Tool Validation Report

File Carving

<Tool>

<Version>

Released: <release date>

<Company Logo>

Contents

[Executive Summary 3](#_Toc150004256)

[Introduction 4](#_Toc150004257)

[Scope 4](#_Toc150004258)

[Measuring Test Results 4](#_Toc150004259)

[Test Data 5](#_Toc150004260)

[Test File Summary 5](#_Toc150004261)

[Test Results 6](#_Toc150004262)

[Appendix 1 - Test Files to be Carved 11](#_Toc150004263)

# Executive Summary

<Tool> was run in its default configuration against the test image Khyrenz-FileCarving-ClusterBoundaries.001[[[1]](#endnote-1)].

The below table is a summary of the test files that <Tool> carved from this image.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| File Type | Number of Test Files | Exact match | Usable match | Not found | False positive | Invalid file |
| 7Z | 3 |  |  |  |  |  |
| AVI | 3 |  |  |  |  |  |
| BMP | 4 |  |  |  |  |  |
| DOC | 3 |  |  |  |  |  |
| DOCX | 3 |  |  |  |  |  |
| GIF | 4 |  |  |  |  |  |
| HEIC | 3 |  |  |  |  |  |
| JPEG | 5 |  |  |  |  |  |
| MOV | 5 |  |  |  |  |  |
| MP3 | 4 |  |  |  |  |  |
| MP4 | 4 |  |  |  |  |  |
| PDF | 4 |  |  |  |  |  |
| PNG | 5 |  |  |  |  |  |
| SVG | 3 |  |  |  |  |  |
| TIFF | 4 |  |  |  |  |  |
| WAV | 4 |  |  |  |  |  |
| WMV | 3 |  |  |  |  |  |
| XLS | 3 |  |  |  |  |  |
| XLSX | 3 |  |  |  |  |  |
| ZIP | 4 |  |  |  |  |  |
| Total | **74** |  |  |  |  |  |
| Percentage |  |  |  |  |  |  |

<Summary of results>

# Introduction

We provide this report to document our tool validation process against <Tool> version <Version>.

## Scope

This report documents the results obtained by testing the file carving tool <Tool>, version <Version>, against the raw image file: Khyrenz-FileCarving-ClusterBoundaries.001. This image file, as well as a full list of files contained within this image, are provided at: https://www.khyrenz.com/resources/.

<Tool> was run on a <OS and OS version> system and the default configuration was used.

## Measuring Test Results

How well the tool performs against expected results is categorized as follows:

1. Exact match: Number of carved files that match on SHA1 file hash to an original test file
2. Usable match: Number of carved files that can be successfully opened and viewed, and appear similar to an original test file, so can be reasonably determined to be a ‘usable’ version of an original
3. Not found: No carved files match the hash or appear similar to any original files
4. False positive: A carved file is a valid file and can be opened/viewed, but is not similar to an original file (for example, may be an embedded file within an original file)
5. Invalid file: A carved file that cannot be opened or viewed

# Test Data

The raw image file Khyrenz-FileCarving-ClusterBoundaries.001contains a selection of test files of varying file formats within deleted space in a 2GB NTFS volume. It was generated using FTK Imager 4.2.0.13[[[2]](#endnote-2)], and the resultant image was then manually edited to remove all clusters containing NTFS metadata.

## Test File Summary

A summary of test files within the image is provided below. A more detailed list of individual files is provided in Appendix 1 - Test Files to be Carved.

|  |  |
| --- | --- |
| File Type | Number of Test Files |
| AVI | 3 |
| BMP | 4 |
| DOC | 3 |
| DOCX | 3 |
| GIF | 4 |
| HEIC | 3 |
| JPEG | 5 |
| MOV | 5 |
| MP3 | 4 |
| MP4 | 4 |
| PDF | 4 |
| PNG | 5 |
| SVG | 3 |
| TIFF | 4 |
| WAV | 4 |
| XLS | 3 |
| XLSX | 3 |
| ZIP | 4 |
| 7Z | 3 |
| WMV | 3 |
| Grand Total | **74** |

# Test Results

The table below shows details regarding the files carved from the test image by <Tool>.

| Type | Filename | SHA1 | Exact match | Usable match | Not found | False positive | Invalid file |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7Z | docsamples.7z | aec51e245dd6132a0368a46e9d338ce63fe6eebf |  |  |  |  |  |
| 7Z | files-test.7z | 2c6126430faff9ab7547ffb788129413f9abda41 |  |  |  |  |  |
| 7Z | sample-videos.7z | e015ae1e8916d95b58b6b1f4d4ec9e029a900081 |  |  |  |  |  |
| AVI | drop.avi | fc8ca556acbbb7606e5d8e2849a2701c4472d7d3 |  |  |  |  |  |
| AVI | Free\_Test\_Data\_5MB\_AVI.avi | 3279ade4bdf41ce085551378de61cb02fa3bb5f4 |  |  |  |  |  |
| AVI | sample-avi-file.avi | 246eecb4053487a61914510389ec300bdaf7f3c6 |  |  |  |  |  |
| BMP | cookiemonster.bmp | 7f1e190a19b8c38c0554b6f3f10fe07924fde9ef |  |  |  |  |  |
| BMP | fish.bmp | 5e3f4b6f67c4e5b25656cec1967a9ea1eed85030 |  |  |  |  |  |
| BMP | fish\_shoal.bmp | d8ba06fa1db322eaac28f0d8596ddeeeec4789d5 |  |  |  |  |  |
| BMP | themeparksunday.bmp | a462085a21a1582a394bef7ae7796001581b3e6b |  |  |  |  |  |
| DOC | 1-MB-DOC.doc | 88dc8b79636f7d5131d2446c6855ca956a176932 |  |  |  |  |  |
| DOC | 240222.doc | 589b28be22274543bf5d3a733e10957eb1babafc |  |  |  |  |  |
| DOC | TestWordDoc.doc | e6d490614193a0c3c6bf5e0d7d6f68868dfdc088 |  |  |  |  |  |
| DOCX | custardcreams.docx | 4d537806e0b2da9d92f2c82f9f7d321b2478f99d |  |  |  |  |  |
| DOCX | demo.docx | e754885219f2bd6ef2e954d5217bbbd1130cd97d |  |  |  |  |  |
| DOCX | sample4.docx | adda7b1466242f3c50a78a0e1d1257707d051318 |  |  |  |  |  |
| GIF | sample\_5184×3456.gif | 9158f6b4ad5906842f0e0d36ef787607c011b509 |  |  |  |  |  |
| GIF | sea\_lion.gif | 663739fcd615284c0e0501ab4b100b03a9a96bac |  |  |  |  |  |
| GIF | sweetairsounds.gif | 68efcd744820ba44595e5546e44938ac4e430017 |  |  |  |  |  |
| GIF | tellyscreentime.gif | d5096497f09b9cdb83e21bdfa3640be04740e2aa |  |  |  |  |  |
| HEIC | sample1.heic | ff0ed3774c4f905357c7918a5dfbeb54ab04f3d7 |  |  |  |  |  |
| HEIC | stars.heic | 33a952d6ea0e77ce7c350e381ec858336d0cadec |  |  |  |  |  |
| HEIC | whitetip\_shark.heic | 2cd88bd240c44f9e619624c9326e87390d10d7bd |  |  |  |  |  |
| JPEG | childrenstvshow.jpg | de0e76d1ec1e8a399ac7146dabea8994806ecfb5 |  |  |  |  |  |
| JPEG | penguin\_rocks.JPG | 924aace9d1fa1a57f42ee4d0da84bf9b30995732 |  |  |  |  |  |
| JPEG | penguins.JPG | 2bffcca2111e8c2b624c2226ddc62ef42770c675 |  |  |  |  |  |
| JPEG | rocketman.jpg | 81b00d152ea0956cf4f232f22b7bf886870d9c73 |  |  |  |  |  |
| JPEG | teaserchallenge.jpg | 2f90fff0b31da682cb12a77587a4b37edcb7f18f |  |  |  |  |  |
| MOV | boats.MOV | 32952ef12c1dbdfc6b271555afcffa254a6dd3f9 |  |  |  |  |  |
| MOV | helicopter.MOV | 9b5e80adaa4d282411870ccee2e2550531831915 |  |  |  |  |  |
| MOV | ray.MOV | d1aa14f4bb1f7839c7ed7132756ede2599703c63 |  |  |  |  |  |
| MOV | sample\_1280x720\_surfing\_with\_audio.mov | 3f97efea36582c6cc70804c33098b6f4b574eb0e |  |  |  |  |  |
| MOV | sample\_960x400\_ocean\_with\_audio.mov | 126fc405911d33832f88d5dd2fc3942e9a71e896 |  |  |  |  |  |
| MOV |  |  |  |  |  |  |  |
| MP3 | ringtone.mp3 | c9fa731192bec4756782d94a5c44ff41eb42d72e |  |  |  |  |  |
| MP3 | sample-12s.mp3 | 27c1fa5ab09a20ef4390a207e660320015922938 |  |  |  |  |  |
| MP3 | sample2.mp3 | d385f3f32ca31e442473887bb3a15aa1176daad0 |  |  |  |  |  |
| MP3 | Symphony No.6 (1st movement).mp3 | 9663ba6ca1d35c2ac59e94d51775ce775e518dac |  |  |  |  |  |
| MP4 | buses\_by\_park.mp4 | 0e2b8da6ffb71124ee7e28e25094fd6fcfda45ec |  |  |  |  |  |
| MP4 | park\_traffic.mp4 | 397ffc6b972552fac17b98112da4bbf9ddfe1c93 |  |  |  |  |  |
| MP4 | sample\_1280x720.mp4 | c6de00ced324fccd5ea5904afa7010baae7be735 |  |  |  |  |  |
| MP4 | spinning\_globe.mp4 | 1385f0808b7ef1600b6c39244917ef1df2ce6652 |  |  |  |  |  |
| PDF | allamericanroadsidediner.pdf | 5e1a08448f72de397b604994552b62db14d8619a |  |  |  |  |  |
| PDF | orderingadrink.pdf | 4eeeab201668779533ec2a0a27653b3e9ef2b8eb |  |  |  |  |  |
| PDF | sample1.pdf | 9c66d2d11a2762c75136b081d0c9e9035eef0fbf |  |  |  |  |  |
| PDF | sample3.pdf | dd8774537c10c2610980361bcfc99d14dfda235e |  |  |  |  |  |
| PNG | file\_example\_PNG\_3MB.png | 727087f19369e31ed3fc80c4f1df9e9030f89103 |  |  |  |  |  |
| PNG | kingofrock.png | 8bc810de43a935aa73e00d5d2838991d0e9bff79 |  |  |  |  |  |
| PNG | ray\_and\_fish.png | 78a1c8e577a004fc3ebcc024e19e2938812dd553 |  |  |  |  |  |
| PNG | sample-bumblebee-400x300.png | 46ceb41f22d0883f9d44281f77728f1cb95c4fbf |  |  |  |  |  |
| PNG | snorkelling.png | 213af47d4c85f0f1f73ab59a41c4dccc69ab84fd |  |  |  |  |  |
| SVG | sample\_5184×3456.svg | 904c8dd28177e9a4758074c035023492b9a26cde |  |  |  |  |  |
| SVG | sample-river-400x300.svg | e6aef45722e919e747a43744ce9c66bb9285d30d |  |  |  |  |  |
| SVG | Sample-SVG-Image-download-for-Testing.svg | 9e5fdfc6f83e752f9b4c750fadc25a8a27fbfcf2 |  |  |  |  |  |
| TIFF | canoe.tif | 329663cfea41b5bc7c116bd113352e38287699c2 |  |  |  |  |  |
| TIFF | turtle.tiff | 0b49e28bf07de5b6520852eecc5457b36049ac25 |  |  |  |  |  |
| TIFF | underwater\_bmx.tif | 9a2e7f18f061bb49cb16cf20807cb082d165c182 |  |  |  |  |  |
| TIFF | x31\_f18.tif | 77f449ece129b9f1bdbc675a6e9ee7b068b77273 |  |  |  |  |  |
| WAV | ImperialMarch60.wav | 9884c68905888e685214fdd890742d50bfa4ec53 |  |  |  |  |  |
| WAV | PinkPanther60.wav | e3e5c1b15b53e600ca79c566290846a5ebe4511b |  |  |  |  |  |
| WAV | sample-15s.wav | 3aef3eb7aac8815b5657b16e27cdaa7068691668 |  |  |  |  |  |
| WAV | StarWars60.wav | 666f49a4b798750b301eb979869f49b0cd89a387 |  |  |  |  |  |
| WMV | dwsample wmv 1080p.wmv | 09ba4a21a76fa072fdcb60a6b3bbb20699935fd3 |  |  |  |  |  |
| WMV | Free\_Test\_Data\_20MB\_WMV.wmv | ae4d8c7c1d88a21cd414766629db24f118c681ef |  |  |  |  |  |
| WMV | sample-1.wmv | a022a5de3afa8a5a07ef50a523b329917e8e42e0 |  |  |  |  |  |
| XLS | file\_example\_XLS\_5000.xls | e1754203d88aa335e9318cec1051d63d64cf4a7b |  |  |  |  |  |
| XLS | fruitysmartphones.xls | 634d3f3afdb0727f173fc79ed4f05e53c9410d1d |  |  |  |  |  |
| XLS | sample-simple-2.xls | 6d3ce41d2d72d865946e10322619319510ce9b4a |  |  |  |  |  |
| XLSX | Financial Sample.xlsx | a8a6f194d2bd7c133ac7daccd23dd9fdabdcb319 |  |  |  |  |  |
| XLSX | Free\_Test\_Data\_1MB\_XLSX.xlsx | 8ff6edd002c9f6ec5c3a869f6146f555dd445c44 |  |  |  |  |  |
| XLSX | shoppinglist.xlsx | 6ac5b1ddb3f07b071280602a4b2cd740f64f3ccd |  |  |  |  |  |
| ZIP | linuxcmd-samplefiles.zip | 99d60374b70653bdd6d97ec3dd09085423dbfbd7 |  |  |  |  |  |
| ZIP | mixfromsamplevids.zip | dd9287f0e2bad4ab255cbb1d2db270e6d9bdd098 |  |  |  |  |  |
| ZIP | tomatoketchupdabest.zip | bf82f7adf998e847b67b5bb8db3a9e943249b769 |  |  |  |  |  |
| ZIP | wincompressedfolder.zip | 2394f4f73bd1cdcf76032864440f948645bdd571 |  |  |  |  |  |
| Totals | | |  |  |  |  |  |

# Appendix 1 - Test Files to be Carved

| Type | Filename | Origin | Size (bytes) | SHA1 | Offset (bytes) |
| --- | --- | --- | --- | --- | --- |
| 7Z | docsamples.7z | Files downloaded from https://www.sampledocs.in/ | 105,984,525 | aec51e245dd6132a0368a46e9d338ce63fe6eebf | 0x1e80000 |
| 7Z | files-test.7z | Files downloaded from https://www.sampledocs.in/ | 2,591,347 | 2c6126430faff9ab7547ffb788129413f9abda41 | 0x949b000 |
| 7Z | sample-videos.7z | Files downloaded from https://sample-videos.com/ | 16,657,033 | e015ae1e8916d95b58b6b1f4d4ec9e029a900081 | 0x388bec00 |
| AVI | drop.avi | Downloaded from https://www.engr.colostate.edu/me/facil/dynamics/avis.htm | 675,840 | fc8ca556acbbb7606e5d8e2849a2701c4472d7d3 | 0x8394000 |
| AVI | Free\_Test\_Data\_5MB\_AVI.avi | Downloaded from https://freetestdata.com/video-files/avi/ | 5,225,142 | 3279ade4bdf41ce085551378de61cb02fa3bb5f4 | 0xdcd8000 |
| AVI | sample-avi-file.avi | Downloaded from https://www.learningcontainer.com/sample-avi-video-file-download/ | 8,324,510 | 246eecb4053487a61914510389ec300bdaf7f3c6 | 0x265aa000 |
| BMP | cookiemonster.bmp | Created by khedley | 762,246 | 7f1e190a19b8c38c0554b6f3f10fe07924fde9ef | 0x1c80000 |
| BMP | fish.bmp | Created by khedley | 36,000,054 | 5e3f4b6f67c4e5b25656cec1967a9ea1eed85030 | 0x9729000 |
| BMP | fish\_shoal.bmp | Created by khedley | 36,000,054 | d8ba06fa1db322eaac28f0d8596ddeeeec4789d5 | 0xb97f000 |
| BMP | themeparksunday.bmp | Created by khedley | 1,024,154 | a462085a21a1582a394bef7ae7796001581b3e6b | 0x3b88dc00 |
| DOC | 1-MB-DOC.doc | Downloaded from https://freetestdata.com/document-files/doc/ | 1,048,576 | 88dc8b79636f7d5131d2446c6855ca956a176932 | 0x4d000 |
| DOC | 240222.doc | Created by khedley | 882,176 | 589b28be22274543bf5d3a733e10957eb1babafc | 0x14d000 |
| DOC | TestWordDoc.doc | Downloaded from https://homepages.inf.ed.ac.uk/neilb/TestWordDoc.doc | 19,456 | e6d490614193a0c3c6bf5e0d7d6f68868dfdc088 | 0x26ddd000 |
| DOCX | custardcreams.docx | Created by khedley | 13,596 | 4d537806e0b2da9d92f2c82f9f7d321b2478f99d | 0x1d3b000 |
| DOCX | demo.docx | Download from https://calibre-ebook.com/downloads/demos/demo.docx | 1,311,881 | e754885219f2bd6ef2e954d5217bbbd1130cd97d | 0x1d3f000 |
| DOCX | sample4.docx | Downloaded from https://filesamples.com/formats/docx | 14,169,117 | adda7b1466242f3c50a78a0e1d1257707d051318 | 0x37a5bc00 |
| GIF | sample\_5184×3456.gif | Download from https://filesamples.com/formats/gif | 13,189,346 | 9158f6b4ad5906842f0e0d36ef787607c011b509 | 0x22b96000 |
| GIF | sea\_lion.gif | Created by khedley | 5,192,245 | 663739fcd615284c0e0501ab4b100b03a9a96bac | 0x398a1c00 |
| GIF | sweetairsounds.gif | Created by khedley | 9,573 | 68efcd744820ba44595e5546e44938ac4e430017 | 0x26dd2000 |
| GIF | tellyscreentime.gif | Created by khedley | 8,202 | d5096497f09b9cdb83e21bdfa3640be04740e2aa | 0x26dda000 |
| HEIC | sample1.heic | Downloaded from https://filesamples.com/formats/heic | 293,608 | ff0ed3774c4f905357c7918a5dfbeb54ab04f3d7 | 0x23fb6000 |
| HEIC | stars.heic | Created by khedley | 1,127,788 | 33a952d6ea0e77ce7c350e381ec858336d0cadec | 0x3a9d5c00 |
| HEIC | whitetip\_shark.heic | Created by khedley | 1,183,667 | 2cd88bd240c44f9e619624c9326e87390d10d7bd | 0x3c824c00 |
| JPEG | childrenstvshow.jpg | Created by khedley | 100,996 | de0e76d1ec1e8a399ac7146dabea8994806ecfb5 | 0x1c67000 |
| JPEG | penguin\_rocks.JPG | Created by khedley | 2,543,860 | 924aace9d1fa1a57f42ee4d0da84bf9b30995732 | 0x1bc7d000 |
| JPEG | penguins.JPG | Created by khedley | 2,377,726 | 2bffcca2111e8c2b624c2226ddc62ef42770c675 | 0x1beeb000 |
| JPEG | rocketman.jpg | Created by khedley | 47,286 | 81b00d152ea0956cf4f232f22b7bf886870d9c73 | 0x20a32000 |
| JPEG | teaserchallenge.jpg | Created by khedley | 20,433 | 2f90fff0b31da682cb12a77587a4b37edcb7f18f | 0x26dd5000 |
| MOV | boats.MOV | Created by khedley | 21,768,007 | 32952ef12c1dbdfc6b271555afcffa254a6dd3f9 | 0x256000 |
| MOV | helicopter.MOV | Created by khedley | 175,455,408 | 9b5e80adaa4d282411870ccee2e2550531831915 | 0xf5e7000 |
| MOV | ray.MOV | Created by khedley | 52,219,413 | d1aa14f4bb1f7839c7ed7132756ede2599703c63 | 0x1c3b7000 |
| MOV | sample\_1280x720\_surfing\_with\_audio.mov | Downloaded from https://filesamples.com/formats/mov | 71,753,201 | 3f97efea36582c6cc70804c33098b6f4b574eb0e | 0x335edc00 |
| MOV | sample\_960x400\_ocean\_with\_audio.mov | Downloaded from https://filesamples.com/formats/mov | 17,520,989 | 126fc405911d33832f88d5dd2fc3942e9a71e896 | 0x20a3e000 |
| MP3 | ringtone.mp3 | Downloaded from https://file-examples.com/storage/fe235481fb64f1ca49a92b5/2017/11/file\_example\_MP3\_5MG.mp3 | 5,319,693 | c9fa731192bec4756782d94a5c44ff41eb42d72e | 0x2051f000 |
| MP3 | sample-12s.mp3 | Downloaded from https://samplelib.com/sample-mp3.html | 205,470 | 27c1fa5ab09a20ef4390a207e660320015922938 | 0x2623d000 |
| MP3 | sample2.mp3 | Downloaded from https://filesamples.com/formats/mp3 | 3,478,581 | d385f3f32ca31e442473887bb3a15aa1176daad0 | 0x25db8000 |
| MP3 | Symphony No.6 (1st movement).mp3 | Downloaded from https://filesamples.com/formats/mp3 | 11,650,187 | 9663ba6ca1d35c2ac59e94d51775ce775e518dac | 0x3ad70c00 |
| MP4 | buses\_by\_park.mp4 | Downloaded from https://samplelib.com/sample-mp4.html | 5,485,935 | 0e2b8da6ffb71124ee7e28e25094fd6fcfda45ec | 0x1719000 |
| MP4 | park\_traffic.mp4 | Downloaded from https://samplelib.com/sample-mp4.html | 21,657,943 | 397ffc6b972552fac17b98112da4bbf9ddfe1c93 | 0x1a7d5000 |
| MP4 | sample\_1280x720.mp4 | Downloaded from https://filesamples.com/formats/mp4 | 17,436,118 | c6de00ced324fccd5ea5904afa7010baae7be735 | 0x21af4000 |
| MP4 | spinning\_globe.mp4 | Downloaded from https://file-examples.com/storage/fe235481fb64f1ca49a92b5/2017/04/file\_example\_MP4\_640\_3MG.mp4 | 3,114,374 | 1385f0808b7ef1600b6c39244917ef1df2ce6652 | 0x3a6dcc00 |
| PDF | allamericanroadsidediner.pdf | Created by khedley (save pdf in Word) | 200,280 | 5e1a08448f72de397b604994552b62db14d8619a | 0x225000 |
| PDF | orderingadrink.pdf | Created by khedley (save pdf/a in Word) | 181,344 | 4eeeab201668779533ec2a0a27653b3e9ef2b8eb | 0x1a7a8000 |
| PDF | sample1.pdf | Downloaded from https://filesamples.com/formats/pdf | 581,407 | 9c66d2d11a2762c75136b081d0c9e9035eef0fbf | 0x23ffe000 |
| PDF | sample3.pdf | Downloaded from https://filesamples.com/formats/pdf | 1,253,607 | dd8774537c10c2610980361bcfc99d14dfda235e | 0x2610a000 |
| PNG | file\_example\_PNG\_3MB.png | Downloaded from https://file-examples.com/index.php/sample-images-download/ | 2,964,729 | 727087f19369e31ed3fc80c4f1df9e9030f89103 | 0x9122000 |
| PNG | kingofrock.png | Created by khedley | 7,940 | 8bc810de43a935aa73e00d5d2838991d0e9bff79 | 0x19fc2000 |
| PNG | ray\_and\_fish.png | Created by khedley | 16,362,752 | 78a1c8e577a004fc3ebcc024e19e2938812dd553 | 0x1f584000 |
| PNG | sample-bumblebee-400x300.png | Downloaded from https://samplelib.com/sample-png.html | 195,459 | 46ceb41f22d0883f9d44281f77728f1cb95c4fbf | 0x26d9b000 |
| PNG | snorkelling.png | Created by khedley | 9,726,635 | 213af47d4c85f0f1f73ab59a41c4dccc69ab84fd | 0x39d95c00 |
| SVG | sample\_5184×3456.svg | Downloaded from https://filesamples.com/formats/svg | 7,905,340 | 904c8dd28177e9a4758074c035023492b9a26cde | 0x2382b000 |
| SVG | sample-river-400x300.svg | Downloaded from https://samplelib.com/sample-svg.html | 300,672 | e6aef45722e919e747a43744ce9c66bb9285d30d | 0x387dfc00 |
| SVG | Sample-SVG-Image-download-for-Testing.svg | Downloaded from https://www.learningcontainer.com/wp-content/uploads/2020/08/Sample-SVG-Image-download-for-Testing.svg | 607,834 | 9e5fdfc6f83e752f9b4c750fadc25a8a27fbfcf2 | 0x38829c00 |
| TIFF | canoe.tif | Downloaded from https://people.math.sc.edu/Burkardt/data/tif/tif.html | 69,708 | 329663cfea41b5bc7c116bd113352e38287699c2 | 0x1c55000 |
| TIFF | turtle.tiff | Created by khedley | 14,252,122 | 0b49e28bf07de5b6520852eecc5457b36049ac25 | 0x3b988c00 |
| TIFF | underwater\_bmx.tif | Downloaded from https://people.math.sc.edu/Burkardt/data/tif/tif.html | 1,064,238 | 9a2e7f18f061bb49cb16cf20807cb082d165c182 | 0x3c720c00 |
| TIFF | x31\_f18.tif | Downloaded from https://people.math.sc.edu/Burkardt/data/tif/tif.html | 307,870 | 77f449ece129b9f1bdbc675a6e9ee7b068b77273 | 0x0 |
| WAV | ImperialMarch60.wav | Downloaded from https://www2.cs.uic.edu/~i101/SoundFiles/ImperialMarch60.wav | 2,646,044 | 9884c68905888e685214fdd890742d50bfa4ec53 | 0x19d3b000 |
| WAV | PinkPanther60.wav | Downloaded from https://www2.cs.uic.edu/~i101/SoundFiles/PinkPanther60.wav | 2,646,044 | e3e5c1b15b53e600ca79c566290846a5ebe4511b | 0x1c130000 |
| WAV | sample-15s.wav | Downloaded from https://samplelib.com/sample-wav.html | 3,382,316 | 3aef3eb7aac8815b5657b16e27cdaa7068691668 | 0x26270000 |
| WAV | StarWars60.wav | Downloaded from https://www2.cs.uic.edu/~i101/SoundFiles/StarWars60.wav | 2,646,044 | 666f49a4b798750b301eb979869f49b0cd89a387 | 0x3aae9c00 |
| WMV | dwsample wmv 1080p.wmv | Downloaded from https://www.dwsamplefiles.com/download-wmv-sample-files/ | 53,061,713 | 09ba4a21a76fa072fdcb60a6b3bbb20699935fd3 | 0x8439000 |
| WMV | Free\_Test\_Data\_20MB\_WMV.wmv | Downloaded from https://freetestdata.com/video-files/wmv/ | 5,251,496 | ae4d8c7c1d88a21cd414766629db24f118c681ef | 0xe1d4000 |
| WMV | sample-1.wmv | Downloaded from https://getsamplefiles.com/sample-video-files/wmv#google\_vignette | 30,586,663 | a022a5de3afa8a5a07ef50a523b329917e8e42e0 | 0x2408c000 |
| XLS | file\_example\_XLS\_5000.xls | Downloaded from https://file-examples.com/wp-content/storage/2017/02/file\_example\_XLS\_5000.xls | 672,256 | e1754203d88aa335e9318cec1051d63d64cf4a7b | 0x93f6000 |
| XLS | fruitysmartphones.xls | Created by khedley | 69,632 | 634d3f3afdb0727f173fc79ed4f05e53c9410d1d | 0xf5d6000 |
| XLS | sample-simple-2.xls | Downloaded from https://samplelib.com/sample-xls.html | 6,144 | 6d3ce41d2d72d865946e10322619319510ce9b4a | 0x26dcb000 |
| XLSX | Financial Sample.xlsx | Downloaded from https://go.microsoft.com/fwlink/?LinkID=521962 | 83,418 | a8a6f194d2bd7c133ac7daccd23dd9fdabdcb319 | 0x9714000 |
| XLSX | Free\_Test\_Data\_1MB\_XLSX.xlsx | Downloaded from https://freetestdata.com/document-files/xlsx/ | 1,059,381 | 8ff6edd002c9f6ec5c3a869f6146f555dd445c44 | 0xdbd5000 |
| XLSX | shoppinglist.xlsx | Created by khedley | 9,604 | 6ac5b1ddb3f07b071280602a4b2cd740f64f3ccd | 0x26dcf000 |
| ZIP | linuxcmd-samplefiles.zip | Files downloaded from https://sample-videos.com/ | 1,444,790 | 99d60374b70653bdd6d97ec3dd09085423dbfbd7 | 0x19fc4000 |
| ZIP | mixfromsamplevids.zip | Files downloaded from https://sample-videos.com/ | 6,826,135 | dd9287f0e2bad4ab255cbb1d2db270e6d9bdd098 | 0x1a125000 |
| ZIP | tomatoketchupdabest.zip | Files created by khedley | 52,940 | bf82f7adf998e847b67b5bb8db3a9e943249b769 | 0x26de2000 |
| ZIP | wincompressedfolder.zip | Files downloaded from https://sample-videos.com/ | 41,940,099 | 2394f4f73bd1cdcf76032864440f948645bdd571 | 0x3c945c00 |

1. https://www.khyrenz.com/resources/ [↑](#endnote-ref-1)
2. https://www.exterro.com/ftk-imager [↑](#endnote-ref-2)