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1927 TV is invented in San Francisco

**1933 Audio Tape was invented by BASF
during WWII by German Scientists**

**American Soldier brings back german tape machine to
Ampex in Redwood City California
Bing Crosby funds
first Ampex American Audio Tape Recorders**

**1946 America adopts the NTSC TV System
1948 Europe and others adopt PAL TV System**

1956 Ampex invents video tape

Audio Tape Formats:

Oxide

2", 1", 1/2", open reel

Audio cassette

Mini Audio Cassette

A-DAT

Metal Tapes

DAT

Audio Cassette

CDs

Mini Disc



Video Tape Formats (NTSC American or PAL European)

Oxide

Open Reel

2", 1", 1/2"

Cassette

D1, 3/4", Betacam, VHS, VHS-C, Betamax, MI, 8mm

Metal

**3/4"SP, Hi 8mm, Digital 8, Mini DV, Mini HD DV, BetacamSP, Digital Beta,
DV Cam, DVC Pro, MII, D2, D3, D5, HD Cam, HD SR, S-VHS**

- 1. Store tapes in COOL DRY place: 40° F to 0° F @ 20% to 30% RH.**
- 2. Don't store in attic or basement**
- 3. Keep tapes away from speakers or anything magnetic**
- 4. Protect tapes from dust by storing them in plastic boxes**
- 5. Keep Tapes out of direct or indirect sunlight**
- 6. Forward and rewind tapes once a year**
- 7. Store tapes rewound**
- 8. Take out Record tab to inhibit record over**

How long does magnetic tape last?

Several factors matter:

- 1: Brand of tape**
- 2: Metal or Oxide**
- 3: Storage conditions**
- 4: Number of plays**
- 5: Quality of machine playback**

Even in the best conditions magnetic tape will begin to degrade and information will be lost in less than 10 years.

How to Preserve

1: Make a tape copy

2: Make a disc copy

3: Digitize the tapes

**Digitizing is the preferred method
of preserving tape content.**

It will never degrade and be easily accessible.

If I knew you were coming....

1: Sticky Shed

2: Shedding

3: Tape Break & Wrinkles

4: Faulty Cassette

Most of these problems can be solved by baking the tape.

A faulty cassette requires a tape transplant.

Electronic resoration can be performed on poor quality tapes. (expensive)

Don't wait: passed time creates more problems.

Digitized Content can be stored on:

- Hard Drives**
- Flash Memory**
- Cloud Solution**
- LTO**