



The National Archives

nationalarchives.gov.uk



The National Archives

TNA Digital Preservation Services

Adrian Brown
The National Archives



- PRONOM services
- Characterisation services

- **PRONOM services**
- Characterisation services



The technical registry PRONOM



Welcome

: About

Add an entry



Search



? Help

[? Help : detailed report on file format](#)

Details: File format summary

[File format](#) [PRONOM Unique Identifier](#) [Software](#) [Vendor](#) [Lifecycles](#)

Details for: Portable Document Format 1.6

 [Save as...](#) [XML | CSV](#) [Print](#)**Go to:** [Summary](#) | [Documentation >](#) | [Signatures >](#) | [Compression >](#) | [Character encoding >](#) | [Rights >](#) | [Reference files >](#)

Summary

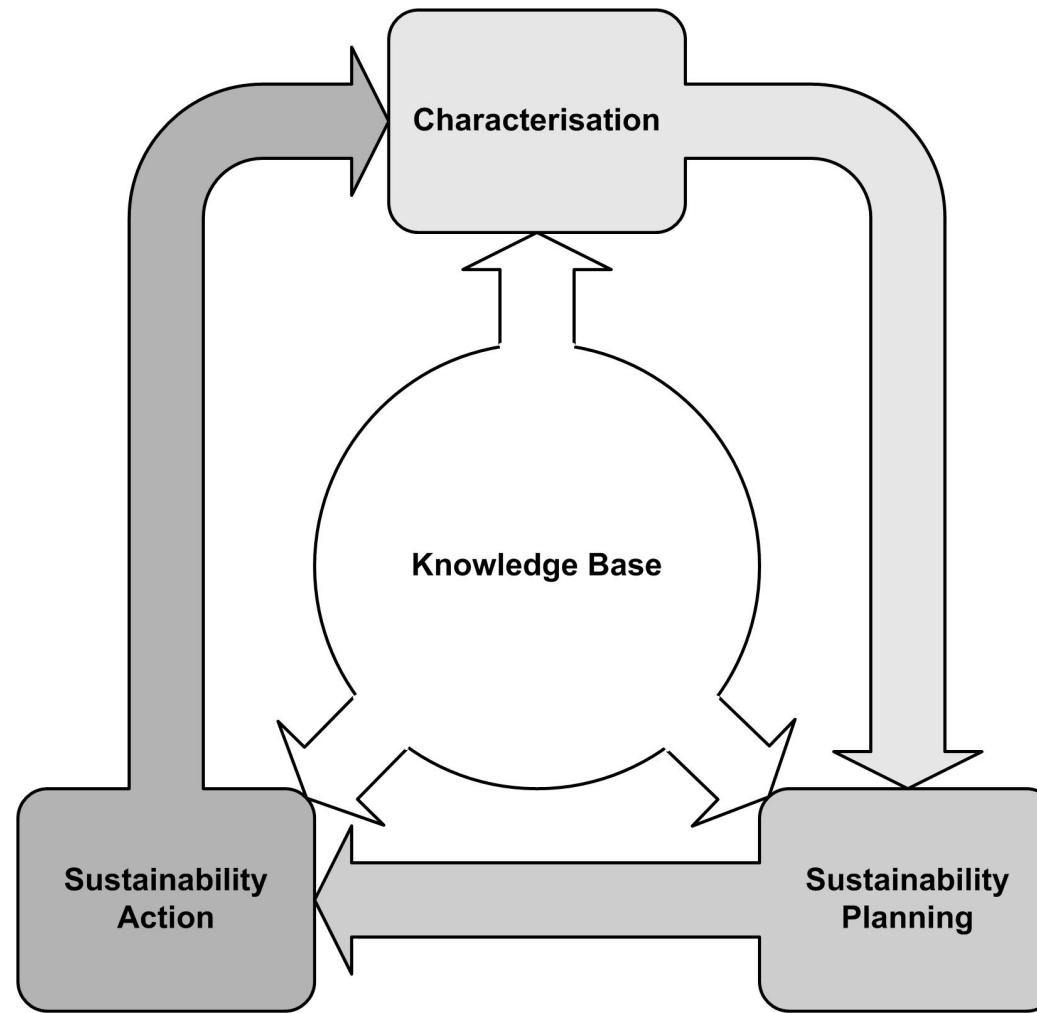
Name Portable Document Format**Version** 1.6**Other names** PDF (1.6)**Identifiers** PUID: fmt/20
MIME: application/pdf

Family

Classification Page Description**Disclosure** Full**Description** Portable Document Format is a platform-independent format for representing formatted documents, developed by Adobe Systems Incorporated. It is the native format of Adobe's Acrobat family of software products, version 1.6 corresponding to the release of Acrobat 7.0. PDF is based on, and shares the same imaging model as, the PostScript page description language. A PDF file comprises a Header section, a Body section containing the objects which make up the document, a Cross Reference Table, and a Trailer section. PDF files can contain a wide variety of content, including text, images, video and audio.**Orientation** Binary**Byte order** Big-endian (Motorola)

www.nationalarchives.gov.uk/pronom/

Active preservation



Characterisation

- Identification
 - *DROID*
- Validation
 - *Identification of appropriate validation tools*
- Property extraction
 - *Identification of appropriate extraction tools*



Preservation planning

- Risk assessment
 - Calculating formats at risk
- Technology watch
 - Monitoring technological change
- Preservation action plans
 - Identifying potential preservation actions (e.g. migration pathways)

Risk assessment of technologies

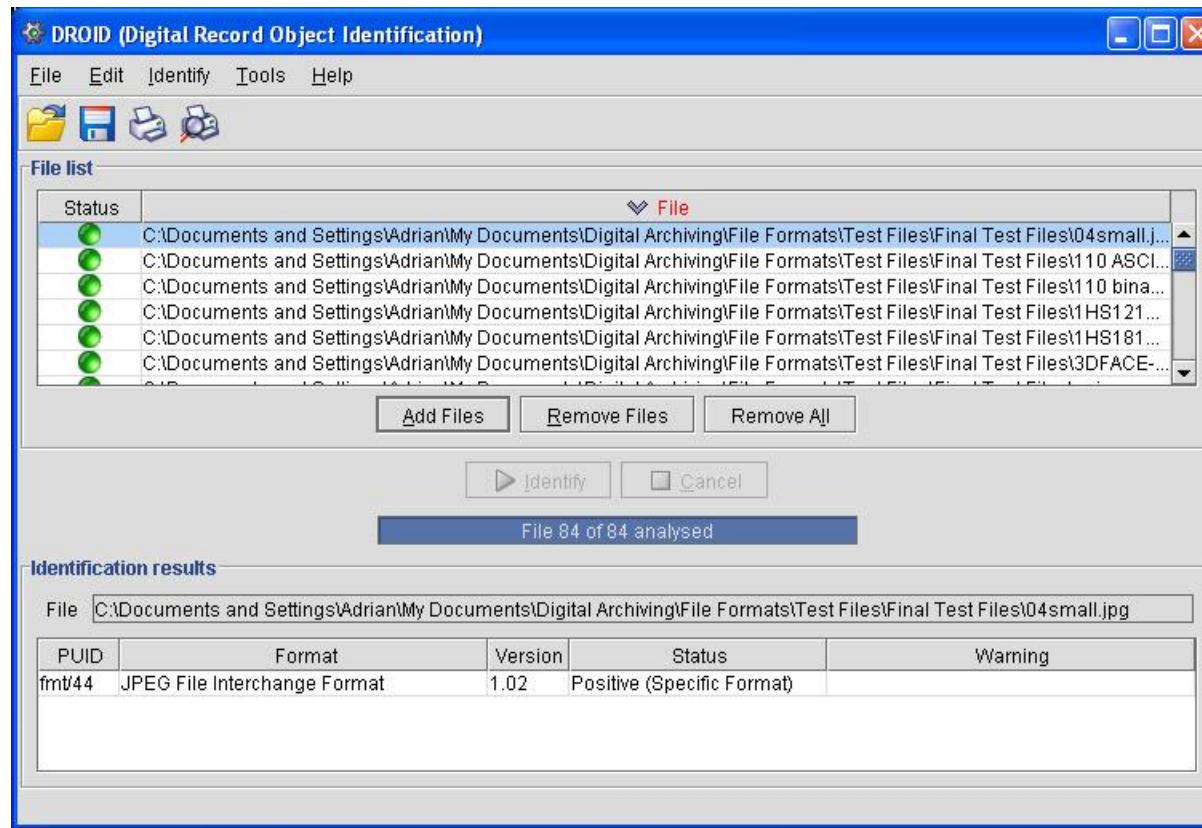
- Factors:
 - Adoption
 - Support
 - Disclosure
 - Stability
 - Quality of documentation
 - Intellectual property rights
 - Interoperability
 - Complexity

Current development

- Planets
 - Characterisation and Preservation Action Registries
 - Development of Java implementation
- Global Digital Format Registry
 - Ongoing discussions to align work

- PRONOM services
- **Characterisation services**

DROID



<http://droid.sourceforge.net/>

Collection Profiling

- Format profile
 - *Format distribution by count and volume*
- Age profile
 - *Age distribution by count and volume*
- Volumetric profile
 - *Total volume, smallest, largest and mean file sizes*



DROID

Profile

Report

Total readable files:	5163
Total file size (bytes):	549777970
Total unreadable folders:	0
Total unreadable files:	0
Smallest file's size (bytes):	1
Largest file's size (bytes):	32034816
Mean file size (bytes):	106484

Files by modified date

Last Modified Year	Number of Files	Total Bytes
2005	58	31062378
2006	133	94554102
2007	4970	424082642
2008	2	78848

Files by format

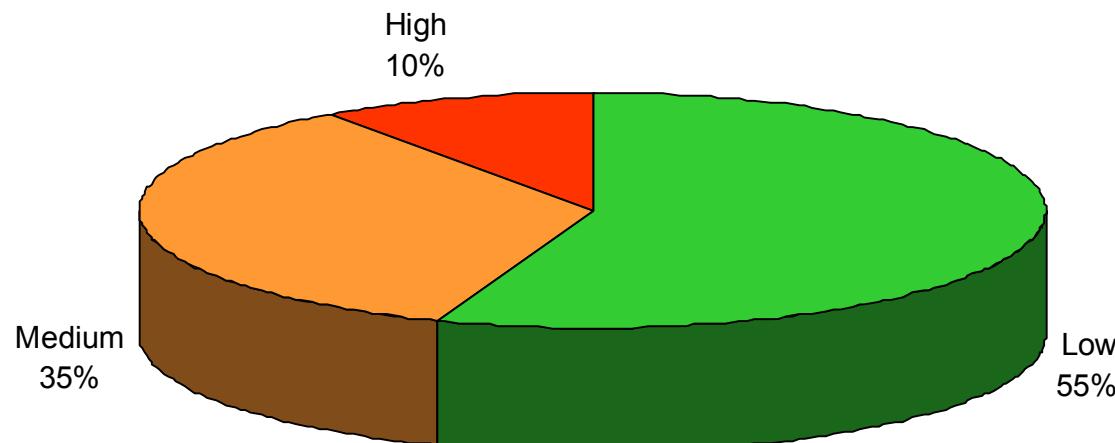
PUID	MIME	Format	Version	Number of ...	Total Bytes
fmt/59	application...	Binary Inter...	5	2	761856
fmt/99	text/html	Hypertext M...	4.0	8	115046
fmt/136		OpenDocu...	1.0	2	12164
fmt/137		OpenDocu...	1.0	2	13113
fmt/138		OpenDocu...	1.0	2	19444
fmt/139		OpenDocu...	1.0	2	18754
fmt/17	application...	Portable D...	1.3	1	276166
fmt/111		OLE2 Com...		34	6510080
fmt/18	application...	Portable D...	1.4	1	1506613
fmt/11	image/png	Portable N...	1.0	2	151291
fmt/40	application...	Microsoft ...	97-2003	101	104471552

Export to **Stop**



The National Archives

Risk Profile by File Count



Current development

- Functionality
 - Enhanced reporting
 - GUI improvements
- Performance
 - Scalable to 100 million files
 - Improved error logging
 - Checkpointing and performance throttling

Preserv Profile (ROAR) - Microsoft Internet Explorer provided by National Archives

http://roar.eprints.org/index.php?action=profile&url=http%3A%2F%2Fgtcni.openrepository.com%2Fgtcni%2F

eprints roar

Preserv Profile (ROAR)

Preserv Profile Search

Home Browse Search Content Search Register a Repository Help Login Register in ROARMAP

Please sign the [petition](#) in support of the European Commission's proposed [Open Access Self-Archiving Mandate](#)

Summary Preserv Profile

For more information about the Preserv project and repository content profiling see <http://preserv.eprints.org/>. Pronom's [file format identification](#) is currently under development, which may result in some strange format identifications.

The following chart shows the breakdown of all **files** contained in the repository(ies), based on an automated crawler. All files (apart from the abstract 'jump-off' page) were downloaded and then identified using the [Pronom](#) file format identification tool (Droid). Does not include files that are not hosted on the same server as the OAI interface or files that are over 2 megabytes in size.

You can subscribe to alerts for this profile by going to [Celestial's repository page](#).

OAI Repositories Included (1)

<http://gtcni.openrepository.com/gtcni-oai/request>

Format	Total Files
Portable Document Format (1.4)	147
Portable Document Format (1.3)	115
Portable Document Format (1.5)	34
Portable Document Format (1.6)	13
Portable Document Format (1.2)	12
Microsoft Word for Windows Document (97-2003)	7
Portable Document Format - Archival (1)	4
OLE2 Compound Document Format	2
[No files found]	1
Binary Interchange File Format (BIFF) Workbook (8)	1

Done 100%

Questions?



The National Archives

nationalarchives.gov.uk