

# Analogue Television and Video

Reto Kromer • AV Preservation by reto.ch

## On the Materiality of Audio-Visual Heritage

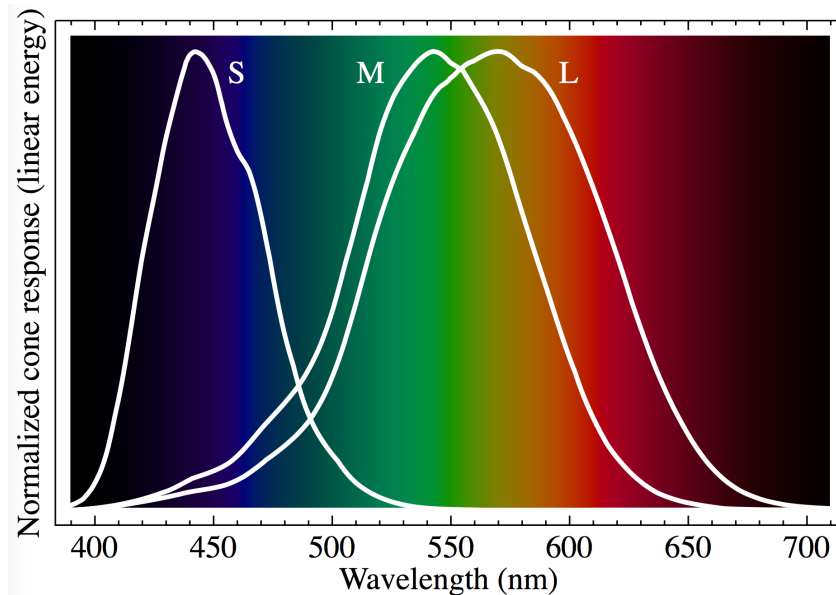
Elías Querejeta Zine Eskola  
Donostia (San Sebastián), Spain  
4 – 7 October 2022

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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

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## Sound Recordings

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

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## 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"

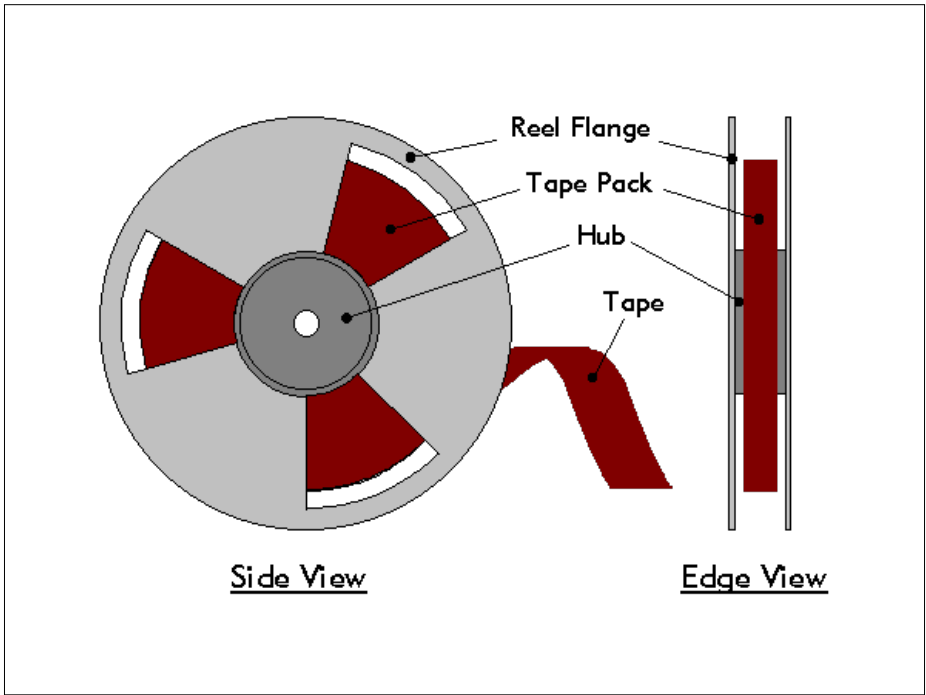
cinema

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

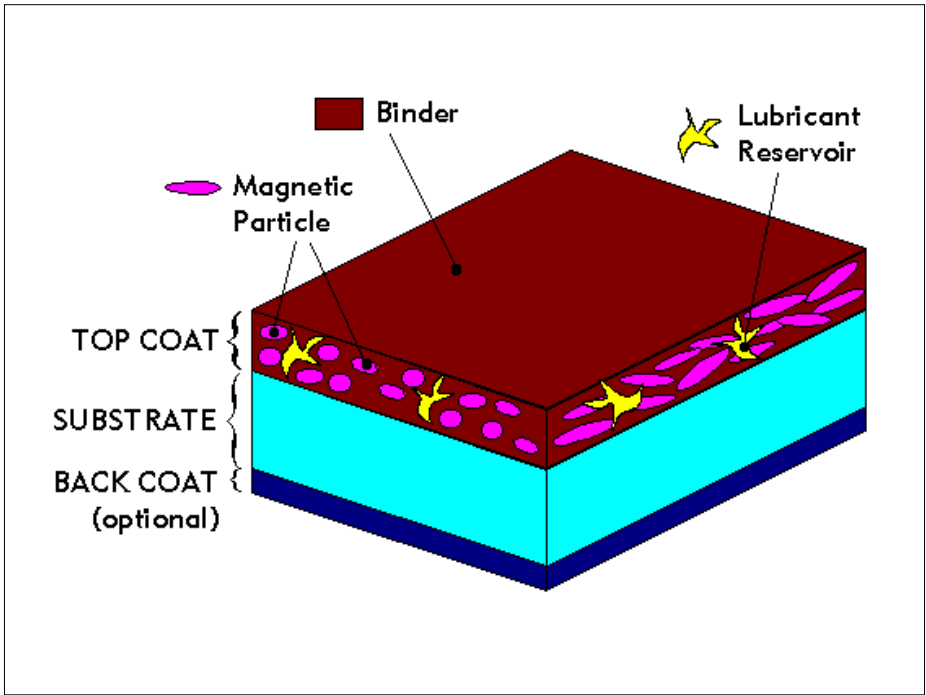
video

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

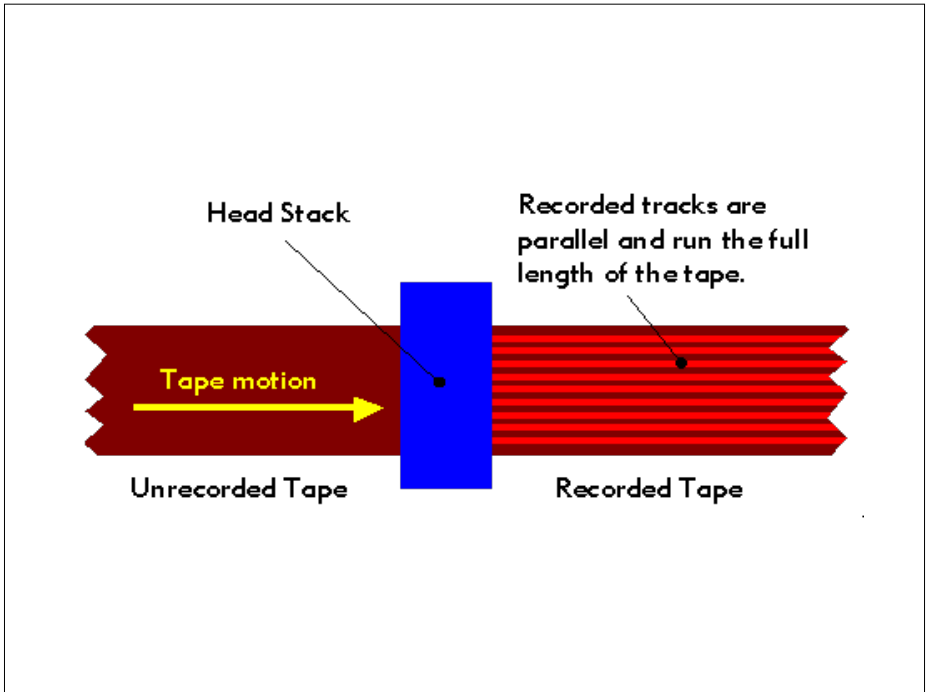
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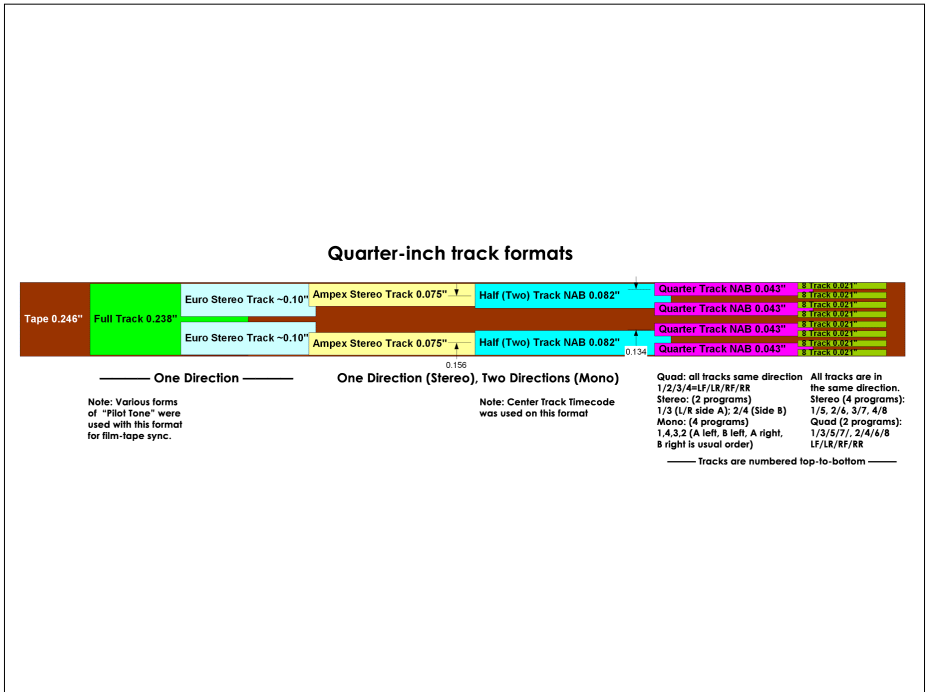
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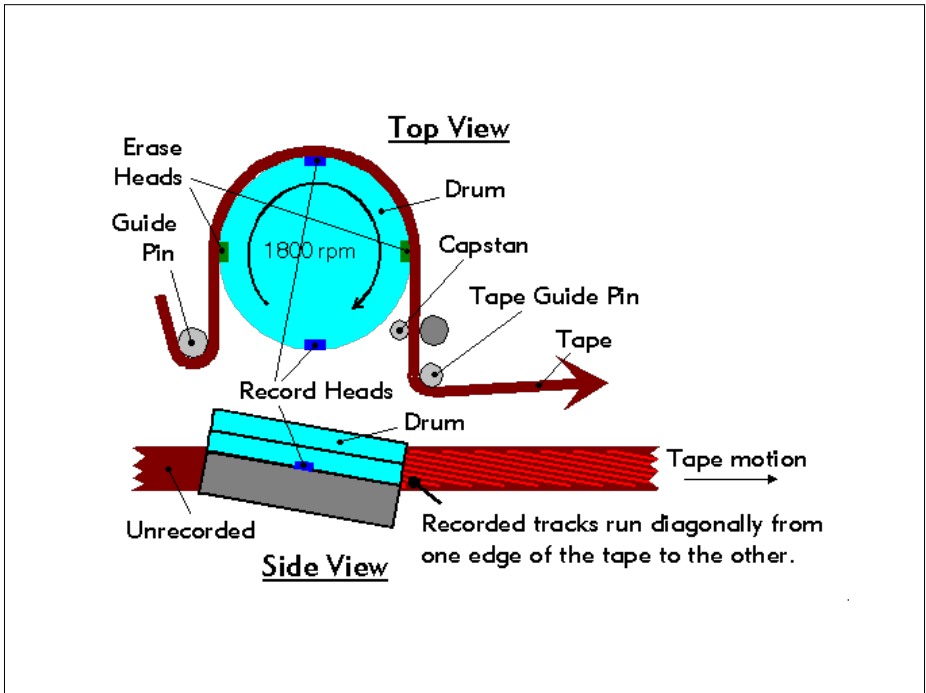
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# Sound Film Production

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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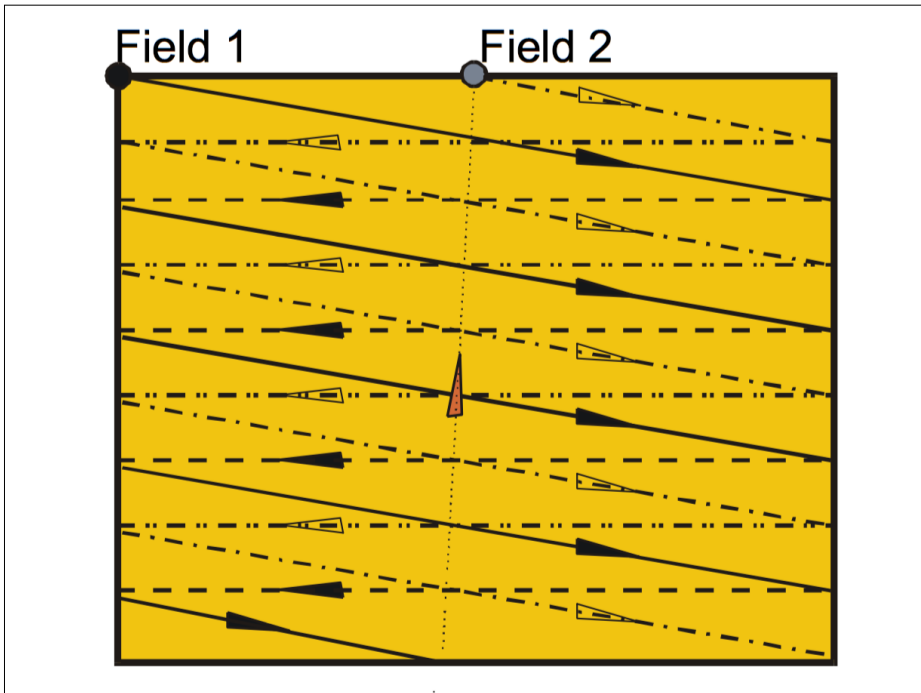




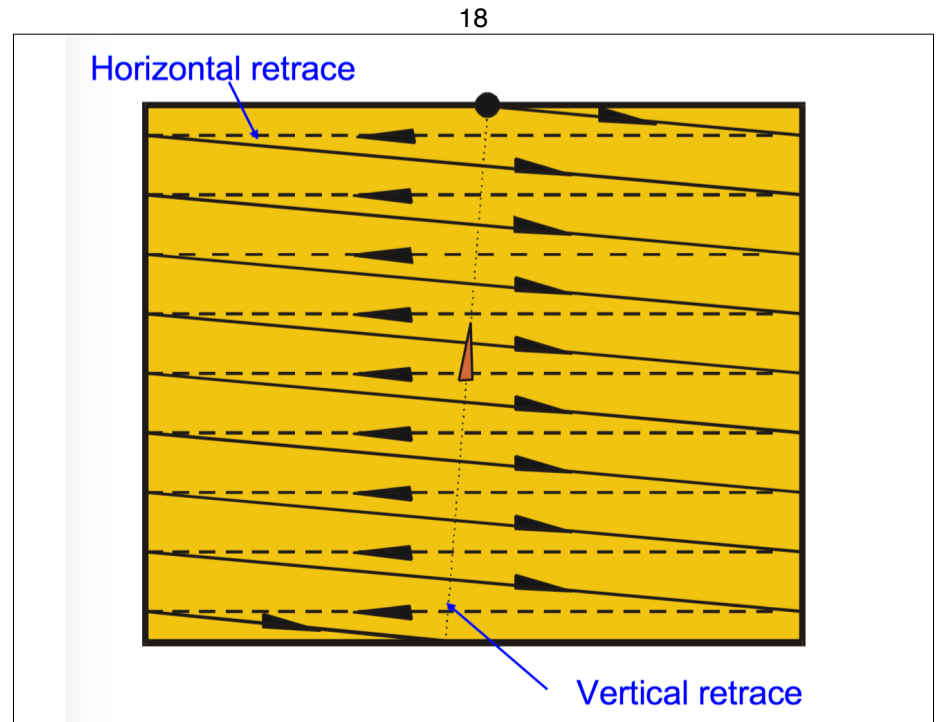
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## Analogue Colour Television

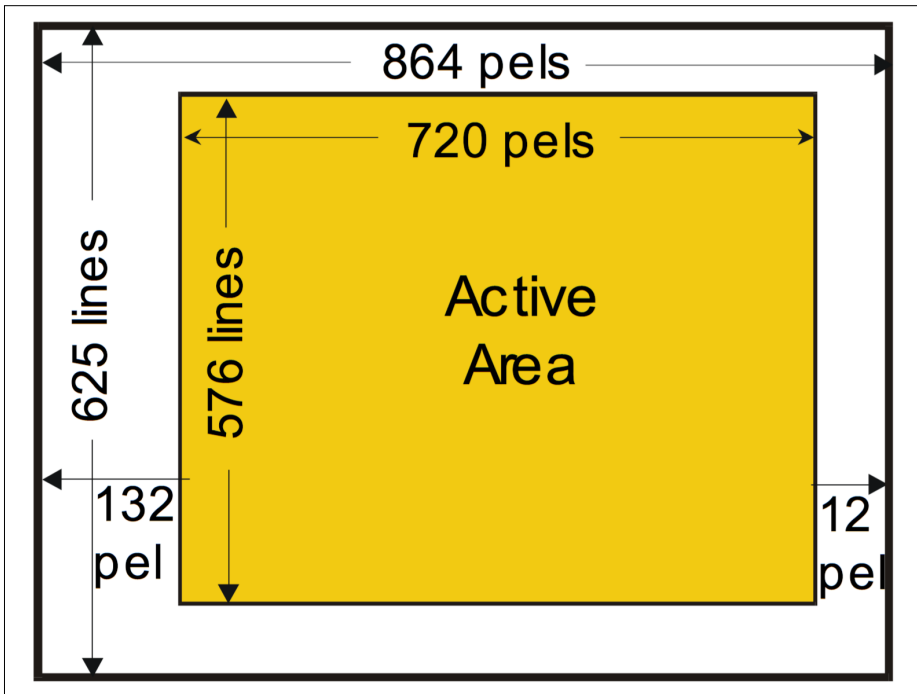
- PAL
- NTSC
- SECAM



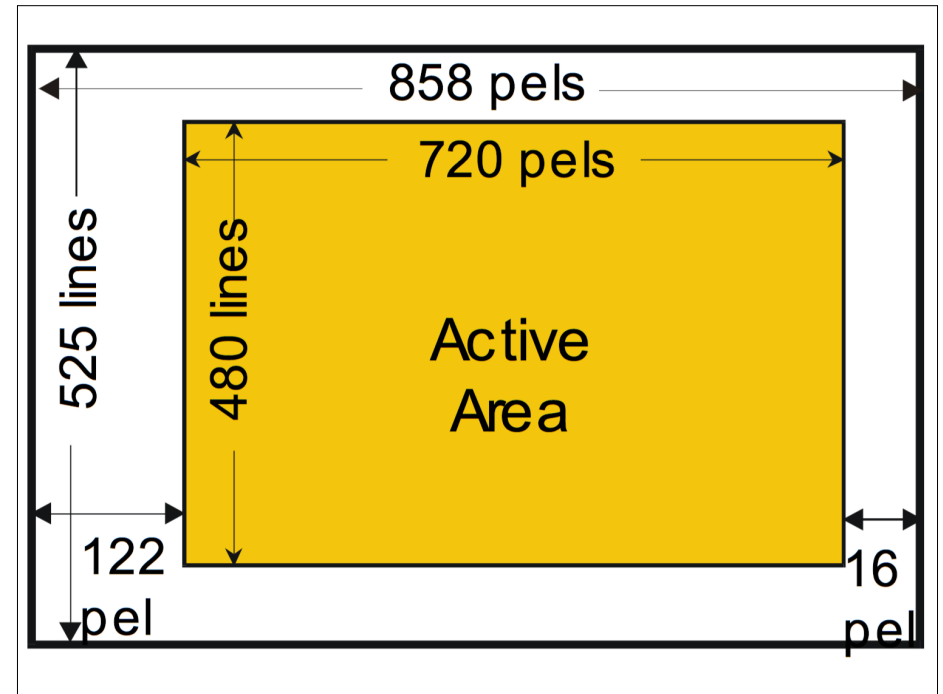
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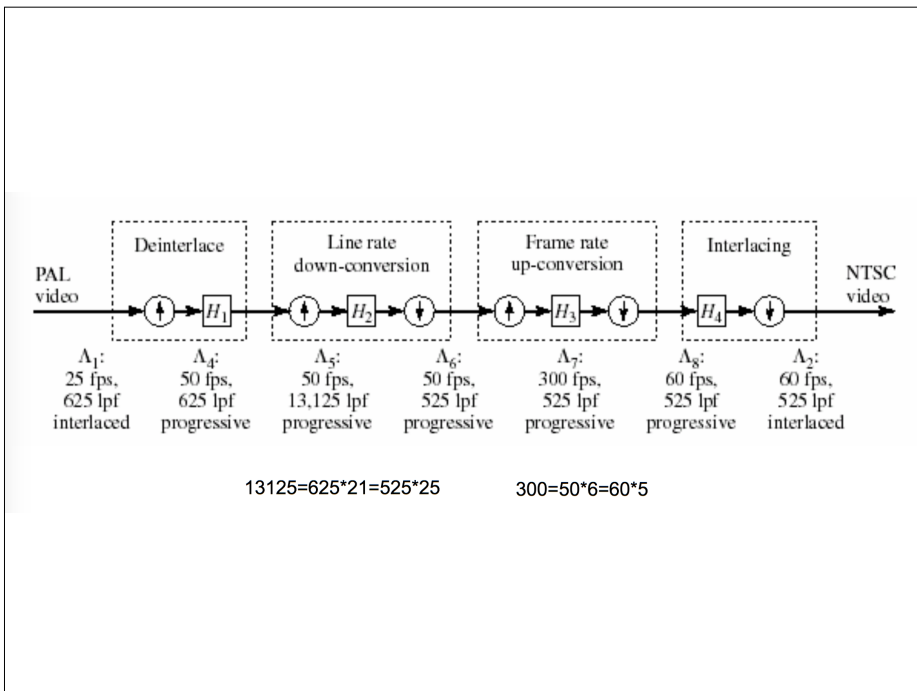
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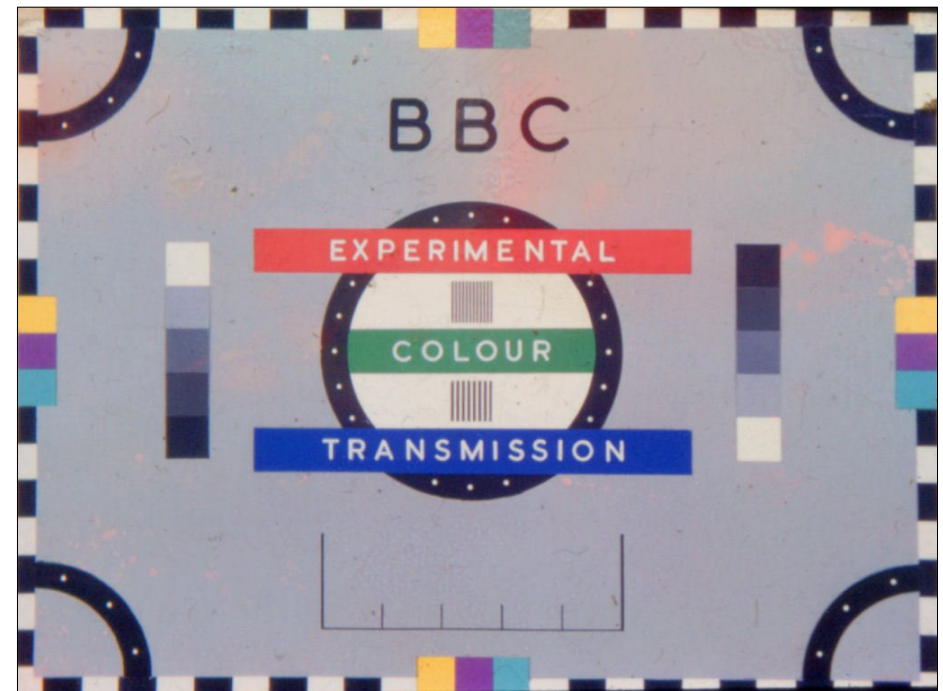
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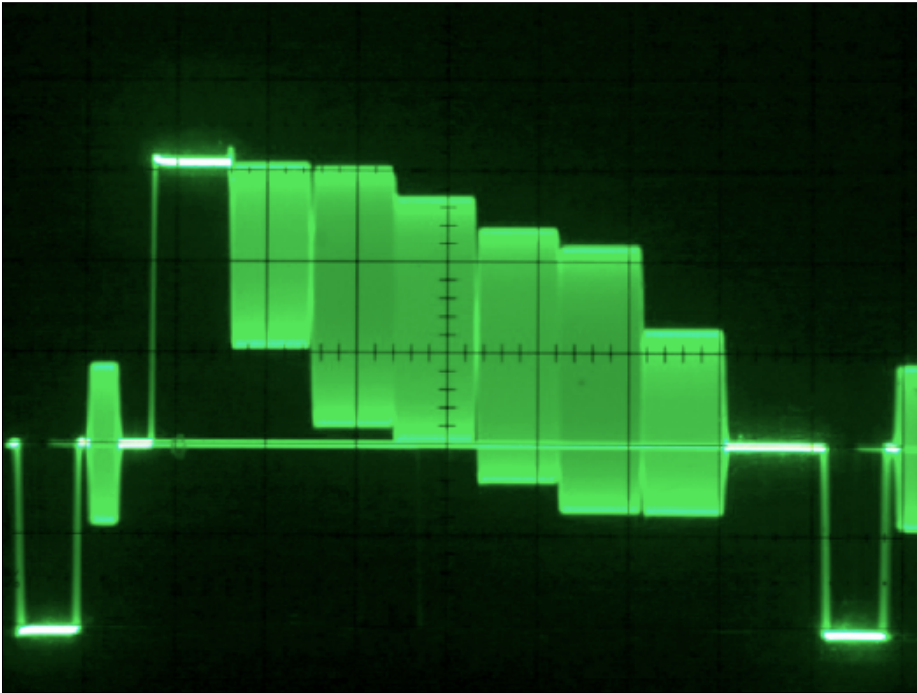
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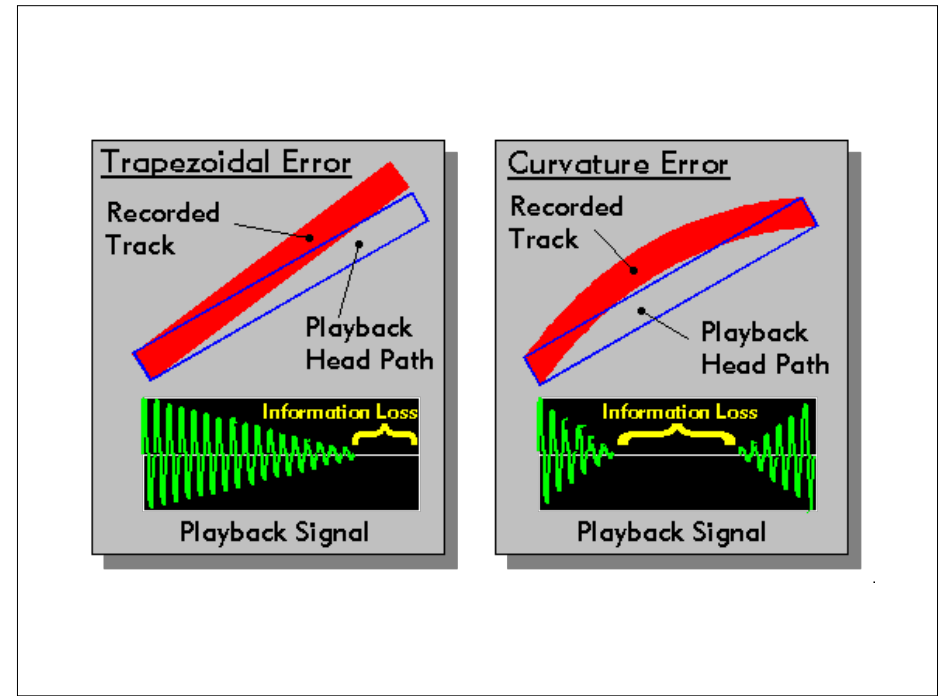
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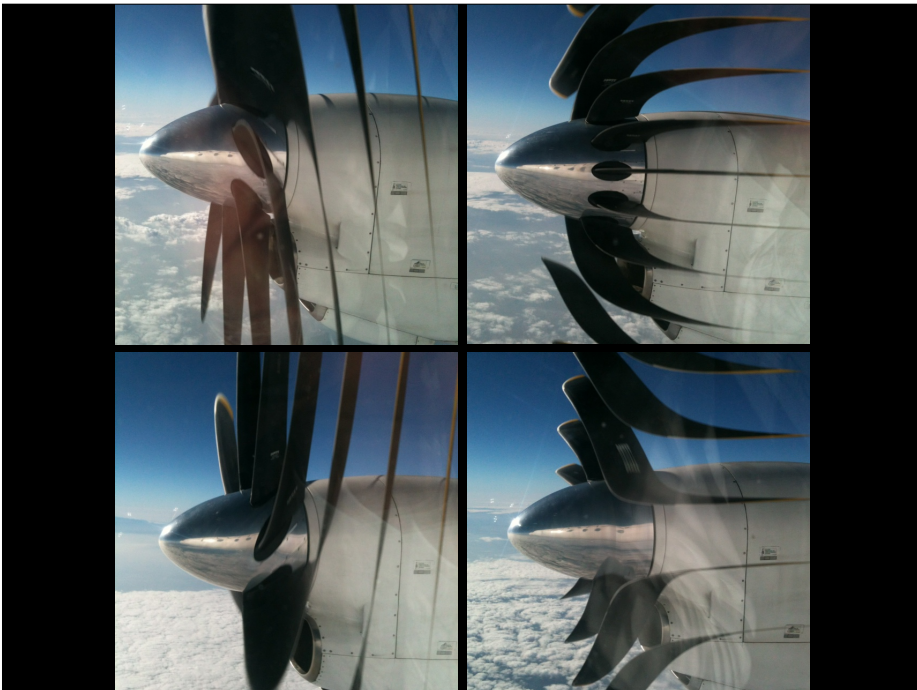
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## Workflow

- 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](http://www.arts.texas.gov/wp-content/uploads/2012/04/video.pdf)

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# Preparation

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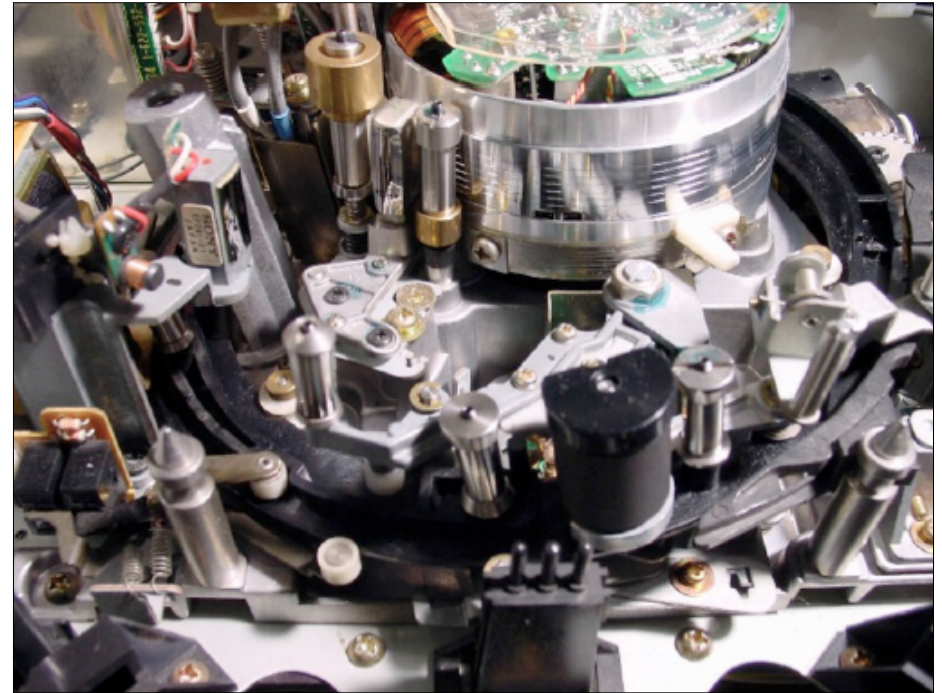


# Storage and Handling

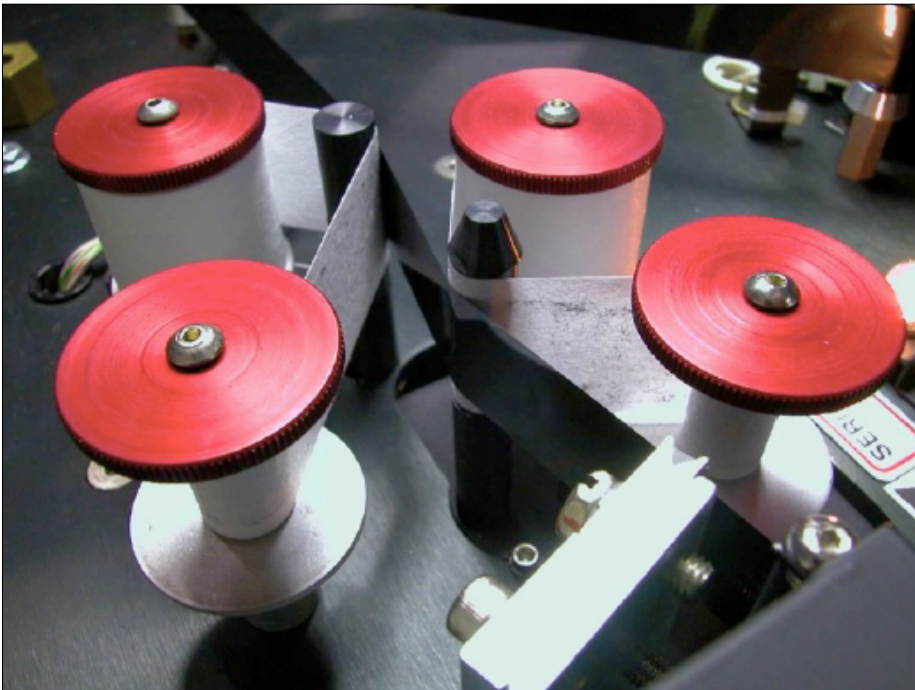
John W. C. Van Bogart: **Magnetic Tape Storage and Handling. A Guide for Libraries and Archives.** Commission on Preservation and Access, Washington DC; National Media Laboratory, St. Paul MN June 1995

→ [www.clir.org/pubs/reports/pub54](http://www.clir.org/pubs/reports/pub54)

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# Digitisation

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# AMIA Open Source

## vrecord

→ [github.com/amiaopensource/vrecord](https://github.com/amiaopensource/vrecord)

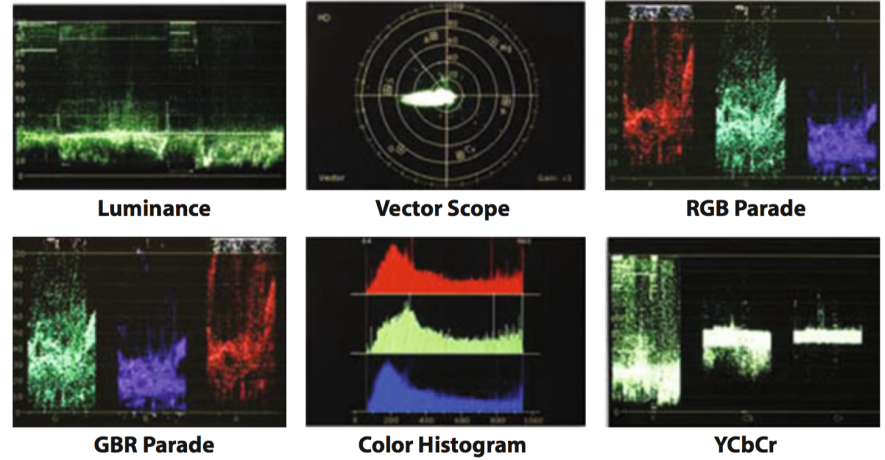
## audiorecorder

→ [github.com/amiaopensource/audiorecorder](https://github.com/amiaopensource/audiorecorder)

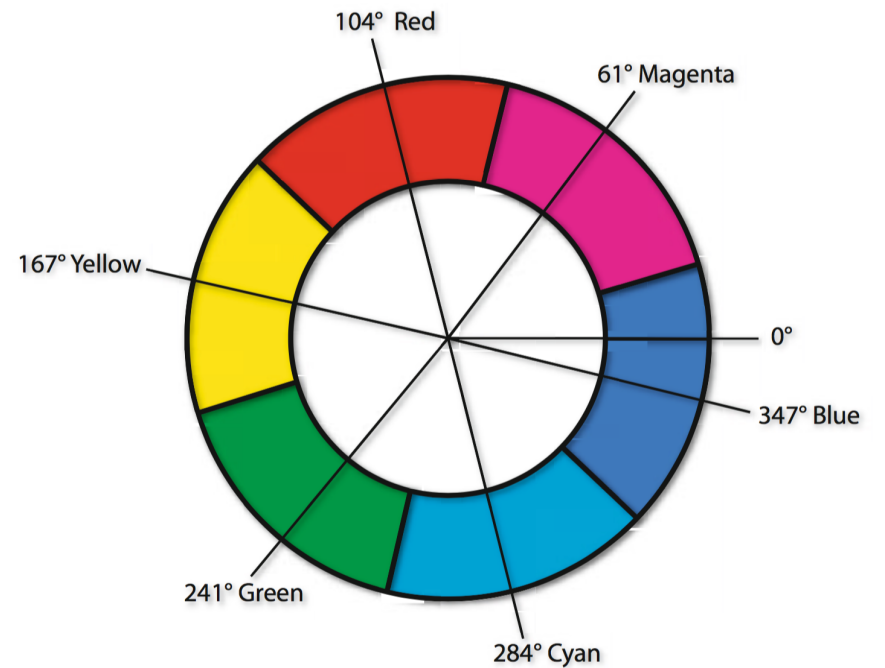
## LTOpers

→ [github.com/amiaopensource/ltopers](https://github.com/amiaopensource/ltopers)

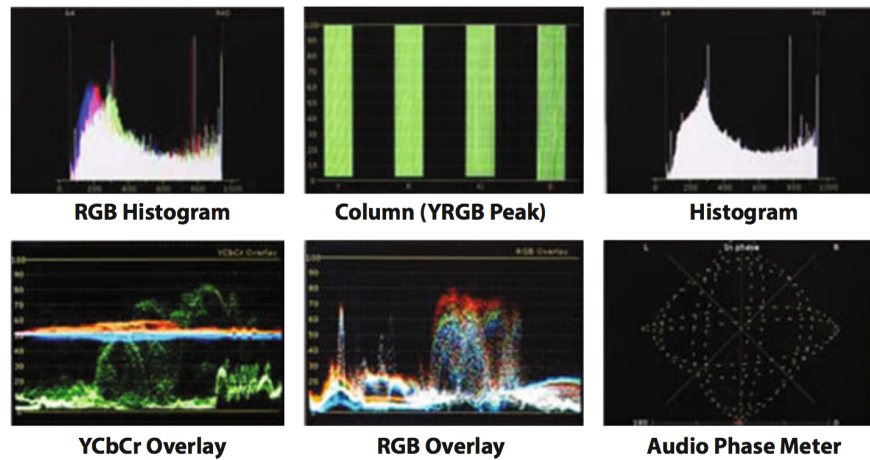
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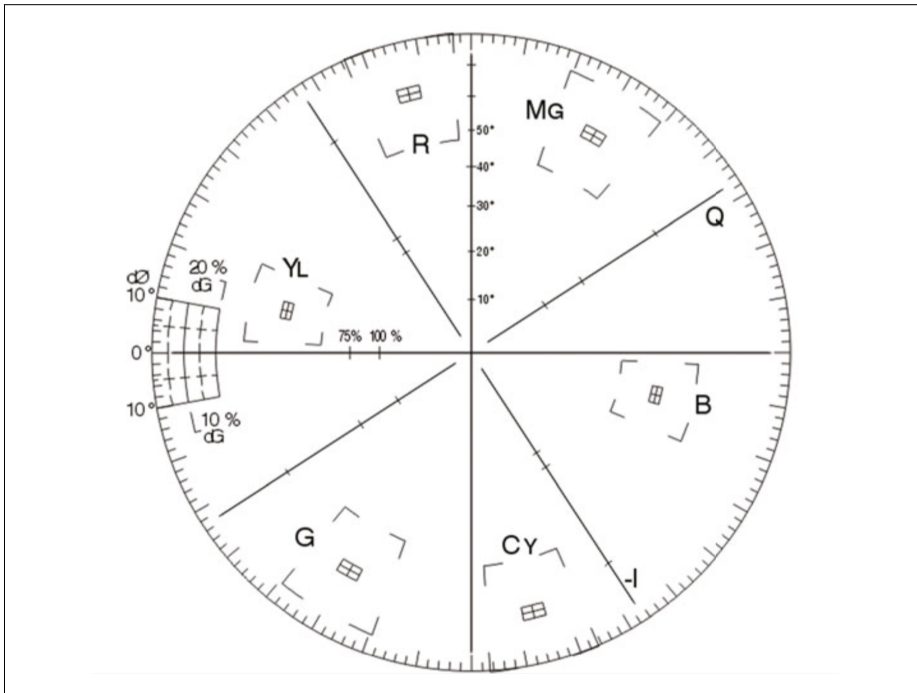
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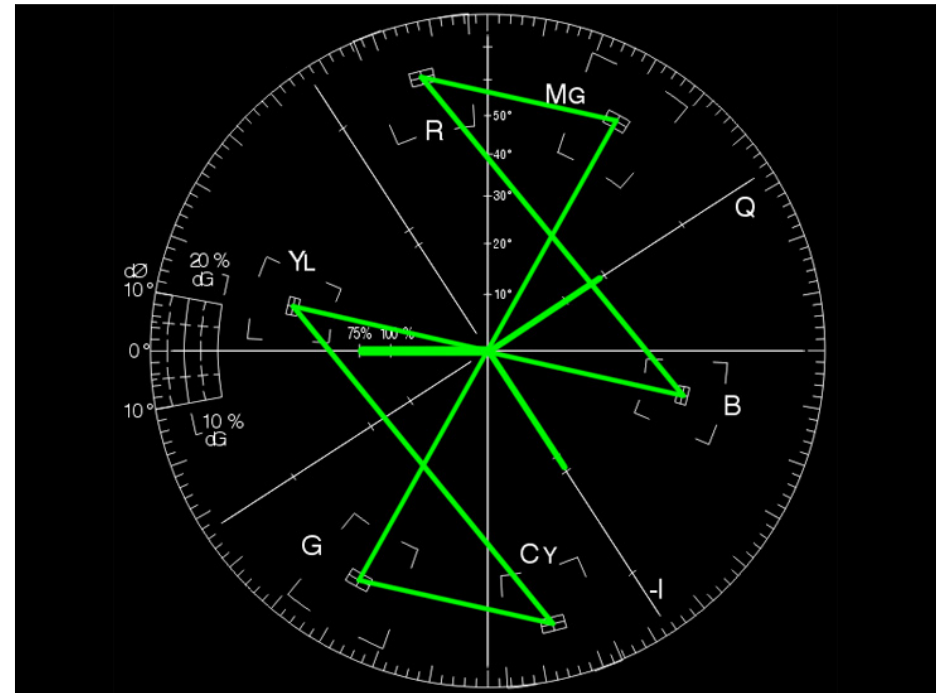
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## FFmpeg

**ffmpeg, ffprobe, ffplay**

→ [ffmpeg.org/](https://ffmpeg.org/)

**Cookbook for Archivists**

→ [avpres.net/FFmpeg/](https://avpres.net/FFmpeg/)

**ffmprovisr**

→ [amiaopensource.github.io/ffmprovisr/](https://amiaopensource.github.io/ffmprovisr/)

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# Quality Control

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# BAVC

**QCTools** (GUI), **qcli** (CLI)

→ [bavc.org/preserve-media/preservation-tools](http://bavc.org/preserve-media/preservation-tools)

**AV Artifact Atlas**

→ [bavc.github.io/avaa/](http://bavc.github.io/avaa/)

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# MediaArea

**MediaInfo** (GUI, CLI)

→ [mediaarea.net/MediaInfo](http://mediaarea.net/MediaInfo)

**MediaConch** (GUI, CLI, web)

→ [mediaarea.net/MediaConch/](http://mediaarea.net/MediaConch/)

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until 31st January 2023

from 1st March 2023