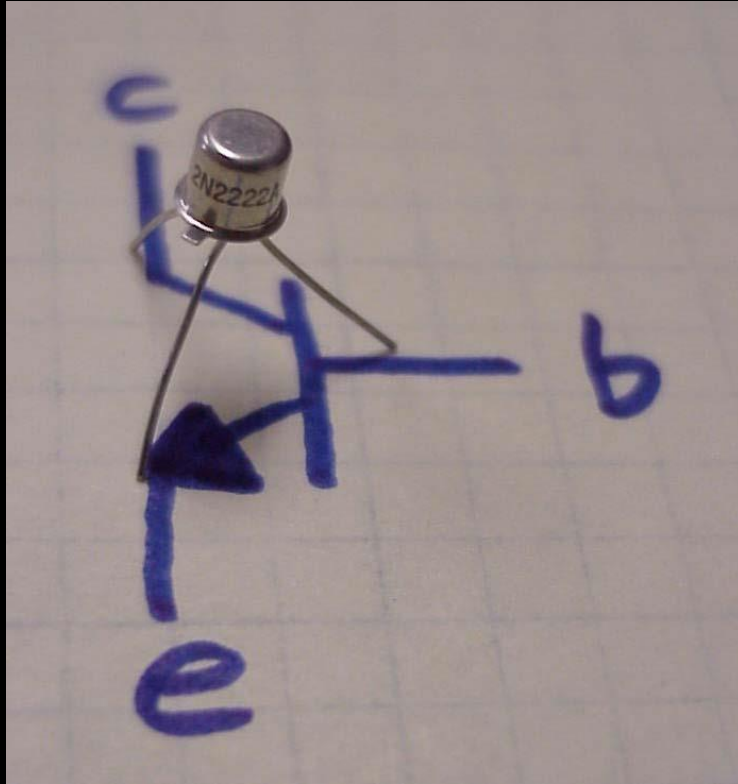
"Unfortunate" heard for the first time recently when the cat's owner, Mrs. A. H. Cooper of Fort Worth, Tex., had a hearing aid fitted to the feline. The hearing aid is the latest of a series of steps by Mrs. Cooper to improve the life of the unfortunate cat, which was born deaf, crippled in the hind legs and had no teeth until the age of two.

SMALL that it can be effectively concealed while in use, as shown in the photograph, a newly developed battery-operated hearing aid

is the most important development in the history of hearing aids. It is a "transmitter" that is regulated by a battery, sitting in the ear, and is connected into a receiver which is placed in the ear. It is the best act of this purpose in the immediate future. It permits the construction



1947: Bell Labs + quantum physics



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



SIP

PUFF

SIP

PUFF

SIP

PUFF

SIP

PUFF

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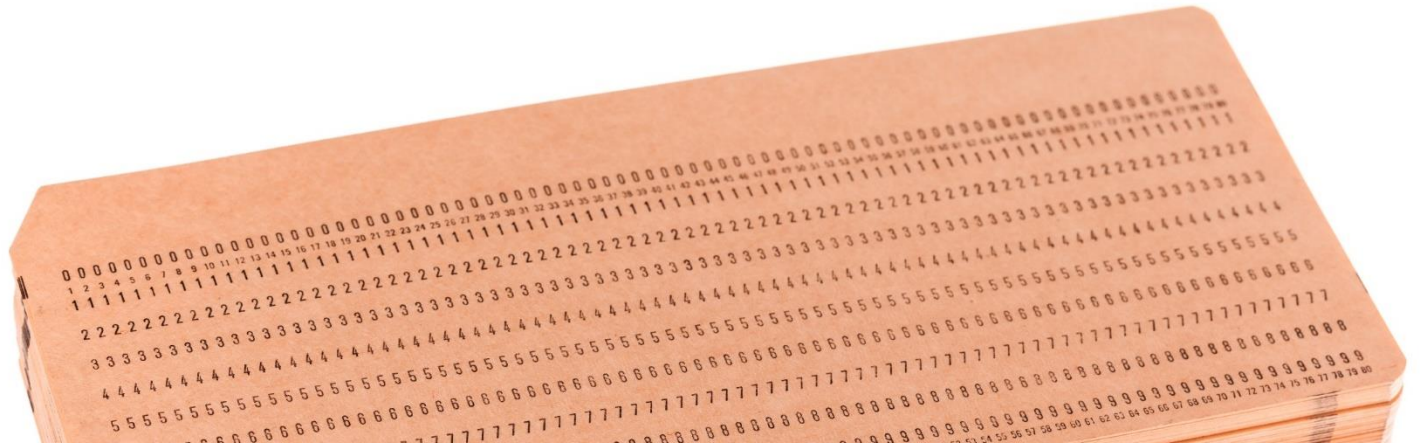
SIP

Accessibility: the news is good



- Our world has never been so **accessible**
- Information technology (especially the **Web**) is where improvement is most prevalent
- The accessibility quest drives **innovation**

DIFFICULTIES AND TECHNOLOGIES: AVOIDING TRADEOFFS



Assistive technologies



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



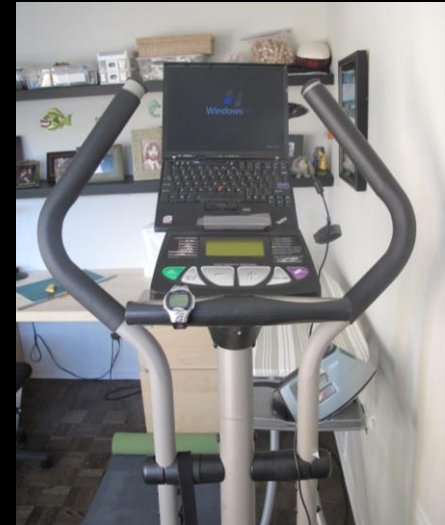
Kinds of disabilities and challenges

Examples

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

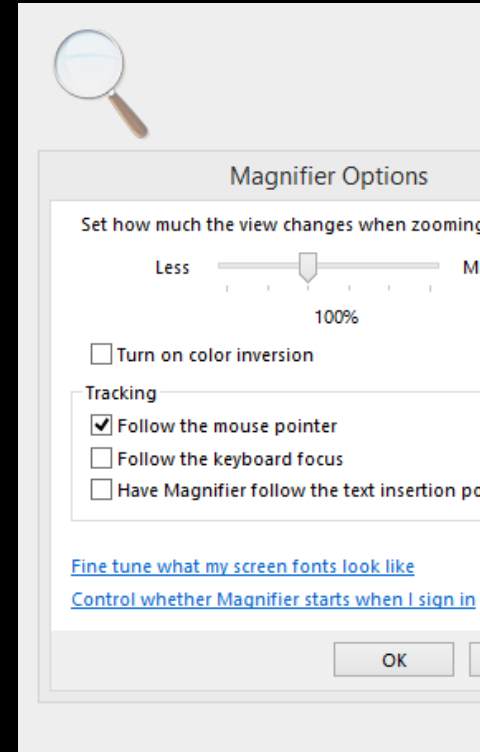
Impairments

- Visual...
- Dexterity / mobility / motor ...
- Hearing...
- Language and speech...
- Cognitive...
- Social...



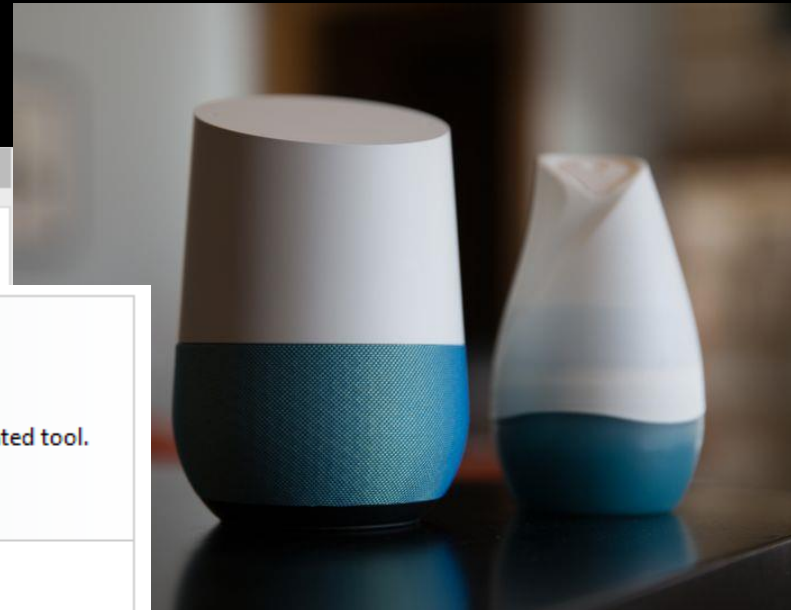
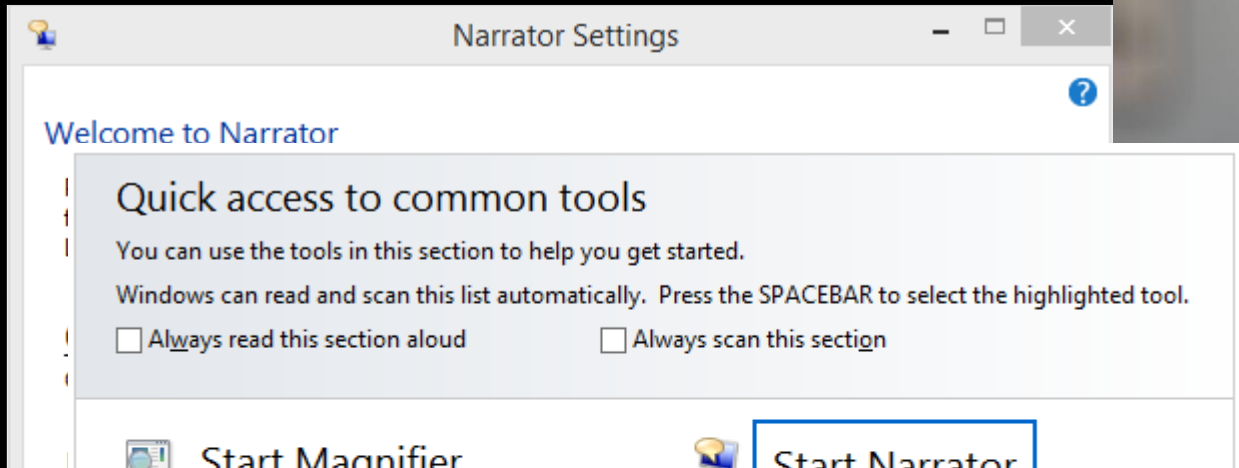
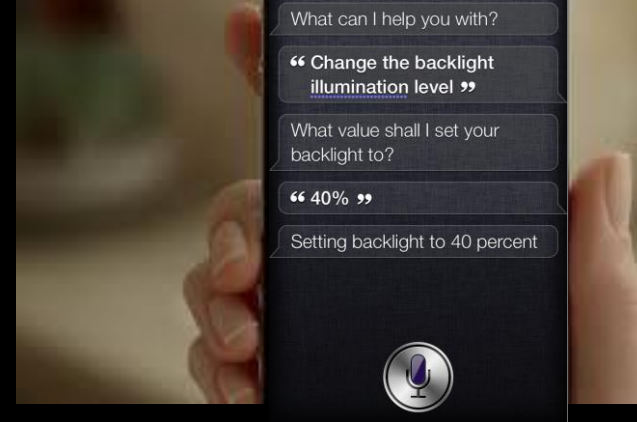
Instead of reading small... **magnify**

- Magnifier software (e.g. ZoomText)
- Large print software
- Large print keyboard
- Text size commands
- Pinch-zoom touch interfaces

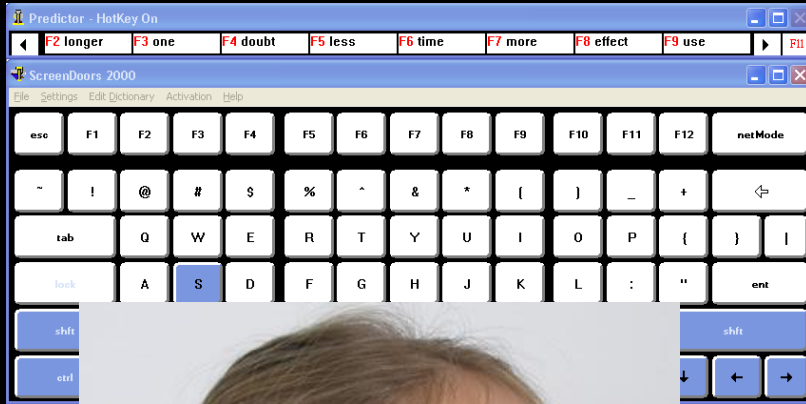


Instead of typing... talk

- Voice recognition commands the device through voice (for example, Dragon, Siri, Google Now)



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



- Alternative keyboards, input devices
- Software can assist typed input through anticipation and filtering

Instead of seeing less... enhance



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

"I can be the person I'm supposed to be."



Instead of mouse...point nose, blink!

NRC's Nouse scans head movements and eye blinks



davidberman.com



[FEATURES](#) [ABOUT](#) [DOWNLOAD](#) [PURCHASE](#) [NEWS](#) [SUPPORT](#) [CONTACT](#)

Nouse™ is a unique technology that allows users to work with a computer hands-free using only a webcam and the movement of their nose.



Nouse™ technology is approved by the Ontario Ministry of Health and Long-Care Assistive Devices Program

Nouse Technology: brief introduction



Instead of swiping and scrolling...

move your eyes

Tobii uses gaze alone with every Windows app



The ideal accessible digital campus

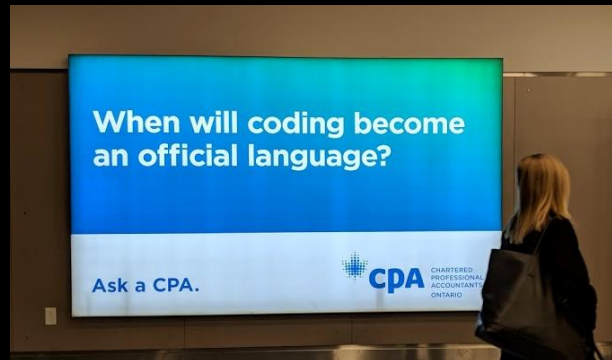
Usable by **everyone**

on any **user agent** (e.g. browser, app, reader)

on any kind of **device**

with any kind of **connection**

in any kind of **environment**



Common standards: let's demystify them!

*guidelines, recommendations, requirements, WCAG, success criteria, levels, WAI, ARIA, techniques, CLF, AODA, IASR, Section 504, Section 508 ICT refresh, ADA, W3C, ICT, ACAA, UDL, Mandate 376 EN 301 579, CPACC, CPWA, IAAP, WCAG2ICT, PDF/UA, WAS, **oh my!***

“It felt like I was being forced to learn a whole new language from someone who was deliberately trying to confuse me...”

| Employee, on WCAG 2

WCAG 2 success criteria



W3C (World Wide Web Consortium) publishes
WCAG 2 (Web Content Accessibility Guidelines)



WCAG 2 "conformance levels"

NOTHING

LEVEL **A**

LEVEL **AA**

LEVEL **AAA**

Worst ←

→ *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 2.0 Level AA compliant, it must meet 25 Level A + 13 Level AA standards

WCAG 2 trending globally

| | | | |
|---------------------|-------------------------------|------------------|-----------|
| Canada govt. | CLF 2.0 | WCAG 1.0 | 2001 |
| Canada govt. | Standard on Web Accessibility | WCAG 2.0 AA | 2011 |
| Ont. govt.+bus. | AODA IASR | WCAG 2.0 A / AA | 2012-2021 |
| Quebec govt. | SGQRI 008 | ~WCAG 2.0 | 2011 |
| Manitoba govt. | Website Standards | WCAG 1.0 | 2005 |
| USA, NY govt. | Section 508 | WCAG 1.0 partial | current |
| USA govt. | Section 508 ICT Refresh, ADA | WCAG 2.0 AA | 2018+??? |
| Illinois govt. | IITAA | ~WCAG 2.0 AA | 2015 |
| Australia govt.+biz | IPS/NTS | WCAG 2.0 A/AA* | 2012-2014 |
| EU govt. | Mandate 376/EN 301 549 | WCAG 2.0 | ~2019 |
| France govt. | RGAA 2.2.1 | ~WCAG 2.0 | 2011 |
| Germany govt. | BITV 2 | ~WCAG 2.0 | 2011 |
| New Zealand govt. | NZGWS 2.0 | WCAG 2.0 | 2011 |
| Norway | UU | WCAG 2.0 AA | 2014 |



Ontario ... Norway ... Israel ...



Ontario's AODA (Accessibility for Ontarians with Disabilities Act (2005) unleashed eAccessibility regulations on both government and private sector



U.S. Govt. Section 508, Section 504



January 18, 2018

Section 508 now = WCAG 2.0 AA

“The Section 508 Refresh”: The U.S. Access Board (the independent federal agency that stewards Section 508) refreshed Section 508:

The final rule updated **Section 508** to **WCAG 2.0 AA**.



2020? 2022?: ADA eAccessibility

DOJ predicted for 2016, and now unknown: Notice of Proposed Rule Making on **ADA Title II** (covers **state** and local government websites)

DOJ had predicted for 2018: Notice of Proposed Rule Making on **ADA Title III** (public accommodations... e.g., private sector, **private colleges**)

UPDATE: MORE DELAY FOR DOJ
WEB REGULATIONS

May 5, 2016 / by Alexis Kramer

**SURPRISE! DOJ DELAYS WEB
ACCESSIBILITY RULEMAKING,
AGAIN**



ADA Title II and Title III will likely, eventually, be WCAG 2 Level AA

Title II: all public entities at the local level (school district, municipal, city, or county), state level, and public transportation

Title III: business and non-profits: "equal enjoyment of the goods, services, facilities, or accommodations of any place of public accommodation" including most lodging (inns, hotels), recreation, transportation, **education**, dining, stores, care providers, places of public display



69%



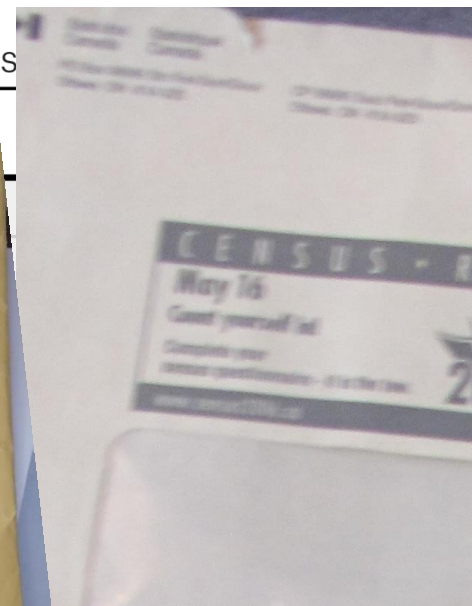
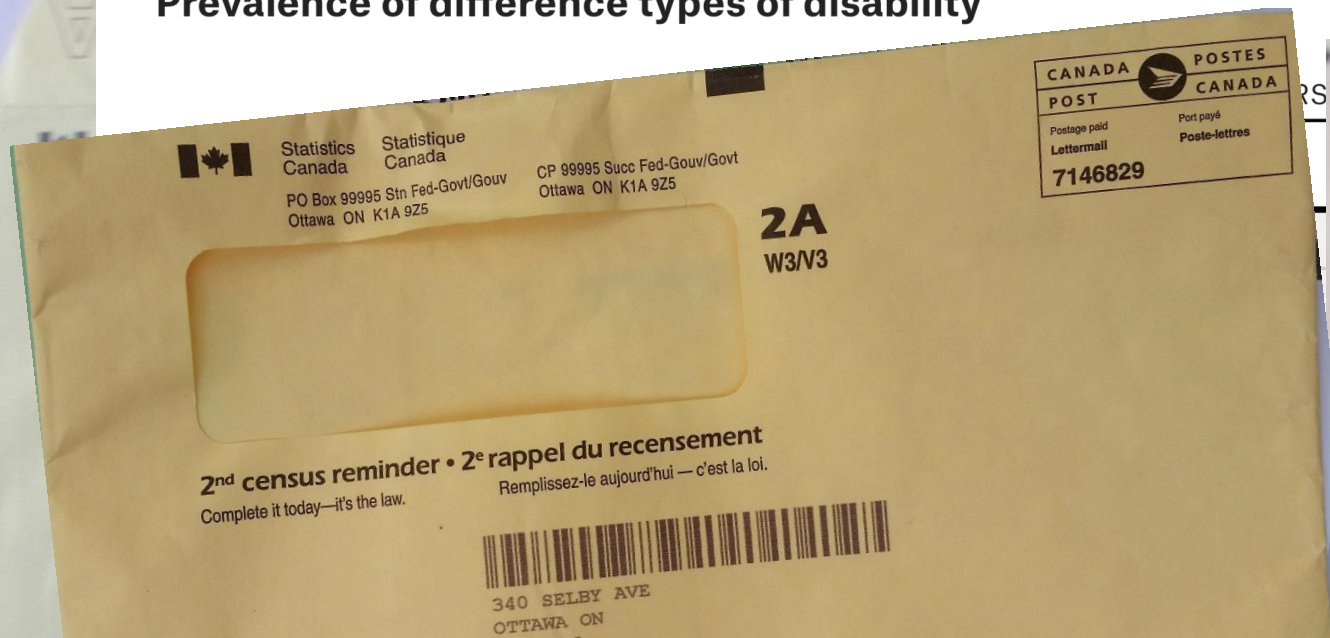
One In Six Eligible Voters Has A Disability | FiveThirtyEight
fivethirtyeight.com



Politics

Share on Facebook

Prevalence of difference types of disability



2013: WCAG 2.0 for Non-Web ICT 2014, 2015, 2016, 2017, 2018...



Guidance on Applying WCAG 2.0 to Non-Web Information and Communications Technologies (WCAG2ICT)

W3C Working Group Note 5 September 2013

This version:

<http://www.w3.org/TR/2013/NOTE-dpub-accessibility-20130905/>

Latest version:

<http://www.w3.org/TR/2016/NOTE-dpub-accessibility-20160503/>

Previous version:

<http://www.w3.org/TR/2013/NOTE-dpub-accessibility-20130905/>

Latest editors' draft:

<http://www.w3.org/TR/2016/NOTE-dpub-accessibility-20160503/>

Digital Publishing and Accessibility in W3C Documents

W3C Interest Group Note 03 May 2016

This version:

<http://www.w3.org/TR/2016/NOTE-dpub-accessibility-20160503/>

W3C / dpub-accessibility

<> Code ⓘ Issues 0 🔗 Pull requests 0

A11Y DPUB Techniques

Charles LaPierre edited this page on Mar 7 · 3 revisions

Table of Contents

- A11Y DPUB Techniques based on WCAG 2.0
 - General Techniques
 - HTML and XHTML Techniques
 - CSS Techniques
 - Client-side Scripting Techniques
 - Server-side Scripting Techniques
 - SMIL Techniques
 - Plain Text Techniques
 - ARIA Techniques
 - Flash Techniques
 - Other Techniques

2014: EPUB 3 (now contains DAISY!)

2016: EPUB Accessibility 1.0

EPUB 3 Overview



Recommended S

THIS VERSION

<http://www.idpf.org>

LATEST VERSION

<http://www.idpf.org>

PREVIOUS VERSION

<http://www.idpf.org>

A [diff of changes](#) from the

Copyright © 2010-2013

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dissemination of this work
Digital Publishing Forum



EPUB Accessibility 1.0

Conformance and Discovery Requirements for EPUB Publications

Editor's Draft 1 August 2016

This version

<http://www.idpf.org/epub/a11y/accessibility-20160801.html>

Latest version

<http://www.idpf.org/epub/latest/accessibility>

PDF/UA



PDF/UA: the PDF specification exclusively for universal access is an ISO standard (ISO 14289)



2008 PDF/E

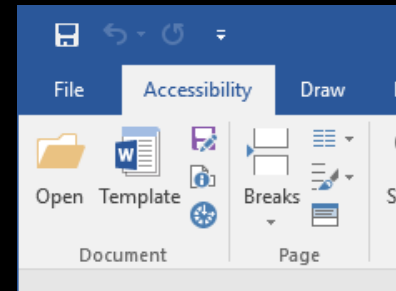
2010 PDF/VT

2012 PDF/UA

Sustainable PDF: go to the source

Build accessibility into the files (and templates) that accessible outputs originate from, so you'll automatically...

1. get accessibility in **current exports** to PDF and HTML
2. avoid repeating repairs in **future versions** of documents
3. enjoy the benefits of accessibility **earlier** (inclusiveness, better search)



Sustainable #a11y starts at source



Microsoft Word | 2016/365 or 2019 preferred



Microsoft PowerPoint | 2016/365 or 2019 preferred



Microsoft Excel | 2016/365 or 2019 preferred



Adobe InDesign | CS5.5, CS6, CC preferred



Adobe LiveCycle Designer / AEM Forms | ES2 (aka 9) or ES4



Adobe Acrobat Pro | X, XI or DC preferred



Google Drive



HTML (incl. converters such as EVO HTML to PDF Converter)

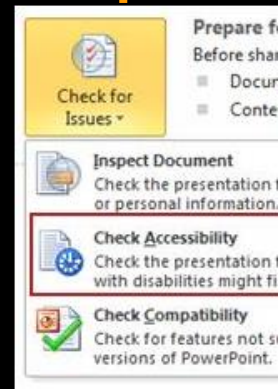
Microsoft Office to PDF workflow



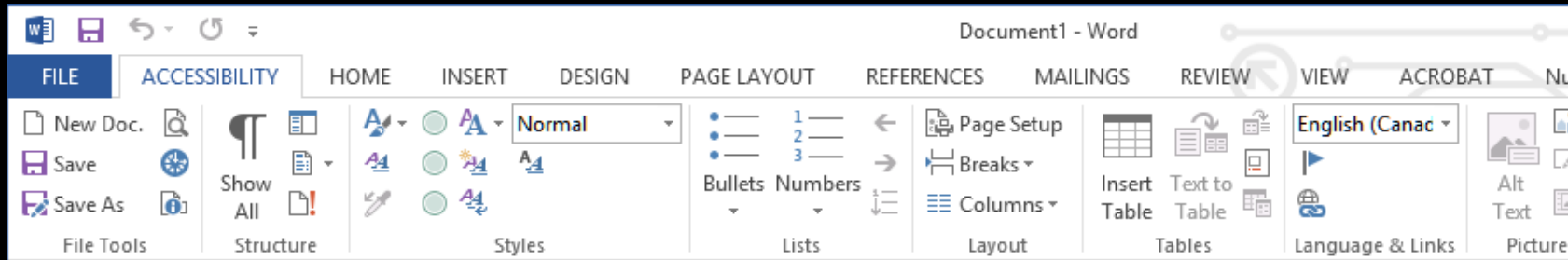
Office 2000-2003, 2007: either Acrobat or Microsoft PDF add-in

Office 2010/2013/2016/365/2019: with Acrobat X, XI, or DC add-in (on 32-bit or 64-bit Windows and MacOS)

1. In Office 2010/2013/2016/365/2019, File> Info> Check For Issues> Check Accessibility
... fix any errors, consider any warnings
2. Acrobat ribbon> Preferences> Settings tab:
 - a. check *Enable Accessibility And Reflow With Tagged PDF*
 - b. check *Enable Advanced Tagging* (in Word 2010, this setting is on the Word tab)
 - c. Advanced Settings button> General> uncheck *Optimize For Fast Web View*
 - d. Advanced Settings button> Fonts section>
 - i. check + set *Subset Embedded Fonts When Percent...* = **1%**
 - ii. empty the *Never Embed* list
3. Acrobat ribbon> Create PDF (if file has Type 1 fonts, you may have to Save As PDF instead)
4. Acrobat Pro> Tools> Action Wizard> Make Accessible Wizard> "Set Open Options" and "Set Tab Order Property"
5. For PDF/UA compliance (or a more accessible file), use Acrobat Pro to add a Document tag as the root element above Sect, fix remaining issues, turn on PDF/UA identifier



Accessibility Ribbon for Word



All the frequent tools you need for accessibility, in one ribbon.

for Word for Windows 2010, 2013, 2016/365, 2019:

davidberman.com/ribbon

davidberman.com/ruban

davidberman.com/jiemian



Accessible classroom: WCAG 2 AA

- Accessible physical classroom
- Accessible distance learning
- Accessible hybrid learning
- Accessible LMS

Case: UDL mechanics at a university in Florida

The image shows a presentation slide titled "Accessible hybrid teaching" with a Microsoft Office ribbon at the top. The slide content includes a paragraph and three speech bubbles. An "Accessibility Checker" window is open on the right side of the slide.

Accessible hybrid teaching

It's a habit. You'll learn to present, inspire, teach, captivate, and motivate ... in a way that includes everyone's abilities and learning styles.

You'll make mistakes, and it'll be okay: at minimum, from the start, demonstrating your

*"Whoever's first to say they see a cat in one of my slides wins! Oops, no, uhmm..."**

*"Okay: stand up if any of these things describe you! Wait. Sorry: raise your hand uh, no: justasec..."**

...who


Accessibility Checker

Inspection Results

Errors

- Missing alternative text (292)
- Missing slide title
 - Slide 16
 - Slide 160

Warnings

- Use captions for audio and video (Slide 135)
- Hard-to-read text contrast
 - Table 10 Row 1 Cell 2 (Slide 88)
 - Table 10 Style has low contrast (...)
 - Table 11 Row 1 Cell 2 (Slide 88)
 - Table 11 Style has low contrast (...)
- Check reading order (151)

Tips

- Duplicate slide title
 - 2006 Census (Slide 17)
 - 2004 (Slide 35)

Intelligent Services

- Suggested alternative text
 - Picture 7 (Slide 6)

University of North Carolina's Ron Mace architected UDL



Universal Design for Learning: better learning outcomes for all

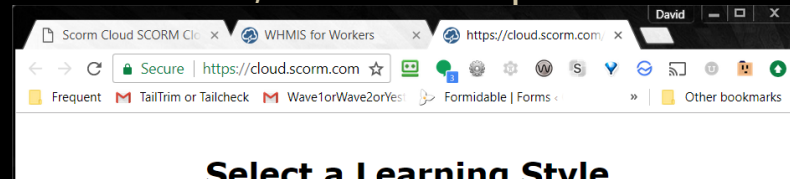
1. **Provide multiple means of engagement:**

remove barriers in order to increase engagement

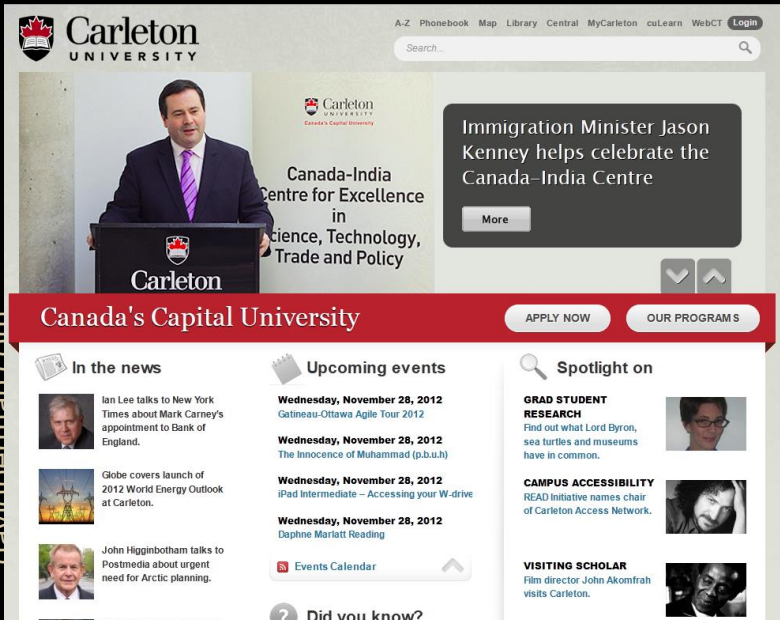
2. **Provide multiple means of action and expression:** multiple modes for learners to show what they know

3. **Provide multiple means of representation:** provide access to all

...so that all learners can acquire the same information, engage in equivalent interactions, and enjoy the same services, with a comparative level of ease.



Carleton University: accessible WordPress, accessibility training a community



A screenshot of the Carleton University website homepage. At the top left is the Carleton University logo. To its right is a navigation menu with links: A-Z, Phonebook, Map, Library, Central, MyCarleton, cuLearn, WebCT, and Login. Below the navigation is a search bar. The main content area features a large image of Immigration Minister Jason Kenney speaking at a podium. To the right of the image is a text box with the headline "Immigration Minister Jason Kenney helps celebrate the Canada-India Centre for Excellence in Science, Technology, Trade and Policy" and a "More" button. Below the main image is a red banner with the text "Canada's Capital University" and two buttons: "APPLY NOW" and "OUR PROGRAMS". The page is divided into three columns: "In the news" with a list of news items, "Upcoming events" with a list of events, and "Spotlight on" with three featured individuals and their descriptions.

Carleton UNIVERSITY

A-Z Phonebook Map Library Central MyCarleton cuLearn WebCT Login

Search...

Immigration Minister Jason Kenney helps celebrate the Canada-India Centre for Excellence in Science, Technology, Trade and Policy

More

Carleton

Canada's Capital University

APPLY NOW OUR PROGRAMS

In the news

Upcoming events

Spotlight on

GRAD STUDENT RESEARCH
Find out what Lord Byron, sea turtles and museums have in common.

CAMPUS ACCESSIBILITY
READ Initiative names chair of Carleton Access Network.

VISITING SCHOLAR
Film director John Akomfrah visits Carleton.



A screenshot of the International Summit on Accessibility 2014 website. At the top left is the Carleton University logo. To its right is the text "ACCESSIBILITY SUMMIT". Below the logo and text is a search bar. The main content area features a large image of a man in a blue shirt interacting with a group of children. To the right of the image is the text "International Summit on Accessibility 2014" with a red ribbon logo. Below the main image is a red banner with the text "International Summit on Accessibility 2014" and two buttons: "Register" and "Become a Sponsor". The page is divided into two columns: "Welcome Message" with a list of links (News, About, Photo Gallery, Program) and "July 12-15, 2014" with the location "Ottawa, Ontario, Ottawa Convention Centre". Below the location is a paragraph of text: "Everyone has a part to play in making the world a more accessible and inclusive place. Thank you for supporting the first International Summit on Accessibility." and a section for "Our Sponsors".

Carleton UNIVERSITY

ACCESSIBILITY SUMMIT

Search Accessibility Summit

International Summit on Accessibility 2014

International Summit on Accessibility 2014

Register Become a Sponsor

Welcome Message

News

About

Photo Gallery

Program

July 12-15, 2014

Ottawa, Ontario, Ottawa Convention Centre

Everyone has a part to play in making the world a more accessible and inclusive place. Thank you for supporting the first International Summit on Accessibility.

Our Sponsors

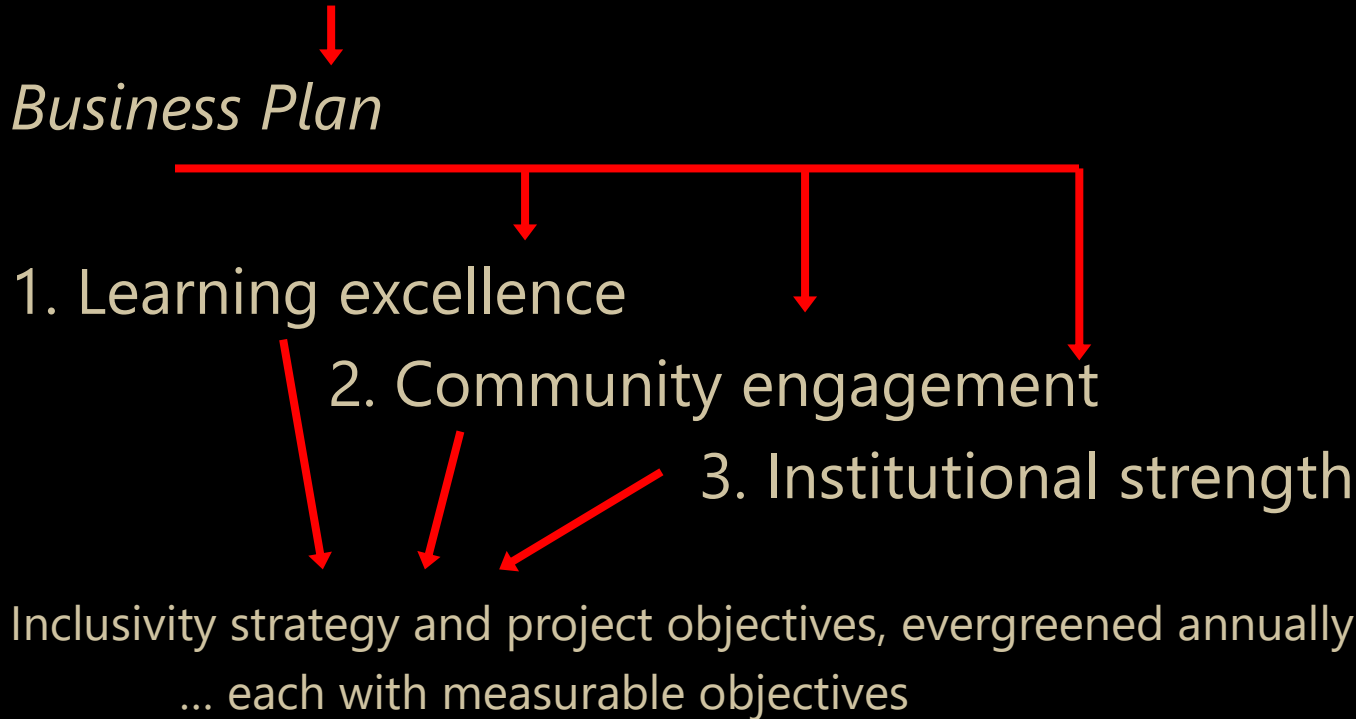
SLC: case study in savings

St. Lawrence College fulfills its
business plan through
accessibility



SLC: trace to the college mission

Vision, Mission, *SLC Strategic Plan*



SLC: Inclusivity gap elimination: assistance and opportunity

- comply
- strive for delight,
rather than
accommodation
- **drive down costs**
- evolve the mindset:
accessibility,
collaboration

Appendix A ¶
Chronological Work Schedule ¶
ADA-Integrated Accessibility Standards ¶

| Standard ¶ H | Completion Date ¶ | Requirements |
|-----------------|----------------------|--|
| Employment ¶ | January 1, 2012 ¶ | Individualized emergency plans for employees with disabilities who need assistance during an emergency. 27 (1) ¶ → Designated assistance during an emergency. (2) ¶ → Provide information as soon as possible to employees who become aware of the need for information. 27 (3) ¶ → Review individualized emergency plans. (a) Employee moves to a different location. (b) When plans are reviewed. (c) When employer reviews emergency response plans. ¶ |
| Information ¶ | January 1, 2012 ¶ | All emergency procedures, plans, and information must be made available to employees with disabilities in an accessible format or with appropriate supports. 13 (1) ¶ |

SLC: course outlines



Our Vision: To be a great learning college
 Mission: To meet the learning needs of our students and our community

Course Outline

| | | | |
|---|------------------------------|-----------------|------------------------|
| Course Name: | History of Musical Theatre 1 | Program(s): | Music Theatre |
| Course Code: | MUTH1 | Version #: | 4 |
| Course Hours: | Class: 30 Lab: | Field: | Other: Total Hours: 30 |
| Co-Requisites: | N/A | Pre-Requisites: | N/A |
| Prepared by: | Brian Frommer | | |
| Campus Dean/Associate Dean Signature of Approval: | | | |
| Date approved: | | | |

Course Description

This course will, through lectures and discussions, examine the rich history of musical theatre in its various forms from its known origins as Poetic Drama in Athens in the 5th and 6th Centuries B.C. to the performances first labeled as 'musical theatre' in England in the 19th century.

Course Learning Outcomes

At the conclusion of this course, you will be able to:

- Identify the movements and breakthroughs that helped shape the history of musical theatre.
- Analyze the styles and theatre of performance.
- Identify the movements of European and American musical theatre.

College Policies and Procedures

Grading System
 The grading scheme is applicable to all graded courses at St. Lawrence College. All final grade submissions will be numeric representing a percentage score between 0 and 100 and will be converted to letter grades automatically by the student records system.

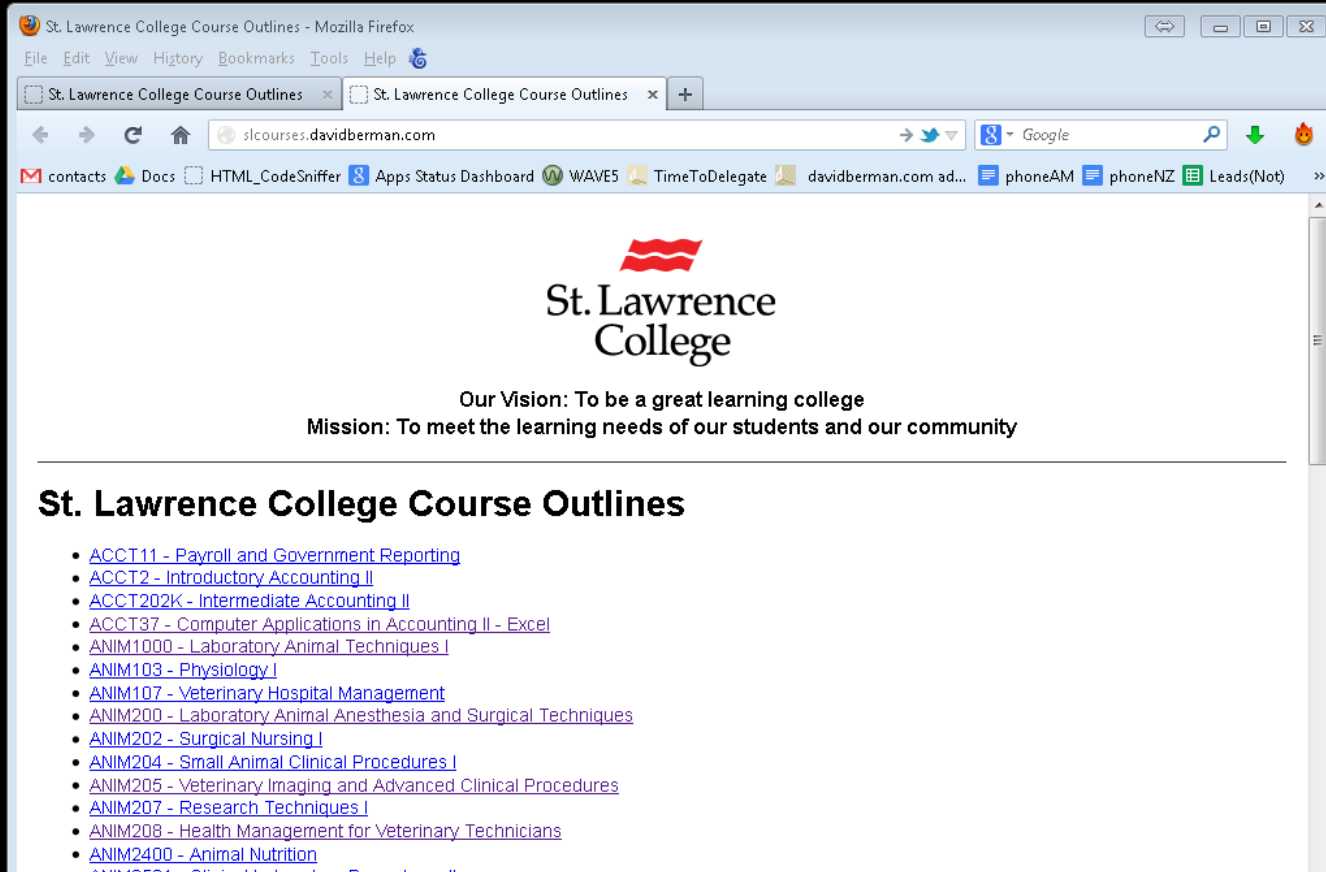
| Letter Grades | Grade Points | Equivalent Percentages |
|---------------|---|------------------------|
| A+ | 4.00 | |
| A | 3.90 | 90-100 |
| A- | 3.70 | 85-89 |
| B+ | 3.30 | 80-84 |
| B | 3.00 | 77-79 |
| B- | 2.70 | 73-76 |
| C+ | 2.30 | 70-72 |
| C | 2.00 | 67-69 |
| C- | 1.70 | 63-66 |
| D+ | 1.30 | 60-62 |
| D | 1.00 | 57-59 |
| D- | 0.70 | 53-56 |
| G | | 50-52 |
| NG | Requirements Met Not included in GPA calculation | N/A |
| F | Requirements Not Met Not included in GPA calculation | N/A |
| | 0.00 | 0-49 |

Continuance Policy
 College policy stipulates that students must pass 2/3 of their courses or 70% of their course hours in order to continue as a full time student.

Program specific continuance and readmission policies that apply directly to this course will be outlined in Appendix A (in the Program Specific Continuance and Readmission Policy in the Assessment/Evaluation Section).

Students with Disabilities
 It is the policy of St. Lawrence College to accommodate students with disabilities, pursuant to federal and provincial law. When a student with documented disability requires learning accommodations then the student must register with the Accessibility Services Office on campus. Once reasonable accommodations are approved by the Accessibility Services Office, the student must register with the Accessibility Services Office.

SLC: User view: main menu



The screenshot shows a Mozilla Firefox browser window with the address bar displaying `slcourses.davidberman.com`. The page content includes the St. Lawrence College logo, a vision statement, and a list of course outlines.

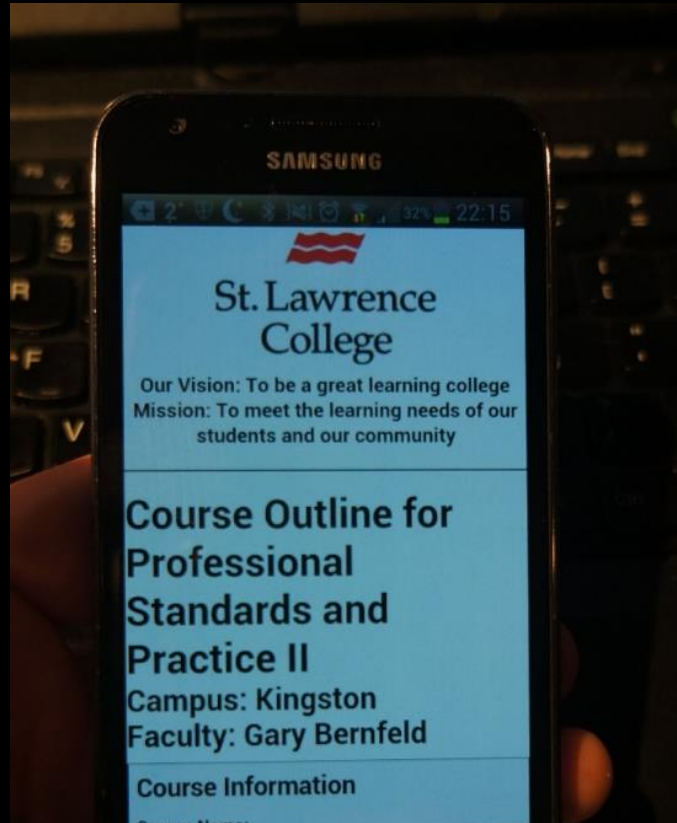
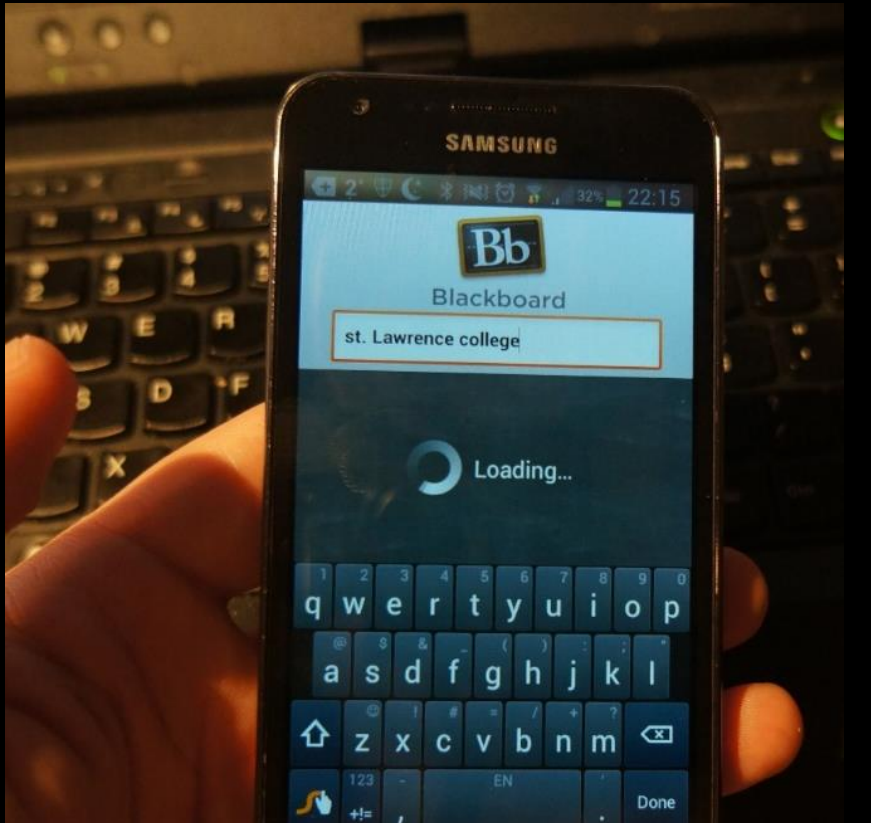
St. Lawrence College

Our Vision: To be a great learning college
Mission: To meet the learning needs of our students and our community

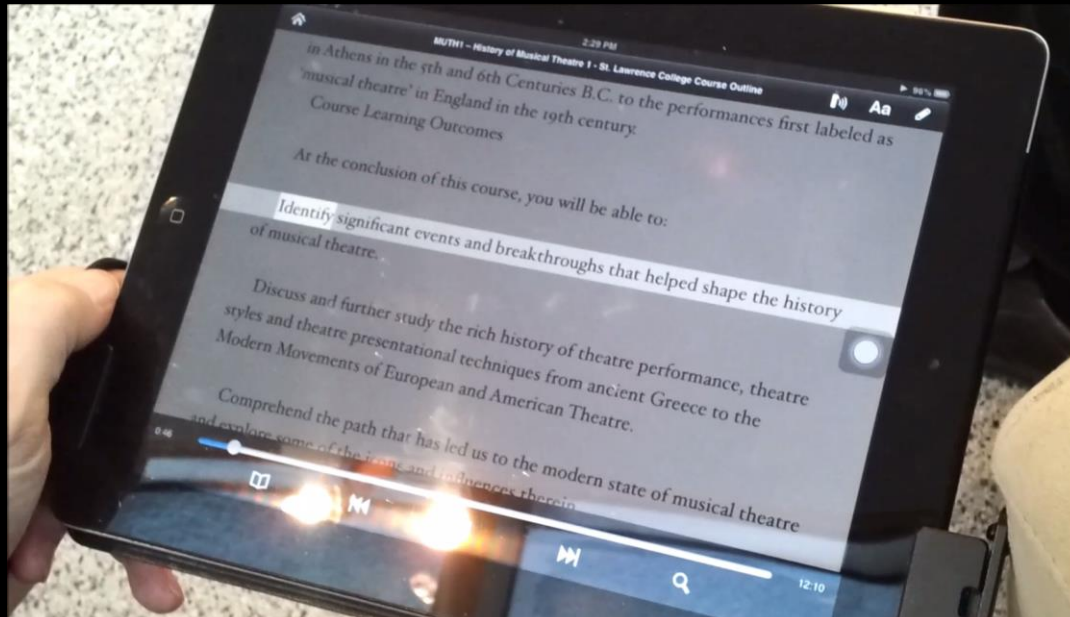
St. Lawrence College Course Outlines

- [ACCT11 - Payroll and Government Reporting](#)
- [ACCT2 - Introductory Accounting II](#)
- [ACCT202K - Intermediate Accounting II](#)
- [ACCT37 - Computer Applications in Accounting II - Excel](#)
- [ANIM1000 - Laboratory Animal Techniques I](#)
- [ANIM103 - Physiology I](#)
- [ANIM107 - Veterinary Hospital Management](#)
- [ANIM200 - Laboratory Animal Anesthesia and Surgical Techniques](#)
- [ANIM202 - Surgical Nursing I](#)
- [ANIM204 - Small Animal Clinical Procedures I](#)
- [ANIM205 - Veterinary Imaging and Advanced Clinical Procedures](#)
- [ANIM207 - Research Techniques I](#)
- [ANIM208 - Health Management for Veterinary Technicians](#)
- [ANIM2400 - Animal Nutrition](#)

SLC: usability testing on mobile tech



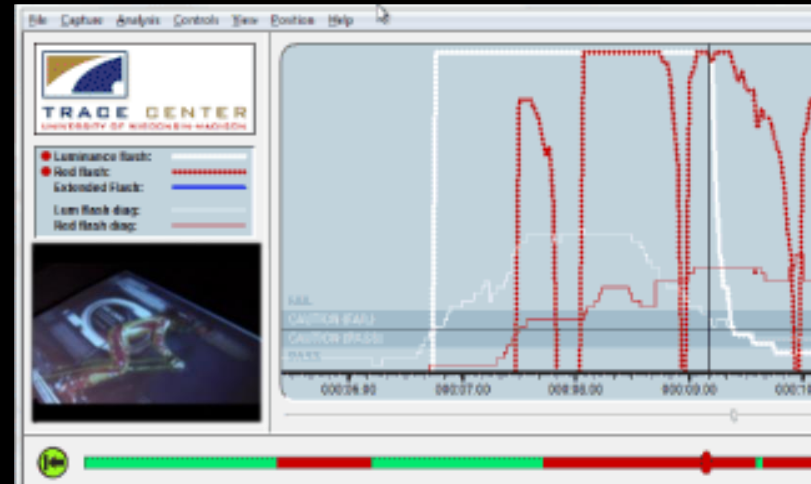
...and assistive technologies,
with non-visual and differently
learning superusers



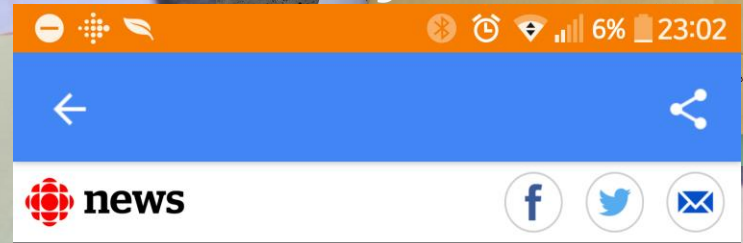
SLC recommendation: achieve accessibility via smart procurement

Sample clause for multimedia / photosensitive epilepsy:

"Any multimedia delivered as part of this contract must comply with W3C WCAG 2 success criterion 2.3.1"



Canada's most recent accessible census sets world efficiency record



Politics

Statistics Canada celebrates 'best census since 1666'

Response rate for newly restored long-form census was 97.8%, the best ever recorded, agency reports

Canada's most recent accessible census sets world efficiency record

- World record: 68% filled out census online (surpassing 2016 65% goal)
- 97.8% response rate (best ever)
- 9 out of 10 households completed the survey without help



Gallaudet University



If you could ask only evaluation question of students, what would it be?

The screenshot displays the eXtension! dashboard for a user named John Smith. The interface is divided into several sections:

- Header:** Includes the eXtension! logo, a welcome message for John Smith, a language dropdown set to English, and a Sign Out button.
- Navigation:** A dark sidebar on the left contains icons for Home, Projects, Reports, Docs, Question Bank, Admin, Recent MyEd, and Help.
- My Dashboard:** Features four action buttons: New Project, New Report, View Projects, and View Reports.
- My Tasks:** A list of tasks with search and search buttons. The tasks include:
 - Project file marked here - Public copy of PMED project (Engineering - Fall 2015) due Sep 18, 2015.
 - Complete the course evaluations for Engineering - 100 (Engineering - Fall 2015) due Oct 3, 2015.
 - Cross-faculty distribution and score across - Postdoctoral Studies (Postdoctoral Studies - Summer 2015) due Nov 6, 2015.
 - Complete the course evaluations for Agriculture and Environmental (Agriculture and Environmental - Summer 2015) due Aug 26, 2015.
 - Course Teacher evaluation (Business - Fall 2015) due Jul 16, 2015.
- My Reports:** A section for reports with a search bar and filters for Limit Search Results, Category, Subcategory, Project Title, and Entry Date.
- Response Rates:** A section titled 'OVERALL TASK STATUS' showing a circular progress indicator for 83% Response Rate. Below the indicator are statistics: 4125 Responses, 735 Pending, and 638 Expired. A 'Go to CRM' button is also present.
- Latest Activity:** A section for recent activity with a search bar and a list of items, including 'Project file marked here - Public copy of PMED project'.

If you could ask only evaluation question of students, what would it be?

“My first week at Gallaudet changed my life. It taught me I was no less than anyone else ... that I could do anything.”

| Alex Leffers, current content webmaster, gallaudet.edu



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twitter.com/davidberman



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How did I do? davidberman.com/evaluation

Next:

Accessible Word to PDF | online | 3 Oct 2018 | davidberman.com/wordnext

WCAG 2 eAccessibility | online | 29 Nov 29 2018 | davidberman.com/next

More: davidberman.com/courses/schedule

Reach me: berman@davidberman.com / +1-613-728-6777

David's guides, coaching on-site courses

"The New Standard on Web Accessibility"

"Accessible PDF by Design"

"Accessible Virtual Classrooms"

"Accessible Distance Learning"

"Perfecting Your Web Branding Strategy"

Available for \$97 each from

davidberman.com/store

(and today's attendees will receive a copy of the latest edition of *Do Good Design*, at no additional cost... mention code

"**BLUEROCKS**" with your order)



Read the first 40 pages of *Do Good Design* free
at Google Books

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**Don't just do good
evaluations, do good!**



Need a white paper? Links to everything I've mentioned? PDF of my slides? Questions?

Email me:

berman@davidberman.com



Acknowledgments and credits

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