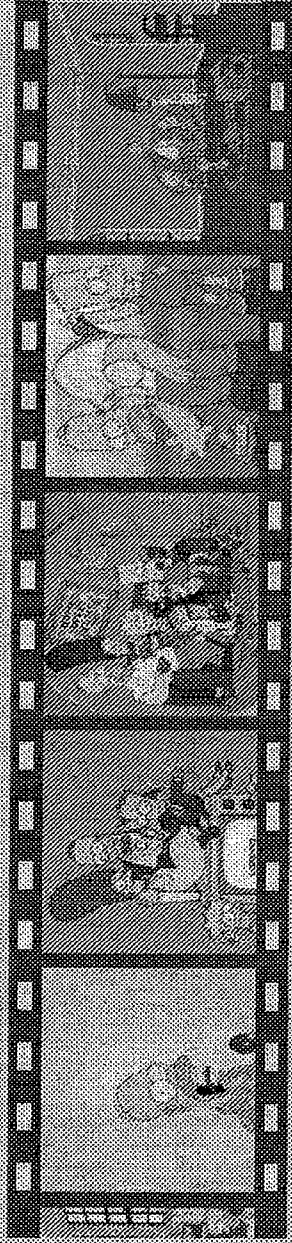


## (2) Technology

- **Digital Hashing: MD5**
  - YouTube has implemented technology to prevent videos removed for copyright reasons from being uploaded again.
  - The technology creates a unique identifier of each unauthorized video when it is removed.
  - If a user thereafter tries to upload the identical video that matches that unique identifier, the video is automatically rejected regardless of whether the users is using a different username or file name.

YouTube

# MD5-Hashing Explained



...011100101010110001111100111000011110010101...

Calculation of a unique 32-bit hexadecimal value using all bits in file, e.g. "0xFFFFFFFF"

- ✓ MD5 hashes are efficient and accurate
- ✓ The hash-value covers both audio and video, and are filename independent
- ✓ MD5 hash technology prevents the upload (or repeat upload) of the *identical* video file

