

Intro to PDF/A

What is PDF/A?

- PDF version for archiving and long-term preservation
- ISO standard
- Full replacement for paper

Why PDF/A?

Goal: long-term reproducibility

- View original document regardless of SW/HW/platform changes
- No need to convert a PDF/A document at a later date
- A PDF/A document is future-proof

→ **A PDF/A document must be self-contained**

- PDF/A is a subset of PDF

PDF/A & Memory Institutions

The National Archives & PDF/A

It's a preferred or accepted file format for:

- Digitized Paper Records
- Born-Digital Textual Data
- Born-Digital Posters
- Presentation Formats (slide decks)

The National Archives & Paper

By July 1st, 2024, Federal agencies must transfer *all* permanent records in electronic format with metadata.

Library of Congress & PDF/A

It's a preferred or accepted file format for:

- Textual Works - Digital
- Textual Works - Electronic Serials
- Musical Scores - Digital

PDF/A characteristics

PDF/A forbids certain PDF features

- JavaScript and executable file launches
- Audio and video content
- Encryption
- External content references
- Certain forms of compression
- Certain PDF forms

PDF/A requires certain optional PDF features

- Standards-based metadata
- Embedded fonts without IP restrictions
- Device-independent color specifications

PDF/A versions

version	published	ISO number	PDF version
PDF/A-1	2005	ISO 19005-1	1.4
PDF/A-2	2008	ISO 19005-2	1.7
PDF/A-3	2012	ISO 19005-3	1.7
PDF/A-4	2020	ISO 19005-4	2.0

- older versions are not obsolete!
 - PDF/A viewer must be backward compatible

Generating PDF/A documents

- Supported by many PDF creation tools
 - Commercial:
 - Adobe Acrobat Pro
 - ABBYY FineReader PDF
 - [Ghostscript](#): open source
 - Word (version dependent – not Mac!)

Validating PDF/A documents

- Checking to see if a document is PDF/A compliant
 - version and conformance level checks
- veraPDF
 - open source
 - funded by the European Commission, industry-supported
- Adobe Acrobat Pro
- Query metadata (not guaranteed)

Converting PDF to PDF/A documents

- Adobe Acrobat Pro
- Ghostscript
- Other open-source and commercial options

Related PDF Standards Work

Email Archiving in PDF

- Not part of PDF/A, but related
- Known originally as EA-PDF, now called PDF/mail
- Longer term goal: PDF/M ISO standard
- Working group exists
 - led by Chris Prom, History Lab participates
 - currently developing the technical specification for PDF Mail
- Learn More [here](#)

PDF/UA (Universal Accessibility)

- Standard so that people with disabilities can read PDF documents
- Requires specific tags and metadata to provide structural information
- **Implies conformance** with PDF/A-2a

References

- [Library of Congress: PDF/A](#)
- [PDF/A in a Nutshell](#)

Discussion

- PDF/A in your institution
- PDF/A personal experiences