BitCurator Tool List

Corey Forman (digitalsleuth)

2025-07-20

Archival

Tools used for digital archiving

advanced-renamer

Website: https://www.advancedrenamer.com/

Description:

Author: Kim Jensen (https://www.advancedrenamer.com/about)

License: https://advancedrenamer.com/license

Version: 4.06

Notes:

analyzeMFT

Website: https://github.com/rowingdude/analyzemft

Description: Python tool to fully parse the MFT from an NTFS file system

Author: Benjamin Cance (rowingdude)

License: MIT License (https://github.com/rowingdude/analyzeMFT/blob/master/LICENSE.txt)

Version: 3.0.6.6

Notes:

antiword

Website: https://github.com/grobian/antiword - https://cran.r-project.org/web/packages/antiword/index.html

Description:

Author: Ardi van Os

License: GNU General Public License

Version: 1.3.4

Notes:

bagger

Website: https://github.com/LibraryOfCongress/bagger?tab=readme-ov-file

Description:

Author: Library of Congress

License: Multiple (https://github.com/LibraryOfCongress/bagger/blob/master/LICENSE.txt)

Version: 2.8.1

Notes: Requires Java - https://javadl.oracle.com/webapps/download/AutoDL?BundleId=251408 0d8f12bc927a46

bagit-python

Website: https://libraryofcongress.github.io/bagit-python/

Description: Python library and command utility for working with Baglt style packages

Author: Library of Congress

License: Version: 1.8.1

Notes:

beyondcompare

Website: https://www.scootersoftware.com/

Description: Software to compare, merge, and synchronize data Author: Scooter Software (https://www.scootersoftware.com/about)

License: Free Trial - Additional Licensing (https://www.scootersoftware.com/kb/licensev5)

Version: 5.0.4

Notes:

bitcurator-python-tools

Website: https://github.com/bitcurator/bitcurator-python-tools

Description: BitCurator Python 3 scripts as an installable pip package Author: Corey Forman (digitalsleuth), Kam Woods, Simson L. Garfinkel

License: MIT License (https://github.com/BitCurator/bitcurator-python-tools/blob/main/licenses/LICENSE.MIT.md)

Version: 1.0.0

Notes:

brunnhilde

Website: https://github.com/tw4l/brunnhilde

Description:

Author: Tessa Walsh

License: MIT License (https://github.com/tw4l/brunnhilde/blob/main/LICENSE)

Version: 1.9.6

Notes: GUI not yet ready for Windows - https://github.com/tw4l/brunnhilde-gui

Bulk Extractor

Website: https://digitalcorpora.org/downloads/bulk extractor & https://github.com/simsong/bulk extractor

Description: Tool for extracting artifacts from random data

Author: Simson L. Garfinkel

License: MIT License (https://github.com/simsong/bulk extractor/blob/main/LICENSE.md)

Version: 1.5.5

Notes:

Bulk Rename Utility

Website: https://www.bulkrenameutility.co.uk

Description: Tool to rename multiple files with similar names

Author: TGRMN Software

License: EULA (https://www.bulkrenameutility.co.uk/License.php)

Version: 4.0.0.9

Notes:

clamav

Website: https://www.clamav.net/

Description: Open source anti-virus scanner Author: https://www.clamav.net/about

License: GNU General Public License v2 (https://github.com/Cisco-Talos/clamav/blob/main/COPYING.txt)

Version: 1.4.1

dart

Website: https://aptrust.github.io/dart-docs/ Description: Digital Archivist's Resource Tool

Author: Academic Preservation Trust

License: BSD 2-Clause License (https://github.com/APTrust/dart/blob/master/LICENSE)

Version: 2.0.22

Notes:

deark

Website: https://entropymine.com/deark/

Description: Portable command-line utility to decode file types

Author: Jason Summers

License: MIT (https://github.com/jsummers/deark/blob/master/COPYING)

Version: 1.6.8

Notes:

demystify

Website: https://github.com/exponential-decay/demystify Description: Analysis engine for siegfried and DROID reports

Author: Ross Spencer

License: Copyright - As Is (https://github.com/exponential-decay/demystify/blob/main/LICENSE.txt)

Version: 1.0.0

Notes: demystify, sqlitefid, pathlesstaken

demystify-lite

Website: https://github.com/ross-spencer/demystify-lite Description: WASM based version of Demystify using pyscript

Author: Ross Spencer

License: GNU General Public License v3 (https://github.com/ross-spencer/demystify-lite/blob/main/LICENSE)

Version: 0.0.0

Notes:

dfxml-python

Website: https://github.com/dfxml-working-group/dfxml_python

Description: DFXML file format designed to capture metadata and provenance info

Author: DFXML Working Group

License: Multiple (https://github.com/dfxml-working-group/dfxml_python/blob/main/LICENSE.md)

Version: 0.0.0

Notes:

DROID

Website: https://www.nationalarchives.gov.uk/information-management/manage-information/preserving-

digital-records/droid/

Description: File Format Identification Tool

Author: The National Archives

License: BSD License (https://raw.github.com/digital-preservation/droid/master/license.md)

Version: 6.8.0

Notes: Command Line and GUI, this will utilize the GUI by default, updates signature database on

install

dupeguru

Website: https://dupeguru.voltaicideas.net/

Description: Cross-platform tool to find duplicate files in a system

Author: Andrew Senetar

License: GNU General Public License v3 (https://github.com/arsenetar/dupeguru/blob/master/LICENSE)

Version: 4.3.1

Notes:

Duplicate Cleaner

Website: https://www.duplicatecleaner.com/

Description: Tool to identify and manage duplicate files in a file system

Author: DigitalVolcano Software

License: 7 Day Free Trial - License after trial

Version: 5.25.0.0

Notes:

dvd-transcoder

Website: https://github.com/digitalsleuth/videomachine

Description: Python script to convert DVD ISO files to various formats

Author: Bay Area Video Coalition and Corey Forman

License: None Version: 2.1.0

Notes: Requires ffmpeg, mediainfo cli optional

Eclipse Temurin

Website: https://adoptium.net/temurin/ Description: Open JDK by Adoptium

Author: Adoptium

License: Eclipse Public License v2 (https://www.eclipse.org/legal/epl-2.0/)

Version: 21.0.5

Notes:

epadd

Website: https://www.epaddproject.org/

Description:

Author: Stanford University's Special Collections and University Archives

License: Creative Commons Attribution 2.0 / Apache License v2.0 (https://github.com/ePADD/epadd/blob/main/RI

Version: 11.0.2

Notes: Will prompt for firewall access on first launch

exact-audio-copy

Website: https://www.exactaudiocopy.de/

Description:

Author: Andre Wiethoff

License: Free for private use (https://www.exactaudiocopy.de/en/index.php/resources/registration/)

Version: 1.8

Notes:

ExifTool

Website: https://exiftool.org

Description: Tool for analysing EXIF data from files

Author: Phil Harvey

License: https://exiftool.org/#license

Version: 13.32

Notes:

ffmpeg

Website: https://www.ffmpeg.org/

Description: Framework and toolset to work with multimedia files

Author: Fabrice Bellard et al (https://git.ffmpeg.org/gitweb/ffmpeg.git/blob_plain/HEAD:/MAINTAINERS)

License: GNU Lesser General Public License v2.1 (https://git.ffmpeg.org/gitweb/ffmpeg.git/blob_plain/HEAD:/LICE

Version: 7.1

Notes: ffmpeg, ffprobe, ffplay

fido

Website: https://github.com/openpreserve/fido

Description: Format Identification for Digital Objects (FIDO) is a command-line tool to identify file

formats

Author: Open Preserve Foundation

License: Apache License v2.0 (https://github.com/openpreserve/fido/blob/main/LICENSE.txt)

Version: 1.6.1

Notes:

filelist

Website: https://www.jam-software.com/filelist Description: Creates lists of files on your PC

Author: Jam Software

License: Freeware (https://www.jam-software.com/company/license agreement.shtml#freeware-

and-trial-versions-570287)

Version: 4.4.1

Notes:

FilelistCreator

Website: https://www.sttmedia.com/filelistcreator

Description:

Author: Stefan Trost

License: Custom - https://www.sttmedia.com/licence

Version: 24.8.29

Notes:

filezilla

Website: https://filezilla-project.org/

Description: Free FTP Client Author: FileZilla Project

License: GNU General Public License v2 (https://filezilla-project.org/license.php)

Version: 3.68.1

Notes:

fits

Website: https://github.com/harvard-lts/fits

Description:

Author: Harvard University

License: GNU Lesser General Public License v2.1 (https://github.com/harvard-lts/fits/blob/main/LICENSE)

Version: 1.6.0

Notes:

fluxengine

Website: https://github.com/davidgiven/fluxengine Description: PSOC5 floppy disk imaging interface

Author: David Given

License: MIT License (https://github.com/davidgiven/fluxengine/blob/master/COPYING.md)

Version: None

Notes: Installs for current user

FTK Imager

Website: https://www.exterro.com

Description: Forensic Image Acquisition and Triage tool

Author: Exterro Inc / AccessData

License: EULA Version: 4.7.3.81

Notes:

gimp

Website: https://www.gimp.org/downloads/ Description: GNU Image Manipulation Program

Author: Multiple (https://www.gimp.org/docs/userfaq.html#is-there-a-company-or-a-foundation-

behind-gimp)

License: GNU General Public License v3+ (https://www.gimp.org/docs/userfag.html#whats-the-

gimps-license-and-how-do-i-comply-with-it)

Version: 2.10.38

Notes:

hashdeep

Website: https://github.com/jessek/hashdeep

Description:

Author: Jesse Kornblum

License: GNU General Public License v2 (https://github.com/jessek/hashdeep/blob/master/COPYING)

Version: 4.4

Notes:

hashmyfiles

Website: https://www.nirsoft.net/utils/hash my files.html

Description: Author: Nir Softer

License: Freeware (https://www.nirsoft.net/utils/hash my files.html)

Version: 2.5.0

Notes:

hfs-explorer

Website: https://www.catacombae.org/hfsexplorer/

Description: An application for accessing HFS/HFS+/HFSX file systems

Author: Erik Larsson

License: GNU General Public License v3+ (https://github.com/unsound/hfsexplorer/blob/master/doc/gpl.txt)

Version: 2021.10.9

Notes:

isobuster

Website: https://www.isobuster.com/download.php

Description: File data recovery software Author: Smart Projects / Peter Van Hove

License: Free (https://www.isobuster.com/license-models.php)

Version: 5.5

Notes:

jdupes

Website: https://codeberg.org/jbruchon/jdupes Description: File de-duplication software

Author: Jody Bruchon

License: MIT License (https://codeberg.org/ibruchon/idupes/src/branch/master/LICENSE.txt)

Version: 1.28.0

Notes:

jhove

Website: https://jhove.openpreservation.org/

Description: JSTOR/Harvard Object Validation Environment - File validation and characterisation

Author: Open Preservation Foundation

License: GNU Lesser Public License v2.1 (https://github.com/openpreserve/jhove/blob/integration/LICENSE)

Version: 1.32.0

Notes: Packaged separately for silent unattended installation

karens-directory-printer

Website: https://www.karenware.com/powertools/karens-directory-printer

Description:

Author: Karen Kenworth, Joe Winett

License: Free for Personal and Educational Use (https://www.karenware.com/licenseme)

Version: 5.4.4

Notes:

KryoFlux

Website: https://kryoflux.com/?page=download Description: USB Floppy Controller and drivers

Author: KryoFlyx

License: Proprietary - Software Preservation Society (packaged with drivers)

Version: 3.50 Notes: Drivers only

mailbagit

Website: https://github.com/UAlbanyArchives/mailbagit

Description: Tool to preserve emails using multiple preservation formats

Author: University of Albany

License: MIT License (https://github.com/UAlbanyArchives/mailbagit/blob/main/LICENSE)

Version: 0.7.3

mediainfo

Website: https://mediaarea.net/en/MediaInfo/Download/Windows Description: Tool to display and manage metadata for media files

Author: MediaArea

License: Open Source / BSD-style (https://mediaarea.net/en/MediaInfo)

Version: 24.12

Notes:

mediainfo-cli

Website: https://mediaarea.net/en/MediaInfo/Download/Windows Description: CLI tool to display and manage metadata for media files

Author: MediaArea

License: Open Source / BSD-style (https://mediaarea.net/en/MediaInfo)

Version: 24.12

Notes:

mkvtoolnix

Website: https://mkvtoolnix.download/

Description: A set of tools to inspect, alter and create Matroska media files

Author: Moritz Bunkus et al (https://gitlab.com/mbunkus/mkvtoolnix/-/blob/main/AUTHORS?ref_type=heads) License: GNU General Public License v2 (https://gitlab.com/mbunkus/mkvtoolnix/-/blob/main/COPYING?ref_type=

Version: 88.0

Notes:

mupdf

Website: https://www.mupdf.com

Description: Open source framework for viewing and converting PDF, XPS, and E-Book documents.

Author: Multiple (https://github.com/ArtifexSoftware/mupdf/blob/master/CONTRIBUTORS)

License: GNU Affero General Public License v3 (https://github.com/ArtifexSoftware/mupdf/blob/master/COPYING)

Version: 1.25.2

Notes:

nsrllookup

Website: https://rjhansen.github.io/nsrllookup/

Description: Tool to look up the hash for a file in the NSRL

Author: Robert J. Hansen

License: ISC License (https://github.com/rjhansen/nsrllookup/blob/master/LICENSE)

Version: 1.4.2

Notes:

openai-whisper

Website: https://github.com/openai/whisper Description: Robust speech recognition model

Author: OpenAl

License: MIT License (https://github.com/openai/whisper/blob/main/LICENSE)

Version: 20240930

Notes:

openrefine

Website: https://openrefine.org/

Description: Open source tool for working with messy data

Author: OpenRefine

License: BSD 3-Clause (https://github.com/OpenRefine/OpenRefine/blob/master/LICENSE.txt)

Version: 3.8.7

Notes:

powergrep

Website: https://www.powergrep.com/

Description: Graphical GREP tool for Windows

Author: Jan Goyvaerts License: Free Trial Version: 5.3.8

Notes:

pymupdf

Website: https://github.com/pymupdf/PyMuPDF

Description: Python library for data extraction and analysis of PDF

Author: Jorj X. McKie and Artifex Software

License: GNU Affero General Public License v3 (https://github.com/pymupdf/PyMuPDF/blob/main/COPYING)

Version: 1.25.1

Notes:

rawcooked

Website: https://mediaarea.net/RAWcooked

Description: Encodes RAW audio/visual sequences into a lossless video stream

Author: MediaArea

License: BSD 2-Clause license (https://mediaarea.net/RAWcooked)

Version: 24.11

Notes:

rclone

Website: https://rclone.org/downloads/

Description: Command-line program to manage files on cloud storage

Author: Maintainers (https://github.com/rclone/blob/master/MAINTAINERS.md)

License: MIT License (https://github.com/rclone/rclone/blob/master/COPYING)

Version: 1.68.2

Notes:

siegfried

Website: https://www.itforarchivists.com/siegfried/

Description: Signature-based file format identification tool

Author: Richard Lehane

License: Apache License (https://github.com/richardlehane/siegfried/blob/main/LICENSE.txt)

Version: 1.11.1 Notes: sf.exe, roy.exe

tika

Website: https://tika.apache.org/download.html

Description: Content analysis toolkit to extract metadata and text

Author: Apache

License: Apache License v2.0 (https://tika.apache.org/download.html)

Version: 3.2.1

Notes:

TreeSize Pro

Website: https://www.jam-software.com/treesize

Description: Graphical tool for managing storage spaces

Author: Jam Software

License: Trial Version of Pro (https://www.jam-software.com/company/license agreement.shtml#freeware-

and-trial-versions-570287)

Version: 9.5.1

Notes:

vrenamer

Website: https://vrenamer.com/ Description: Mass renaming software

Author: Carlos Verdier

License: GNU General Public License v3 (https://sourceforge.net/projects/vrenamer/)

Version: 1.6.1

Notes:

windirstat

Website: https://windirstat.net/

Description: Disk usage statistics viewer for Microsoft Windows

Author: Multiple (https://github.com/windirstat/windirstat/blob/master/CONTRIBUTORS.md)

License: GNU General Public License v2 (https://github.com/windirstat/windirstat/blob/master/LICENSE.md)

Version: 2.1.1

Notes:

WinMerge

Website: https://winmerge.org Description: File Differencing Tool

Author: Dean P. Grimm (Thingamahoocie Software)

License: GNU General Public License v2.0 (https://github.com/WinMerge/winmerge/blob/master/LICENSE.md)

Version: 2.16.44

Notes:

Browsers

Web browsers

Firefox

Website: https://www.mozilla.org/en-US/firefox/new/

Description: Mozilla web browser

Author: Mozilla Foundation

License: Mozilla Public License 2.0 (https://www.mozilla.org/en-US/MPL/)

Version: 133.0.3

Google Chrome

Website: https://www.google.com Description: Google Web Browser

Author: Google

License: https://policies.google.com/terms

Version: 108.0.5359.72

Notes:

Documents / Editors

Applications to create, modify document files.

libreoffice

Website: https://www.libreoffice.org/download/download-libreoffice/

Description: Open source Office-like document suite

Author: The Document Foundation

License: Free Software - Multiple (https://www.libreoffice.org/about-us/licenses)

Version: 24.8.4.2

Notes:

Notepad++

Website: https://notepad-plus-plus.org Description: Free source code / text editor

Author: Don Ho

License: GNU General Public License 2.0 (https://notepad-plus-plus.org/)

Version: 8.7.5

Notes:

Sublime Text

Website: https://www.sublimetext.com Description: Text Editor for markup and code

Author: Sublime HO Ptv Ltd

License: EULA (https://www.sublimehq.com/eula)

Version: 4189

Notes:

Raw Parsers / Decoders

Basic tools for byte-level analysis of data blobs

Hex Editor Neo (Free)

Website: https://www.hhdsoftware.com

Description: Hex Editor Author: HHD Software

License: EULA (https://www.hhdsoftware.com/company/terms-of-use)

Version: 7.50.04.8813

HxD

Website: https://mh-nexus.de Description: Hex Editor

Author: Mael Horz

License: https://mh-nexus.de/en/about.php

Version: 2.5.0.0

Notes:

Requirements

Applications required to make everything else work

.NET 3.5 Framework

Website: https://download.visualstudio.microsoft.com/download/pr/b635098a-2d1d-4142-bef6-

d237545123cb/2651b87007440a15209cac29634a4e45/dotnetfx35.exe

Description: Microsoft .NET 3.5 Framework with .NET 2.0

Author: Microsoft

License:

Version: .NET 3.5 SP1

Notes:

Git for Windows

Website: https://github.com/git-for-windows/git Description: Version Control System for Windows

Author: Git (git-scm.com)

License: GNU Public License and Lesser GNU Public License (https://github.com/git-for-windows/git/blob/main/CO

https://github.com/git-for-windows/git/blob/main/LGPL-2.1)

Version: 2.38.1

Notes:

Java Runtime Environment

Website: https://www.java.com

Description: Java Engine

Author: Oracle

License: https://www.oracle.com/legal/terms.html

Version: 8.0.4310.10

Notes:

Portals

Website: https://portals-app.com Description: Desktop Organizer

Author: Ross Patterson

License: Free To Use - Terms and Conditions (https://rosspat.dev/privacy/)

Version: 3.2.1.0

Notes:

Python 3

Website: https://www.python.org

Description: Python Programming Language Framework

Author: Python Software Foundation

License: Python Software Foundation License Version 2.0 (https://docs.python.org/3.10/license.html)

Version: 3.10.1150.0

Notes:

WSL 2 System Update

Website: https://wslstorestorage.blob.core.windows.net/wslblob/wsl_update_x64.msi

Description: Update for Windows Subsystem for Linux to version 2

Author: Microsoft License: EULA Version: 5.10.16

Notes:

Terminals

Use of Linux-emulated terminals on Windows

Windows Terminal

Website: https://github.com/microsoft/terminal

Description: Terminal Emulator

Author: Microsoft

License: MIT License (https://github.com/microsoft/terminal/blob/main/LICENSE)

Version: 1.20.11781.0

Notes:

WSL Setup

Website: https://microsoft.com

Description: Windows Subsystem for Linux setup

Author: Microsoft License: EULA Version: 0.0 Notes:

Utilities

Basic utilities to assist in data analysis or transfer

7-Zip

Website: https://7-zip.org

Description: Zip Compiler and Extractor

Author: Igor Pavlov

License: GNU LGPL (https://www.7-zip.org/fag.html)

Version: 24.06

Notes:

Microsoft PowerToys

Website: https://github.com/microsoft/powertoys Description: Windows productivity system utilities

Author: Microsoft

License: MIT (https://github.com/microsoft/PowerToys/blob/main/LICENSE)

Version: 0.86.0

Notes:

OpenHashTab

Website: https://github.com/namazso/OpenHashTab

Description: Shell extension for file hashing

Author: namazso

License: GNU General Public License 3.0 (https://github.com/namazso/OpenHashTab/blob/master/COPYING)

Version: 3.0.4

Notes:

TeraCopy

Website: https://www.codesector.com/teracopy

Description: File transfer utility for consistent and uninterrupted transfers

Author: Code Sector

License: FREEWARE (private / non-commerical)

Version: 3.17

Notes:

VLC Media Player

Website: https://www.videolan.org/

Description: Media Player

Author: VideoLAN

License: GNU General Public License v2 (https://www.videolan.org/legal.html)

Version: 3.0.21

Notes:

Voidtools Everything

Website: https://www.voidtools.com Description: File Search Utility

Author: David Carpenter

License: https://www.voidtools.com/License.txt

Version: 1.4.1.1026

Notes:

Windows Winget

Website: https://github.com/microsoft/winget-cli

Description: Windows Package Manager

Author: Microsoft

License: MIT License (https://github.com/microsoft/winget-cli/blob/master/LICENSE)

Version: 1.7.10861