2020 Accessing Higher Ground Automation for 508 Compliance

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What is automation?

Al is made of various components



EQUIDOX By Onix

- Artificial Intelligence A scheme of human-like learning by machines, particularly computer systems. This can include processes like computer vision and machine learning.
- Computer Vision Automation of the tasks that humans do with vision. This includes acquiring, processing, and analyzing digital images.
- Machine Learning The building of models (especially software models) that can analyze data, identify patterns, and make decisions based on learning from those data and patterns.

Automation can't work alone

Human interaction is still required



Humans still need to provide:

- Context
- Logical order
- Definitions



What CAN be automated?

With human verification, Al can save a lot of work



- Identify and tag
 - Text
 - Images (detection but not alt-text)
 - Existing headings
 - Existing live links
- Some tools can semi-automate
 - Lists
 - Tables



Context - Identifying Images

How humans and Al work together

- Many images can be correctly identified by AI
- Facial recognition technology is very sophisticated, but still lacks situational details
- Al results are still simplistic and lack context
- Identifying elements such as graphs, charts or diagrams is not yet possible
- Article: <u>Can Image Recognition by AI replace Alt Text?</u>



"Image may contain night and fire."



Logical Order - Heading Structure

Humans must set navigation structure

- Machines can identify headings by font, size and/or weight of characters. But humans must still define the levels that correspond to those characteristics
- Machines can recognize a skipped or out of order level but can't determined how to correct it
- Article: <u>Equidox PDF Academy How to tag</u> <u>headings in PDFs</u>



Heading Level 2

This is a sample paragraph to help illustrate the simplicity of using Equidox for PDF remediation. Using the sensitivity slider, you can set zones quickly and easily. Then you can set headers using the mouse or our shortcut keys by pressing "H" and the header level.

Heading Level 3

Equidox can also add alt text for images, capture links, detect list items, insert footnote links, and provides a table editor to accurately capture table elements. You can preview the page elements in HTML to ensure you've remediated all the elements.



List

- Monday
- Tuesday
- Wednesday
- Thursday
- Friday

Table

Name	Age	Height	Weight	
Anna	23	5.5	140	
Bruce	57	6.0	180 110	
Lydia	12	5.3		
Sidney	40	5.10	165	
Mark	38	6.2	205	

For more information, visit www.equidox.co. We're happy to speak with you!



Logical Order - Reading Order

Still beyond capabilities of machines

- Al can set top-down, left-to-right order
- Human assistance is needed for documents with images overlapping or in between text
- Al cannot recognize documents with text in columns such as folded brochures. A human must set reading order.
- Article: Equidox PDF Academy How to set Reading Order in PDFs



-Baseball-70 Pages-5 Cents

Public Airing Irged on ransit Bill

County Legislators

Biggest Thrill Came 31 Months Ago It's Anti-Climax for Dr. Salk

After Blood Check in 1952

Vaccine To By-Pass

Druggists to Get It

taxts of respects on policy vargine tests. Pero 5: an edi-

Salk Shots

80 to 90%

ment bureau which licenses medical preparations, announced immediately that the vaccine will be re-



Automation currently in use

What is possible NOW

Automated Features	Adobe Acrobat	Equidox
Recognizes existing tags (text, headings, links, images and alt-text)	Yes	Yes
Can "auto-tag" documents	Yes	Yes
Can set top-down, left-to-right reading order	Yes	Yes
Recognizes links within text	Yes	Yes
Auto-detect table elements (rows, columns, table summary)	No	Yes
Auto-detect list elements, including nested list elements	No	Yes

Equidox Powerful Al Tools for Lists and Tables

Remediation time reduced by 90%

Smart List Detector

- Auto-tags lists and list items
- Auto-tags nested lists

Smart Table Detector

- Row and column sliders auto-define cells
- Auto-populates table summary

Equidox Smart List Detector







Equidox Smart Table Detector







Is complete automation of PDF remediation possible?

With human programming, yes it is...

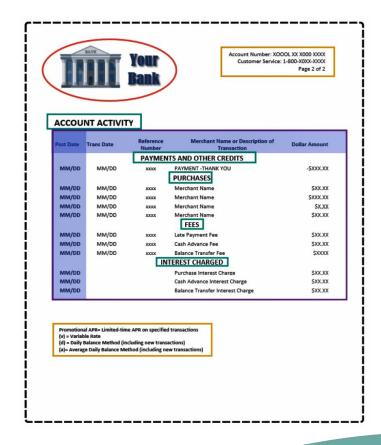


- Only for documents with similar elements
- Human programming defines elements for machine learning engines
- Al creates a digital template
- Al applies defined tags to documents
- Documents are 100% compliant provided template is correct

Equidox Batch Processing - Static Templates

Automation for static documents

- Templated documents with identical formatting
 - Create tags using Equidox for an initial document
 - Save a template with zones/tags
 - Apply template to similar documents using exact zone/tag transfer
 - Results will be full tagged and compliant





Equidox Custom Batch Processing

100% ADA Compliant PDFs

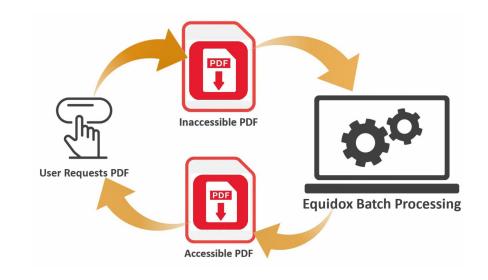
- Custom process tailored to each client
- Suitable for repetitive, recurring documents with static elements
- Integrated into PDF production workflow
- Employs existing security protocols
- Local or cloud server
- On-demand results



Equidox Custom Batch Processing - Integrated and On-Demand

Automation for multiple similar documents

- Machine learning creates template with defined tags/zones
 - User requests PDF
 - 2. PDF is generated
 - 3. Equidox batch processing tags PDF
 - 4. 100% compliant PDF is delivered to user
- Integrated into PDF production workflow
- Instant and on demand for all users





Equidox Automated Batch Processing









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