

Video and Film Introduction

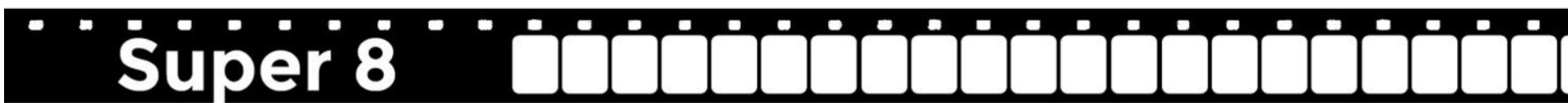
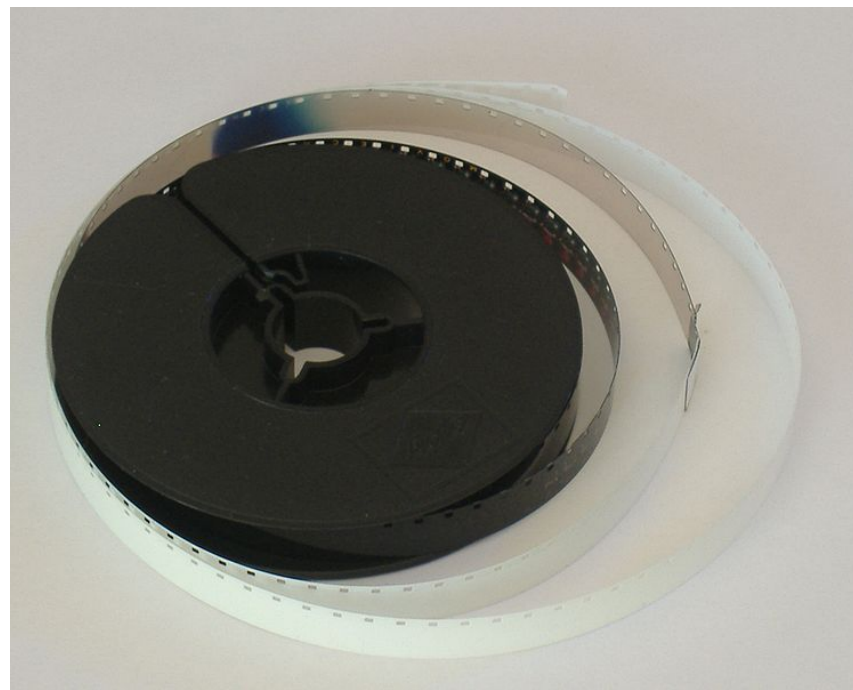
Digital Stewardship Curriculum

Film and Video formats

- Film
- Magnetic Video Tape
- Optical Video
- Digital Video

Film formats

- 8mm, super 8mm, 9.5mm, 16mm, 35mm
- Photochemical emulsion on a plastic backing
 - [Nitrate](#)
 - Acetate
 - Polyester
- Sprocket holes
- Soundtrack



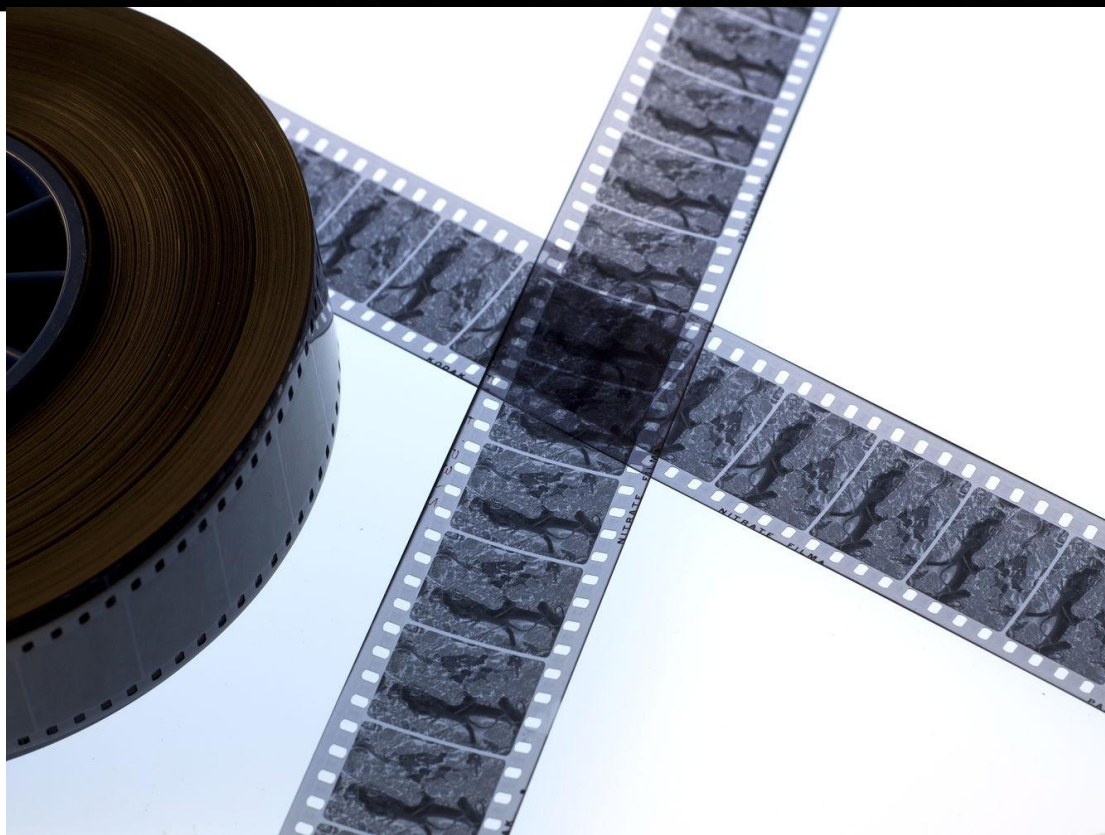
' 9.5mm '



16mm

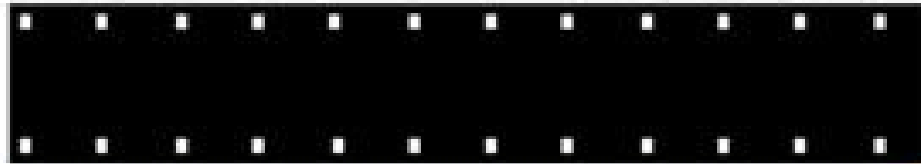


35mm

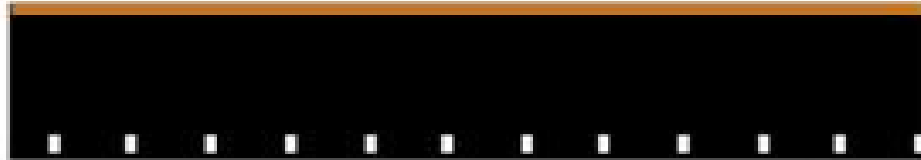


Soundtracks

- Separate audio
- Attached audio
 - Magnetic
 - Optical



16mm



16mm

Magnetic Sound



16mm

Optical Sound

Preservation and Storage

- Preservation Issues
 - Vinegar Syndrome
 - Improperly wound pack
- Outsourcing
 - Digitization
 - Conservation/Preservation

Storage and Handling

- Clean hands or gloves
- Wind on cores
- Store flat
- Plastic vented cans or cardboard



Magnetic Video Tape Formats

- Open reel - ½”, 1”, 2”
- Cassettes and cartridges - VHS, MiniDV, U-matic, Beta, Video8, D2, D3, DVCAM, DVPRO, Betamax
- Magnetized particles on a polyester backing, binder - sticky shed
- Store vertically, on edge in case





Optical Video Formats

- DVD, Laserdisc
- Physical and digital obsolescence
 - Transfer off of optical media in favor of digital storage
- Surface vulnerable to scratches
- Store upright in plastic containers



M-G-M Laser Disc Hits

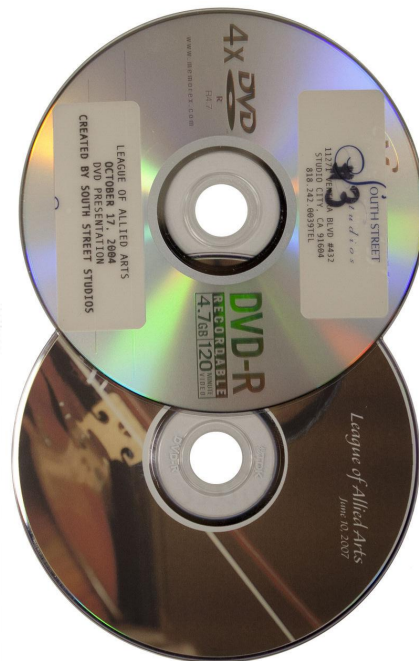
THE ADVENTURES OF ROBIN HOOD
AN AMERICAN IN PARIS
ANNIE HALL
THE BAND WAGON
BUGS BUNNY SUPERSTAR
CASABLANCA
CAT ON A HOT TIN ROOF
EASTER PARADE

THE MALTESE FALCON
MEET ME IN ST. LOUIS

MILDRED PIERCE
MOONSTRUCK
MUTINY ON THE BOUNTY
A NIGHT AT THE OPERA
NOW, VOYAGER
RAIN MAN
SHOW BOAT
SINGIN' IN THE RAIN

Laserdisc:
1978

DVD:
1995



Note: Emergency/Disaster Planning

- Having a plan in place for many kinds of disasters
- Identifying valuable materials
- Knowing what is needed for all of your formats
- Knowing how to recover from disasters
 - Recovering yourself
 - Knowing who to call

More Resources

Quick Guide in packets

[PSAP](#)

[Museum of Obsolete Media](#)

Library of Congress

[Connecting to Collections](#)

Association of Moving Image Archivists

Film and Video Considerations

- Size and quality
- File formats
- Digitizing

Quality and Size

- Balance of Quality and Size
- Consider your source!
- Adobe Premiere - match source
- VHS quality

Resolution or “Frame Size”

- The size of a video, in pixels.

1920x1080 - 1080p

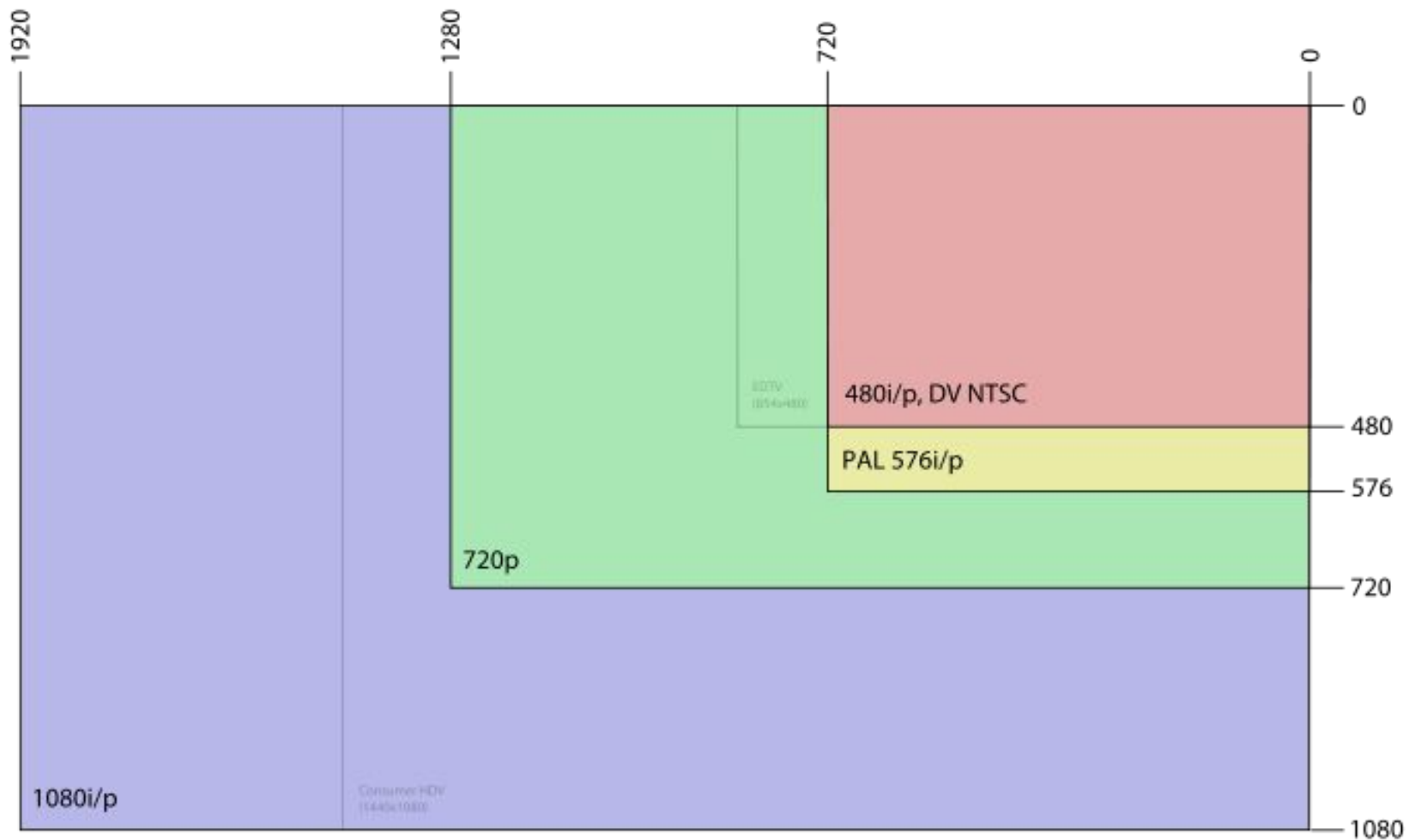
1280x720 - 720p

720x576

720x480

480x333

352x240



Aspect Ratio

- The ratio of a video's width to height.
- 4:3 - VHS formats
- 16:9 - High Definition, widescreen

Bit Rate

- Bits per second
- How much data is processed/captured in each frame
- Higher bit rate = more data, higher quality, bigger size
- Balance Quality and Size

Frame rate

- Frequency at which a device displays or captures the frames. (Frames per second)
- digital video: 24, 25, 30 (and on)
- film: 16, 18, 24
- VHS = 29.97

File Formats

- Video file is comprised of 2 things
- Codec: Coder/decoder
 - Software that compresses and decompresses data
- Container: Structure, how the file is stored

File Formats, continued

- Well supported?
- Open vs. proprietary?
- Quality vs. size
 - AVI, MPEG-2, MPEG-4, Quicktime, WMV, MOV
- At WSU, we use...
 - Access: MPEG2