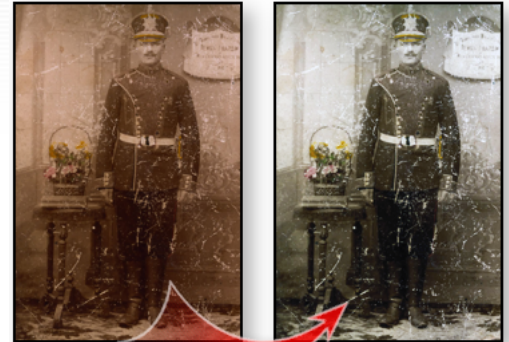


YUV Color Enhancement Technology

High-quality digital restoration of old color photos and video

Old photos from the 19th and 20th centuries almost always have severe color degradation.

Our solution can help to restore original colors in old photos as well as in modern photos and videos, which also can have color change and degradation due to overexposure or improper storage conditions.



Primary Applications

- Restoration of video and images
- Video and image editing

Key Features

- Preserves details
- Various speed/quality trade-off
- Tunable to different film characteristics
- Applicable both to video and to static images

Basic Deliverables

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



Photos and video with faded or distorted colors

YUV Color Enhancement Technology



YUVsoft Corporation

web: www.yuvsoft.com

e-mail: customers@yuvsoft.com

phones: +1 408 426 5988

+7 906 744 0865

YUV Color Enhancement Technology

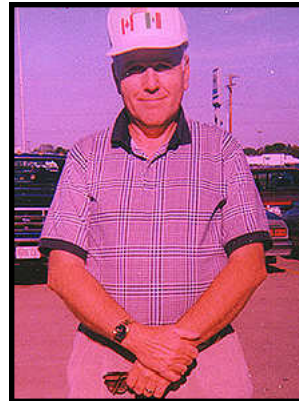
Specification

- Fully automatic
- Controllable speed/quality trade-off
- Local adaptation to illumination and colors
- Does not produce color flicking
- Performance of non-optimized C reference model on an Intel Pentium 4 3.0 GHz PC:
 - up to 100 fps for CIF video (352x288)
 - up to 25 fps for 4CIF video (704x576)
- Memory usage of 12-16 bytes per pixel
- Frames processed independently
- Modes available for user-controlled adjustment of processing parameters for improved visual quality

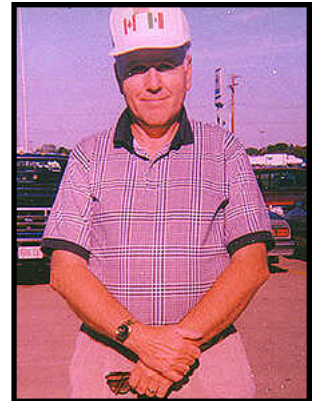
Comparison with Competitors

- Adobe Autolevels
- Adobe Autocolor

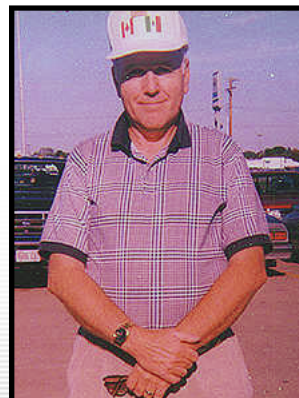
Original



Adobe Autolevels



Adobe Autocolor



YUV Color Restoration + YUV Contrast

