DAVID CAHALANE

Breaking the Barrier to Enterprise Adoption

Why Accessibility Matters



Who Am I?

- KDE contributor since 2018
- Cloud & Infrastructure Engineer at Bixal
- Contractor for the US Federal Government
- DevOps and infrastructure operations



What is Accessibility?

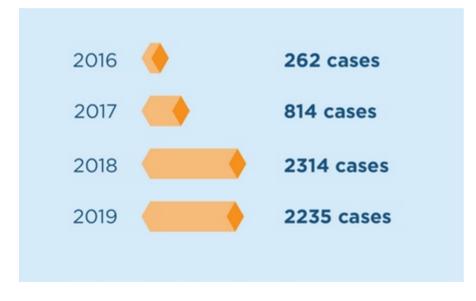
Making a digital product usable for the maximum number of people, regardless of physical or cognitive ability.



Why Accessibility for KDE?

Akademy

ADA lawsuits due to inaccessible software



Overlap with Organizational Goals

- Increases professionalism in both organizational standards and product delivery.
- Fundamental to human-centered design.

Ensures Legality

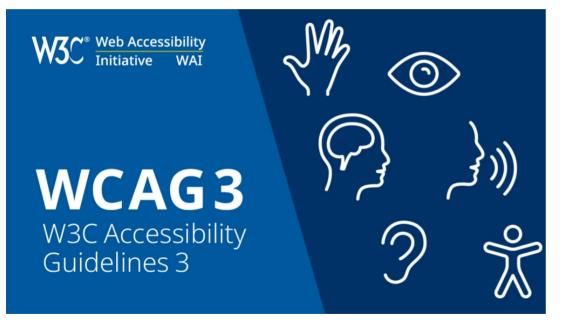
- Public institutions demand high standards for accessibility.
- Corporations won't gamble on an inaccessible product that could get them sued or cause loss of business.

Pathway to Proven Growth Strategy

- Some of KDE's biggest successes hinge on partnerships with schools and government.
- Brazil, 2008
- Valencia, 2005
- Kerala, 2019

Compliance with Accessibility law is essential to further such opportunities in additional countries.

Web Content Accessibility Guidelines (WCAG)



Akademv

W3C Standard

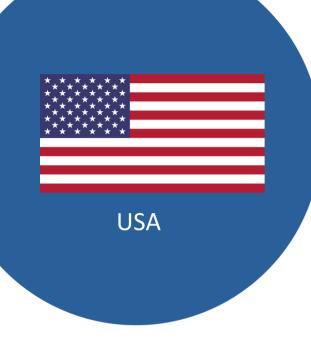
• Governed by the World Wide Web Consortium

Test against specific criteria

- WCAG rating on a scale of A to AAA based on coverage of numerous criteria.
- Most laws target AA rating.

Principles

- <u>Perceivable</u>: Content can be assessed with an alternate sense. Captions, alt text, etc.
- **Operable**: People are able to use the product. Keyboard navigation, motion can be paused, etc.
- <u>Understandable</u>: UI consistency, element labels, etc.
- **<u>Robust</u>**: Compatibility with users and current technologies.



Section 508 (1998)

- WCAG 2.0 is law
- Government services
 only
- Applies to public websites, software, and hardware.

Americans with Disabilities Act (1990)

- Protects the rights of disabled people in society.
- Employees have legal right to accommodation.
- Applies to both private and public sectors.

Åkademy



EUROPEAN UNION

EN 301 549 (2014)

- WCAG 2.1 compliant
- Applies to hardware, software, websites, and mobile apps
- Large majority of public websites are not in compliance as of 2019.





BITV (2002)

- Barrierefreie-Informationstechnik-Verordnung
- WCAG 2.1 since 2019
- Applies to public websites and mobile apps

Disability Equality Act (2002)

- Behindertengleichstellu ngsgesetz (BGG)
- Similar to the ADA
- Broader in scope
- Ensures the rights of disabled people in work and society.



Åkademy

Law 34 of 2002

- "De servicios de la sociedad de la información y de comercio electrónico" (LSSICE)
- Standard UNE 139803
- WCAG 2.0 since 2012
- Applies to public sector websites



Law of 19 July 2018

- WCAG 2.1 compliant
- Applies to public websites and mobile apps
- Must list and cite all WCAG criteria which are not fully met

VPAT and ACR

Three columns of VPAT® WCAG table

Crietria	Conformance Level	Remarks and Explanations	\
 <u>1.1.1 Non-text Content</u> (Level A) Also applies to: Revised Section 508 501 (Web)(Software) 504.2 (Authoring Tool) 602.3 (Support Docs) 	Web: Electronic Docs: Software: Closed: Authoring Tool:	Web: Electronic Docs: Software: Closed: Authoring Tool:	•

Accessibility Conformance Report (ACR)

- Required by US Government agencies before buying software.
- Easiest way is to submit a Voluntary Product Accessibility Template (VPAT).

VPAT

- Extremely thorough accessibility checklist
- Vendor's self-assessment and remarks on WCAG criteria
- Functionally similar to Belgian requirement
- Compatible with Section 508, WCAG, and EN 301 549.

KDE Applications

- LabPlot
- GCompris
- Okular



Accessibility History in Plasma 5

Akadem

31	PlasmaExtras.ScrollArea {
32	anchors.fill: parent
33	focus: true
34	
35	ListView {
36	id: kickoffListView
37	Accessible.role: Accessible.List
38	<pre>interactive: contentHeight > height</pre>
39	<pre>boundsBehavior: Flickable.StopAtBounds</pre>
40	currentIndex: -1
41	keyNavigationWraps: true
42	<pre>highlight: KickoffHighlight {}</pre>
43	highlightMoveDuration : 0
44	highlightResizeDuration: 0
45	
46	<pre>Keys.onEnterPressed: currentItem.activate();</pre>
47	<pre>Keys.onReturnPressed: currentItem.activate();</pre>
48	<pre>Keys.onMenuPressed: currentItem.openActionMenu();</pre>
49	
50	<pre>delegate: KickoffItem {}</pre>

Not accessible at launch

- Plasma 5 launched with inadequate accessibility.
- Extremely difficult to use for several years.

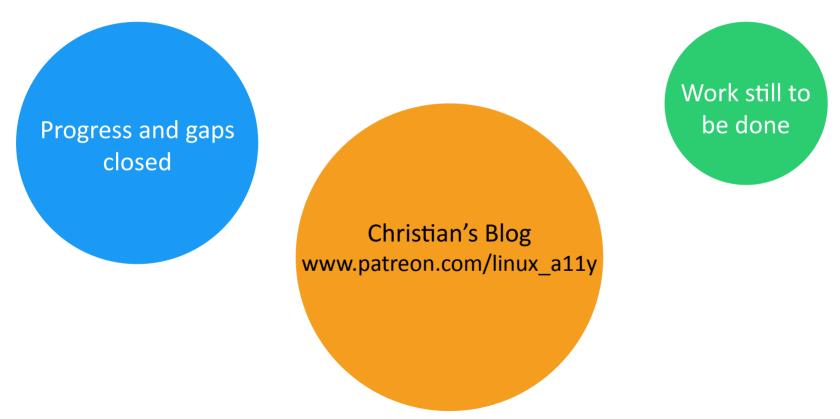
Labeling

- Primary task of Plasma Accessibility team was adding focus, keyboard actions, and accessibility labels to objects.
- Slow and tedious work on huge codebase.

Accessibility goal proposal, 2019

- Aimed to raise awareness and set goals
- Accessibility added to HIG shortly after

Christian's Retrospective





Thank you!