

Analogue Television and Video

Reto Kromer • AV Preservation by reto.ch

On the Materiality of Audio-Visual Heritage

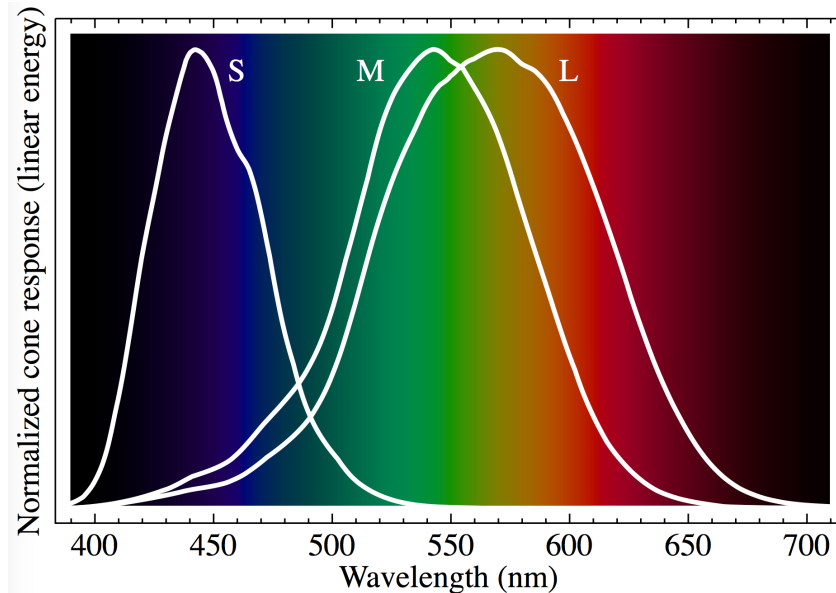
Elías Querejeta Zine Eskola
Donostia (San Sebastián), Spain
28 September – 1 October 2021

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Bibliography

- Diana Weynand and Vance Piccin with Marcus Weise: **How Video Works**. From Broadcast to the Cloud. Third Edition, Focal Press, New York NY and Oxon 2016

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Medium and/or Carrier

- sound
- film
- television
- video
- files

4

Sound Recordings

- musical / music box
- phonograph
- phonograph cylinder
- phonograph / gramophone record
- magnetic wire
- magnetic tape
- magnetic film

5

Photography

black and white:

- blue sensitive emulsion
- orthochromatic emulsion
- panchromatic emulsion

colour

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Magnetic Tape

- open reel
- cassette
- cartridge

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Common Magnetic Formats

audio

- 2", 1", 1/2", 1/4"

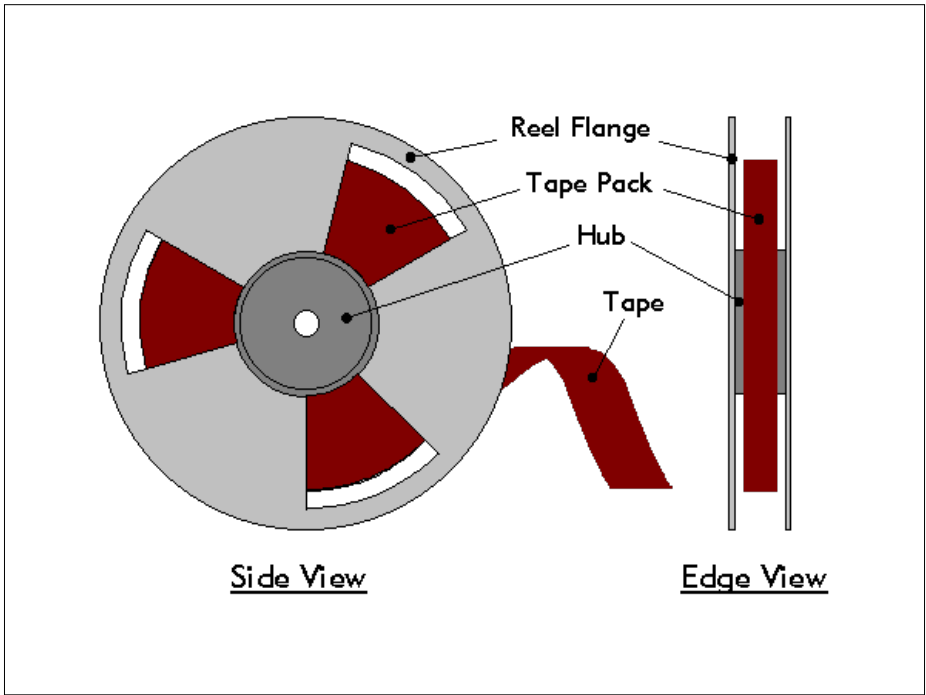
cinema

- 35 mm, 17.5 mm, 16 mm, 8 mm

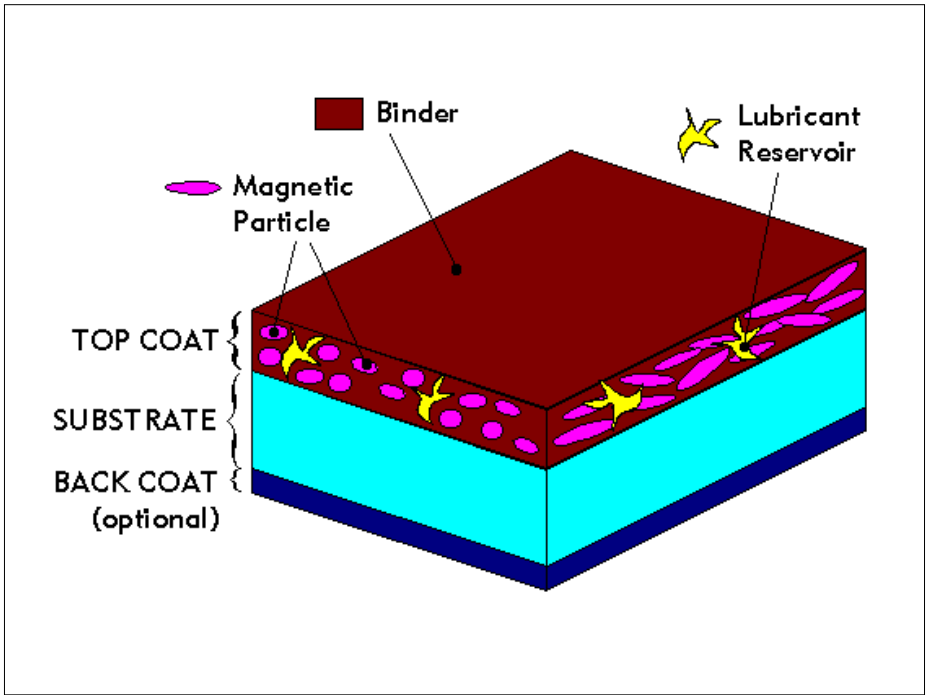
video

- 2", 1", 3/4", 1/2"

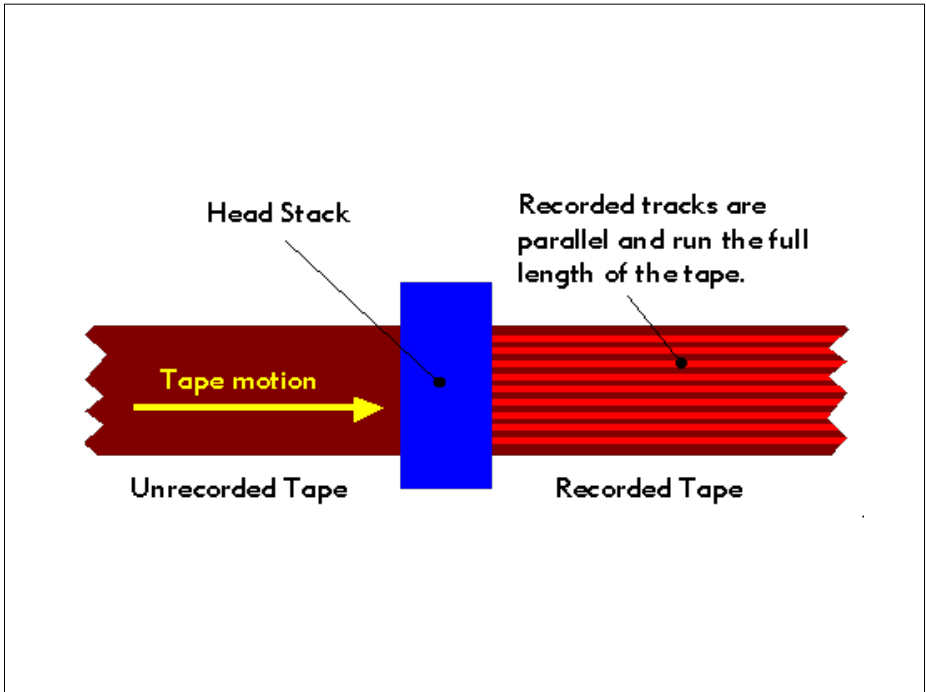
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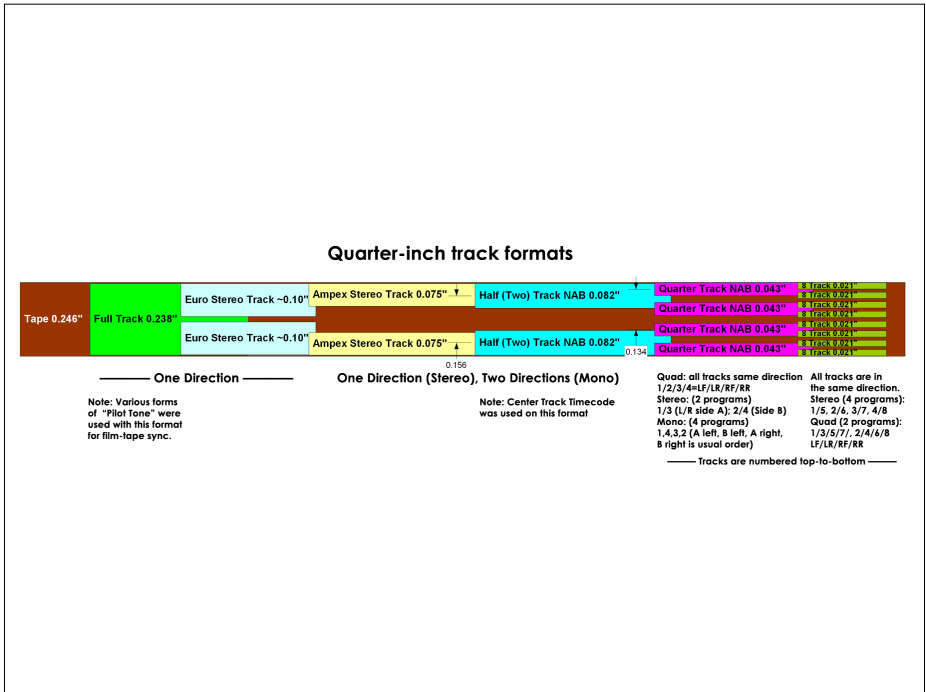
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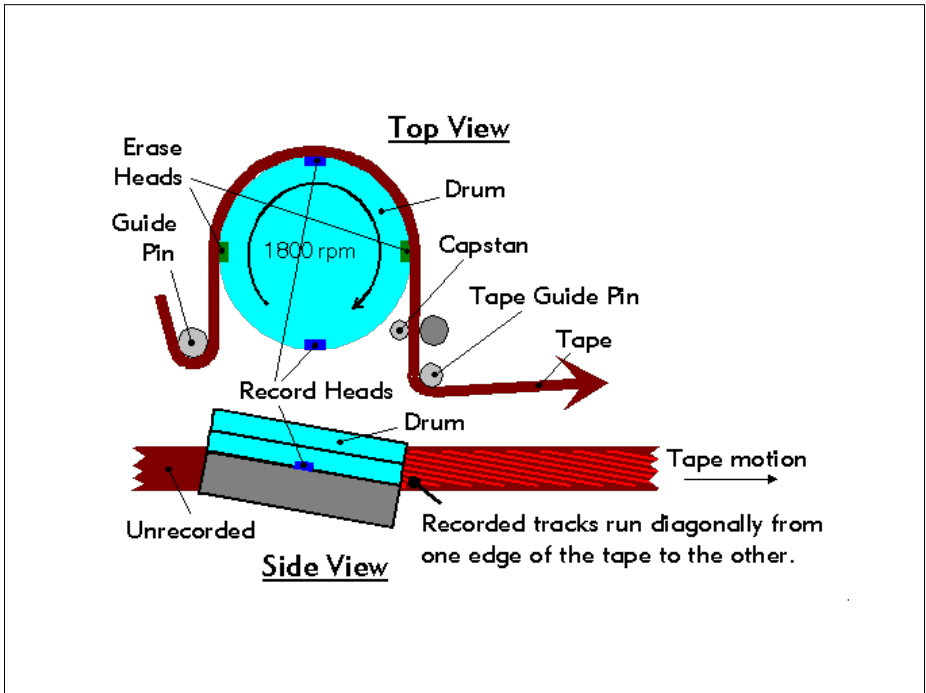
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Sound Film Production

image	sound
photochemical	photochemical
photochemical	magnetic
photochemical	digital
photochemical + digital	digital
digital	digital

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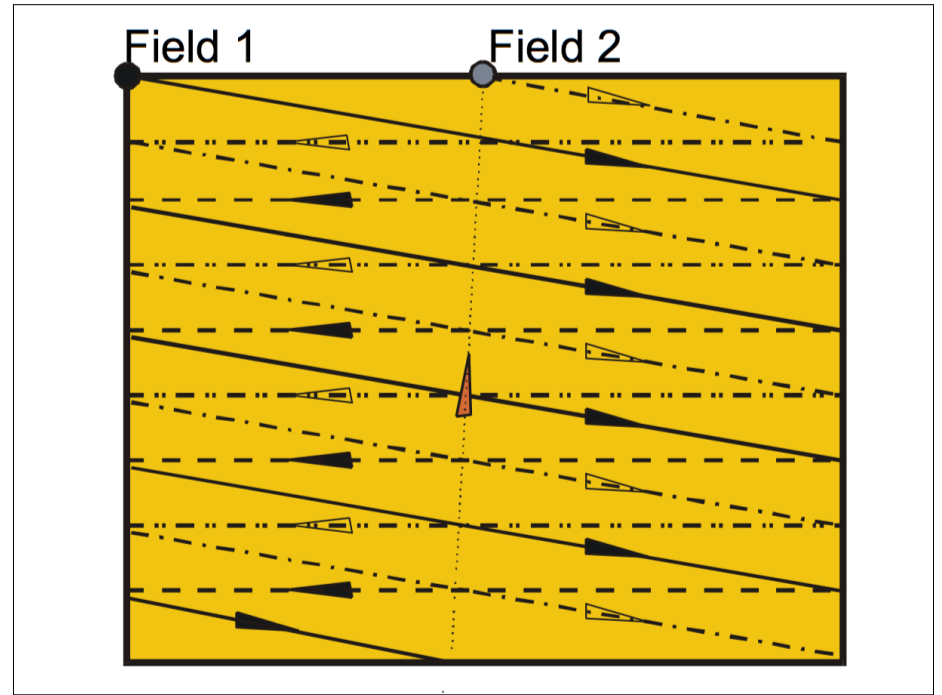
Television

- film
- live
- film and live
- film, magnetic tape and live
- magnetic tape and live
- files and live

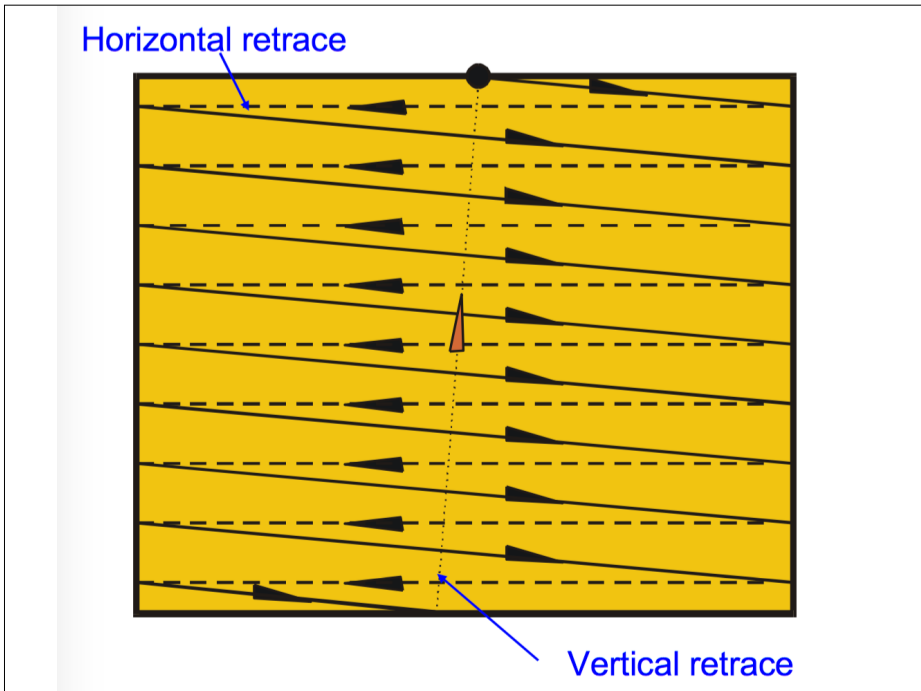
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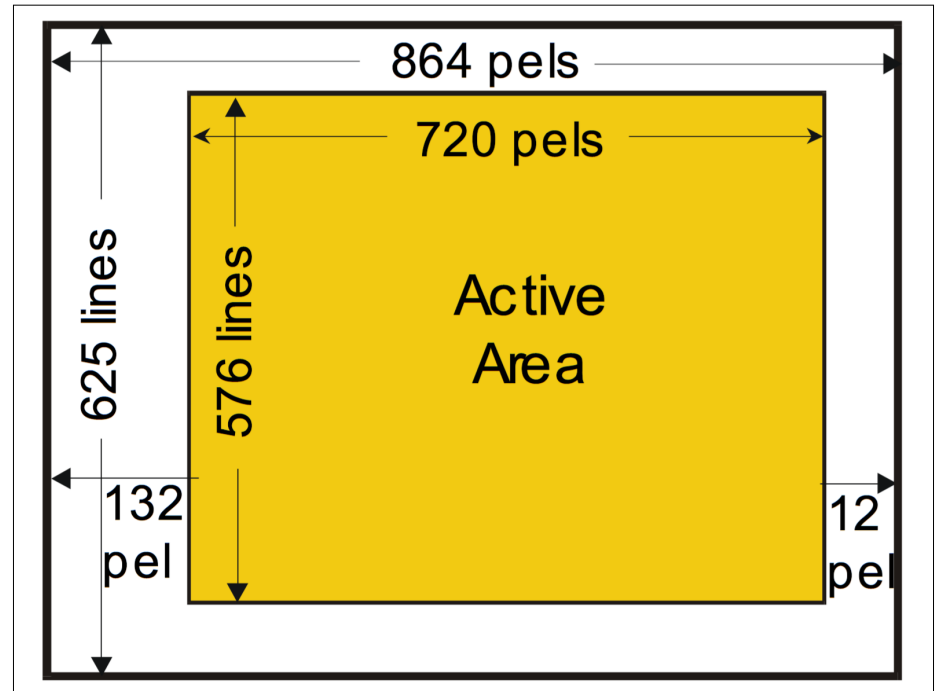
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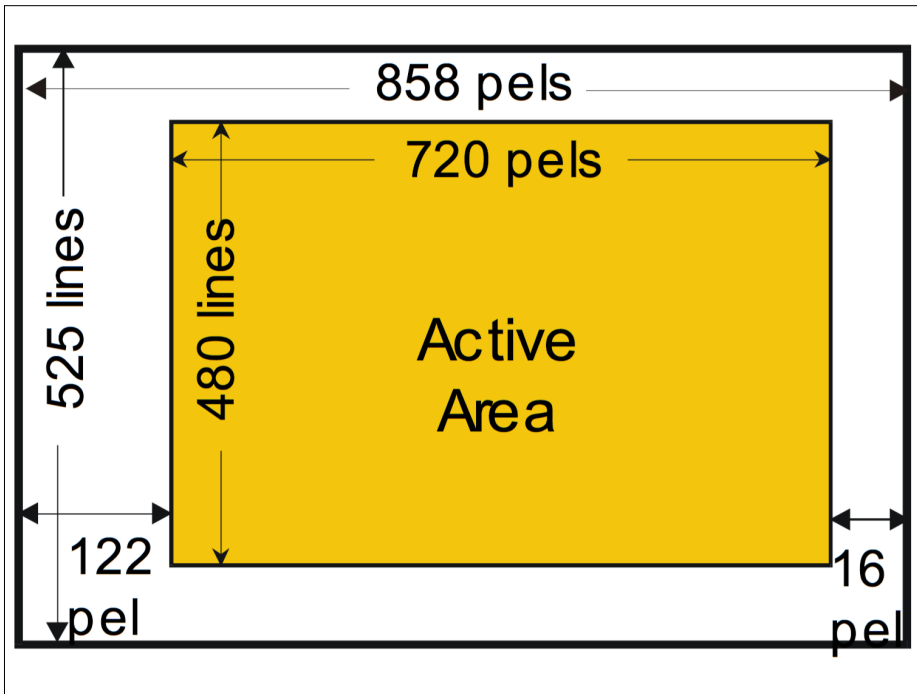
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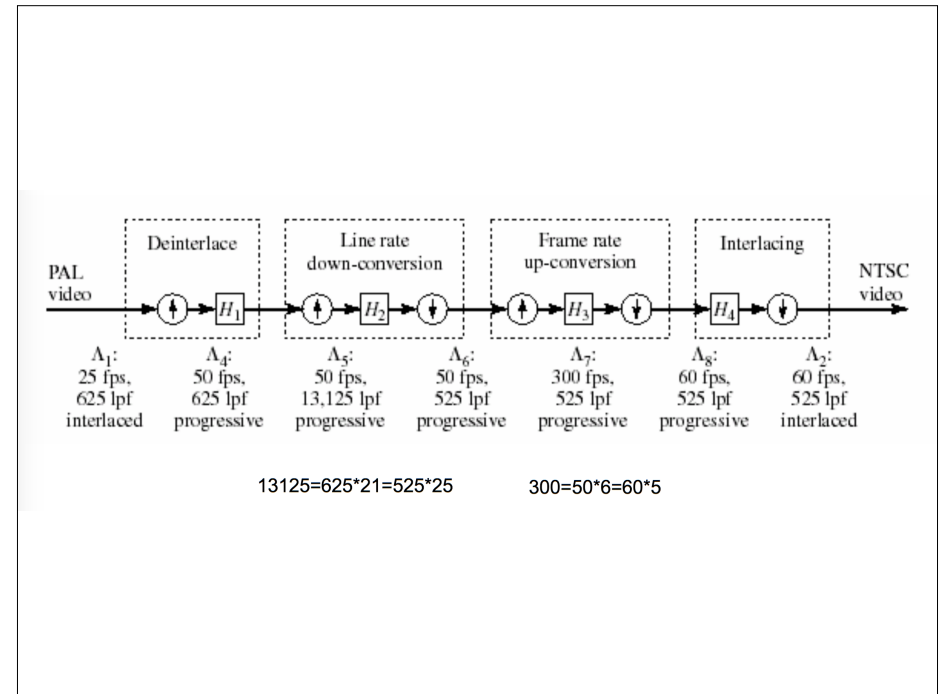
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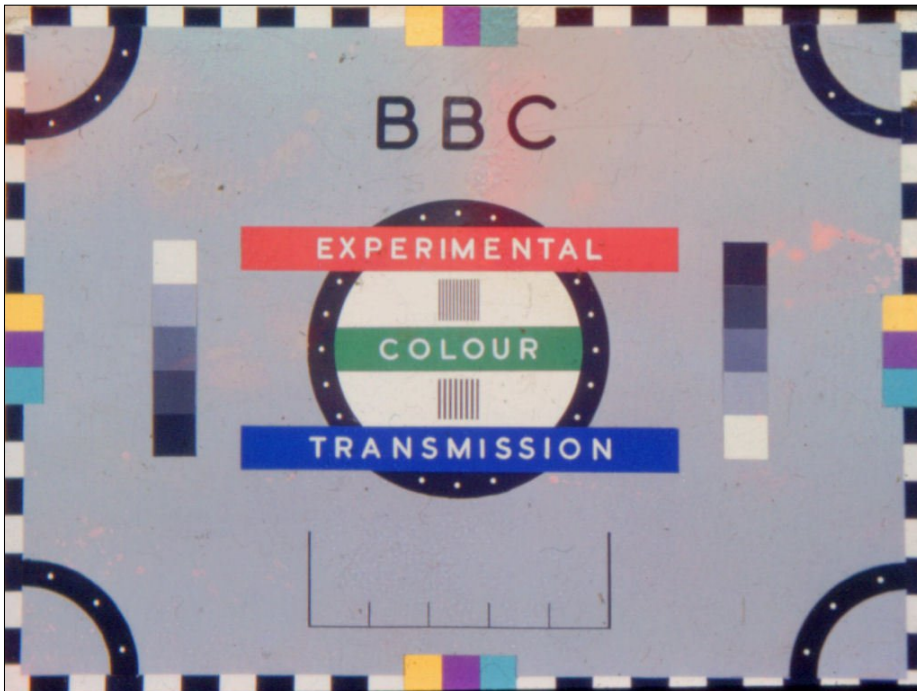
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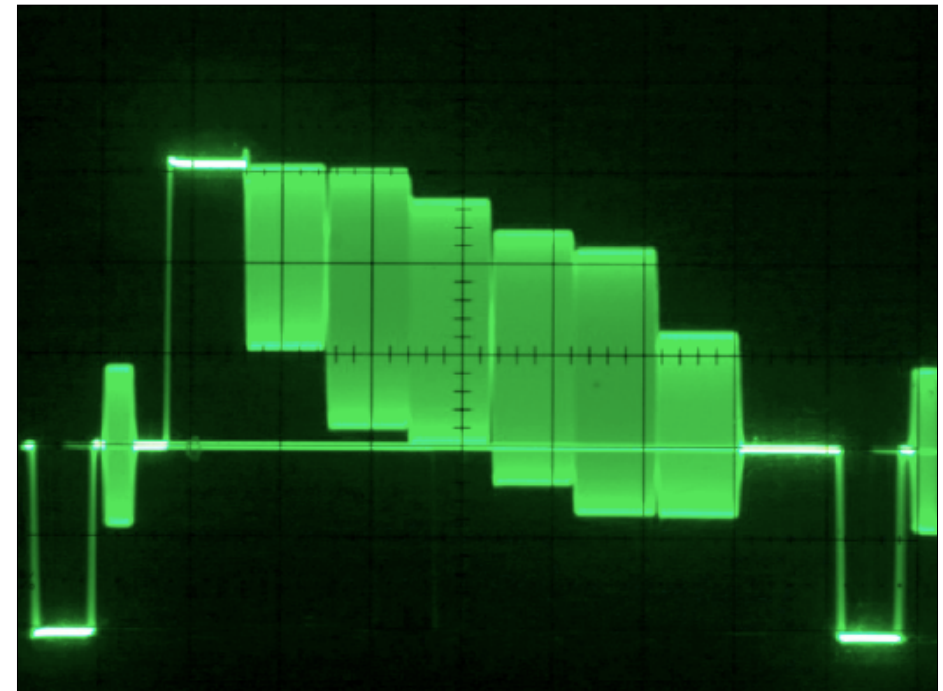
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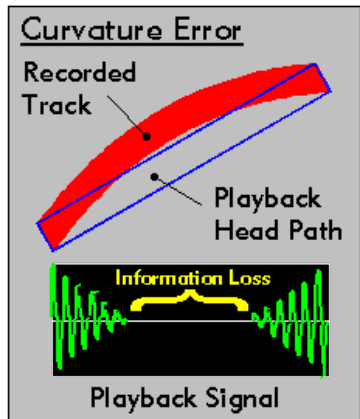
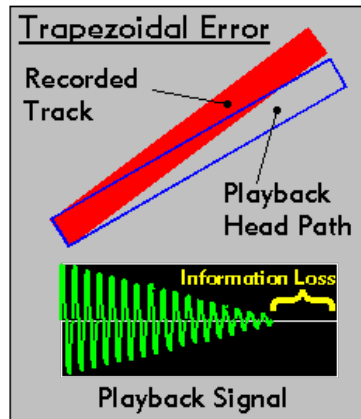
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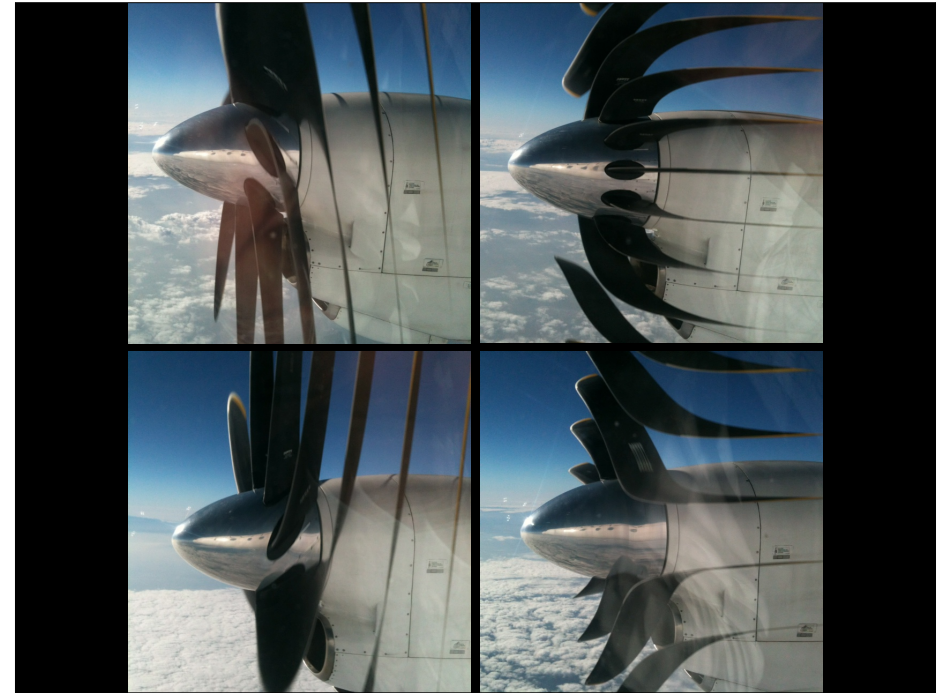


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Workflow

- identification
- preparation
- digitisation
- quality control (QC)
- cataloguing

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Open Source Tools

- vrecord
- QCTools, qcli
- FFmpeg
- MediaInfo, MediaConch

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Identification

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Format Identification

Videotape Identification and Assessment Guide. Texas Commission on the Arts, 2004

→ www.arts.texas.gov/wp-content/uploads/2012/04/video.pdf

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Preparation

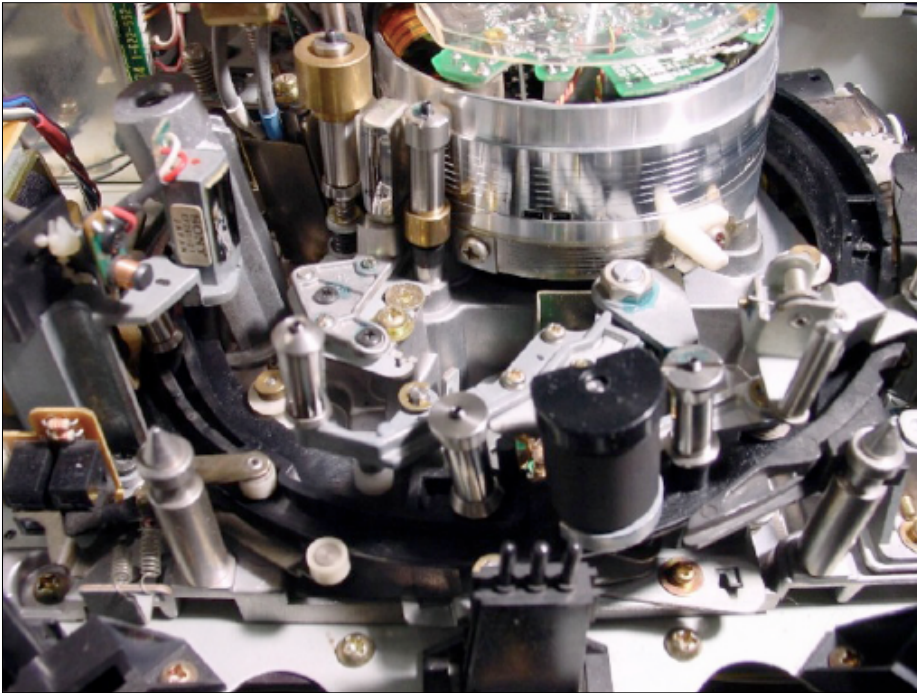
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Storage and Handling

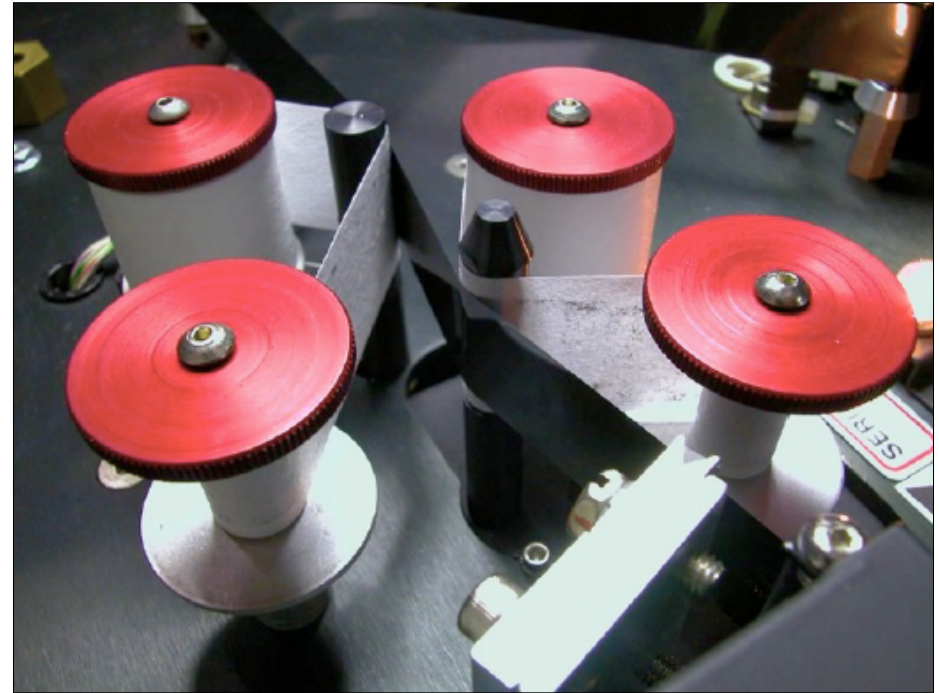
John W. C. Van Bogart: **Magnetic Tape Storage and Handling. A Guide for Libraries and Archives.** Commission on Preservation and Access, Washington DC; National Media Laboratory, St. Paul MN June 1995

→ www.clir.org/pubs/reports/pub54

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Digitisation

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AMIA Open Source

vrecord

→ github.com/amiaopensource/vrecord

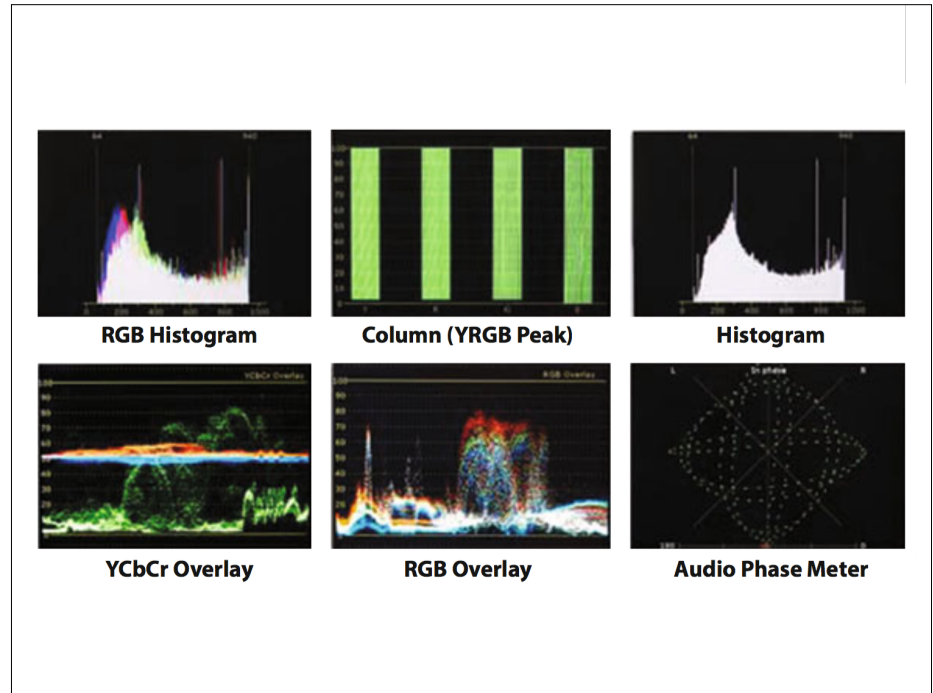
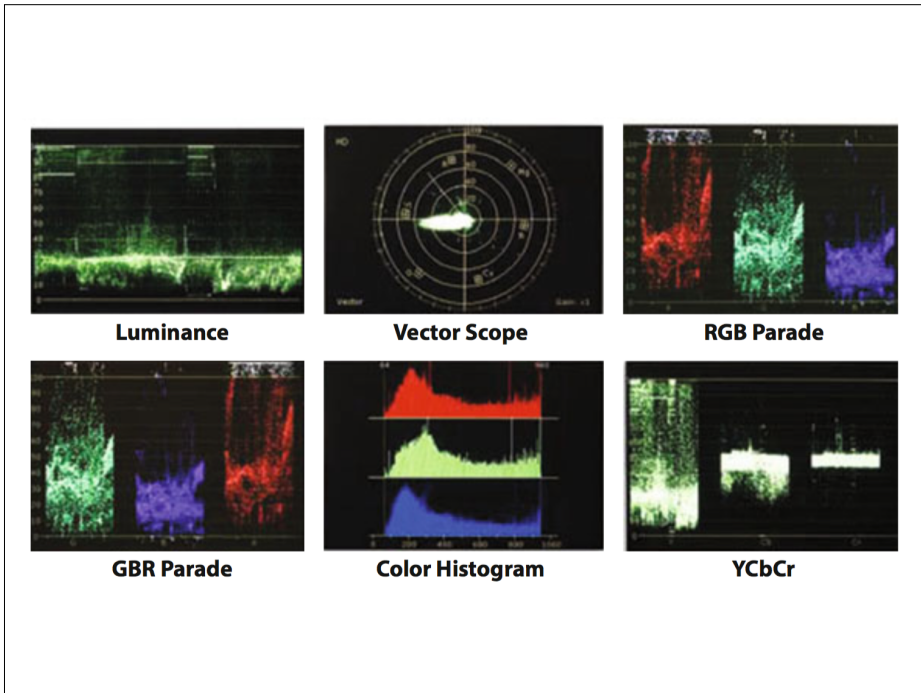
audiorecorder

→ github.com/amiaopensource/audiorecorder

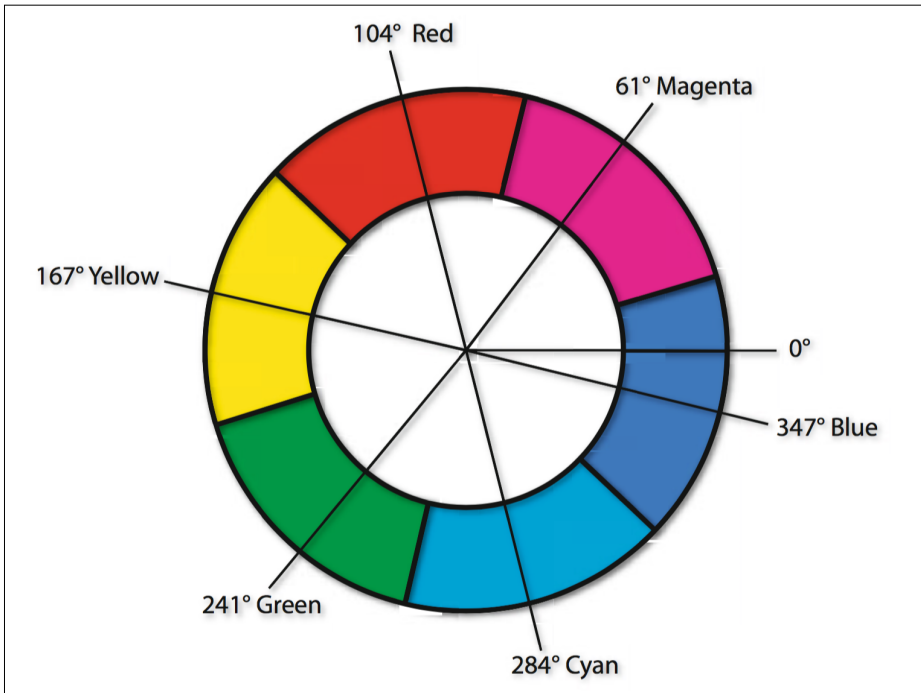
LTOpers

→ github.com/amiaopensource/ltopers

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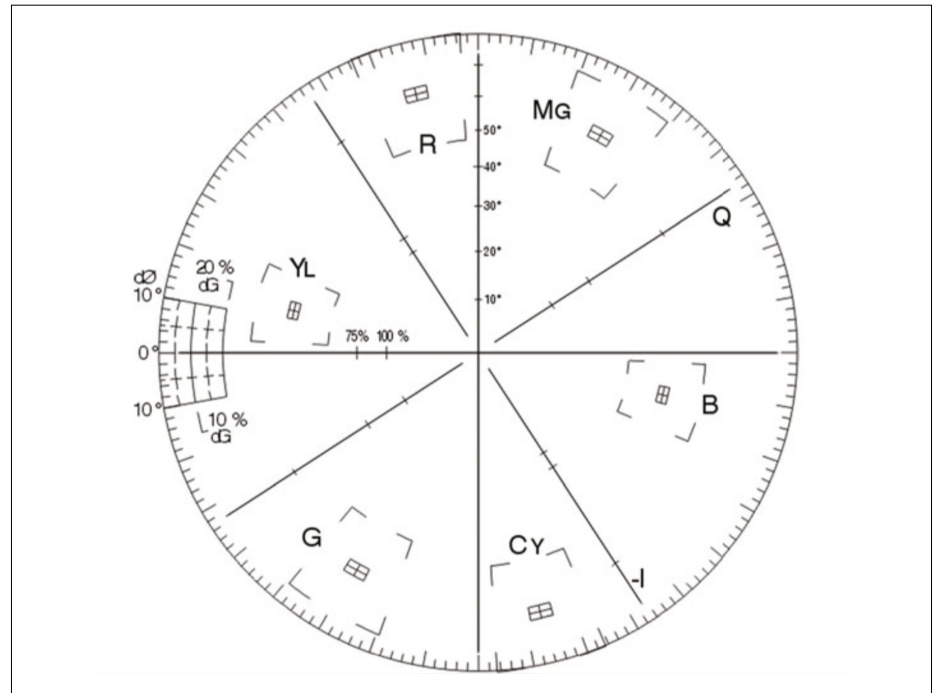


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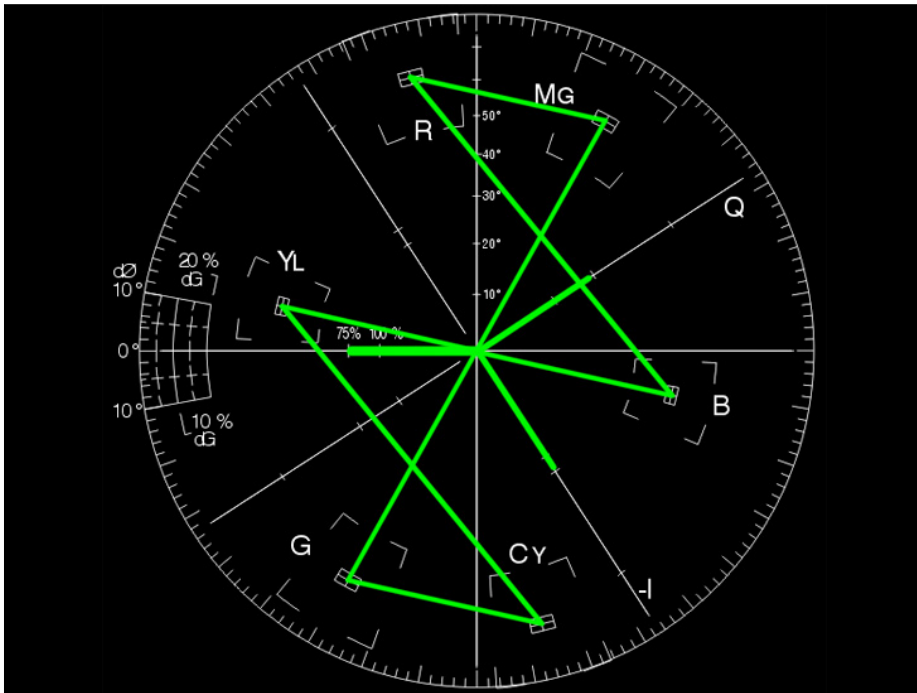


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Quality Control

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FFmpeg

ffmpeg, ffprobe, ffplay

→ ffmpeg.org/

Cookbook for Archivists

→ avpres.net/FFmpeg/

ffmprovisr

→ amiaopensource.github.io/ffmprovisr/

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BAVC

QCTools (GUI), qcli (CLI)

→ bavc.org/preserve-media/preservation-tools

AV Artifact Atlas

→ bavc.github.io/avaa/

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MediaArea

MediaInfo (GUI, CLI)

→ mediaarea.net/MediaInfo

MediaConch (GUI, CLI, web)

→ mediaarea.net/MediaConch/

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