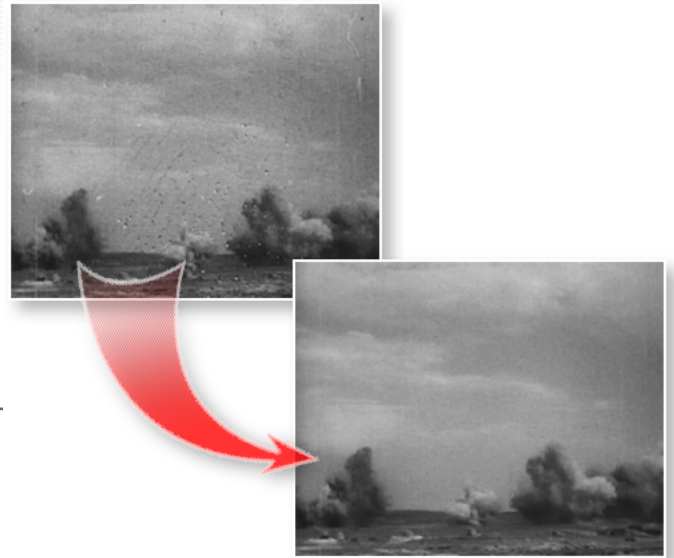


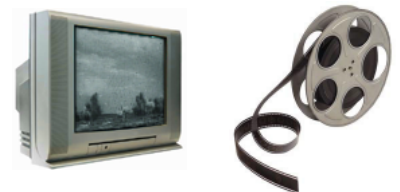
YUV Old Film Restore Technology

High-quality restoration through removal of scratches, spots and other artifacts encountered in old cinema



Primary Applications

- Digitization of analog video archives
- Digitization and restoration of old movies
- Home video restoration
- High-quality noise removal for extremely noisy video



Video from old film reels

Key Features

- Automatic and semiautomatic processing
- Details are preserved and can even be restored
- Various speed/quality trade-offs

YUV Old Film Restore
Technology

Restored video

Basic Deliverables

- Source code for a reference implementation in C
- C and assembly language source code for an implementation optimized for the PC (if required)
- Algorithm description
- Software description
- Verification instructions



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YUV Old Film Restore Technology

Specification

- Fully automatic
- Controllable speed/quality tradeoff
- Multi-frame compensation-based method: uses several neighboring frames to restore the current frame; can restore details that are removed or distorted by artifacts
- Highly efficient at removing artifacts present on a single frames: scratches, finger prints, emulsion drops, etc.
- High-quality denoiser for extremely noisy video
- Does not smooth details

Comparison with Competitors



Original



Adobe Photoshop



Temporal smoother



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