

AUDIO VIDEO DIGITAL

POPULÄRE & WICHTIGE FORMATE

CONTAINER

- Audio Video Interleaved (.avi)
- Quicktime (.mov)
- Matroska (.mkv)
- MPEG-4 (Part 14) (.mp4, .m4v)
- Material eXchange Format (.mxf)

CONTAINER: HERKUNFT

- AVI: Microsoft (1992)
- MOV: Apple (1991)
- MKV: Open Source (2002)
- MP4: Motion Picture Experts Group (2004)
- MXF: "The Industry" (2004)

AUDIOCODECS

- MPEG-1 Audio Layer II (.mp2)
- MPEG-1/2 Audio Layer III (.mp3)
- AC-3
- Advanced Audio Coding (.aac/.m4a)
- Free Lossless Audio Codec (FLAC)
- PCM (aka "WAV")

VIDEOCODECS

Consumer

MPEG-1/2 (VideoCD / DVD)

MPEG-4 SP (XviD/DivX)

MPEG-4 AVC (H.264)

WMV (Microsoft)

DV

Professional

V210 (uncompressed)

FFV1 (lossless)

JPEG2000

ProRes

R3D (Redcode)

DPX / TIFF (Film)

**LOSSY,
LOSSLESS,
UNCOMPRESSED?**

WO IST DER UNTERSCHIED?

lossy:	verlustbehaftet
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lossless:	verlustfrei komprimiert
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uncompressed:	unkomprimiert. verlustfrei
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GENERATIONSVERLUST

Original (FFV1)



DV



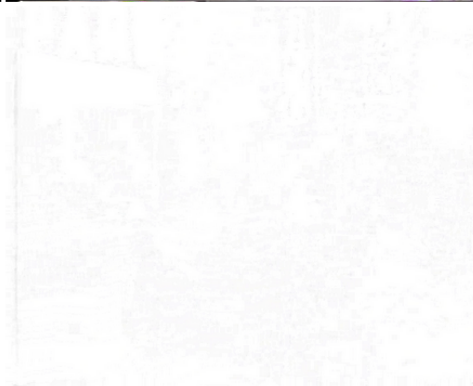
MPEG-2 (DVD)



H.264



Visible loss ->



Generation 1

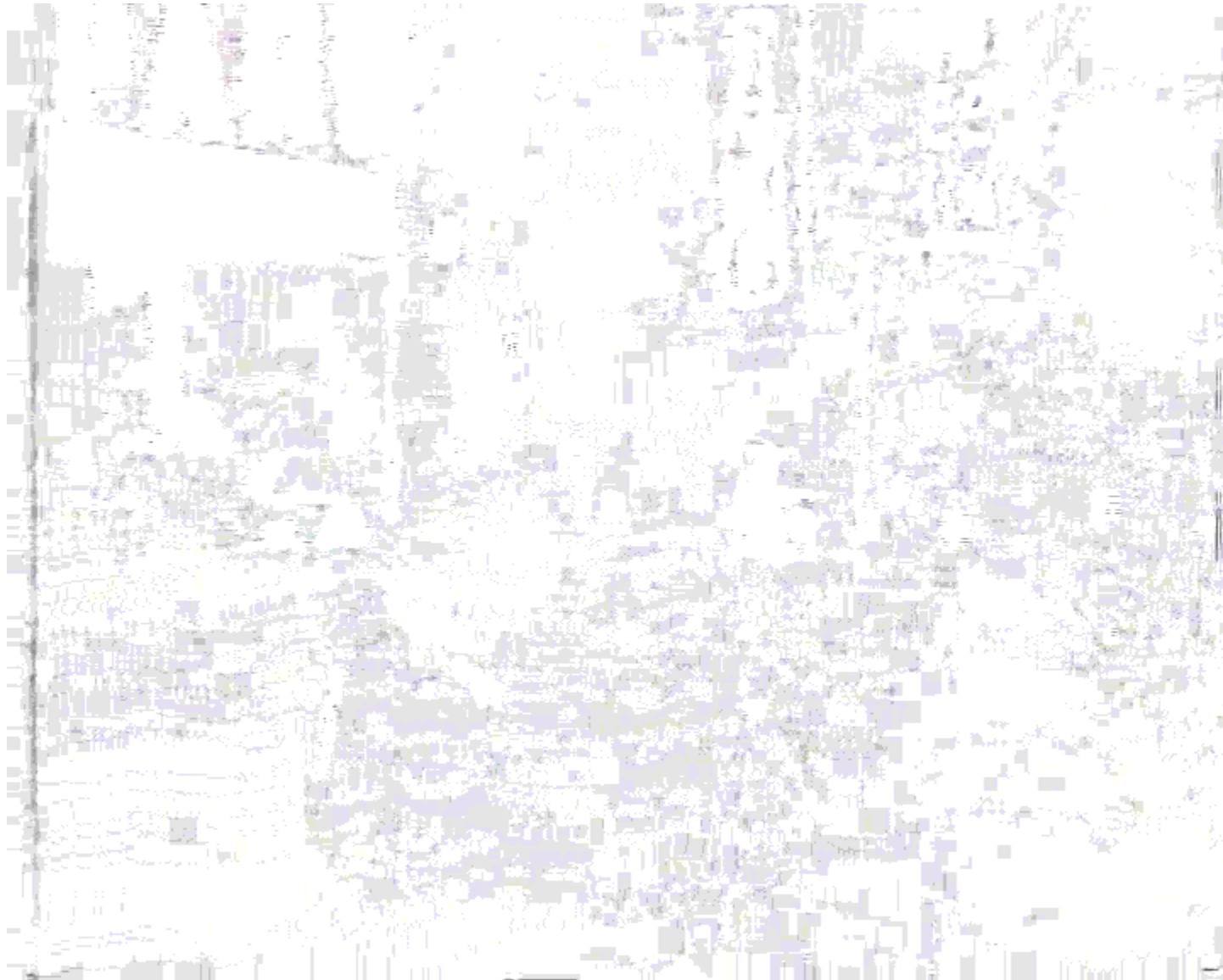


Generation 2



Generation 3

VERLUST GENERATION 1



HÄUFIGES MISSVERSTÄNDNIS

Komprimiert ist nicht gleich "lossy".

LINKS

- [Comparing video codecs and containers for archives](#)
- [The MPEG-4 confusion](#)
- [The archivist's video codec/container FAQ](#)
- [Video encoding suggestions - For improved long-term preservability](#)
- [Blog: "MAGIX: Retten Sie Ihre Videokassetten!"](#)

BITRATE

- = Datenmenge pro Zeit
- = Bits Per Second
- kbps, MB/s, etc.
- Lossy Parameter:
relevant für Bild-/Tonqualität

Beispiele: MP3 128 kbps, DVD 4-5 Mbit/s

LINKS

- [Wikipedia: "Bit rate"](#)
- [Understanding Bitrates in Video Files](#)
- [Wikipedia: "Data rate units"](#)

FRAGEN?

ZURÜCK ZUM INDEX