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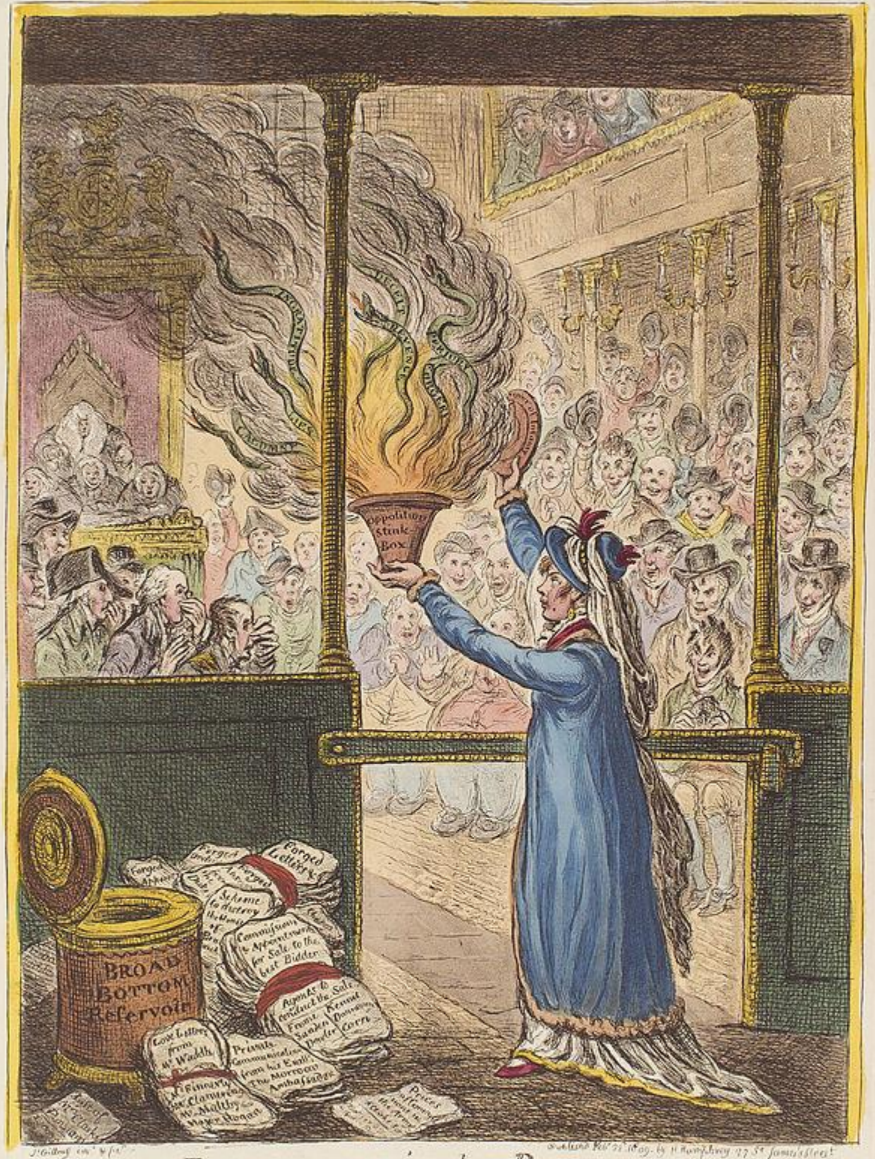
Why PDF/A validation matters

(even if you don’t have PDF/A)

Johan van der Knijff

BROAD BOTTOM Reservoir
PANDORA opening her Box !

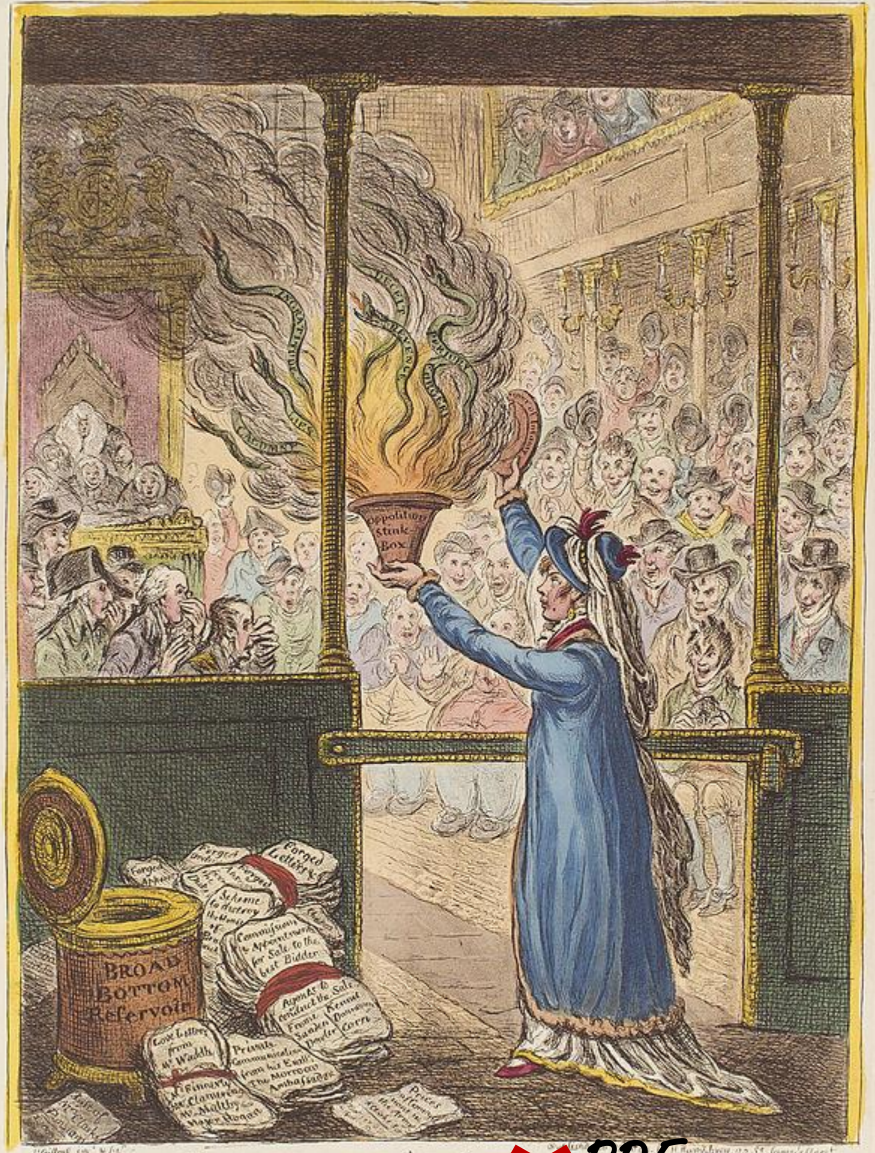

Opposition Stink-Box
BROAD BOTTOM Reservoir
Forged Letters
Scheme to destroy
Commissions & Appointments for Sale to the best Bidder
Agents to conduct the Sale
Frome
Sanden
Dowler
Kennet
Donovan
Corri
Love Letters from Mr Wardle
Private Communications from Sir Ewall
The Morocco Ambassador
Mr Finnerty
Lord Clanricarde
Mr Maltby
Major Hogan
Prices

Js Gillray inv^t & fec^t

Pub^d Feby 21st 1809. by H. Humphrey 27 St James's Street

PANDORA opening her Box!

Mrs Clarke

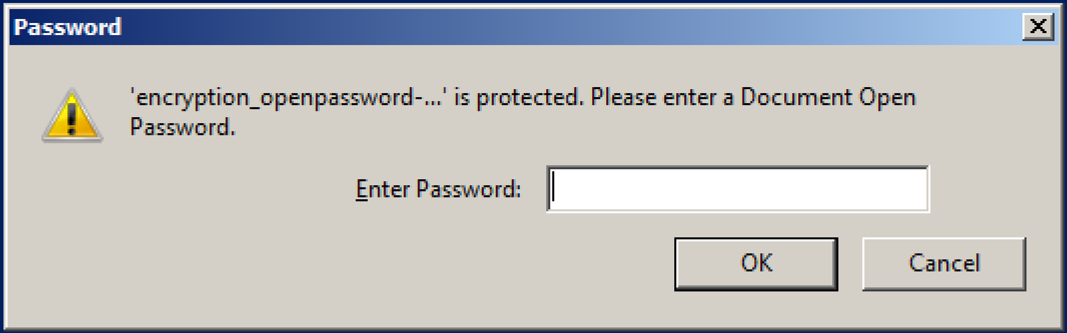

Opposition Stink-Box
BROAD BOTTOM Reservoir
Forged Letters
Scheme to destroy the Monarchy
Commissions & Appointments for Sale to the best Bidder
Agents to conduct the Sale Frame Sanden Dowler Kennet Donovan Corri
Love Letters from Mr Wardle
Private Communications from Sir Ewall— The Morrocco Ambassador
Mr Finnerty Mrs Clavering Mr Maltby Major Hogan
Prices of Commissions in the Army
J. Gillray inv. & fec.
H. Humphrey 27 St James's Street

PANDORA opening her PDF

Mrs Clarke

abcd

Opposition Stink-Box

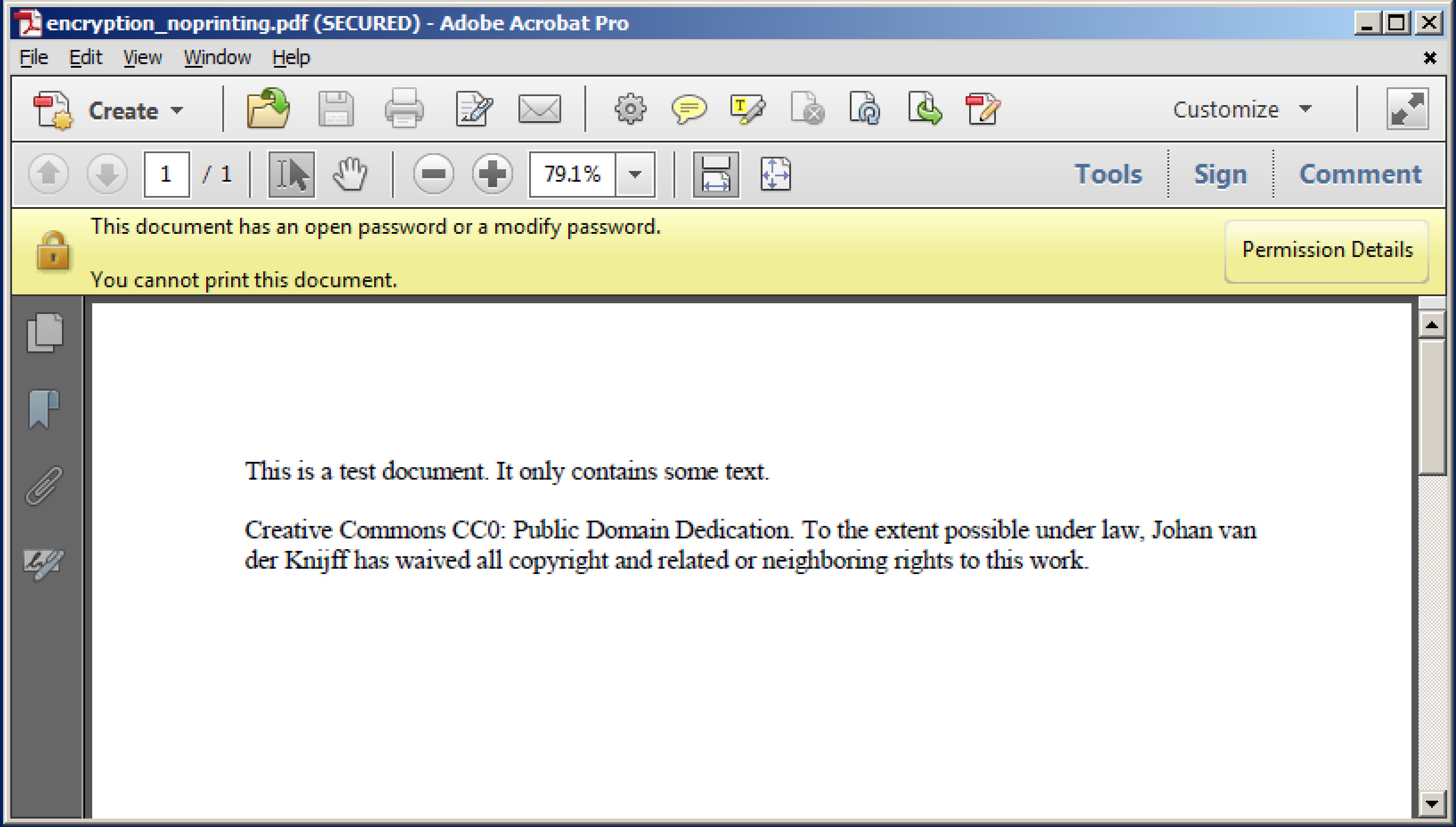


Password

'encryption_openpassword-...' is protected. Please enter a Document Open Password.

Enter Password:

OK
Cancel


encryption_noprinting.pdf (SECURED) - Adobe Acrobat Pro
File
Edit
View
Window
Help
Create
Customize
1
/ 1
79.1%
Tools
Sign
Comment
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This is a test document. It only contains some text.

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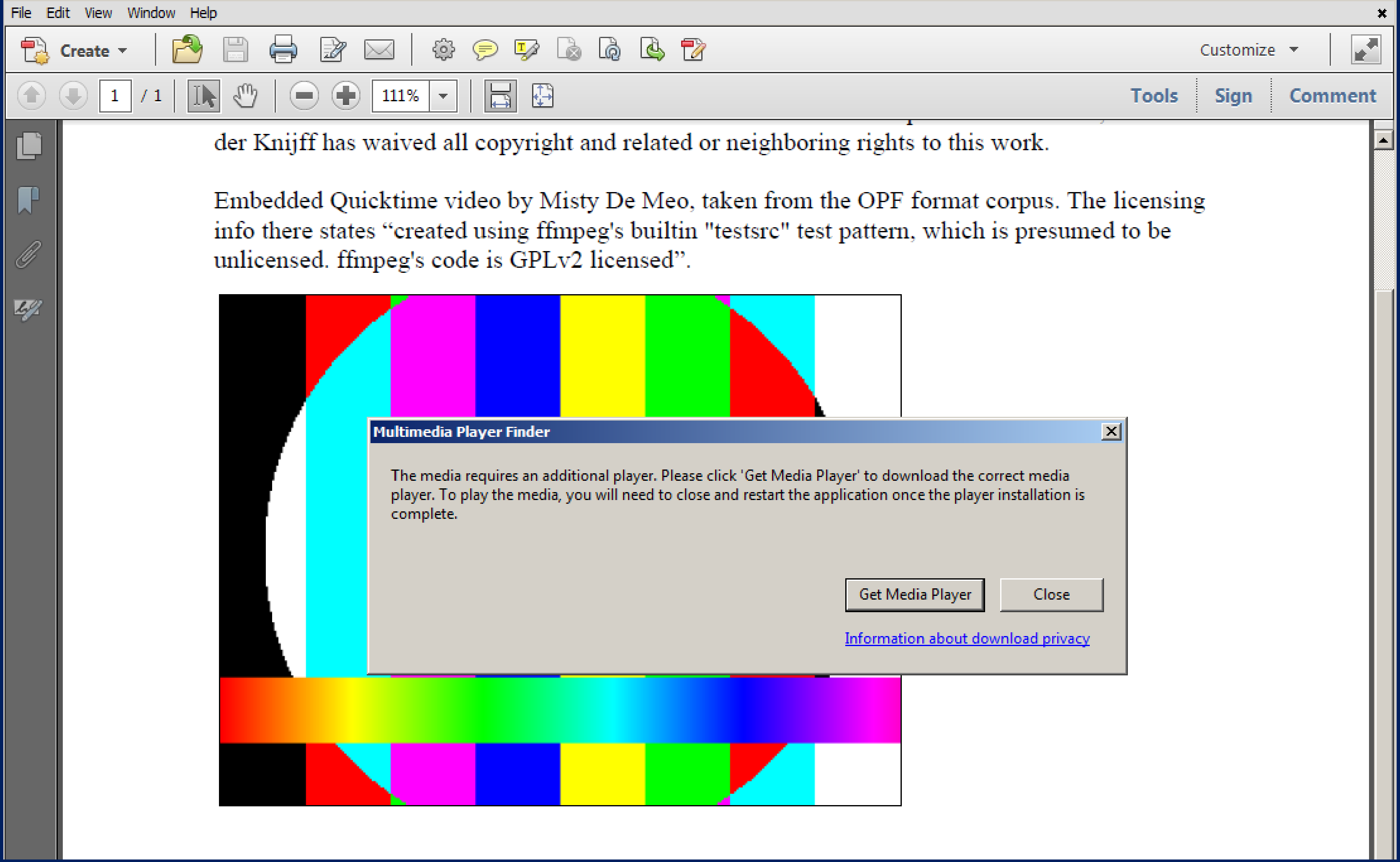
embedded_video_quicktime.pdf - Adobe Acrobat Pro
File Edit View Window Help
Create
Customize
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111%
Tools
Sign
Comment
Multimedia Player Finder
Get Media Player
Close
Information about download privacy

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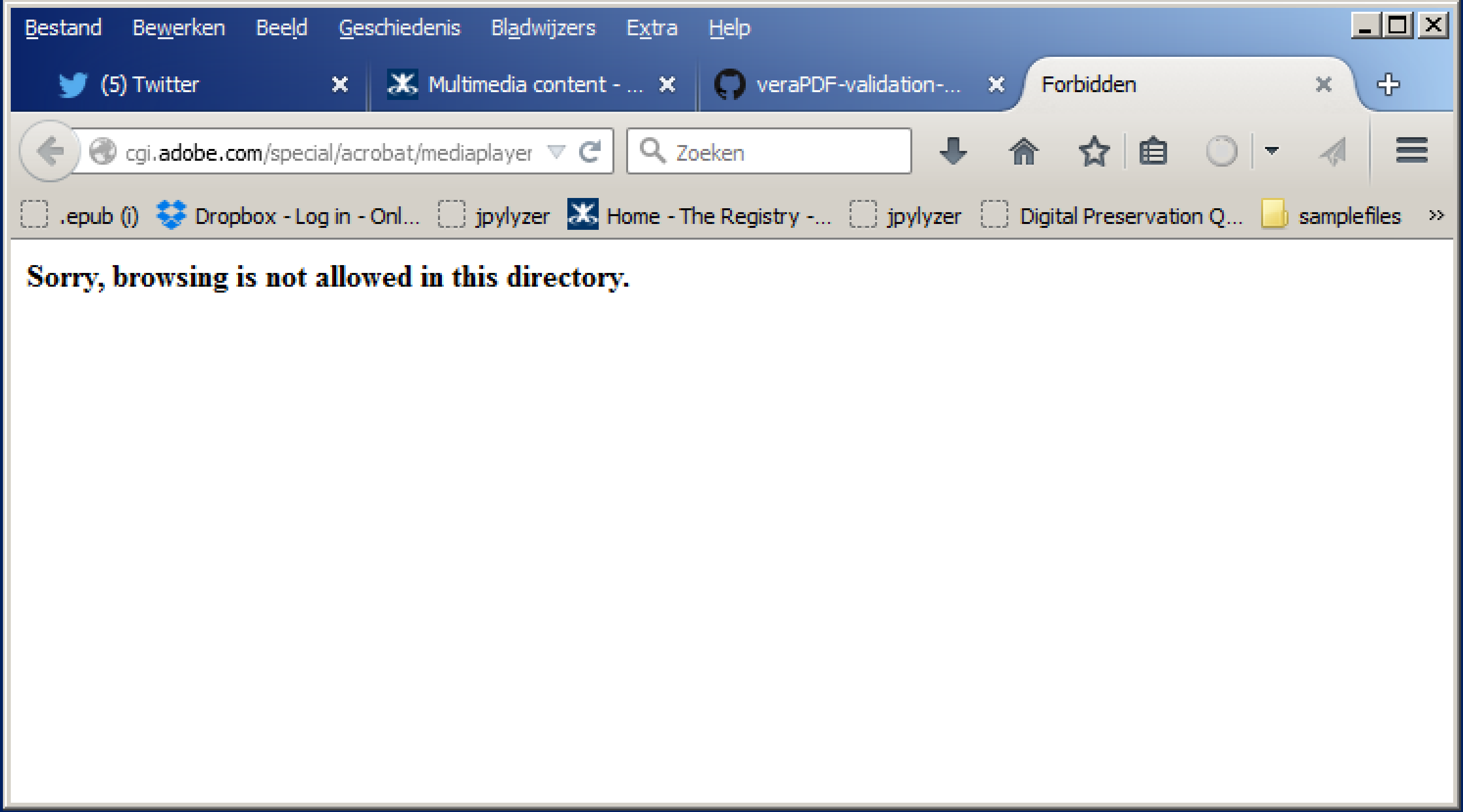
Embedded Quicktime video by Misty De Meo, taken from the OPF format corpus. The licensing info there states “created using ffmpeg's builtin "testsrc" test pattern, which is presumed to be unlicensed. ffmpeg's code is GPLv2 licensed”.

The media requires an additional player. Please click 'Get Media Player' to download the correct media player. To play the media, you will need to close and restart the application once the player installation is complete.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Bewerken
Beeld
Geschiedenis
Bladwijzers
Extra
Help
(5) Twitter
Multimedia content - ...
veraPDF-validation-...
Forbidden
cgi.adobe.com/special/acrobat/mediaplayer
Zoeken
.epub (i)
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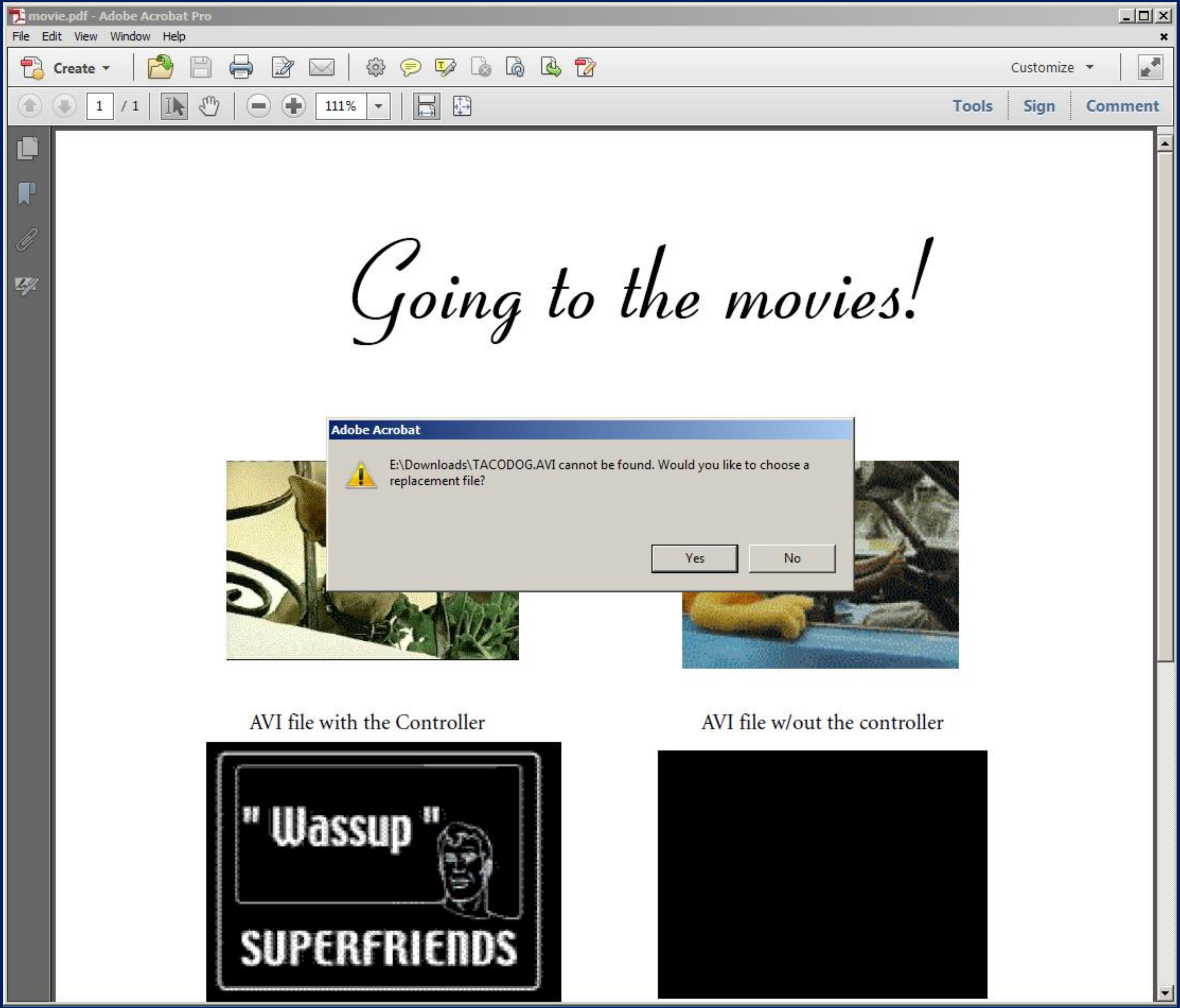
Home - The Registry -...
jpylyzer
Digital Preservation Q...
samplefiles

Sorry, browsing is not allowed in this directory.


movie.pdf - Adobe Acrobat Pro
File Edit View Window Help
Create
Customize
1 / 1
111%
Tools
Sign
Comment

Going to the movies!

Adobe Acrobat

E:\Downloads\TACODOG.AVI cannot be found. Would you like to choose a replacement file?

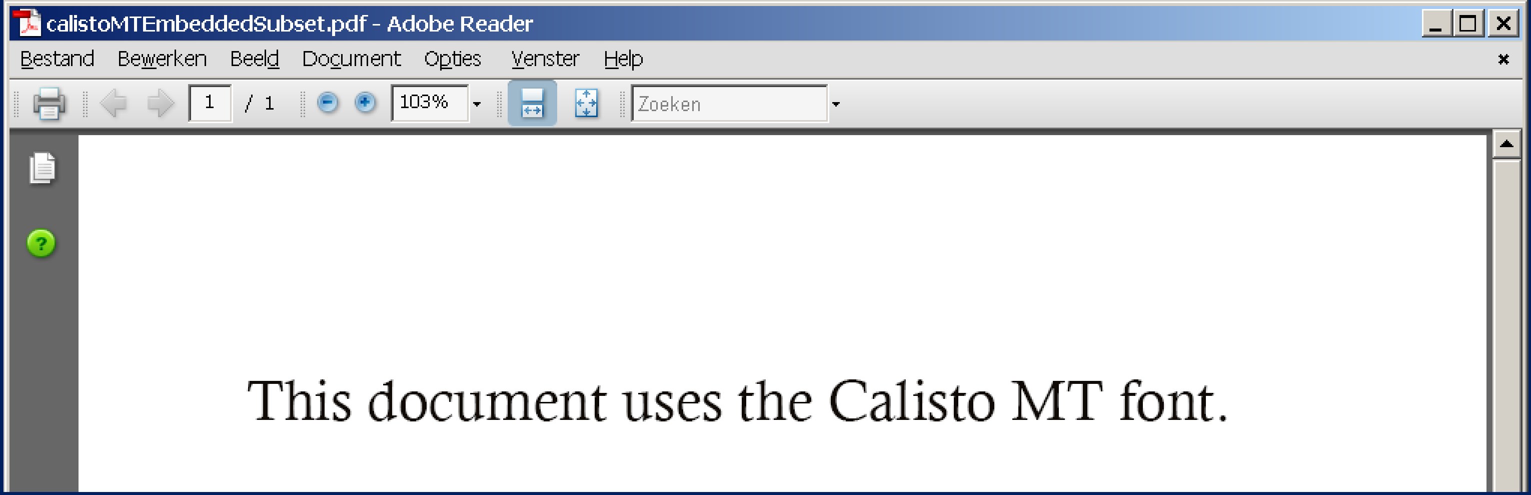
Yes
No

AVI file with the Controller

AVI file w/out the controller

" Wassup "
SUPERFRIENDS

On creator machine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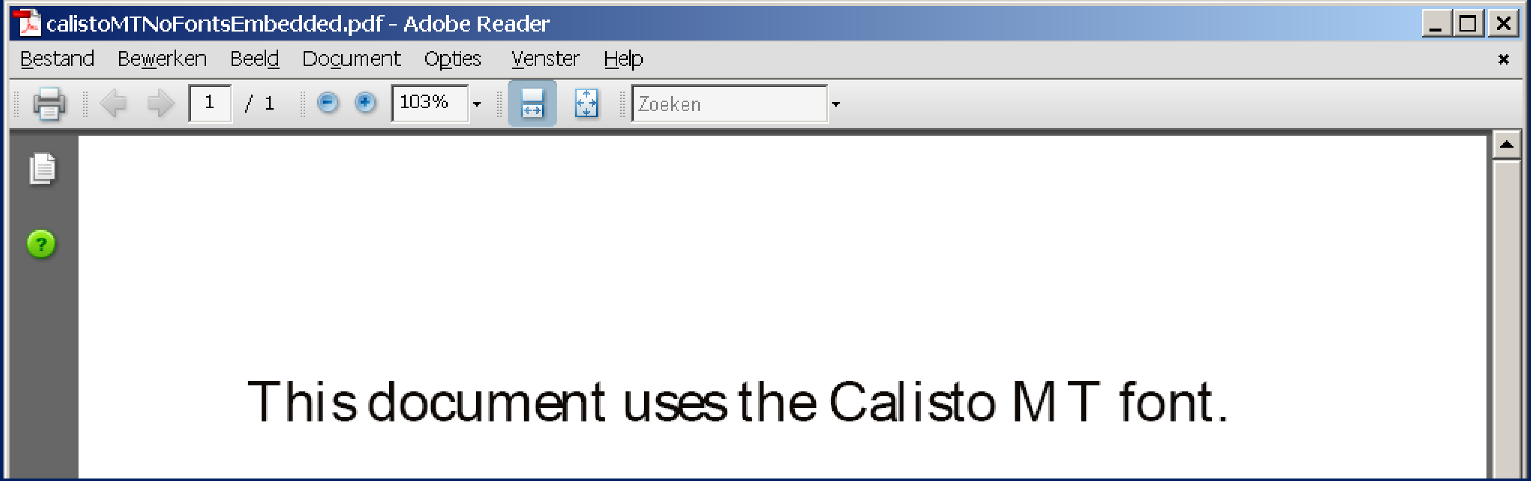
This document uses the Calisto MT font.

On Linux machine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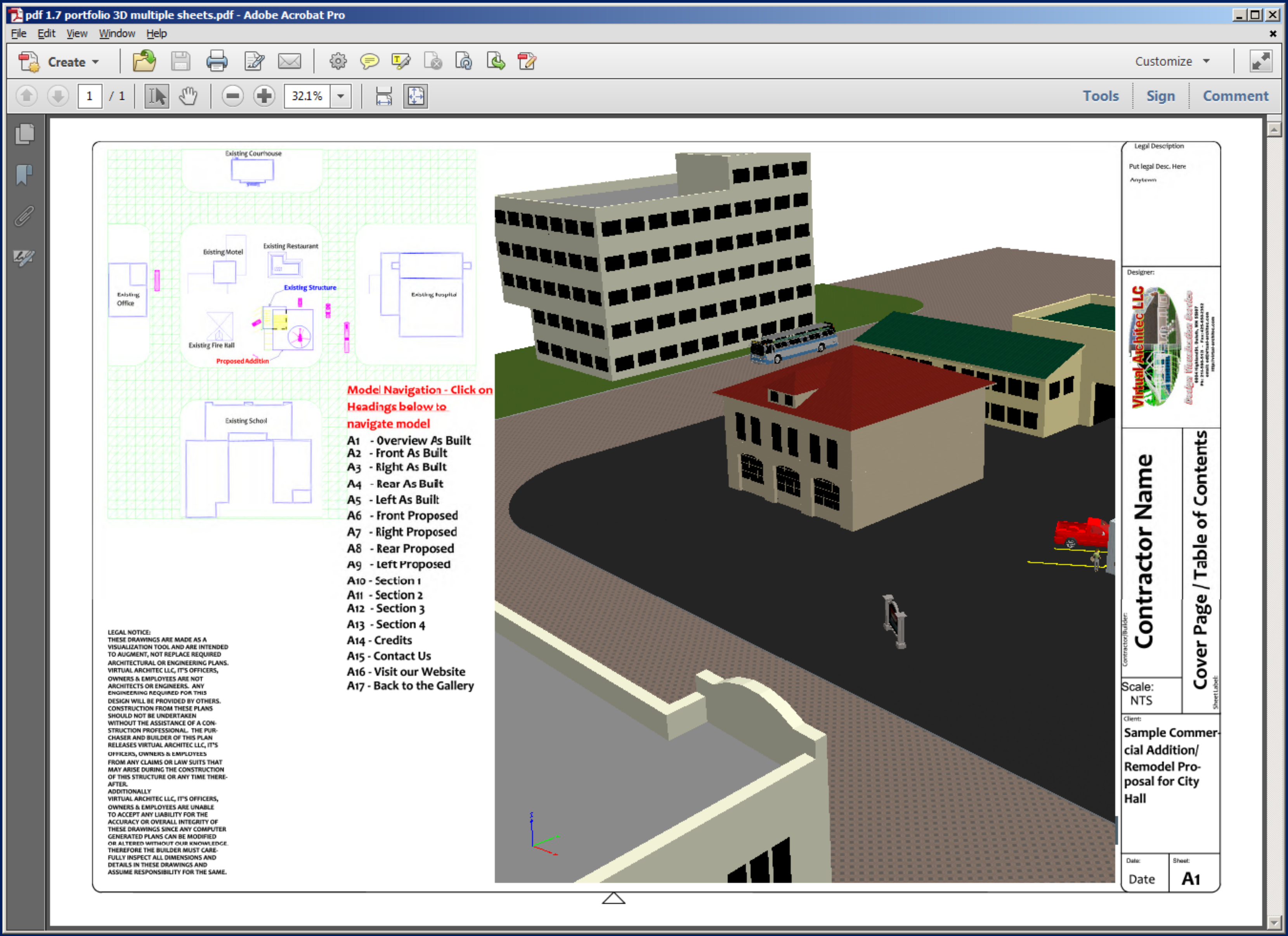
pdf 1.7 portfolio 3D multiple sheets.pdf - Adobe Acrobat Pro
File
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Tools
Sign
Comment
Existing Courthouse
Existing Motel
Existing Restaurant
Existing Structure
Existing Office
Existing Hospital
Existing Fire Hall
Proposed Addition
Existing School

Model Navigation - Click on Headings below to navigate model

A1 - Overview As Built
A2 - Front As Built
A3 - Right As Built
A4 - Rear As Built
A5 - Left As Built
A6 - Front Proposed
A7 - Right Proposed
A8 - Rear Proposed
A9 - Left Proposed
A10 - Section 1
A11 - Section 2
A12 - Section 3
A13 - Section 4
A14 - Credits
A15 - Contact Us
A16 - Visit our Website
A17 - Back to the Gallery

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Contractor Name

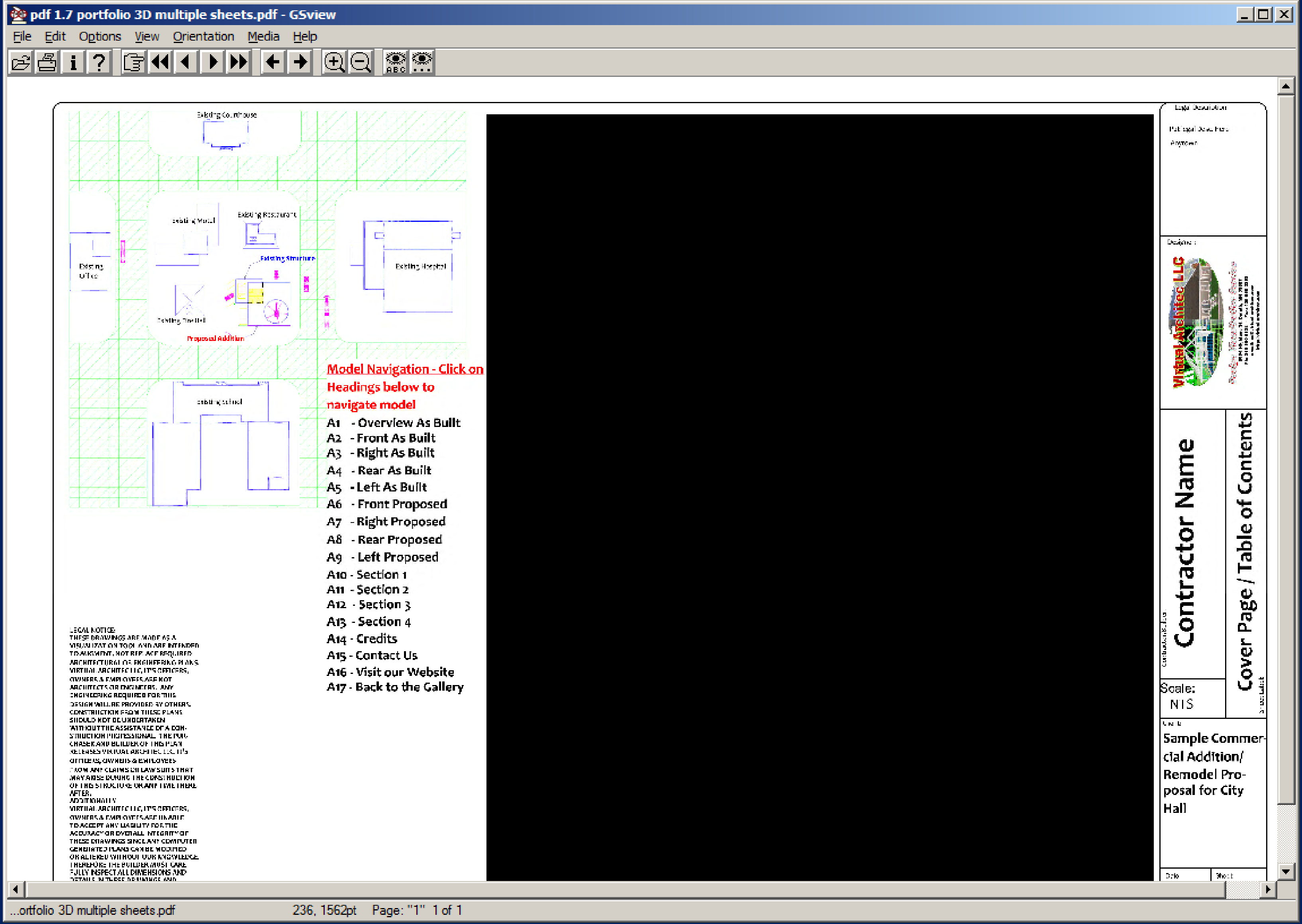
Sheet Label:
Cover Page / Table of Contents

Scale:
NTS

Client:
Sample Commercial Addition/ Remodel Proposal for City Hall

Date:
Date

Sheet:
A1


pdf 1.7 portfolio 3D multiple sheets.pdf - GSview
File
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Help
Existing Courthouse
Existing Motel
Existing Restaurant
Existing Structure
Existing Office
Existing Hospital
Existing Fire Hall
Proposed Addition
Existing School
...ortfolio 3D multiple sheets.pdf
236, 1562pt
Page: "1"
1 of 1

Model Navigation - Click on Headings below to navigate model

- A1 - Overview As Built
- A2 - Front As Built
- A3 - Right As Built
- A4 - Rear As Built
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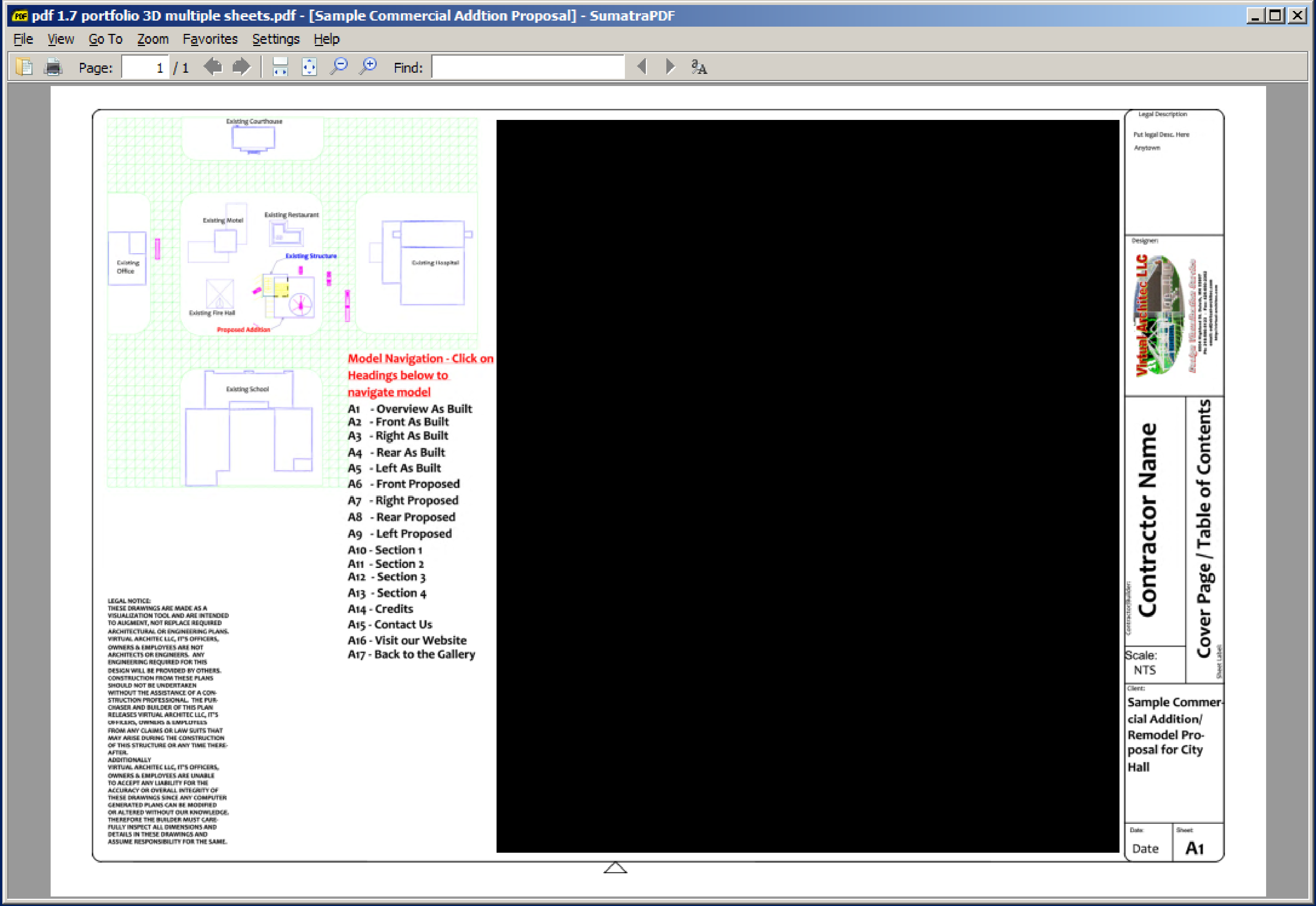
Sheet


pdf 1.7 portfolio 3D multiple sheets.pdf - [Sample Commercial Addtion Proposal] - SumatraPDF
File
View
Go To
Zoom
Favorites
Settings
Help
Page: 1 / 1
Find:
Existing Courthouse
Existing Motel
Existing Restaurant
Existing Structure
Existing Office
Existing Hospital
Existing Fire Hall
Proposed Addition
Existing School
Virtual Architec LLC

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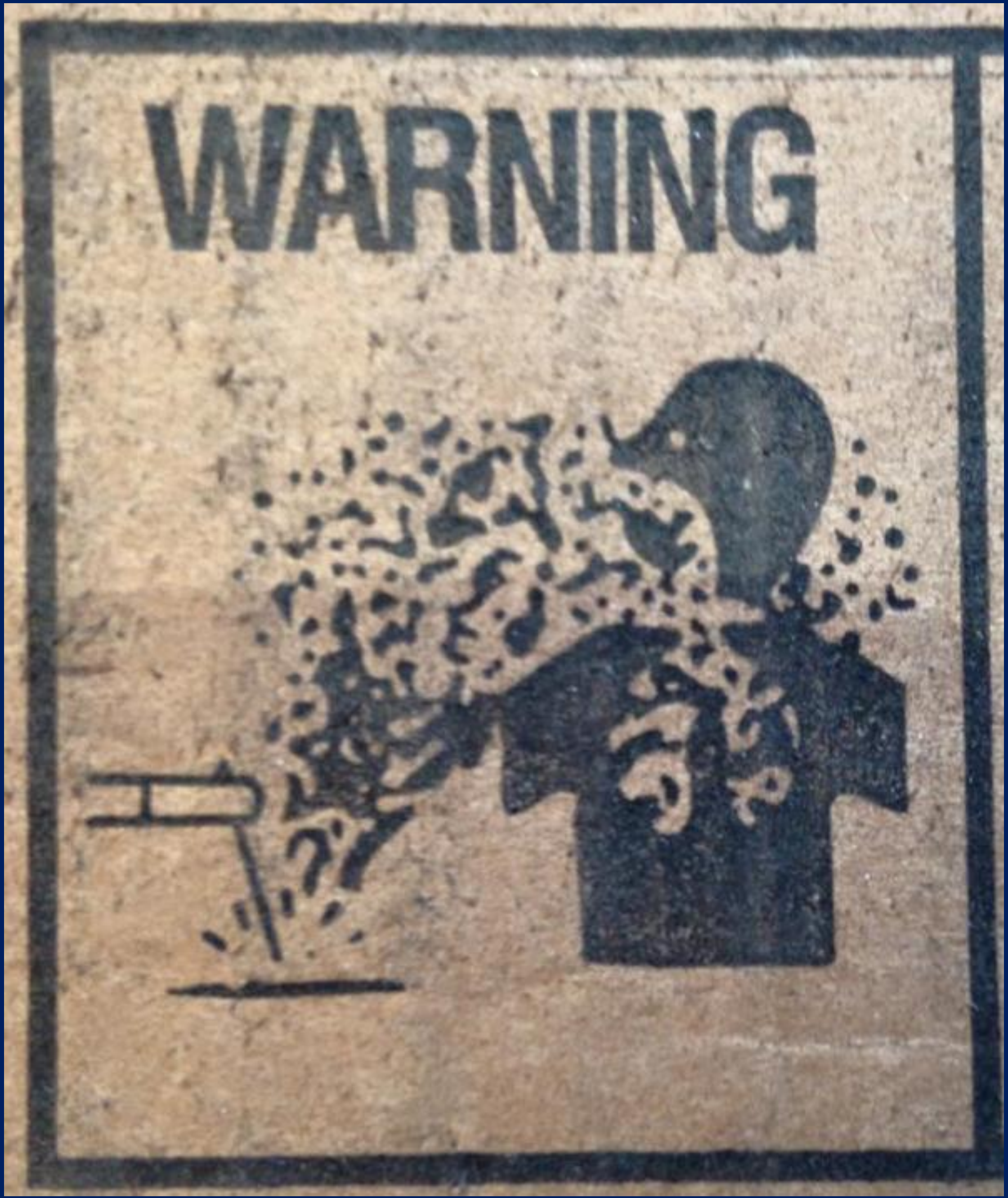
Sheet:
A1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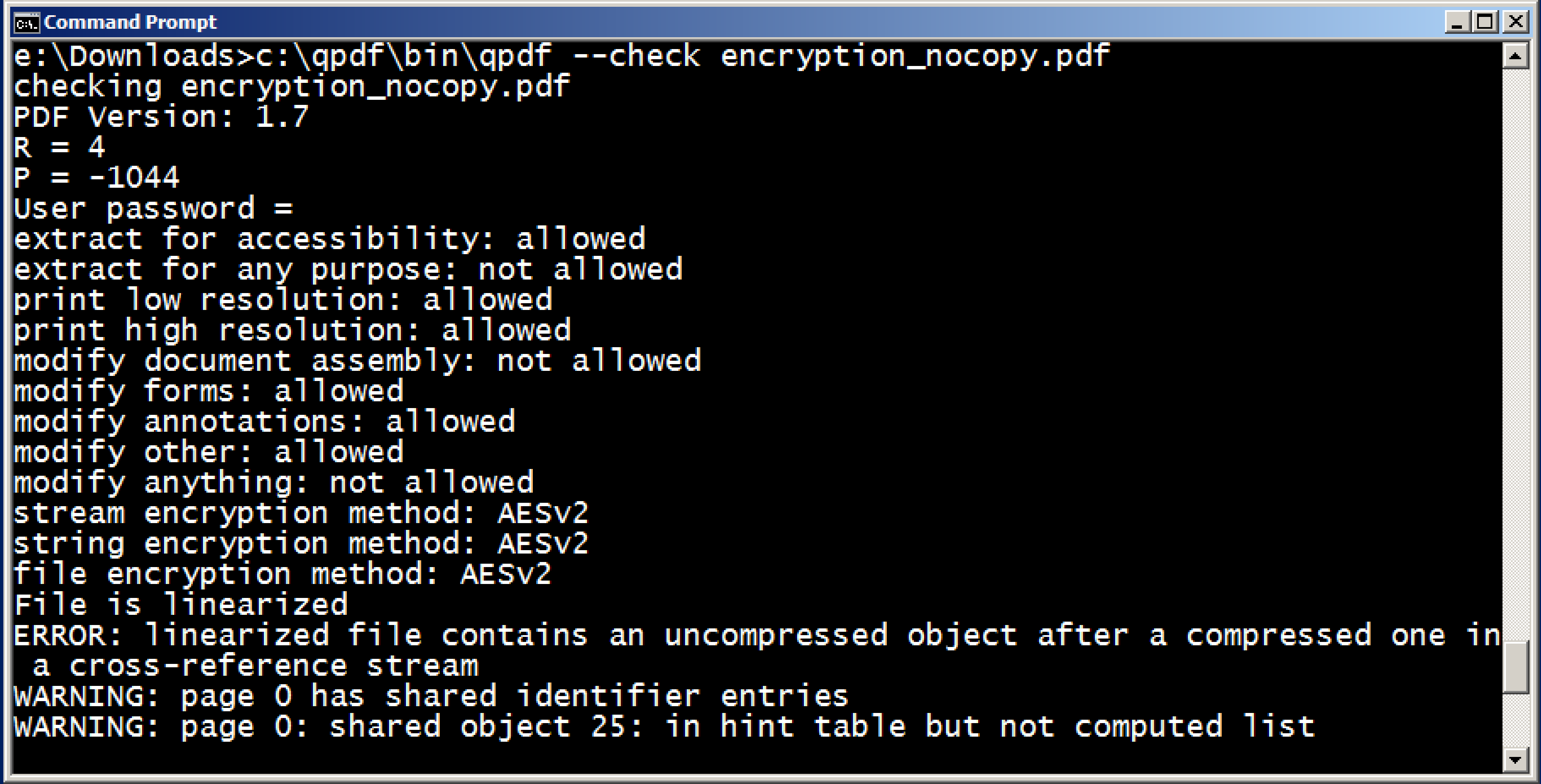

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P = -1044
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extract for any purpose: not allowed
print low resolution: allowed
print high resolution: allowed
modify document assembly: not allowed
modify forms: allowed
modify annotations: allowed
modify other: allowed
modify anything: not allowed
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string encryption method: AESv2
file encryption method: AESv2
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 a cross-reference stream
WARNING: page 0 has shared identifier entries
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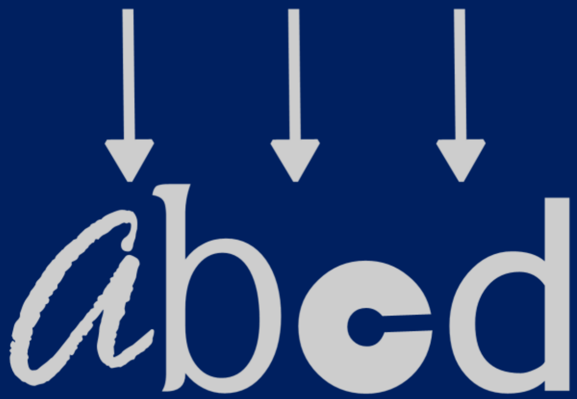

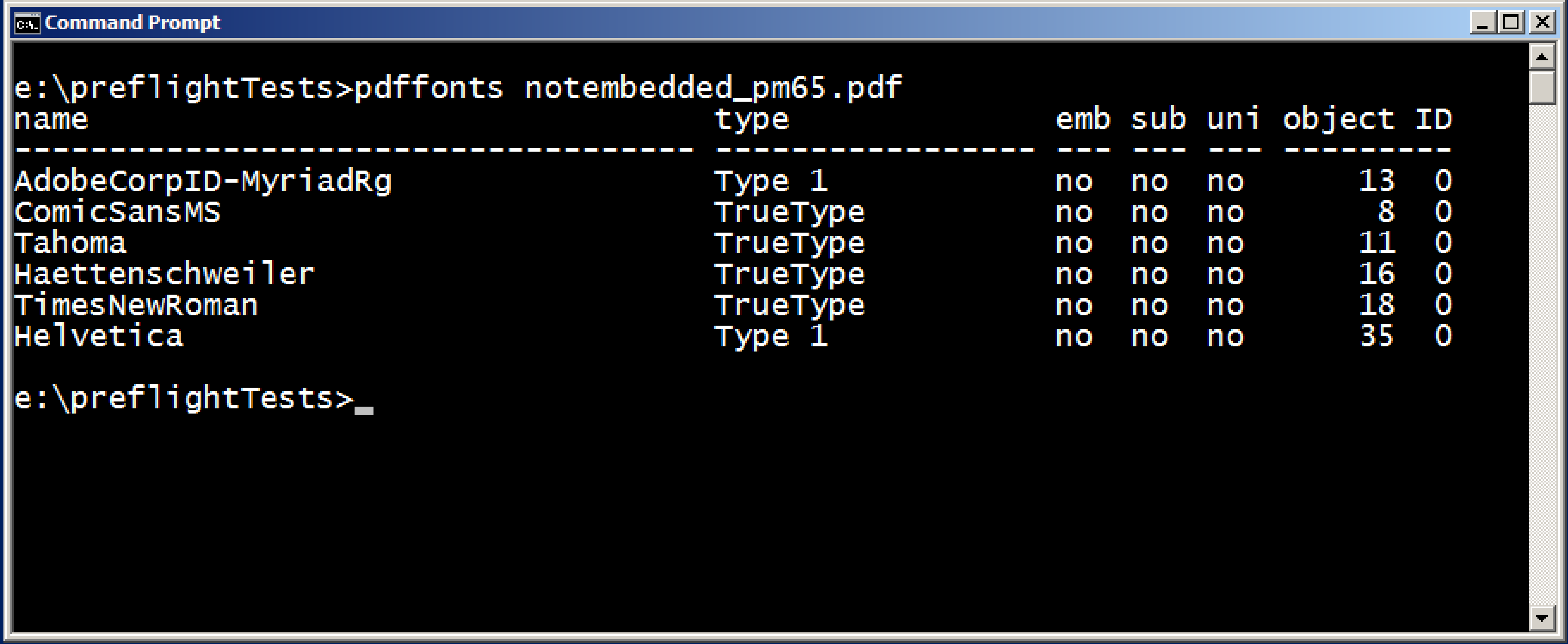

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AdobeCorpID-MyriadRg                 Type 1            no  no  no      13  0
ComicSansMS                          TrueType          no  no  no       8  0
Tahoma                               TrueType          no  no  no      11  0
Haettenschweiler                     TrueType          no  no  no      16  0
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Helvetica                            Type 1            no  no  no      35  0

e:\preflightTests>_
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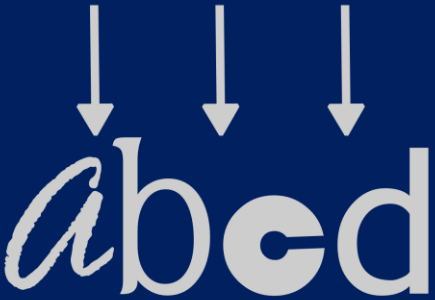
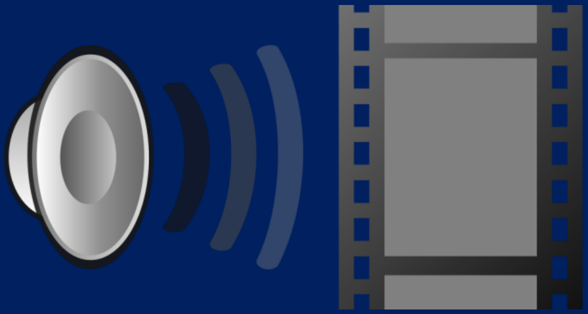
Tool A



Tool B



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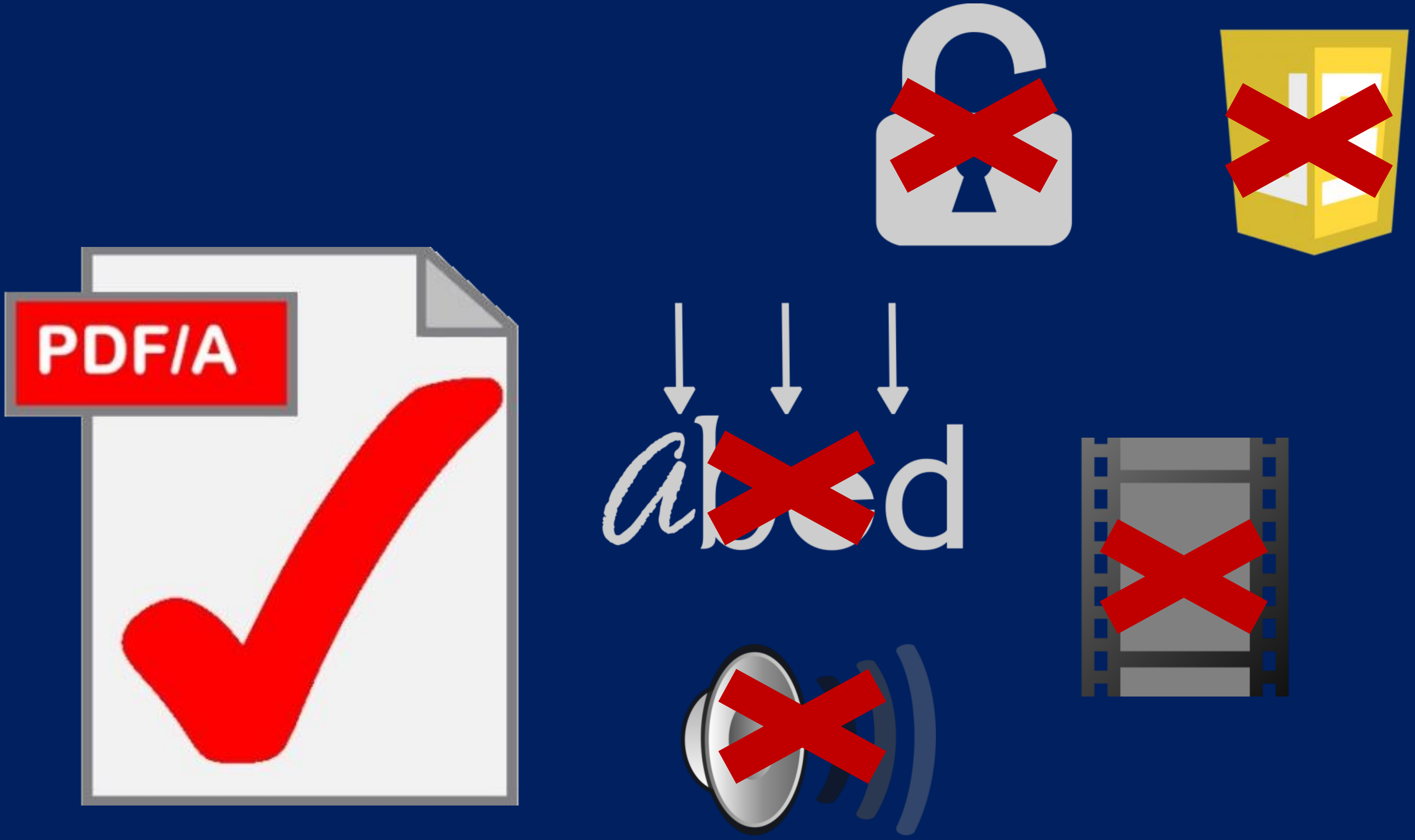
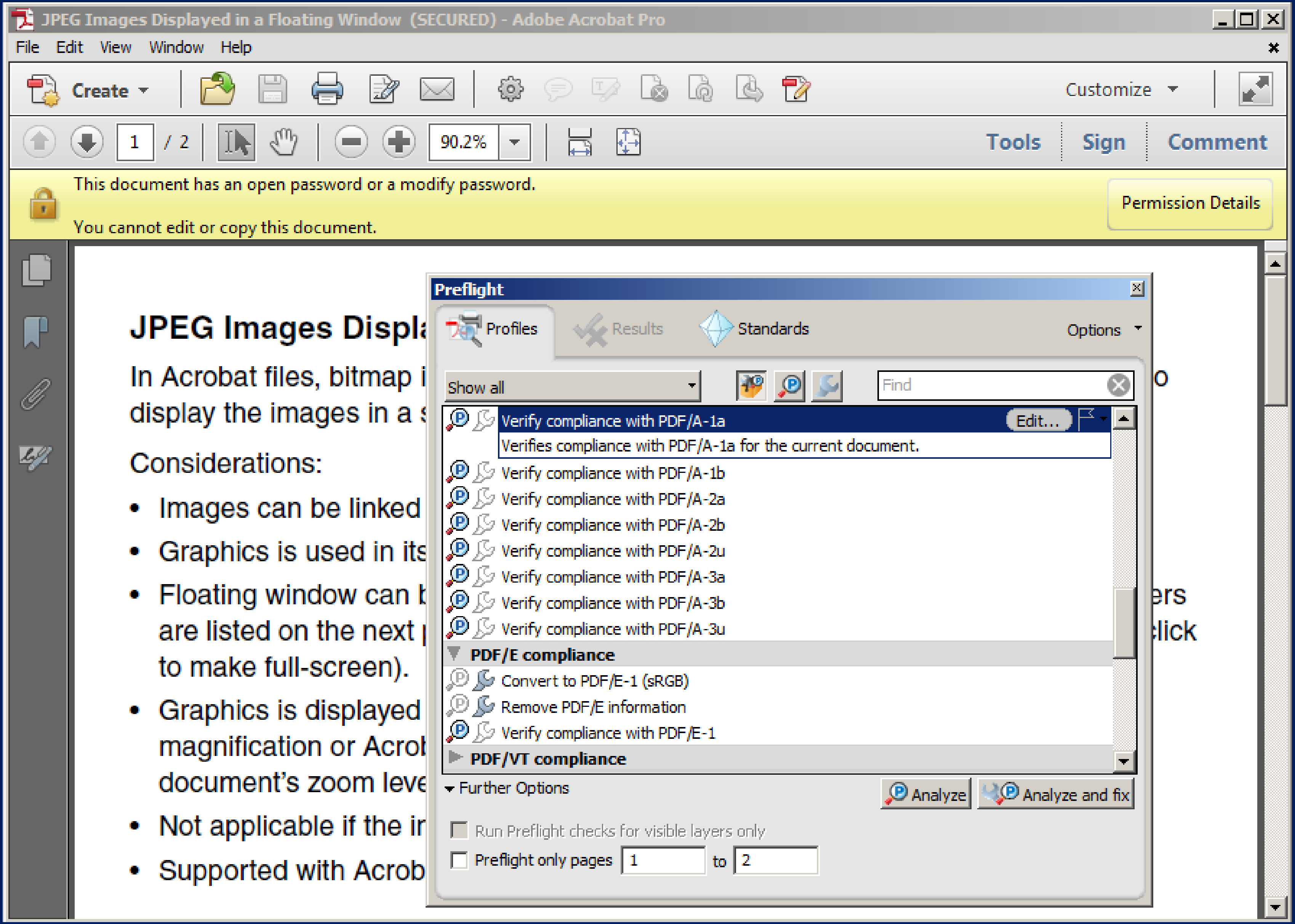

PDF/A
abcd

Identify potential preservation risks of a PDF –*any PDF!*- by assessing against PDF/A standard.

How?

Use PDF/A validator!


File
Edit
View
Window
Help
Create
Customize
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/ 2
90.2%
Tools
Sign
Comment
Permission Details
Preflight
Profiles
Results
Standards
Options
Show all
Find
Edit...
Analyze
Analyze and fix

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- Floating window can b … ers are listed on the next p … lick to make full-screen).
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- Not applicable if the ir
- Supported with Acrob

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Verify compliance with PDF/A-2b
Verify compliance with PDF/A-2u
Verify compliance with PDF/A-3a
Verify compliance with PDF/A-3b
Verify compliance with PDF/A-3u

PDF/E compliance

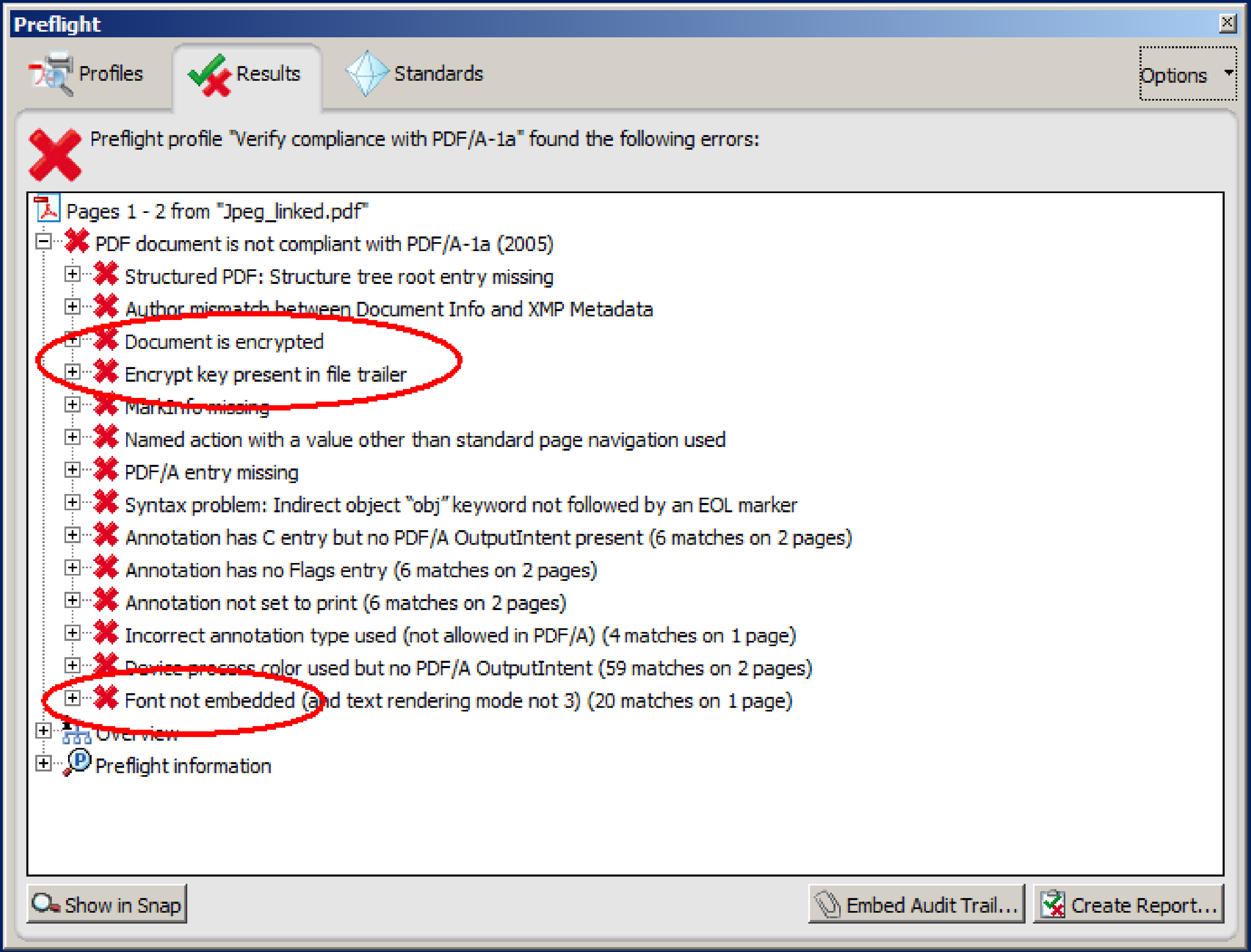
Convert to PDF/E-1 (sRGB)
Remove PDF/E information
Verify compliance with PDF/E-1

PDF/VT compliance

Further Options

☐ Run Preflight checks for visible layers only

☐ Preflight only pages 1 to 2



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- Pages 1 - 2 from "Jpeg_linked.pdf"
- PDF document is not compliant with PDF/A-1a (2005)
  - Structured PDF: Structure tree root entry missing
  - Author mismatch between Document Info and XMP Metadata
  - Document is encrypted
  - Encrypt key present in file trailer
  - MarkInfo missing
  - Named action with a value other than standard page navigation used
  - PDF/A entry missing
  - Syntax problem: Indirect object "obj" keyword not followed by an EOL marker
  - Annotation has C entry but no PDF/A OutputIntent present (6 matches on 2 pages)
  - Annotation has no Flags entry (6 matches on 2 pages)
  - Annotation not set to print (6 matches on 2 pages)
  - Incorrect annotation type used (not allowed in PDF/A) (4 matches on 1 page)
  - Device process color used but no PDF/A OutputIntent (59 matches on 2 pages)
  - Font not embedded (and text rendering mode not 3) (20 matches on 1 page)
- Overview
- Preflight information

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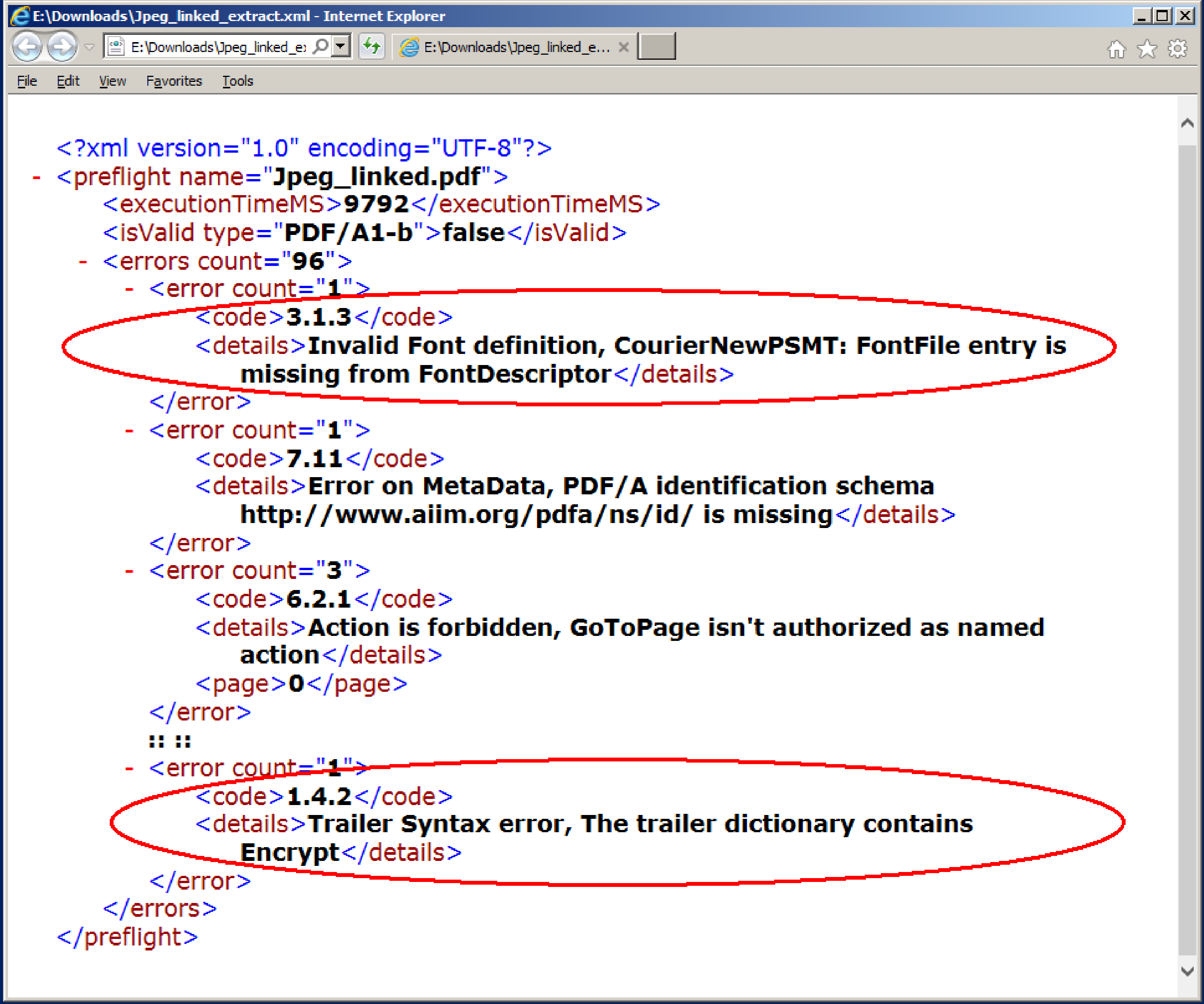
PDFBox

Preflight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E:\Downloads\Jpeg_linked_e...
File
Edit
View
Favorites
Tools

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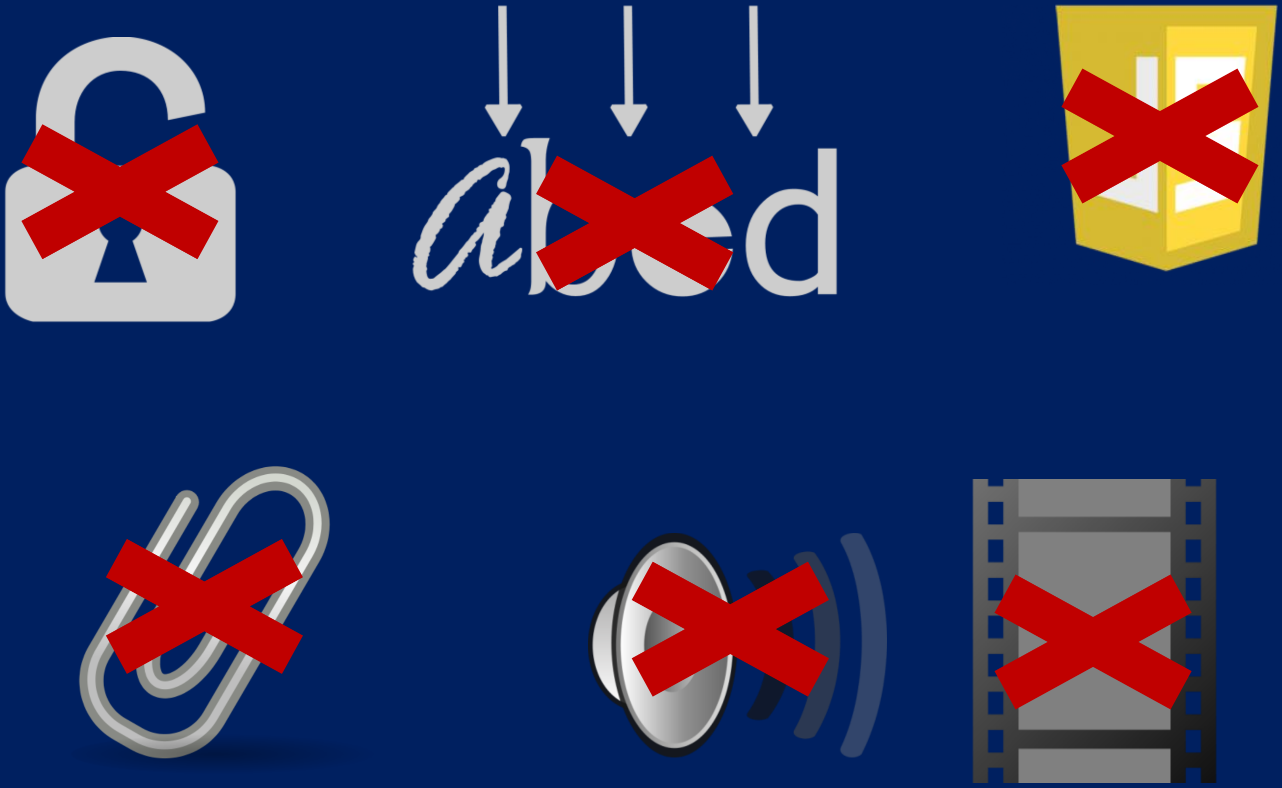
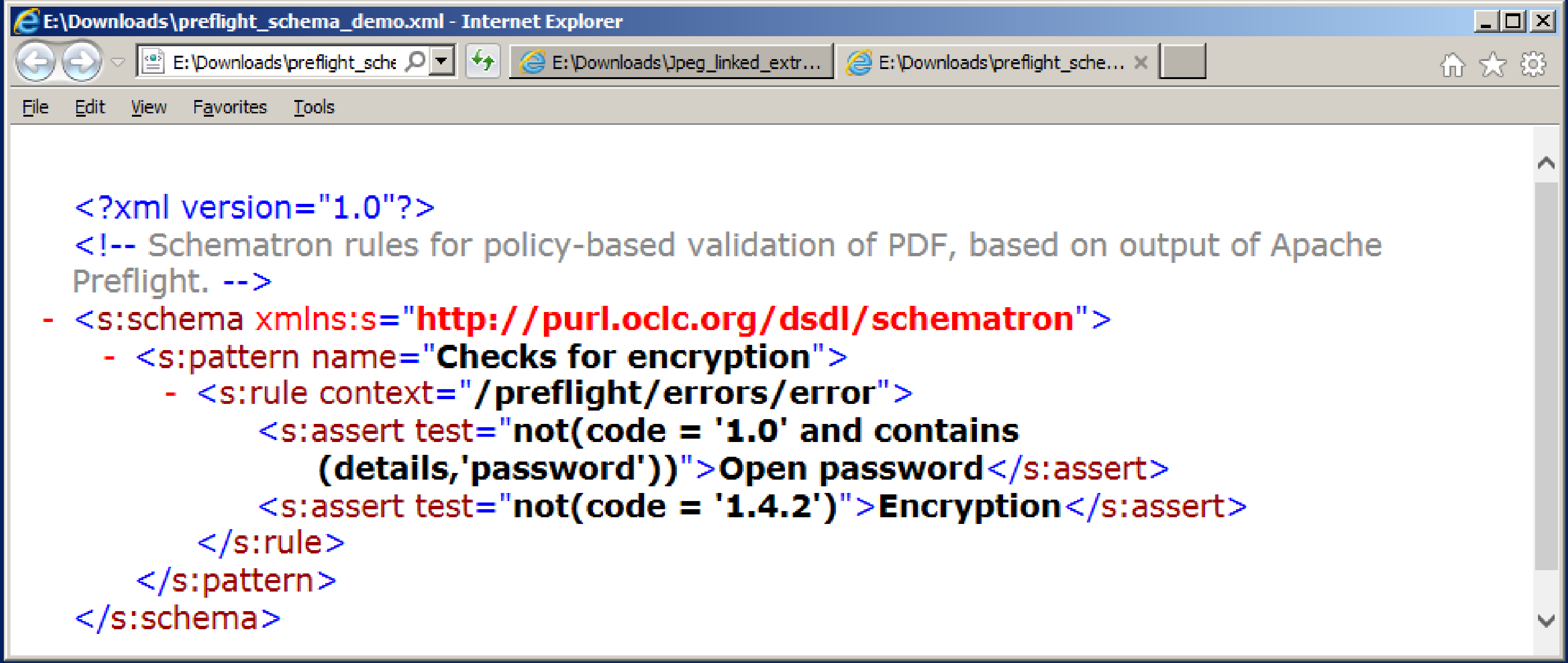
Policy assessment

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E:\Downloads\Jpeg_linked_extr...
E:\Downloads\preflight_sche...
File
Edit
View
Favorites
Tools

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  - <s:pattern name="Checks for encryption">
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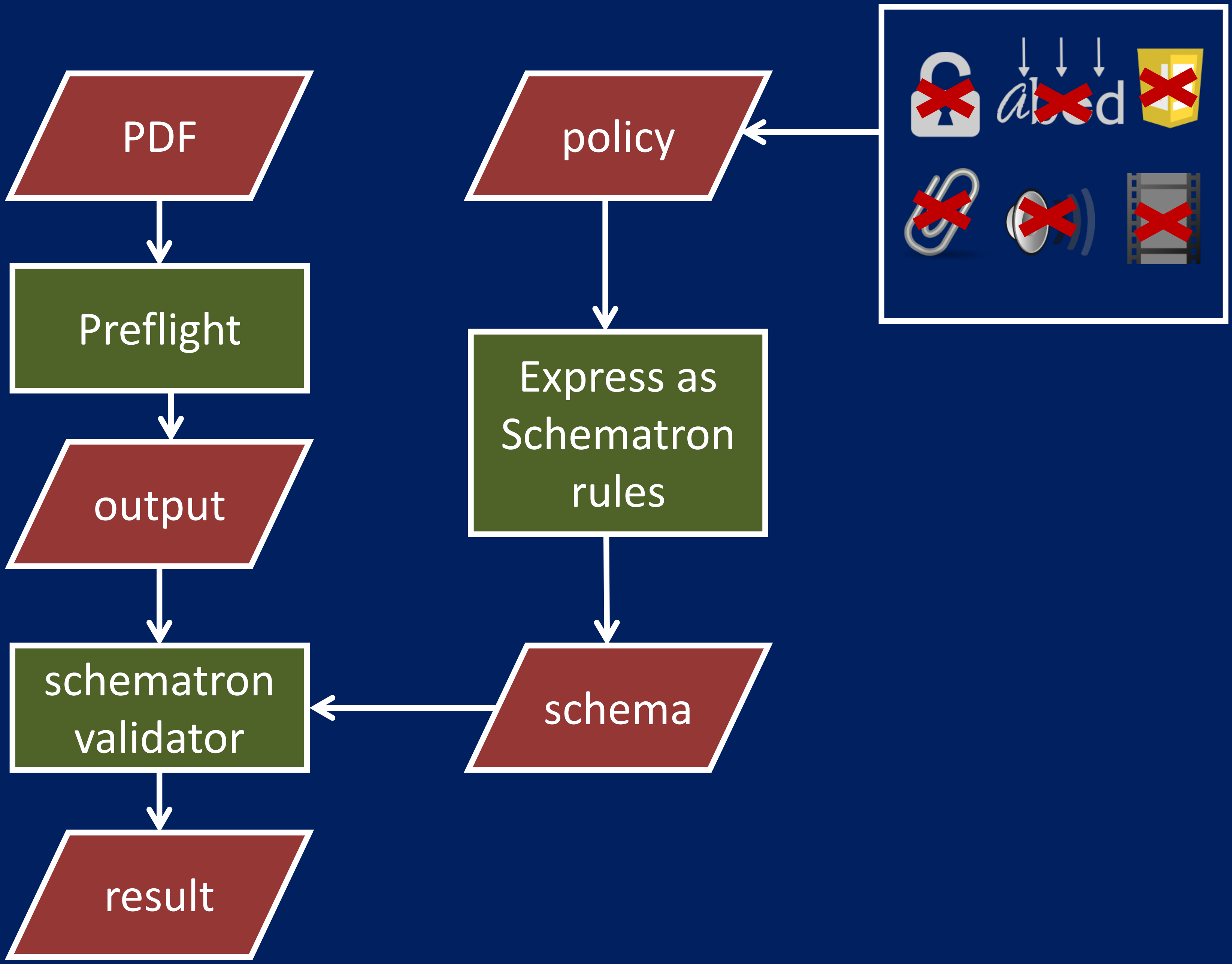


PDF

Preflight

output

schematron validator

result

policy

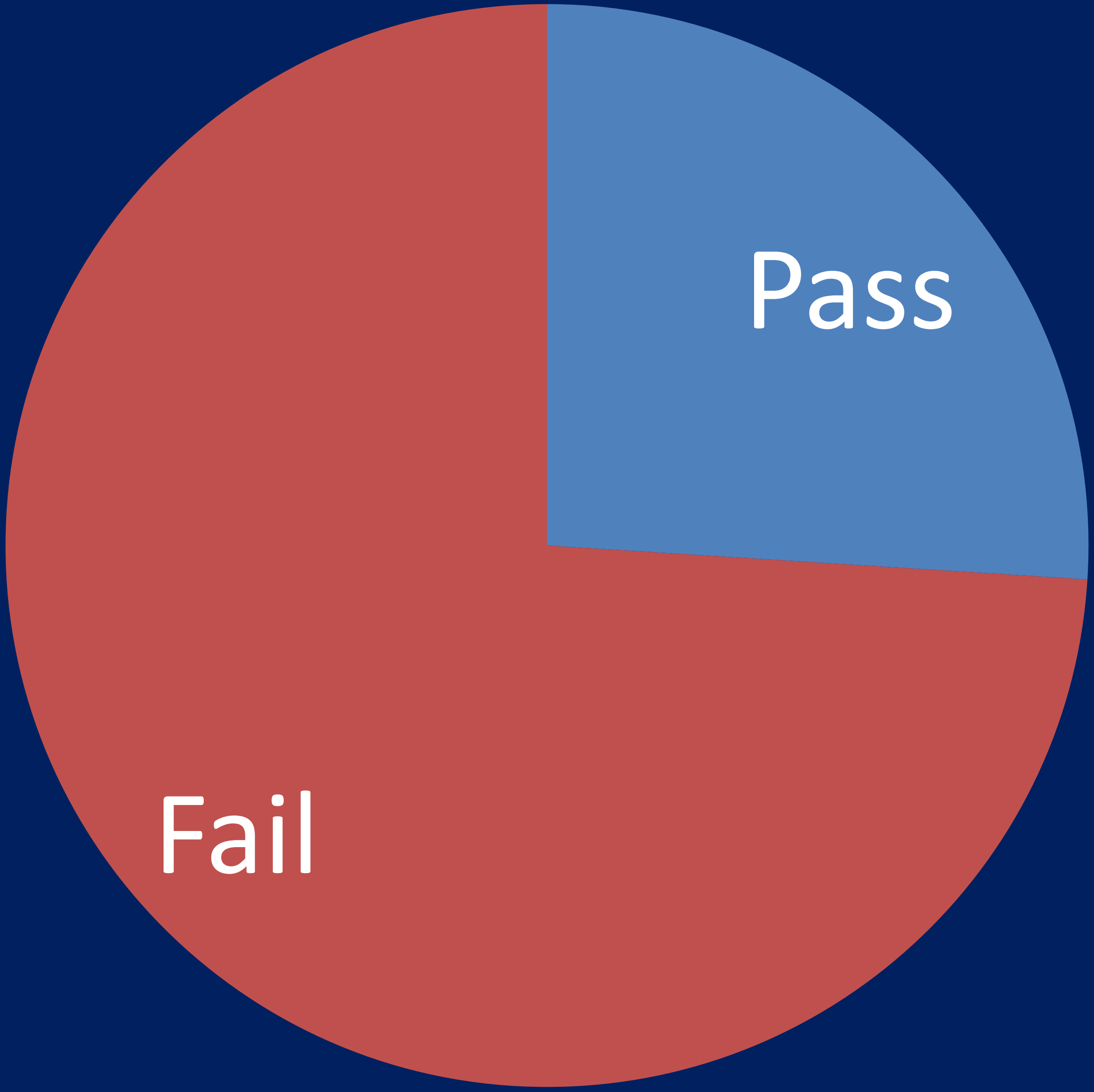
Express as Schematron rules

schema

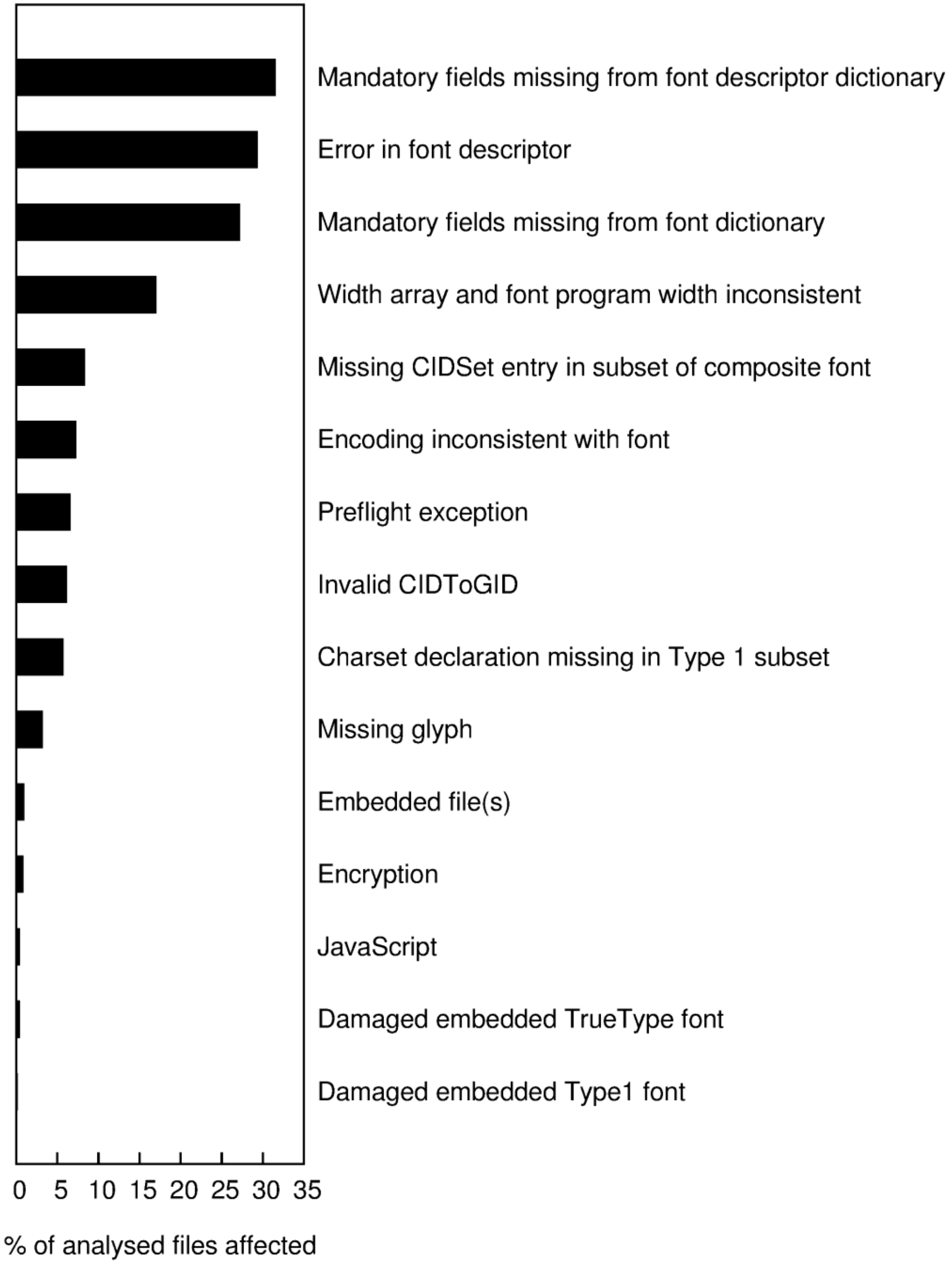
Test corpus

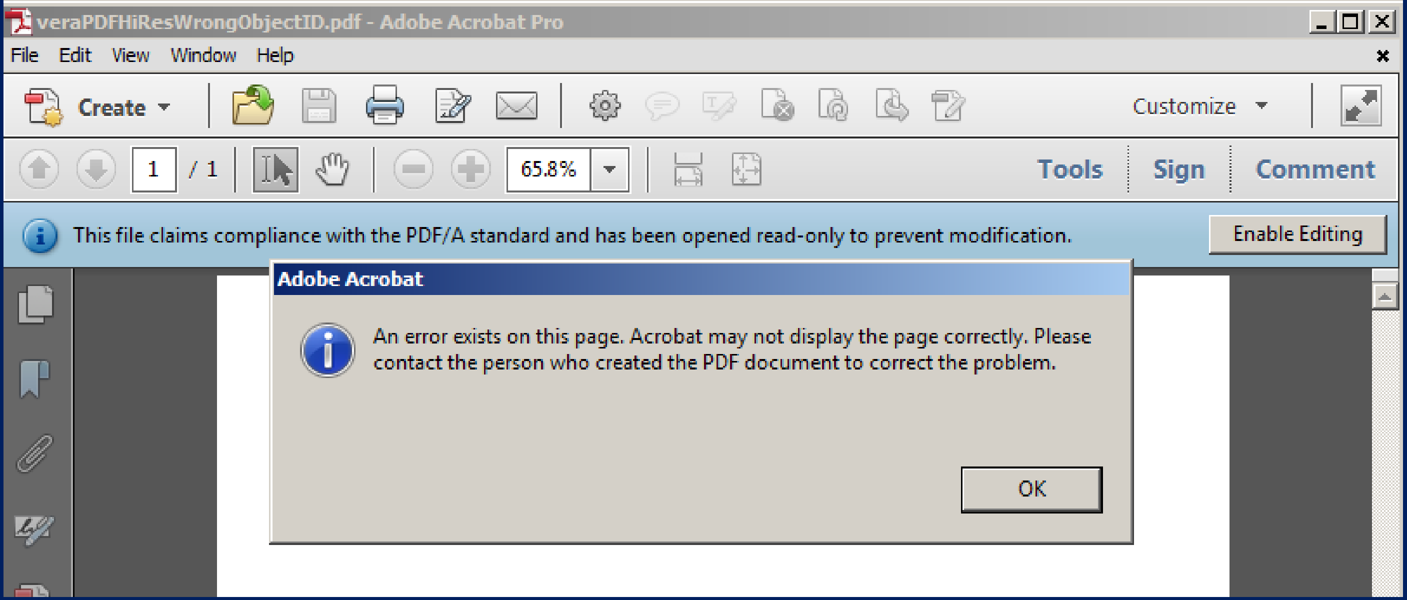
~ 15,000 PDFs from Govdocs1 dataset

http://digitalcorpora.org/corpora/govdocs


Pass
Fail

Failed tests assessment




veraPDFHiResWrongObjectID.pdf - Adobe Acrobat Pro
File
Edit
View
Window
Help
Create
Customize
1
/ 1
65.8%
Tools
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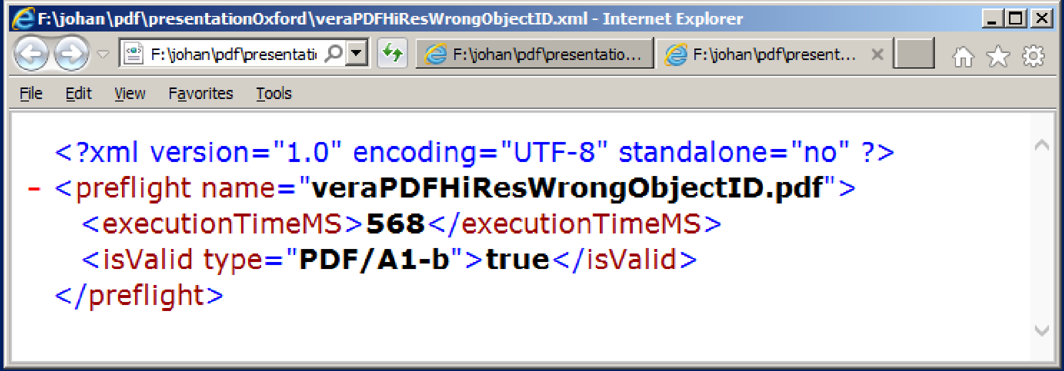
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Tools

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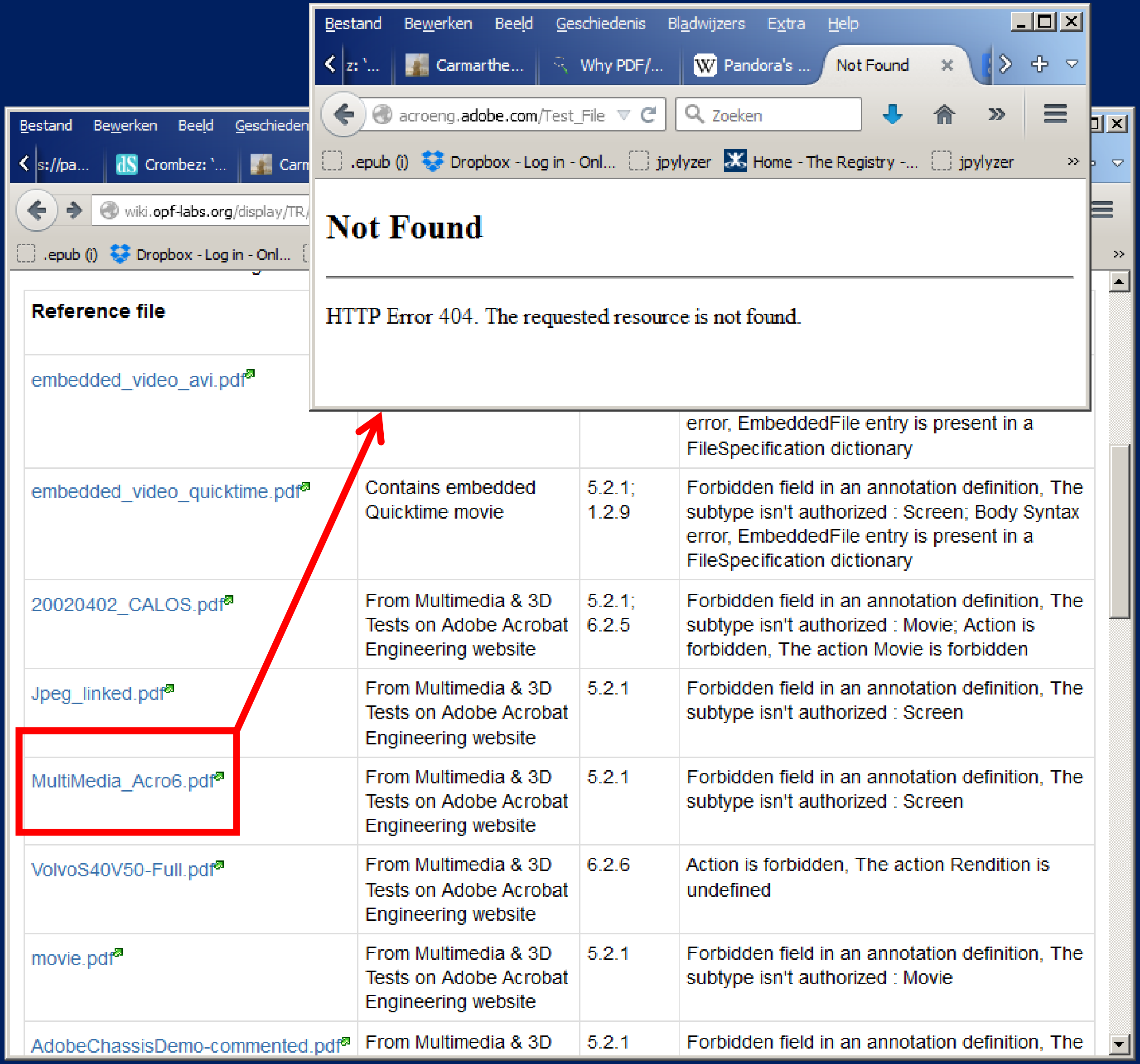
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acroeng.adobe.com/Test_File
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Home - The Registry -...
jpylyzer
s://pa...
Crombez: '...
Carm
wiki.opf-labs.org/display/TR/

Not Found

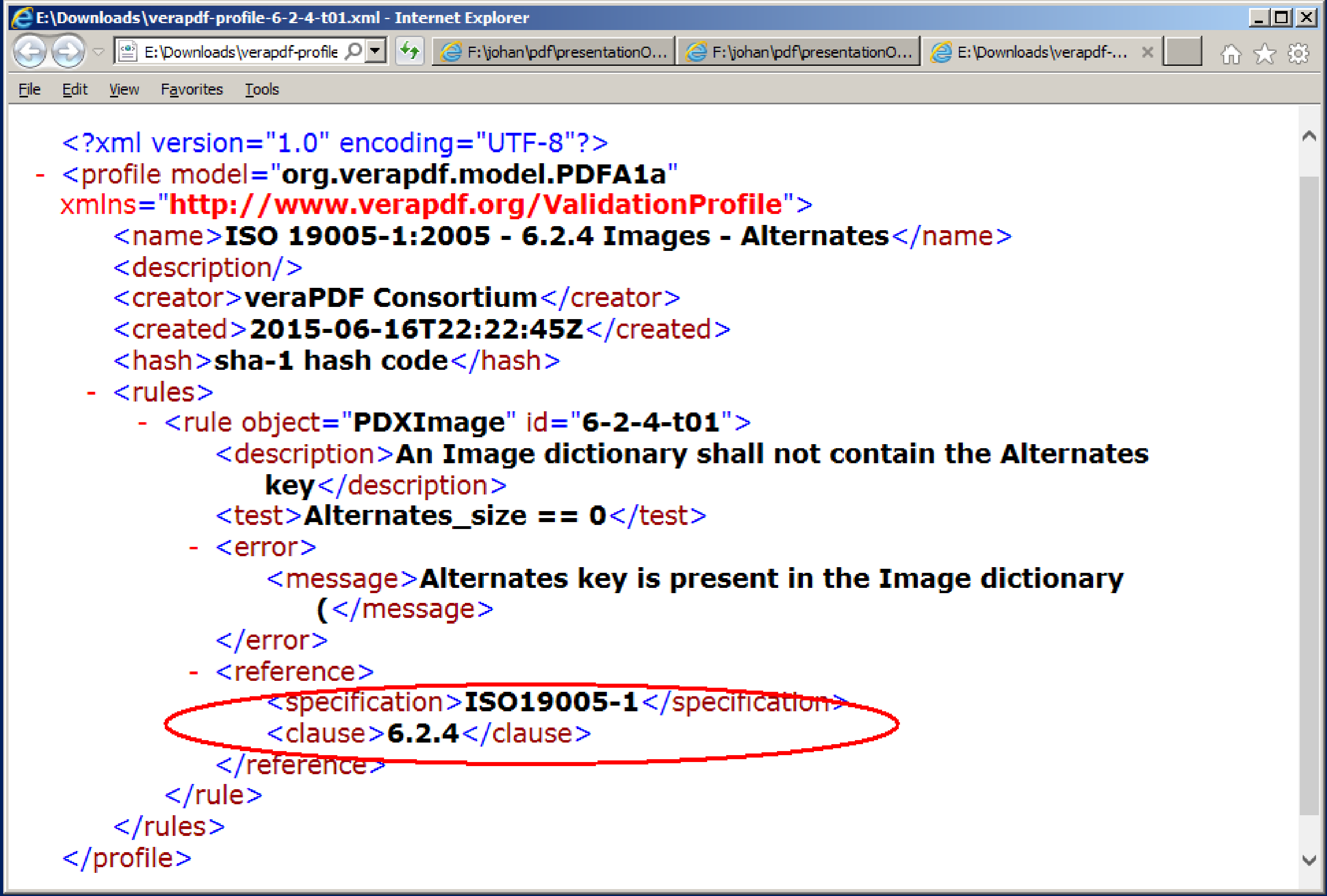
HTTP Error 404. The requested resource is not found.

Reference file			
embedded_video_avi.pdf			error, EmbeddedFile entry is present in a FileSpecification dictionary
embedded_video_quicktime.pdf	Contains embedded Quicktime movie	5.2.1; 1.2.9	Forbidden field in an annotation definition, The subtype isn't authorized : Screen; Body Syntax error, EmbeddedFile entry is present in a FileSpecification dictionary
20020402_CALOS.pdf	From Multimedia & 3D Tests on Adobe Acrobat Engineering website	5.2.1; 6.2.5	Forbidden field in an annotation definition, The subtype isn't authorized : Movie; Action is forbidden, The action Movie is forbidden
Jpeg_linked.pdf	From Multimedia & 3D Tests on Adobe Acrobat Engineering website	5.2.1	Forbidden field in an annotation definition, The subtype isn't authorized : Screen
MultiMedia_Acro6.pdf	From Multimedia & 3D Tests on Adobe Acrobat Engineering website	5.2.1	Forbidden field in an annotation definition, The subtype isn't authorized : Screen
VolvoS40V50-Full.pdf	From Multimedia & 3D Tests on Adobe Acrobat Engineering website	6.2.6	Action is forbidden, The action Rendition is undefined
movie.pdf	From Multimedia & 3D Tests on Adobe Acrobat Engineering website	5.2.1	Forbidden field in an annotation definition, The subtype isn't authorized : Movie
AdobeChassisDemo-commented.pdf	From Multimedia & 3D	5.2.1	Forbidden field in an annotation definition, The

Main challenges

1. Font issues
2. Conformance to ISO 32000
3. Ground truth

veraPDF


E:\Downloads\verapdf-profile-6-2-4-t01.xml - Internet Explorer
E:\Downloads\verapdf-profile
F:\johan\pdf\presentationO...
F:\johan\pdf\presentationO...
E:\Downloads\verapdf-...
File
Edit
View
Favorites
Tools

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  <?xml version="1.0" encoding="UTF-8"?>
- <profile model="org.verapdf.model.PDFA1a"
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      <description/>
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      <created>2015-06-16T22:22:45Z</created>
      <hash>sha-1 hash code</hash>
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        - <rule object="PDXImage" id="6-2-4-t01">
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                  key</description>
              <test>Alternates_size == 0</test>
            - <error>
                  <message>Alternates key is present in the Image dictionary
                      (</message>
              </error>
            - <reference>
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                  <clause>6.2.4</clause>
              </reference>
          </rule>
      </rules>
  </profile>
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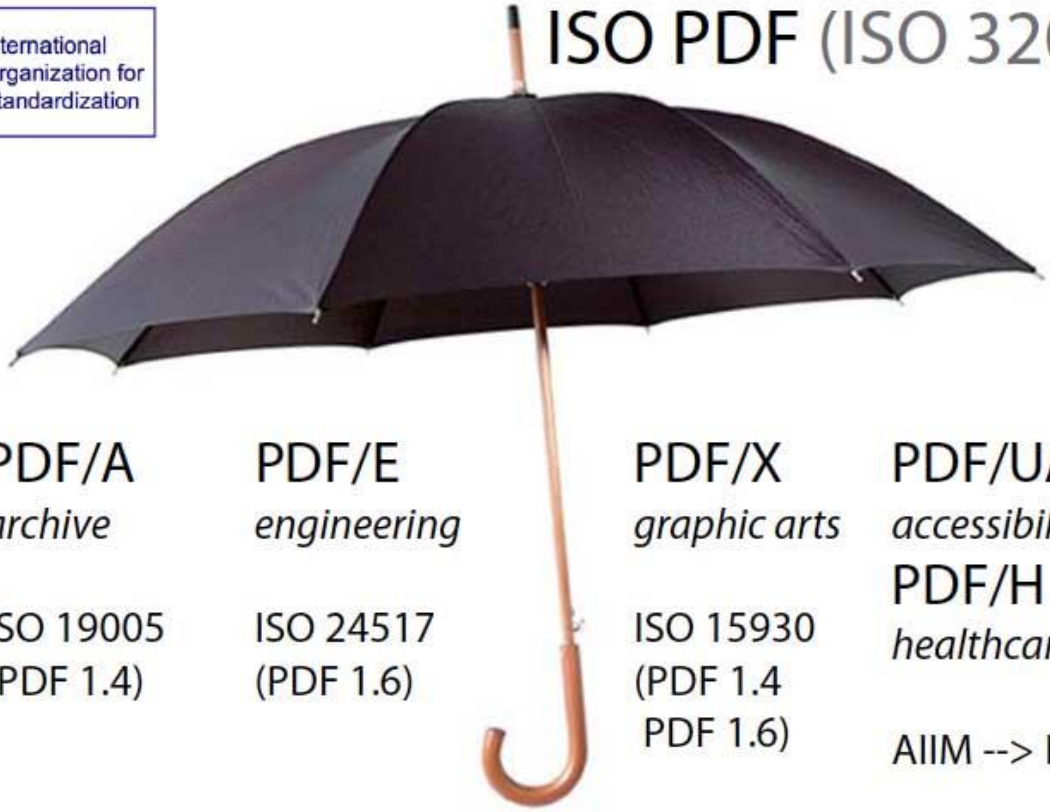
International
Organization for
Standardization

ISO PDF (ISO 32000)



PDF/A
archive

ISO 19005
(PDF 1.4)

PDF/E
engineering

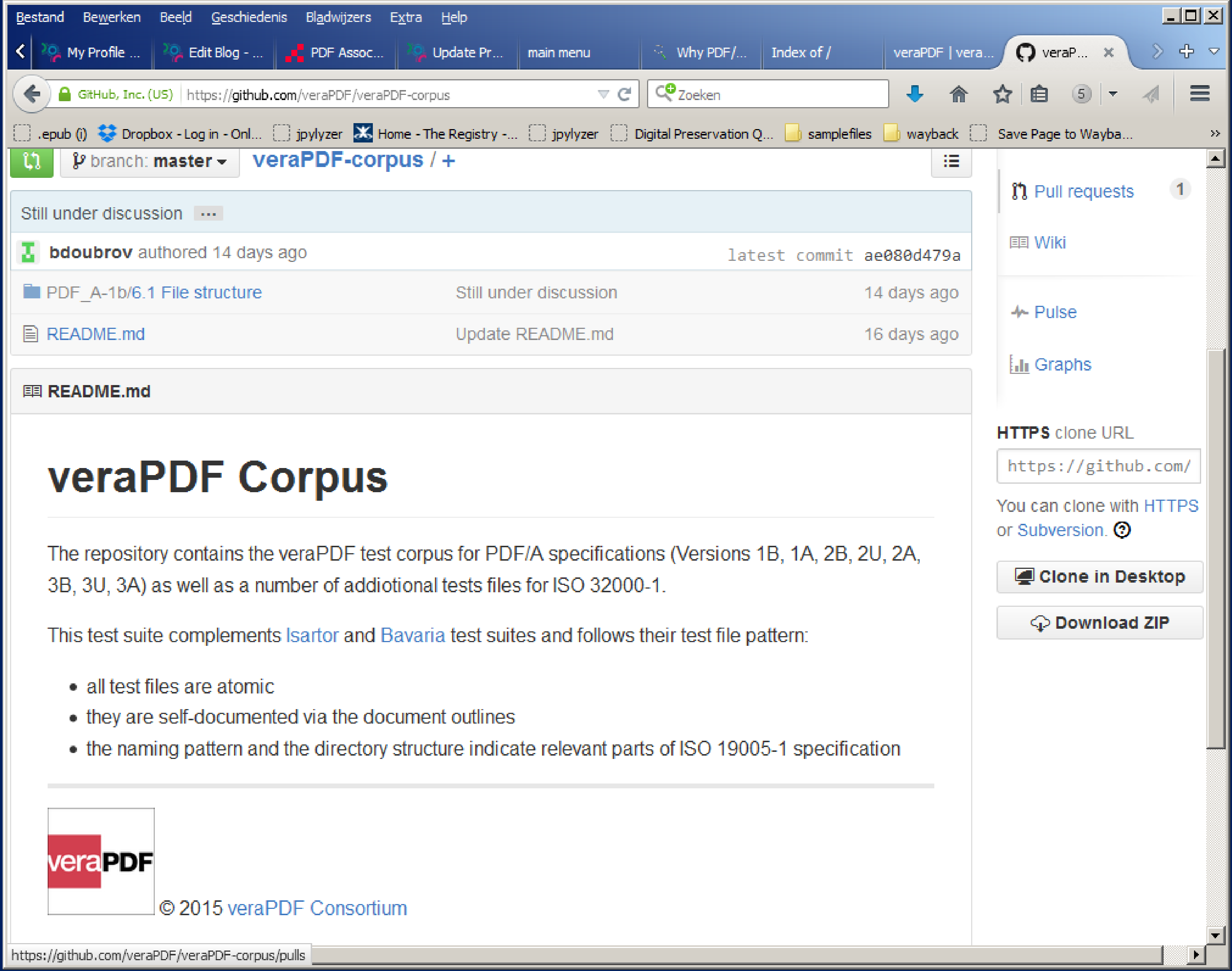
ISO 24517
(PDF 1.6)

PDF/X
graphic arts

ISO 15930
(PDF 1.4
PDF 1.6)

PDF/UA
accessibility
PDF/H
healthcare

AIIM --> ISO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jpylyzer
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samplefiles
wayback
Save Page to Wayba...
branch: master
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https://github.com/
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https://github.com/veraPDF/veraPDF-corpus/pulls

Still under discussion ···

bdoubrov authored 14 days ago latest commit ae080d479a

PDF_A-1b/6.1 File structure	Still under discussion	14 days ago
README.md	Update README.md	16 days ago

README.md

veraPDF Corpus

The repository contains the veraPDF test corpus for PDF/A specifications (Versions 1B, 1A, 2B, 2U, 2A, 3B, 3U, 3A) as well as a number of addiotional tests files for ISO 32000-1.

This test suite complements Isartor and Bavaria test suites and follows their test file pattern:

- all test files are atomic
- they are self-documented via the document outlines
- the naming pattern and the directory structure indicate relevant parts of ISO 19005-1 specification

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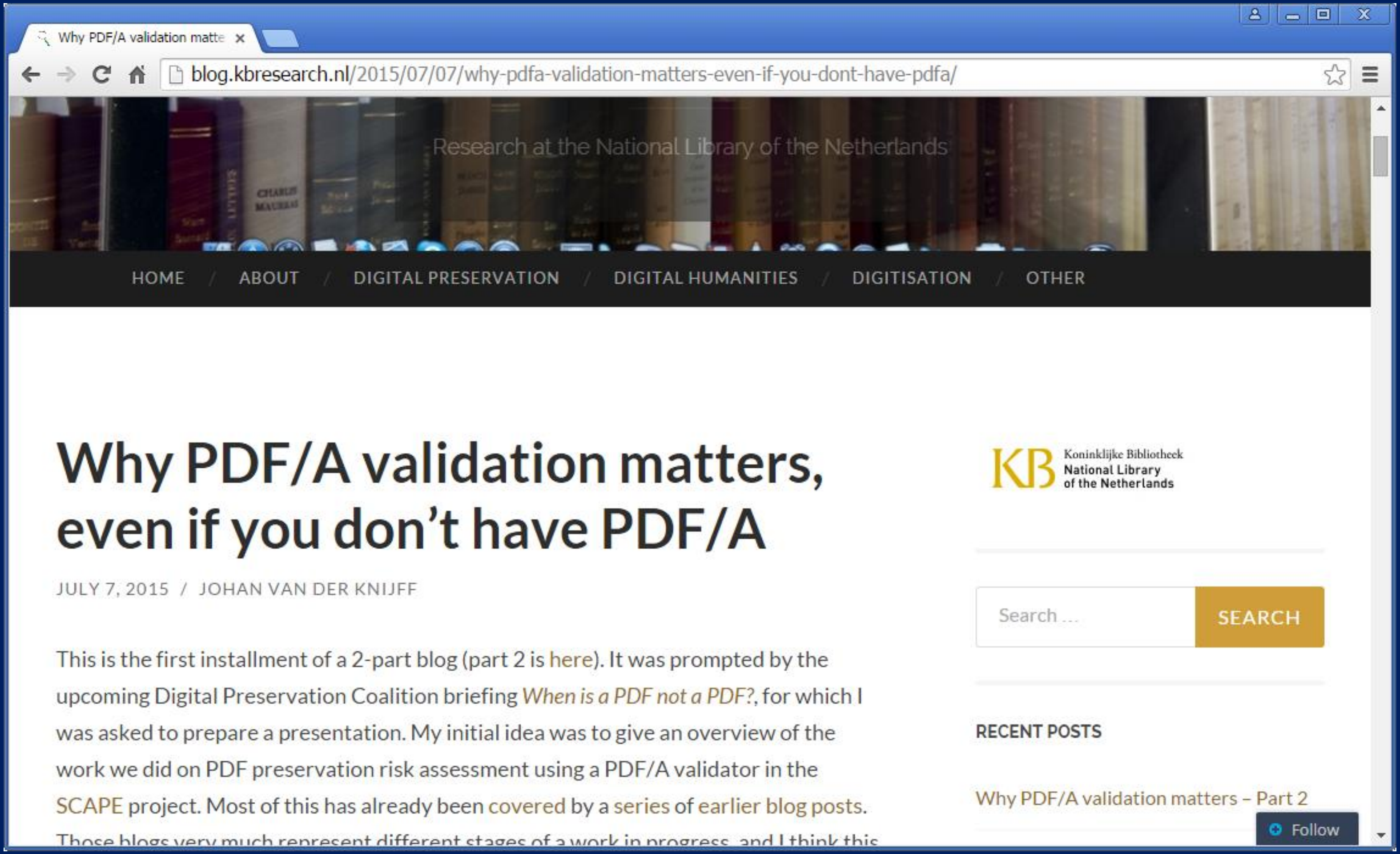
blog.kbresearch.nl/2015/07/07/why-pdfa-validation-matters-even-if-you-dont-have-pdfa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Why PDF/A validation matters – Part 2
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Why PDF/A validation matters, even if you don't have PDF/A

JULY 7, 2015 / JOHAN VAN DER KNIJFF

This is the first installment of a 2-part blog (part 2 is here). It was prompted by the upcoming Digital Preservation Coalition briefing *When is a PDF not a PDF?*, for which I was asked to prepare a presentation. My initial idea was to give an overview of the work we did on PDF preservation risk assessment using a PDF/A validator in the SCAPE project. Most of this has already been covered by a series of earlier blog posts. Those blogs very much represent different stages of a work in progress, and I think this

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