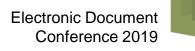
PDF Accessibility

The Sweet Spot Between Automation and Human Remediation







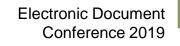
Peter Shikli

- UCLA '72, Loyola '82
- Founded Bizware Online Applications Inc. '95
 - eTaskBoard
 - Coffee Creek Correctional Facility, OR









Starting Point

Accessibility, not PDFs

- WCAG, WCAG-EM, Section 508
- Certified Trusted Testers
 - Office of Accessible Systems & Technology
 - Structured methodology
 - ✤ 81 Objective, reliable, standards-based test criteria
 - Over 100 integrated tools available
 - Markup analysis, CSS/JS, productivity & process automation, QA, site-wide, reporting
- Sweet spot between automation and analysis
 - Empower the analyst, not replace her.



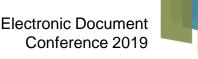


Clients Encourage Our Expansion into PDF Accessibility

Standards

- Adobe Checker vs. PAC-3 vs. WCAG vs. Matterhorn vs. PDF/UA
- Less structured testing, more subjective expertise
 - Voluntary Product Accessibility Templates rare
- Tools
 - Adobe, Axes4, CommonLook, Open Access Tech, Open Text, PAC-3, etc.
 - Compared to web: under-featured, expensive, immature, not cross-compatible
- Sweet spot between automation and analysis
- Gap between automation and analysis.





Challenge: The Missing Pieces

Tables

- Summaries
 - Violated only by Adobe
- Complex Tables
 - Wizard to enter:
 - structure
 - spans
 - headers
 - batch cell associations
 - Model Existing Table with Defects/Omissions
 - Show ID/Header associations
 - Break into Simple Tables
- Layout Tables

Linearize into paragraph tags.





Electronic Document Conference 2019

Challenge: The Missing Pieces

6

Images *

- Summary Table
- Extract to Domain Experts

Link Text

- Summary Table
- Progress through PDF like Adobe's "Set Alternative Text"

Content Order vs. Tab Order

User designation despite z-order problem.





Challenge: The Missing Pieces

Page Spans

Lasso & tag as single paragraph

Chunk Tagging

Ex: Lasso 10 items and assign all <L>, , <Lbl>, and <LBody> tags

Conditional Replacement

- Nested Boolean logic
 - ex: if-then-else for markup search and replace

Span Function Designations

Underlined, strikethrough, bold, italic when conveys meaning

Undo and Redo

✤ At least a dozen in either direction.





Challenge: The Missing System

- Integrated Accessibility Manager
 - ✤ Separate file
 - Aardvark.pdf → Aardvark_a11y.pdf (or docx or html)
 - Support Tables
 - Images, links, etc.
 - Staff maintenance instructions
 - Source document (docx, xlsx, InDesign, SQL Server DB, etc.)
 - Document family/template
 - Alternate editable PDF views
 - Display designated markup
 - ARIA-like custom tags exploding to sets of markup
 - Accessibility transaction log
 - Maintenance log
 - Audited/remediated by X on date Y with notes Z
 - Verified tags such as images and links
 - Establish data sets from commonality across numbers of PDFs
 - AI but with human guidance and editing.



Offer: A Collaboration Site

- The Elephant in the Room
 - How can we help the disabled person?
- Accessibility Analysts Need Better Tools
 - Collaborative Dev Support Site
 - www.PDFAccessibilitySoftware.com
 - Ready to move elsewhere (PDF Association?)
 - Access2online cannot build the tools
 - But we can help collect the requirements
 - Input from other analysts and service providers

And we can encourage cooperation.





Conclusions

- 1. We don't have a sweet spot between automation and the analyst
- 2. We have a gap between automation and the analyst
- 3. Access2online cannot fill that gap

-- but we would like to help do so

Questions ... Comments ... Ideas Peter Shikli pshikli@access2online.com 503-570-6831.

