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# the grey album

01 public service announcement 02 what more can i say 03 encore 04 december 4th 04 december 4th 05 99 problems 06 dirt off your shoulder 07 mement of clarity 08 change clothes 09 allure 10 justify my thug 11 interlude
12 my first song ANALOG-TO-DIGITAL CONVERSION Musmann:

Musmann:
But my real interest was in a different direction. At that time,
we learned from publications that all kinds of information could
be represented in digital form. This was fascinating, we learned
how to represent a speech signal, and we learned about the effects
of analog-to-digital conversions. We also learned that it is very
complicated to convert video signals or any kind of moving images
to digital representation. If you compare a TV signal with a speech
signal, then you recognize that the transmission bit rate is about
three thousand times that of the speech signal. But it was fascinatiing that all kinds of information could be represented in a digital
form. My special interest at that time was the representation of
visual information for future visual communications. But the problem
was the very high bit rate.
Then I learned from the current literature how you have to
sample the analog signal in order to convert it into a digital
representation. If you have band limited signals, you cand the it wat
samples in order to have a completely digital representation, you
introduce quantization noise. By sampling and then quantizing-we
call this PCM for Pulse Code Modulation-you come up with a bit rate
for speech signals which is about sixty-four kilohits per second.
You need an eight-kilohertz sampling rate, which is two times the
bandwidth, in order to represent fast signal changes, and you aneed
at least eight bits per sample, in order to avoid quantization
noise. The first papers came out at this time from NASA and bell
laboratories in the U.S., which showed that it was possible to represent this signal with fewer bits than PCM by processing the bits.

### Nebeker:

Is this an audio signal you're talking about?

# Musmann:

Yes, at that time it was audio, because it was impossible to convert a video signal at that time. You would have needed a very fast sam-pling system that was not available.

Nebeker: One could certainly understand why NASA was interested in digital communication. What was your interest?

# Musmann:



December 1991 — The Moving Pictures Experts Group cd hofer Society with input from AT&T and Thomson to so converted into small computer files. June 1992 — RFC 1341 establishes the Multipurpose I the way for the alt.binaries hierarchy on Usenet. 1992 — Software Publishers Association runs an anti-July 1994 — The Fraunhofer Society released the 13e September 1995 — The Fraunhofer Society released Wi June 1996 — Mp3 warez group Rabid Neurosis founded. mp3's available for others to download. Mirabilis d 1997 — Scour Inc. is founded by five UCLA Computer S as well as a multimedia web search engine released declaring bankruptcy in October 2000. April 1997 — Aulaunches AOL Instant Messenger with ' August 1997 — Hotline is announced at MacWorld, and September 1997 — MP3.com is founded by Michael Rober for unsigned artists. It serves 4 million audio file release of My.MP3.com in January 2000, which allower would be ruled in favor of the record labels. MP3.c January 1998 — Musicmatch Jukebox is released provi March 1998 — SoundJam MP released allowing mp3 playb it as the basis for iTunes. September 1998 — Rio PMP300 MP3 player is shipped by in October, without success. October 1998 — Digital Millennium Copyright Act is in et Service Providers cannot be sued for the activi November 1998 — Audiogalaxy is created by Michael M i million downloads in 2001. In May 2002, a suit by Audiogalaxy would settle the suit for an undisclose P2P services in favor of Rhapsody, a pay streaming i December 1998 — MP3 Newsire, the first digital medi. February 1999 — China's Tencent launches Q0, a chat June 1999 — Napster was created by Shawn Fannig. N: that indexed the files, and carried out the searches from peer to peer. November 1909 — The Direct Connect network is creat

November 1999 – The Direct Connect network is creat November 1999 – iMesh is launched. December 1999 – The first lawsuits filed against Naps

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napster//best of '99

vantage of having eve in one form by bits. This is really a big advantage; it offers the opportunity to transmit different kinds of information all on one line. At that time the different kinds of communication services had separate lines. Digital representation, however, allows sound, speech, video, and facsimile to be transmitted by bits on one and the same line. This was fascinating. The main question for me was whether it is possible to reduce the number of bits of the PCM rep-resentation. What is the real theory behind this?

kind of info

Nebeker:

Were you more mathematically inclined?

#### Musmann:

Yes. I wanted to understand what the theoretical background [of digital representation] was. So I studied the work of Claude Shanno I think he had prepared the fundamentals of information theory, including source coding which addresses the problem of "How many bits are required for representing information?" At that time we did not have digital communications, with the exception of space probes. That was about 1966, 1967. Since I was looking especially for repre-sentation of visual information, I started with facsimile.

# DIGITAL AUDIO

#### Musmann:

But in digital audio the development was much faster. You know the compact disc. Compact discs present a digital sound signal of 1.5 megabits per second, providing excellent quality. That's why the compact disc is growing so rapidly and records are vanishing. Of course there will be a need for multimedia communications in the future-we haven't talked about that-so that the bit rate for sound coding, 1.5 Mbit/s, has to be reduced. There was also a standard-ization initiative on coding of audio and video for broadcast and computer applications, which is still going on. It was initiated in 1990. The ISO (International Standardization Organization) has established a created more than a provide standardization organization. The first aim of this standardization group was to represent a sound signal by two times 128 kbit/s (which is 256 kbit/s) instead of 1.5 Mbit/, providing a sound quality that cannot be distinguished from the original. The second aim was to develop a video coding standard that cuts down the bit rate of a TV signal with reduced resolution to 1.1 Mbit/s in a first step, and that of a full resolution TV to 4

to 8 Mbit/s in a second step. The first step-we call it MPEG-1-was finished two years ago. I was chairman of the audio part. My colleague Dr. LeGall was responsible for the video. The best researchers from industries and universities contributed to the standardization, and we succeeded.

I wanted to mention this because in this audio coding technique there is a special processor that simulates the processing of the ear. The sound signal is split into frequency bands as our ear does and the quantization introduced is controlled by a special model called the psycho-acoustic model. The model simulates the perception thresholds of the ear.

#### Nebeker:

Which are derived from physiological information?

## Musmann:

Yes. So the model of the ear is continuously calculating the sensi-tivity thresholds for additional noise...

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