Homebrew

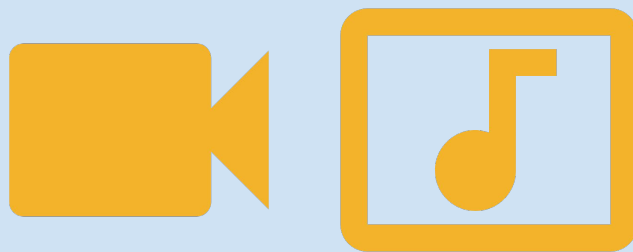brew **tap** amiaopensource**/**amiaos

pugetsoundandvision**/**pugetsoundandvision

download QCTools

BWFMetaEdit

brew install vrecord
audiorecorder
ltopers
ltotools

brew install cask videotools
audiotools

ANATOMY OF AN AIP

All files contained in this folder represent the AIP

Technical metadata

Access copy

access

Copy_BIHM_...3-7_DeGraaf   data   logs   access   Copy_BIHM_...DeGraaf.mp4
bag-info.txt   metadata   Copy_BIHM_...DeGraaf.mkv
bagit.txt   objects
manifest-md5.txt
tagmanifest-md5.txt

Checksums and manifests for monitoring file integrity

Preservation master file
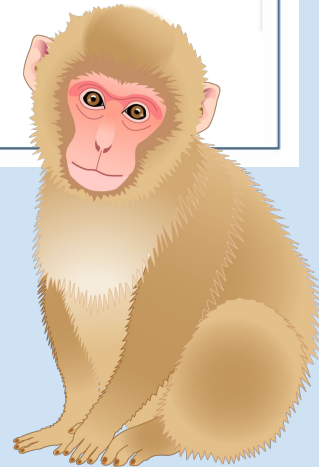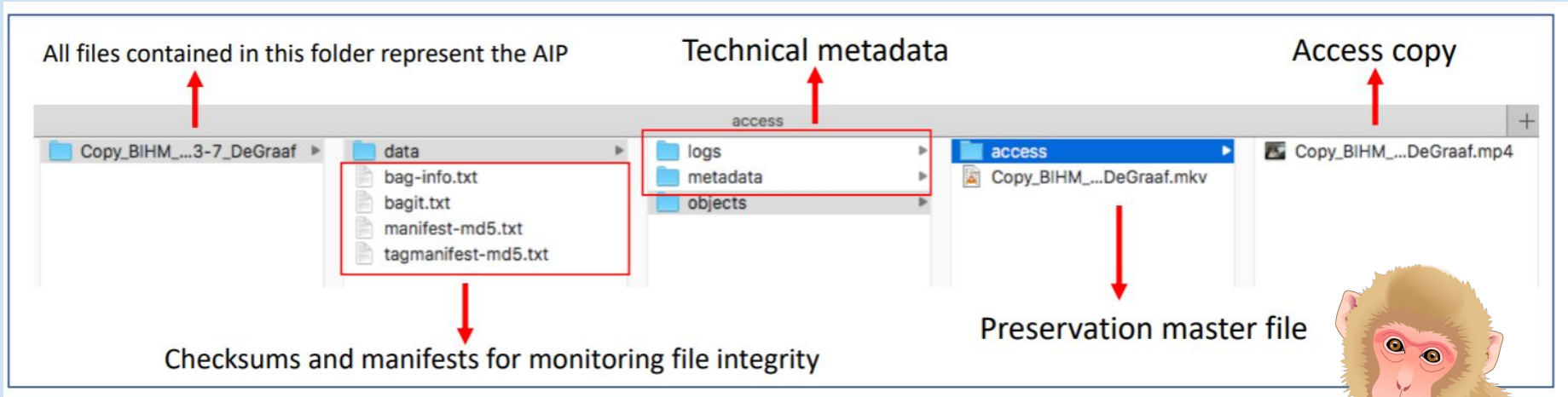
videoaip -e

videoaip -l auto /PATH/TO/VideoFile.mkv

videoaip -c /PATH/TO/VideoFile.mkv

AUDIOAIP

audioaip **-e**

audioaip **/PATH/TO/YOUR.WAV**

audioaip **-p** **/PATH/TO/YOUR.WAV**

LTOPERS & LTOTOOLS

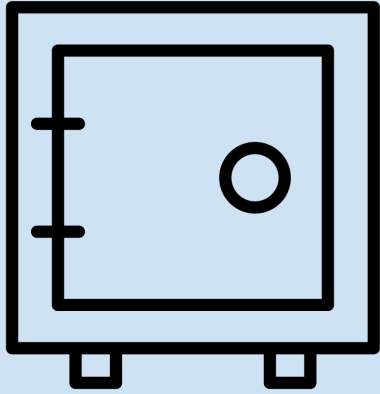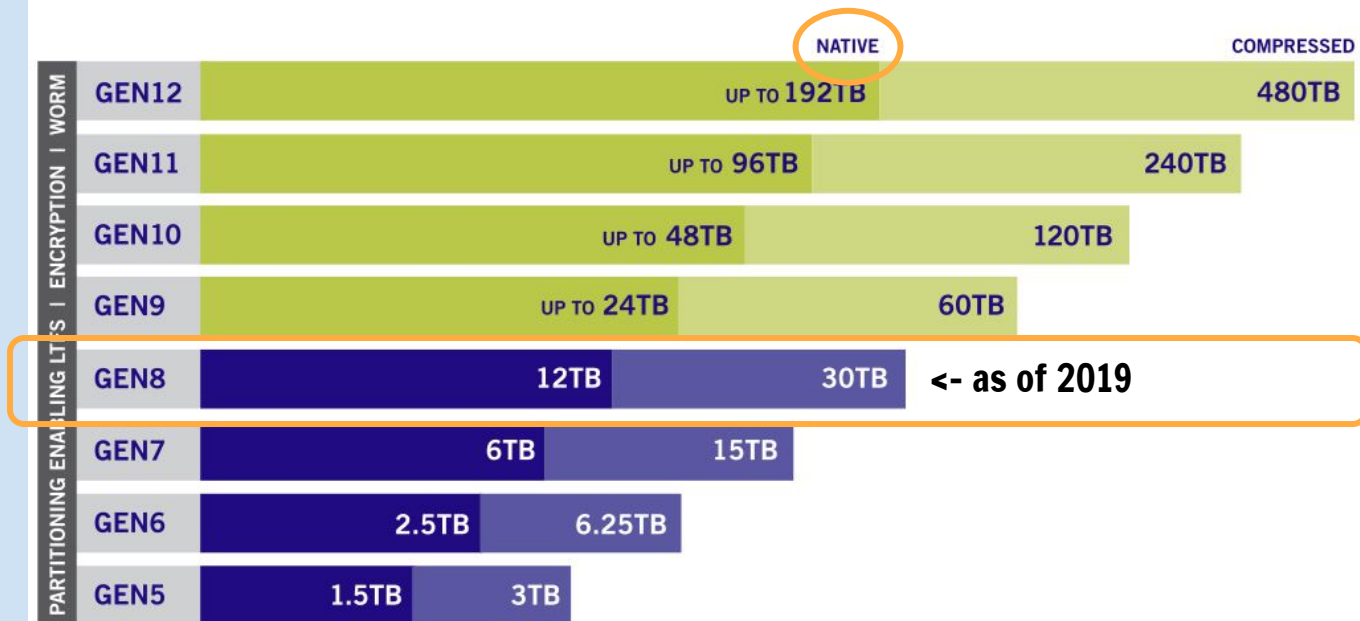# LTO ULTRIUM ROADMAP
ADDRESSING YOUR STORAGE NEEDS

		NATIVE	COMPRESSED
GEN12		UP TO 192TB	480TB
GEN11		UP TO 96TB	240TB
GEN10		UP TO 48TB	120TB
GEN9		UP TO 24TB	60TB
GEN8		12TB 30TB	<- as of 2019
GEN7		6TB 15TB	
GEN6		2.5TB 6.25TB	
GEN5		1.5TB 3TB	

(Left vertical label: PARTITIONING ENABLING LTFS | ENCRYPTION | WORM)

NOTE: Compressed capacity for generation 5 assumes 2:1 compression. Compressed capacities for generations 6-12 assume 2.5:1 compression (achieved with larger compression history buffer).
SOURCE: The LTO Program. The LTO Ultrium roadmap is subject to change without notice and represents goals and objectives only. Linear Tape-Open, LTO, the LTO logo, Ultrium, and the Ultrium logo are registered trademarks of Hewlett Packard Enterprise, IBM and Quantum in the US and other countries.

DECK
$1,900-3,000

ATTO THUNDERLINK DRIVE
$1,600-2,100

TAPES
~$70/tape

WHAT LTOPERS CAN DO FOR YOU

Format LTO

Mount LTO

Make manifest

Write to LTO

Confirm manifest

Read LTO

- **Homebrew -** https://github.com/Homebrew
- **QCTools -** https://bavc.org/preserve-media/preservation-tools
- **VRecord -** https://github.com/amiaopensource/vrecord
- **Audiorecorder -** https://github.com/amiaopensource/audiorecorder
- **BWF Metaedit -** https://mediaarea.net/BWFMetaEdit
- **VideoAIP -** https://github.com/pugetsoundandvision/videotools
- **AudioAIP -** https://github.com/pugetsoundandvision/audiotools
- **LTOpers -** https://github.com/amiaopensource/ltopers
- **LTOtools -** https://github.com/pugetsoundandvision/lto_tools